

Fruit Fly
Expert Identification System
and
Systematic Information
Database

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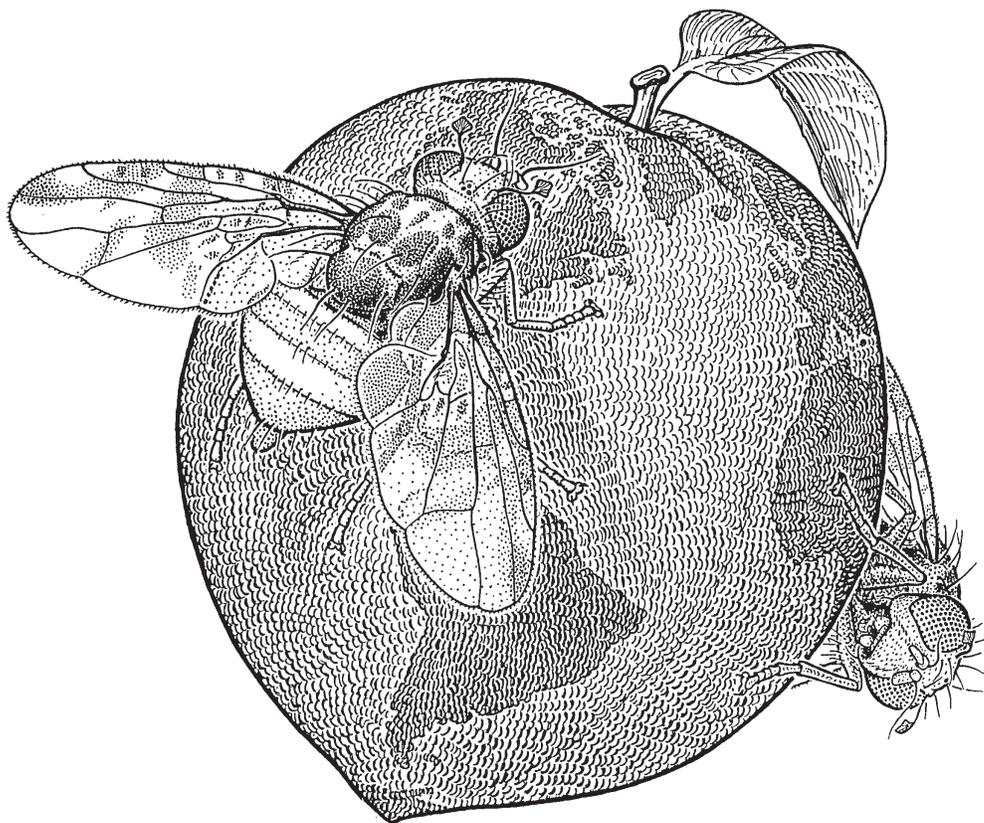
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Fruit Fly Expert Identification System and Systematic Information Database

A resource for identification and information on fruit flies and maggots, with information on their classification, distribution and documentation



Backhuys Publishers

**Fruit Fly
Expert Identification System
and
Systematic Information
Database**

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North American Dipterists' Society
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To

Richard H. Foote
1918-

Who had the vision and begun the journey

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Introduction

by F. Christian Thompson

The Tephritidae, true fruit flies, are a family of attractive picture-winged flies. With 471 genera and 4,257 species, the taxonomic diversity of this single family of two-winged flies is far greater than that of mammals. Fruit flies are distributed throughout the temperate and tropical areas of the world, being absent only from the high arctic and antarctic. They are almost all phytophagous, and include numerous pests of fruit and vegetable crops, as well as species useful for the control of weeds.

Fruit flies are of critical importance to man as pests of his fruits. To deal with fruit flies or any other organism, one must have a name, that name being the key to all other information about the organism. To insure universal communication, the name must be unique and always fixed to the same concept, so everyone who uses a name communicates about one and only one species (or taxon). That is scientific nomenclature. Beyond the requirements of nomenclature (unique names standardized to represent discrete and unique concepts), to be useful nomenclature requires the ability of users to identify the concept attached to the names. If one has a specimen and wants to know what is known about it, one must know what name should be applied to the specimen, which requires that the specimen be identified (the process of attaching the valid name of a concept to an object that belongs within the circumscription of the concept). Users, therefore, need to master both nomenclature and identification to deal with organisms.

To master identification and nomenclature requires a host of products, from catalogs to monographs. We have attempted here to provide all the necessary tools to understand fruit flies in a single work. And this work will provide the user greater access and flexibility in using the information than has ever been possible before. Users will be able to easily identify the 197 most important fruit flies. They will have electronic (digital) access to all the essential nomenclatural data on all fruit flies, as well as the literature on them. The only element missing from our synthesis is associate data, i.e., an index to the hosts, parasites, etc., of fruit flies. While such data was accumulated, the time required to verify and correct the nomenclature of these associated organisms would have greatly delayed what is long overdue. Hence, the first edition is being issued without information about organisms associated with fruit flies. The great advantage of automated data processing (ADP) is the ability to easily revise and add new data. Given support, we envision a new edition which will provide information about associates of fruit flies. So, we offer this as the first fascicle of what we have envisioned as the *Biosystematic Database of the Flies of the World* (Thompson & Knutson 1987).

More information about fruit flies is provided here than has ever been provided before in a single source. And we have provided this information in a format that provides a greater degree of access than ever before. However, we are well aware that existing technologies have advanced further than our efforts to accumulate and verify data. So while we believe we are close to the bleeding edge of technology, we do recognize that

more could have been accomplished. Hence, we remain committed to continually developing and utilizing the best technologies to deliver the best and most comprehensive information to users.

The successful introduction of new technology is always a compromise: A compromise between users' desires and what is feasible given resources (money and people), data, and technology. While we remain uncomfortable with some of the compromises we have made, we do believe we have delivered the best compromise. And as we want to continue to do so, we desire all users to provide us with their comments and criticisms of this initial offering.

This work is provided in its complete form only on CD-ROM in the serial, *Diptera Data Dissemination Disk*, volume 1, a copy of which is distributed with this book. A more abbreviated version is also provided in the traditional printed format. Naturally a copy of the traditional format is also available on the CD-ROM as an Adobe Acrobat readable file (fruit-fly.pdf).

This work summarizes our knowledge of the biosystematics of world fruit flies as of 31 December 1995. Papers subsequent to this date that have come to our attention have also been included. The bibliography includes all references that deal directly with fruit fly nomenclature and taxonomy. Many papers dealing with other aspects of tephritid systematics, host plants, associated organisms, distribution, and other aspects of their basic biology are also included, but the coverage is not as complete.

Authorship and Citation

This is a multi-authored work, different chapters and sections having been written by different combinations of authors. Authorship for various sections is given in a by-line immediately below the title of the appropriate section. The whole work was coordinated by myself. Hence, sections without by-lines should be attributed to the editor. As this work appears in a serial, *Myia*, separate sections can be cited as parts of the whole or just as independent articles in *Myia*. For clarity, the following representative citations are given.

Thompson, F. C. (ed.)

1998 Fruit fly expert identification system and systematic information database. *Myia* 9, ix + 224 pp.

Carroll, L. E.

1998 Larval Character Data Matrix. 76 characters for 81 taxa in DELTA format. In Thompson, F. C. (ed.), Fruit fly expert identification system and systematic information database. *Diptera Data Dissemination Disk* 1.

Norrbom, A. L., L. E. Carroll & A. Freidberg

1998 Status of knowledge. Pp. 9-48. In Thompson, F. C. (ed.), Fruit fly expert identification system and systematic information database. *Myia* 9, ix + 524 pp.

Norrbom, A. L., L. E. Carroll & A. Friedberg

1998 Status of knowledge. *Myia* 9: 9-48.

FRUIT FLY EXPERT IDENTIFICATION SYSTEM

Introduction

By F. Christian Thompson

Information is stored and retrieved by names. Scientific information is stored with scientific names. To obtain the scientific name of an organism, one identifies the organism. Identifications are made by matching characteristics of unknowns with knowns. Traditionally taxonomic keys have been used for this matching. The earliest keys were just text, with relatively few characters. Keys have been improved over the years by adding more characters, as well as illustrations. But the main problem with keys is inflexibility. There is a set pathway (often a long one) through the key to each species; a single mistake may lead to an erroneous identification; a single missing character may leave the user at a dead end. Verification of the identification requires reading complete descriptions to find all the characters to check.

An expert system is much more flexible. Many taxa can be eliminated immediately by restricting the data set according to geographic location or host data. Any character of any sex or stage in the life cycle can be chosen in any order which seems best to the user. Or the expert system can select the best characters for use, based on their ability to separate the remaining taxa under consideration.

Characters are accompanied by illustrations, and multiple states are allowed. This speeds up the identification process in two ways: by enabling direct comparison of images with the specimen (rather than reading text), and by reducing the total number of decisions which must be made, because more than the traditional two possibilities can be efficiently evaluated at one time.

Characters are also accompanied by help files which can be accessed at any time. Even so, the possibility of error (e.g., a poor or aberrant specimen) can be accommodated by having the expert system tolerate an error or two before rejecting a taxon. Errors, once detected, can be corrected easily, without stepping through all characters again.

The verification process is also much easier. Although complete descriptions are available, just as in traditional taxonomic references, the expert system can also give the differences between the specimen and another taxon, or between any two taxa. Or the expert system can list all the diagnostic characters for a particular taxon. With the identification process complete, the database can be queried for complete nomenclatural and distributional data, as well as pertinent references.

Expert systems are not a panacea. Unusual specimens, those outside the domain of the expert system or with distorted features will still have to be sent to the systematist.

Fruit Fly Expert System

Our Expert System is designed to be totally self-contained. All one needs to do is to run the program and then follow the instructions on the screens. All questions should be answered by the included help files. A tutorial is also included. If you want a quick start, just run the tutorial.

To run the Expert System one needs an MS-DOS (PC) computer with a VGA monitor and sufficient memory. See below for details on the memory requirements. The Expert System will also run on MacIntosh computers with MS-DOS or Windows emulation software, such as SoftPC from Insignia. The Expert System may be run directly from the CD-ROM or the files may be copied onto the hard disk and run.

TO RUN the program one only needs to set a MS-DOS variable (SET PANKEY=D:/FRUITFLY, where D: is the letter for the CD-ROM drive or the disk drive where the fruitfly files are) and go to the FRUITFLY directory and enter ONLIN7 at the DOS prompt. **To run the tutorial**, one only needs to switch to the appropriate directory where the files are and enter the name of the program and data file at the DOS prompt (D:\demo1\rdemo2t learn1, where D: is the letter for the CD-ROM drive or the disk drive where the fruitfly files are). These tasks are most easily done with a MS-DOS batch file. Samples of such batch files are in the directory/folder called BAT on the CD-ROM.

The Expert System has **three components**: The program, data sets and images. Users need to be aware of these different components and how our design was shaped by them. We have assumed that our users are professional identifiers, such as those working for APHIS-PPQ. Hence, they are already familiar with traditional identification aids, such as keys, and are familiar with their organisms.

The **program** presents character data to users who then make selections which ultimately may lead to an identification. The program differs from traditional identification tools by allowing for random and varied access to character data. The user is free to choose any of the available characters in any order, whereas the traditional key allows only for the use of specific characters in a rigid sequence. Users can also request comparisons between taxa, descriptions and/or diagnoses of taxa, functions not available in traditional keys. So, our objectives in designing the program were to maximize the access to character data and to present those data in the most effective manner. Naturally, our objectives were constrained by the data format used and computer resources available. To build our Expert System, we worked with Richard Pankhurst, the world's authority on computerized biologi-

cal identification. The basic program, known as ONLINE, was his work to which he added some significant new features at our direction. So, when you are using the program, reading the menus and general help screens, you are using ONLINE.

Data sets are what determine the identification capabilities of the expert system. The adage “garbage in, garbage out” is true of the expert system. These data sets are the wisdom of the experts, so the program can only be as effective as the experts were in expressing their wisdom in a set of characters and values for taxa. For data sets our objective was to use a data format which the systematics community endorses and widely uses, so there would be the maximal number of data sets available that could be compiled and used by our expert system. We also wanted a data format which could encode all kinds of character data and was not proprietary, so data sets could be shared. The DELTA data format, which was established by CSIRO was the only available one which matched our criteria. The DELTA data format imposed some limitations on the Expert System, but these are less than the advantages gained. Also, our data sets can be used with other computer identification systems, such as INTKEY.

Two **fruit fly data sets** were developed. The adult data set by the leading Tephritidae experts: Amnon Freidberg, Tel Aviv University, Israel; Ian White, CAB Institute of Entomology, London; and Allen Norrbom, Systematic Entomology Laboratory, Washington. Lynn Carroll worked closely with these specialists, adding her experience and knowledge of DELTA to ensure a uniform and consistent data set. She developed the larval data set. So, when one reads the text of the characters and related help screen, one is using the data set provided by these experts. And when one gets an identification it is because these experts selected the best characters.

Images help users understand character data. They are, therefore, a useful if not necessary adjunct to the data set. However, images are not required by the program. The program was designed so that images were independent of the data set because images are expensive, the most expensive component beyond the data set. Also linking images to the data set and using such technologies as touch screens or mice to select images would have been more costly as each data set would have required special coding. To keep costs within budget, existing images were re-used wherever possible and only the minimal number of new ones were created. However, many images were improved, for instance, black and

white habitus figures were colored. So, don't be surprised if these images look familiar!

Authorship: The adult data sets are by Carroll, White, Freidberg and Norrbom; the larva data set by Carroll; the ONLINE application is by Richard Pankhurst; the tutorial was done by Jennifer Fairman; and I did all the little things necessary to tie it all together. So, for example, to cite the larval data set, the following is recommended:

Carroll, L. E.
1998 Larval Character Data Matrix. 76 characters for 81 taxa in DELTA format. *In* Thompson, F. C. (ed.), *Fruit Fly Expert System and Biosystematic Database. Diptera Data Dissemination Disk 1.*

Memory limitations

Depending on the memory resources of one's computer, different versions of the fruit fly identification data may have to be used. These data sets differ only in the number of species treated. The full data set provides information on 197 species, the small data set on only 84 species. The small data set contains the most important pest species and a few other ones for diversity. Otherwise, they are the same.

To use the full data set, your computer needs at least 580KB of conventional DOS memory and 1 MB of expanded memory. If your computer has at least 580KB of conventional DOS memory, then the small data set should be used. If a data set fails to load or the program runs erratically, then the amount of memory available should be checked and increased.

Memory can be increased, but how depends on the computer's resources. Memory may be devoted to various other programs and/or devices. If so, by merely changing the configuration and start-up files enough DOS memory may be released to load at least the small data set. Computers with a 386 or better microprocessor probably already have the extra memory needed (especially if WINDOWS is being used) and how the computer uses that memory needs to be changed. The memory is probably set as EXTENDED instead of EXPANDED. For computers with 286 microprocessor or a classic 8088/8086 microprocessor, plug-in cards with expanded memory can be purchased. A handy reference on PC memory is Goodman (1993, *Memory Management for all of us*. Sams Pubs). The Deluxe Edition (\$39.95) includes software, such as diagnostic utilities and memory managers.

FRUIT FLY SYSTEMATIC INFORMATION DATABASE

STATUS OF KNOWLEDGE

Allen L. Norrbom, Lynn E. Carroll & Amnon Freidberg

In this chapter we review the status of the biosystematics of the Tephritidae on a world basis, to summarize what is known, provide quick access to the key literature, indicate other resources, and point out gaps in our knowledge. We do not cite all pertinent literature, only the most important and/or most recent, as well as publications that review particular subjects.

CLASSIFICATION

Systematic Position and Relationships of Tephritidae

Within the order Diptera, the family Tephritidae belongs to the suborder Brachycera, infraorder Muscomorpha (= Cyclorrhapha), section Schizophora, and superfamily Tephritoidea (J.F. McAlpine 1989). In addition to the Tephritidae, the Tephritoidea includes at least the families Lonchaeidae, Pallopteridae, Piophilidae, Platystomatidae, Pyrgotidae, Richardiidae, Tachiniscidae and Ulidiidae (= Otitidae; see Kameneva & Korneyev 1994) (Griffiths 1972, Hennig 1973, J.F. McAlpine 1989). Griffiths (1972) ranked the Eurygnathomyiidae, which was included in the Pallopteridae by the other authors, as a separate family. He also excluded the Lonchaeidae from the Tephritoidea, but later included it as well as the Cryptochetidae and Carnidae (Griffiths 1990). The Ctenostylidae (= Lochmostyliinae) were recently excluded from the Pyrgotidae and the Tephritoidea, although they may be related to the superfamily (D.K. McAlpine 1989, Barraclough 1994).

Although there is some disagreement among the above-named authorities on the relationships of the families within the Tephritoidea, there is consensus that the Ulidiidae, Platystomatidae, Tachiniscidae, Pyrgotidae and Tephritidae are a monophyletic group. Griffiths (1972) included all of these taxa, plus most Pallopteridae, within the Tephritidae, but his ranking proposal has not been followed. The sister group to Tephritidae is thought to be among the Platystomatidae, Pyrgotidae and Tachiniscidae (Griffiths 1972). In all four of these families, the aedeagus of the male is coiled at rest dorsal to the postabdomen in a space between it and tergite 5 (the plesiomorphic condition being coiled ventrally in front of the epandrium and surstyli). Aczél (in Hardy 1957) believed that the Pyrgotidae and Tephritidae arose "from the same ancestors," and J.F. McAlpine (1989) suggested that the Pyrgotidae + Tachiniscidae are the sister group of the Tephritidae, but Korneyev (1992) proposed that the Platystomatidae and Tephritidae are sister taxa.

Current Classification of Tephritidae

No higher classification is used in the catalog or database; the genera and species are listed alphabetically. A synopsis of the higher classification is presented here with nomenclatural details for family-group names, references to higher taxa, and tally of genera and species by biotic region. The first number is the total species in the region, followed by the number of endemic species within parentheses. Abbreviations used for the regions are: AF = Afrotropical; AU = Australasian; HO =

Holarctic; NE = Nearctic; NT = Neotropical; OR = Oriental; PA = Palearctic; and UK = Unknown.

Family Tephritidae

REFS—Richter 1970[4087]: 133 (key to 53 genera [PA: e. Europe]); Hendel 1927[2107]: 1 ((Trypetidae) monograph of 71 genera & 316 spp. [PA]); Kwon 1985[2802]: 54 (monograph of 39 genera & 48 spp. [PA: Korea]); Bezzi 1924[469]: 73 ((Trypaneidae) key to 72 genera [AF]); White & Elson-Harris 1992[5111]: 55, 112 (keys to adults of 15 genera & larvae of 12 genera of economic importance [NE, NT, PA, AF, OR, AU]); White 1988[5103]: 1 (handbook of 33 genera & 73 spp. [PA: Britain]); Shiraki 1968[4435]: 1 (monograph of 34 spp. [OR: Japan: Ryukyu Is.]); Shiraki 1933[4432]: 1 ((Trypetidae) monograph of 75 genera & 165 species [PA: Japan, Korea & Taiwan]); Alayo & Garcés 1989[63]: 79 (key to 16 genera [NT: Cuba]); Phillips 1946[3827]: 24 (key to larvae of 45 spp. [NE, NT, PA, AF, OR, AU]); Kapoor 1993[2600]: 20 (key to 71 genera & 200 species [OR: India]); Ibrahim 1980[2350]: 1 (monograph of 24 genera & 56 spp. [NE: USA: Florida]); Merz 1992[3340]: 215 (monograph of 19 genera & 33 spp. [PA: Canary Is.]); Mihalyi 1960[3370]: 31 ((Trypetidae) keys to 42 genera & 137 species [PA: Hungary]); Malloch 1939[3137]: 409 ((Trypetidae) monograph of 70 spp. [AU]); Hering 1947[2213]: 12 ((Trypetidae) key to subfamilies & tribes [NE, NT, PA, AF, OR, AU]); Malloch 1933[3130]: 263 ((Trypetidae) monograph of 48 spp. [NT: Patagonia & s. Chile]); Bezzi 1913[448]: 88 (monograph of 35 genera (obsolete) [OR: India]); Hering 1941[2202]: 121 ((Trypetidae) monograph of 31 genera & 98 spp. [NT: Peru]); Hardy & Adachi 1956[1970]: 4 (monograph of 10 genera & 17 spp. [AU: Micronesia]); Wulp 1899[5216]: 401 ((Trypetinae) key to 18 genera [NE, NT: Mexico & Central America]); Hardy & Delfinado 1980[1971]: 28 (monograph of 12 genera & 36 spp. [AU: Hawaii]); Hardy 1964[1934]: 148 (key to 9 genera and 11 spp. [OR: Nepal]); Freidberg & Kugler 1989[1571]: 1 (monograph of 42 genera & 85 spp. [PA: Israel & Sinai]); Foote, Blanc & Norrbom 1993[1523]: (monograph of 58 genera & 300 spp. [NE: USA & Canada]); Foote 1980[1514]: 3 (keys to 5 subfamilies & 88 genera [NT]); Efflatoun 1924[1292]: 20 ((Trypaneidae) keys to 17 genera and 30 spp. [PA: Egypt]); Efflatoun 1927[1296]: 51 ((Trypaneidae) tabular key to larvae & pupae of 19 spp. [PA: Egypt]); Diribek 1977[1166]: 227 (key to 38 genera [PA: Czech Rep. & Slovakia]); Hendel 1914[2102]: 73 ((Tephritinae) key to 142 genera [NE, NT, PA, AF, OR, AU]); Curran 1931[1040]: 14 ((Trypaneidae) key to 10 genera [NT: Puerto Rico & Virgin Is.]); Bezzi 1924[470]: 449 ((Trypaneidae) monograph of 180 spp., keys to 6 subfamilies & 52 genera [AF: South Africa]); Aczel 1953[24]: 99 (key to subfamilies & tribes (obsolete) [NE, NT, PA, AF, OR, AU]); Bezzi 1920[463]: 214, 216 ((Trypaneidae) keys to 23 genera (supplements to Bezzi 1918)); Bezzi 1918[455]: 216 ((Trypaneidae) key to 49 genera (obsolete) [AF]); Hardy 1974[1943]: 4 (monograph of 53 genera & 156 spp. [OR: Philippines]); Hardy 1973[1942]: 7 (monograph of 69 genera & 211 spp. [OR: Southeast Asia]); Ito 1983[2415]: 1 (monograph of 95 genera & 176 spp. [PA: Japan]); Foote & Blanc 1963[1521]: 5 (monograph of 32 genera & 105 spp. [NE: USA: California]); Merz 1994[3343]: 1 (handbook of 44 genera & 118 spp. [PA: Switzerland]).

Genera: NE, 60 (17); NT, 68 (32); PA, 126 (43); HO, 18; AF, 151 (93); OR, 155 (60); AU, 144 (81), total 471. Species: NE, 358 (267); NT, 717 (642); PA, 827 (722); HO, 19; AF, 920 (886); OR, 943 (815); AU, 762 (683); total 4,257.

Subfamily **Phytalminiinae**

REFS—Hardy 1988[1964]: 78 ((Gastrozonina) monograph of 17 genera [OR, AU: Indonesia to Solomon Is.]); Hancock 1986[1890]: 286 ((Trypetinae) key to 8 genera [AF]); Permkam & Hancock 1995[3795]: 1047 ((Trypetinae) monograph of 20 genera [AU: Australia]).

Genera: NE, 1; NT, 2 (1); PA, 4 (2); AF, 8 (8); OR, 32 (22); AU, 68 (59), total 103. Species: NE, 3 (1); NT, 22 (20); PA, 11 (7); AF, 36 (36); OR, 131 (117); AU, 182 (172); total 369.

Tribe **Acanthonevrini**

Acanthoneurinae Hering 1941[2194]: 57 (*nomen nudum*).

Acanthoneurinae Hering 1941[2196]: 16.

Ptilonini Kapoor 1970[2593]: 235.

REFS—Hardy 1974[1943]: 64 (key to 10 genera [OR: Philippines]); Hardy 1973[1942]: 78 (key to 10 genera [OR: Southeast Asia]); Hardy 1980[1949]: 124 (key to 5 genera of *Sophira* group [OR, AU]); Hardy 1986[1962]: 5 ((Acanthonevrina) monograph of 42 genera & 110 spp. [OR, AU: Indonesia to Solomon Is.]); Permkam & Hancock 1995[3795]: 1052 (monograph of 18 genera [AU: Australia]); Hancock 1986[1890]: 287 (key to 6 genera [AF]); Hardy 1988[1964]: 77 ((Gastrozonina) monograph of 8 genera [OR, AU: Indonesia to Solomon Is.]); Munro 1967[3521]: 571 (revision of 4 genera [AF]); Kapoor 1993[2600]: 32 (key to 8 genera [OR: India]).

Genera: PA, 2 (1); AF, 6 (6); OR, 24 (16); AU, 53 (45), total 76. Species: PA, 9 (6); AF, 27 (27); OR, 120 (108); AU, 138 (129); total, 282.

Acanthonevra: PA, 8 (5); OR, 33 (29); AU, 2 (1); total, 39.

Acanthonevroides: AU, 5 (5); total, 5.

Aethiothemara: AF, 6 (6); total, 6.

Afrocneros: AF, 3 (3); total, 3.

Alincocallistomyia: OR, 1 (1); total, 1.

Alloeomyia: AU, 1 (1); total, 1.

Anchiacanthonevra: AU, 1 (1); total, 1.

Aridonevra: AU, 1 (1); total, 1.

Austronevra: AU, 2 (2); total, 2.

Austrorioxax: AU, 1 (1); total, 1.

Buloloa: AU, 1 (1); total, 1.

Cheesmanomyia: AU, 1 (1); total, 1.

Clusiosoma: AU, 16 (16); total, 16.

Clusiosoma: AU, 15 (15); total, 15.

Paraclusiosoma: AU, 1 (1); total, 1.

Clusiosomina: AU, 1 (1); total, 1.

Copiolepis: AU, 2 (2); total, 2.

Cribrorioxax: OR, 1 (1); total, 1.

Dacopsis: OR, 5 (3); AU, 5 (3); total, 8.

Diarrhegma: OR, 2 (2); total, 2.

Dirioxax: AU, 1 (1); total, 1.

Ectopomyia: OR, 1 (1); total, 1.

Emheringia: AU, 1 (1); total, 1.

Enicopterina: AU, 1 (1); total, 1.

Enoplopteron: AU, 3 (3); total, 3.

Exallosophira: AU, 1 (1); total, 1.

Felderimyia: OR, 3 (3); total, 3.

Freyomyia: OR, 1 (1); total, 1.

Gressittidium: AU, 1 (1); total, 1.

Griphomyia: AU, 5 (5); total, 5.

Hemclusiosoma: AU, 1 (1); total, 1.

Hexacinia: OR, 4 (3); AU, 2 (1); total, 5.

Hexamela: OR, 1 (1); total, 1.

Hexaresta: OR, 1; AU, 2 (1); total, 2.

Labeschatia: AF, 1 (1); total, 1.

Langatia: OR, 1 (1); total, 1.

Loriomyia: AU, 1 (1); total, 1.

Lumirioxax: AU, 1 (1); total, 1.

Lyronotum: AU, 1 (1); total, 1.

Micronevrina: AU, 7 (7); total, 7.

Mimoeuphranta: AU, 1 (1); total, 1.

Mimosophira: OR, 1 (1); total, 1.

Neothemara: AU, 2 (2); total, 2.

Nothoclusiosoma: AU, 1 (1); total, 1.

Ocnertoxax: AF, 13 (13); total, 13.

Orientalcaelum: PA, 1 (1); total, 1.

Paedohexacinia: AU, 2 (2); total, 2.

Parachlaena: AU, 1 (1); total, 1.

Phorelliosoma: OR, 3 (3); total, 3.

Platystomopsis: OR, 1 (1); total, 1.

Polyara: AU, 3 (3); total, 3.

Polyaroidea: AU, 3 (3); total, 3.

Pseudacanthoneura: AU, 2 (2); total, 2.

Pseudacrotoxa: AU, 1 (1); total, 1.

Pseudoneothemara: AU, 2 (2); total, 2.

Ptilona: OR, 6 (5); AU, 1; total, 6.

Ptiloniola: AF, 3 (3); total, 3.

Quasirhabdochaeta: AU, 1 (1); total, 1.

Rabaulia: AU, 3 (3); total, 3.

Rabauliomorpha: AU, 1 (1); total, 1.

Rioxax: OR, 8 (6); AU, 2; total, 8.

Saucromyia: OR, 1 (1); total, 1.

Sophira: OR, 28 (28); total, 28.

Kambangania: OR, 6 (6); total, 6.

Parasophira: OR, 2 (2); total, 2.

Soosina: OR, 2 (2); total, 2.

Sophira: OR, 18 (18); total, 18.

Sophiroides: OR, 1 (1); total, 1.

Sophiropsis: AU, 2 (2); total, 2.

Staurellina: OR, 1 (1); total, 1.

Stigmatomyia: AU, 1 (1); total, 1.

Stymbara: AU, 1 (1); total, 1.

Taeniorioxax: AU, 1 (1); total, 1.

Termitorioxax: OR, 1 (1); AU, 9 (9); total, 10.

Themara: OR, 10 (9); AU, 1; total, 10.

Themarictera: AF, 1 (1); total, 1.

Themarohystrix: AU, 9 (9); total, 9.

Themaroides: AU, 5 (5); total, 5.

Themaroidopsis: AU, 4 (4); total, 4.

Tritaeniopteron: OR, 5 (5); total, 5.

Trypanocentra: AU, 11 (11); total, 11.

Clusiomorpha: AU, 5 (5); total, 5.

Trypanocentra: AU, 6 (6); total, 6.

Walkeraitia: AU, 1 (1); total, 1.

Tribe **Blepharoneurini**

Blepharoneuridae Wolcott 1936[5171]: 380 (*nomen nudum*).

Blepharoneurinae Korneyev 1994[2744]: 8.

Genera: NE, 1; NT, 2 (1); PA, 1; AF, 1 (1); OR, 1; total, 4.

Species: NE, 3 (1); NT, 22 (20); PA, 1; AF, 7 (7); OR, 2 (1); total, 32.

Baryglossa: AF, 7 (7); total, 7.

Blepharoneura: NE, 3 (1); NT, 21 (19); total, 22.

Ceratodacus: NT, 1 (1); total, 1.

Hexaptilona: PA, 1; OR, 2 (1); total, 2.

Tribe **Epacrocerini**

Epacrocerinae Korneyev 1994[2744]: 10.

REFS—Hardy 1982[1954]: 78 ((Acanthonevrini) revision of 3 genera [AU]); Hardy 1988[1964]: 79 ((Gastrozonina) key to 4 genera [AU]).

Genera: AU, 4 (4); total, 4. Species: AU, 7 (7); total, 7.

Epacrocerus: AU, 4 (4); total, 4.

Proepacrocerus: AU, 1 (1); total, 1.

Tanymetopus: AU, 1 (1); total, 1.

Udamolobium: AU, 1 (1); total, 1.

Tribe **Phascini**

Phascinae Korneyev 1994[2744]: 10.

REFS—Hardy 1988[1964]: 77 ((Gastrozonina) monograph of 2 genera [OR, AU: Indonesia to Solomon Is.]); Hardy 1986[1962]: 1 ((Acanthonevrina) monograph of 4 genera [AU: New Guinea to Solomon Is.]).

Genera: OR, 1 (1); AU, 5 (5); total, 6. Species: OR, 1 (1); AU, 13 (13); total, 14.

Diarrhegmoides: AU, 1 (1); total, 1.

Homoiothemara: OR, 1 (1); total, 1.

Othniocera: AU, 3 (3); total, 3.

Paraphasca: AU, 1 (1); total, 1.

Phasca: AU, 6 (6); total, 6.

Xenosophira: AU, 2 (2); total, 2.

Tribe **Phytalmiini**

Phytalmydi Bigot 1886[503]: 290.

Terastiomyiinae Enderlein 1936[1334]: 225.

REFS—Hering 1953[2220]: 511 ((Adramini) key to 6 genera [OR, AU]); McAlpine & Schneider 1978[3249]: 162 (key to 4 genera [AU]); Hering 1941[2196]: 3 ((Phytalmiini & Adramini) key to 7 genera [PA, OR, AU]); Permkam & Hancock 1995[3795]: 1177 (monograph of 2 genera [AU: Australia]); Hardy 1988[1964]: 77 ((Gastrozonina) monograph of 3 genera [OR, AU: Indonesia to Solomon Is.]); Hardy 1986[1961]: 56 ((Adramini) key to 6 genera [PA, AF, OR, AU]).

Genera: PA, 1 (1); AF, 1 (1); OR, 6 (5); AU, 6 (5); total, 13.

Species: PA, 1 (1); AF, 2 (2); OR, 8 (7); AU, 24 (23); total, 34.

Adramoides: OR, 1 (1); total, 1.

Antisophira: OR, 1 (1); total, 1.

Cleitamiphanes: OR, 1 (1); total, 1.

Colobostroter: OR, 1 (1); total, 1.

Diplochorda: AU, 10 (10); total, 10.

Matsumurania: PA, 1 (1); total, 1.

Ortaloptera: AU, 2 (2); total, 2.

Phytalmia: AU, 7 (7); total, 7.

Pseudosophira: OR, 1 (1); total, 1.

Robertsomyia: AU, 1 (1); total, 1.

Sessilina: AU, 3 (3); total, 3.

Sosiopsila: AF, 2 (2); total, 2.

Terastiomyia: OR, 3 (2); AU, 1; total, 3.

Subfamily **Trypetinae**

REFS—Kwon 1985[2802]: 57 (key to 22 genera [PA: Korea]); Kandybina 1966[2571]: 387 (key to larvae of 7 genera & 11 spp. [PA: e. Russia]); Kandybina 1977[2576]: 65, 92 ((Dacinae & Trypetinae) keys to larvae of 12 genera & 41 spp. [NE, PA, AF, OR, AU]); Aczel 1954[25]: 71 ((Trypetini) keys to 7 genera (supplements to Aczel

1952) [NT]); Foote 1980[1514]: 7 (key to 19 genera [NT]); Hancock 1991[1895]: 123 (key to 9 genera (supplement to Hancock 1986) [AF]); Hancock 1986[1890]: 281, 288 (keys to 7 tribes & 27 genera [AF]); Hardy 1974[1943]: 63 (keys to 19 genera [OR: Philippines]); Ito 1983[2415]: 33, 164 (key to 65 genera [PA: Japan]); Aczel 1954[26]: 152, 158 ((Trypetini) keys (supplements to Aczel 1954) [NT]); Chen 1948[814]: 80 (key to 52 genera [PA, OR: China]); Aczel 1952[20]: 254 ((Trypetini) key to 10 genera [NT]); Freidberg & Kugler 1989[1571]: 171 (key to 10 genera [PA: Israel & Sinai]); Permkam & Hancock 1995[3795]: 1047 (monograph of 15 genera [AU: Australia]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 14 genera [NE: USA & Canada]); Kapoor 1993[2600]: 21 (key to 22 genera [OR: India]); Hardy 1987[1963]: 147 (monograph of 17 genera [OR, AU: Indonesia to Solomon Is.]); Hardy 1973[1942]: 76 (key to 34 genera [OR: Southeast Asia]); Hendel 1927[2107]: 18 ((Trypetini) key to 22 genera [PA]); Merz 1994[3343]: 93 (key to 15 genera [PA: cent. Europe]); Shiraki 1933[4432]: 120 (key to 33 genera [PA, OR: Japan, Korea & Taiwan]); Norrbom, Ming & Hernandez-Ortiz 1988[3669]: 102 (key (modification of Foote 1980) [NT]).

Genera: NE, 16 (3); NT, 18 (7); PA, 59 (20); HO, 6; AF, 40 (27); OR, 81 (32); AU, 39 (11), total 161. Species: NE, 95 (65); NT, 272 (244); PA, 274 (219); HO, 4; AF, 422 (410); OR, 646 (569); AU, 420 (383); total 2,007.

Tribe **Adramini**

Adramina Hendel 1914[2102]: 73.

Euphrantini Hering 1941[2194]: 56 (*nomen nudum*).

Euphrantini Hering 1947[2213]: 2.

REFS—Hardy 1974[1943]: 99, 110 ((Adramini & Euphrantini) keys to 12 genera [OR: Philippines]); Hering 1941[2196]: 4 (key to 7 genera [PA, AF, OR, AU]); Hardy 1973[1942]: 76 ((Adramini & Euphrantini) key to 8 genera [OR: Southeast Asia]); Hardy 1986[1961]: 56 (key to 12 genera [PA, AF, OR, AU]); Permkam & Hancock 1995[3795]: 1134, 11 ((Adramini & Euphrantini) monograph of 7 genera [AU: Australia]); Hancock 1986[1890]: 286 ((Adramini & Euphrantini) key to 8 genera [AF]); Kapoor 1993[2600]: 21, 31 ((Adramini & Euphrantini) keys to 7 genera [OR: India]); Hardy 1983[1958]: 152 ((Euphrantini) monograph of 5 genera [OR, AU: Indonesia to Solomon Is.]); Shiraki 1933[4432]: 35 ((Dacinae) key to 4 genera [PA, OR: Japan & Taiwan]).

Genera: NE, 1; PA, 2; HO, 1; AF, 8 (6); OR, 16 (6); AU, 12 (4); total, 26. Species: NE, 2 (2); PA, 15 (13); AF, 32 (32); OR, 88 (78); AU, 54 (46); total, 181.

Acinoeuphranta: OR, 1 (1); total, 1.

Adrama: OR, 6 (5); AU, 6 (5); total, 11.

Brandtomyia: AU, 1 (1); total, 1.

Celidodacus: AF, 4 (4); total, 4.

Coelopacidia: AF, 9 (9); total, 9.

Coelotrypes: AF, 12 (12); OR, 2 (1); AU, 3 (2); total, 16.

Conradtina: AF, 3 (3); total, 3.

Critisiosophira: AU, 1 (1); total, 1.

Cyclopsia: OR, 1 (1); AU, 1 (1); total, 2.

Dimeringophrys: OR, 2 (2); total, 2.

Euphranta: NE, 2 (2); PA, 14 (13); OR, 52 (49); AU, 32 (30); total, 97.

Euphranta: PA, 3 (3); OR, 16 (16); AU, 13 (13); total, 32.

Rhacochlaena: NE, 2 (2); PA, 11 (10); OR, 36 (33); AU, 18 (16); total, 64.

Xanthotrypeta: AU, 1 (1); total, 1.

Hardyadrama: OR, 3; AU, 4 (1); total, 4.

Ichneumonosoma: OR, 2 (2); AU, 1 (1); total, 3.

Indophranta: OR, 1 (1); total, 1.

Meracanthomyia: AF, 1 (1); OR, 8 (8); total, 9.
Munromyia: AF, 1 (1); total, 1.
Nitobeia: AU, 1 (1); total, 1.
Paraeuphranta: AU, 1 (1); total, 1.
Pelmatops: OR, 2 (2); total, 2.
Phantasmilla: OR, 1 (1); total, 1.
Piestometopon: OR, 1; AU, 2 (1); total, 2.
Pseudopelmatops: PA, 1; OR, 3 (2); total, 3.
Scolocolus: OR, 1 (1); total, 1.
Soita: OR, 2 (2); AU, 1 (1); total, 3.
Trypanophion: AF, 1 (1); total, 1.
Xaniosternum: AF, 1 (1); total, 1.

Tribe **Carpomyini**

REFS—Hancock 1991[1895]: 123 ((Trypetini) key to 3 genera [AF]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 5 genera [NE]).

Genera: NE, 6 (2); NT, 6 (2); PA, 4 (1); HO, 1; AF, 3 (1); OR, 2; total 12. Species: NE, 42 (38); NT, 38 (37); PA, 28 (21); HO, 3; AF, 10 (8); OR, 4(2); total 115.

Subtribe **Carpomyina**

Carpomyina Norrbom 1989[3653]: 62.

REFS—Hancock 1991[1895]: 123 ((Trypetini) key to 2 genera [AF]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 3 genera [NE: USA & Canada]); Kapoor 1993[2600]: 47 ((Trypetini) key to 2 genera [OR: India]); Norrbom 1994[3663]: 38 (key to 4 genera [NE, NT]); Hendel 1927[2107]: 18 ((Trypetini) key to 2 genera [PA]); Merz 1994[3343]: 93 ((Trypetini) key to 2 genera [PA: cent. Europe]); White 1988[5103]: 35 ((Trypetini) key to 2 genera [PA: Britain]); Kandybina 1977[2576]: 92 ((Trypetini) key to larvae of 2 genera [NE, PA]); Jenkins 1996[2476]: 39 (phylogeny [NE, NT, PA, OR]).

Genera: NE, 4; NT, 6 (2); PA, 2; HO, 1; AF, 2(1); OR, 2; total, 8. Species: NE, 33 (29); NT, 38 (37); PA, 26 (20); HO, 3; AF, 2 (1); OR, 4 (2); total, 97.

Carpomya: PA, 5 (2); AF, 1; OR, 2; total, 5.
Cryptodacus: NE, 1; NT, 8 (7); total, 8.
Haywardina: NT, 4 (4); total, 4.
Rhagoletis: NE, 24 (21); NT, 17 (17); PA, 21 (18); HO, 3; OR, 2 (2); total, 62.
Rhagoletotrypeta: NE, 3 (3); NT, 6 (6); total, 9.
Sclerophithus: AF, 1 (1); total, 1.
Stoneola: NT, 1 (1); total, 1.
Zonosemata: NE, 5 (5); NT, 2 (2); total, 7.

Subtribe **Notommatina**

Notommatina Korneyev 1996[2747]: 33.

Genera: PA, 2 (1); AF, 1; total, 2. Species: PA, 2 (1); AF, 8 (7); total, 9.

Malica: PA, 1 (1); total, 1.
Notomma: PA, 1; AF, 8 (7); total, 8.

Subtribe **Paraterelliina**

Paraterelliina Korneyev 1996[2747]: 34.

REF.—Foote, Blanc & Norrbom 1993[1523]: 47 ((Trypetinae) key to 2 genera [NE]).

Genera: NE, 2 (2); total, 2. Species: NE 9 (9); total, 9.

Oedicarena: NE, 5 (5); total, 5.
Paraterellia: NE, 4 (4); total, 4.

Tribe **Dacini**

Genera: NT, 2; PA, 10; AF, 16 (11); OR, 28 (18); AU, 7 (1); total, 42. Species: NT, 2; PA, 37 (11); AF, 348 (338); OR, 384 (346); AU, 312 (293); total, 1,033.

Subtribe **Ceratitidina**

Ceratitinae Bezzi 1910[445]: 5.

REFS—Hancock 1987[1892]: 47 ((Ceratitini) key to 11 genera [AF]); Hendel 1927[2107]: 18 ((Trypetini) key to 3 genera [PA]); Hancock & Drew 1994[1242]: 870 ((Ceratitinae) key to 7 genera of *Anoplomus* group [OR]); Permkam & Hancock 1995[3794]: 1326 ((Ceratitinae) key to 3 genera [AU: Australia]).

Genera: NT, 1; PA, 5; AF, 13 (10); OR, 7 (4); AU, 3 (1); total, 20. Species: NT, 1; PA, 10 (5); AF, 160 (158); OR, 25 (21); AU, 10 (8); total, 198.

Acropteromma: AF, 1 (1); total, 1.
Anoplomus: OR, 3 (3); total, 3.
Capparimya: PA, 1; AF, 2 (2); OR, 1; total, 3.
Carpophthoromyia: AF, 13 (13); total, 13.
Ceratitella: PA, 2 (1); OR, 3 (1); AU, 5 (4); total, 8.
Ceratitidis: NT, 1; PA, 1; AF, 70 (69); AU, 1; total, 70.
Ceratalaspis: AF, 33 (33); total, 33.
Ceratitidis: NT, 1; PA, 1; AF, 9 (8); AU, 1; total, 9.
Hoplolophomyia: AF, 1 (1); total, 1.
Pardalaspis: AF, 10 (10); total, 10.
Pterandrus: AF, 17 (17); total, 17.
Ceratitoides: AF, 1 (1); total, 1.
Clinotaenia: AF, 5 (5); total, 5.
Eumictoxenus: AF, 1 (1); total, 1.
Leucotaeniella: AF, 3 (3); total, 3.
Neoceratitidis: PA, 2 (1); AF, 5 (4); total, 6.
Nippia: AF, 2 (2); total, 2.
Paraceratitella: AU, 4 (4); total, 4.
Paratrirhithrum: OR, 1 (1); total, 1.
Pardalaspinus: OR, 7 (7); total, 7.
Perilampsis: AF, 15 (15); total, 15.
Proanoplomus: PA, 4 (3); OR, 9 (8); total, 12.
Sinanoplomus: OR, 1 (1); total, 1.
Trirhithrum: AF, 41 (41); total, 41.
Xanthorrhachista: AF, 1 (1); total, 1.

Subtribe **Dacina**

Dacina Loew 1861[3031]: 253.
 Afrodacini Munro 1984[3524]: 13.
 Athlodacini Munro 1984[3524]: 13.
 Callantrinae Munro 1984[3524]: 13.
 Daculini Munro 1984[3524]: 13.
 Didacini Munro 1984[3524]: 14.
 Gymnodacini Munro 1984[3524]: 13.
 Metidacini Munro 1984[3524]: 14.
 Monacrostichini Munro 1984[3524]: 159.
 Pionodacini Munro 1984[3524]: 14.
 Psilodacini Munro 1984[3524]: 13.
 Strumetini Munro 1984[3524]: 14.

REFS—Hardy 1982[1952]: 174 ((Dacini) key to genera & subgenera, monograph of 55 spp. [OR: Sulawesi]); Hardy 1955[1927]: 427 ((Dacini) key to genera & subgenera [AF, OR, AU]); Drew 1989[1232]: 1 ((Dacinae) key to 2 genera & 26 subgenera, revision of 290 spp. [AU]); Hardy & Adachi 1954[1969]: 148 ((Dacini) key to genera & subgenera [OR: Philippines & Indonesia]); Munro 1984[3524]: 13 ((Dacidae) key to subfamilies, tribes & genera (not

accepted) [AF, OR, AU]; Kapoor 1993[2600]: 21 ((Dacinae) key to 2 genera & 13 subgenera [OR: India]).

Genera: NT, 1; PA, 2; AF, 2; OR, 3 (1); AU, 2; total, 3. Species: NT, 1; PA, 20 (3); AF, 183 (175); OR, 255 (227); AU, 300 (285); total, 723.

Bactrocera: NT, 1; PA, 10 (2); AF, 11 (8); OR, 215 (194); AU, 273 (260); total, 486.

Afrodacus: AF, 4 (4); AU, 6 (6); total, 10.

Asiadacus: OR, 6 (6); AU, 1 (1); total, 7.

Austrodacus: AU, 1 (1); total, 1.

Bactrocera: NT, 1; PA, 2 (1); AF, 3 (2); OR, 103 (94); AU, 185 (178); total, 285.

Bulladacus: OR, 3 (3); AU, 6 (6); total, 9.

Daculus: PA, 1; AF, 1; OR, 1; total, 1.

Diplodacus: AU, 1 (1); total, 1.

Gymnodacus: AF, 2 (2); OR, 3 (2); AU, 3 (2); total, 7.

Heminotodacus: AU, 1 (1); total, 1.

Hemiparatriadacus: AU, 1 (1); total, 1.

Hemisurstylus: AU, 1 (1); total, 1.

Hemizeugodacus: AU, 3 (3); total, 3.

Heterodaculus: AU, 4 (4); total, 4.

Javadacus: OR, 5 (5); AU, 3 (3); total, 8.

Melanodacus: AU, 2 (2); total, 2.

Nesodacus: OR, 2 (2); total, 2.

Niuginidacus: AU, 1 (1); total, 1.

Notodacus: AU, 2 (2); total, 2.

Papuodacus: AU, 1 (1); total, 1.

Paradacus: PA, 1; OR, 6 (5); AU, 5 (5); total, 11.

Paratriadacus: OR, 3 (3); AU, 6 (6); total, 9.

Parazeugodacus: AU, 1 (1); total, 1.

Queenslandacus: AU, 1 (1); total, 1.

Semicallantra: AU, 3 (3); total, 3.

Sinodacus: OR, 12 (12); AU, 13 (13); total, 25.

Tetradacus: PA, 2; OR, 4 (2); AU, 3 (3); total, 7.

Trypetidacus: OR, 1 (1); total, 1.

Zeugodacus: PA, 4 (1); AF, 1; OR, 64 (57); AU, 19 (14); total, 79.

Unplaced species: OR, 2 (2); total, 2.

Dacus: PA, 10 (1); AF, 172 (167); OR, 38 (31); AU, 27 (25); total, 235.

Callantra: PA, 3; OR, 33 (28); AU, 13 (11); total, 44.

Dacus: AF, 51 (51); AU, 9 (9); total, 60.

Didacus: PA, 2; AF, 65 (63); OR, 4 (3); AU, 5 (5); total, 73.

Leptoxyda: PA, 4; AF, 42 (39); OR, 1; total, 43.

Metidacus: AF, 13 (13); total, 13.

Unplaced species: PA, 1 (1); AF, 1 (1); total, 2.

Monacrostichus: OR, 2 (2); total, 2.

Subtribe **Gastrozonina**

Gastrozonini Hering 1944[2210]: 3 (*nomen nudum*)

Gastrozonini Hering 1947[2213]: 16.

Ichneumonopsidini Hancock 1986[1890]: 278.

REFS—Hardy 1974[1943]: 154 ((Gastrozonini) key to 7 genera [OR: Philippines]); Hardy 1988[1964]: 78 (monograph of 10 genera [OR, AU: Indonesia to Solomon Is.]); Hardy 1973[1942]: 76 ((Gastrozonini) key to 13 genera [OR: Southeast Asia]); Hancock 1985[1889]: 57 ((Gastrozonini) key to 3 genera [AF]); Kapoor 1993[2600]: 37 ((Gastrozonini) key to 10 genera [OR: India]); Ito 1983[2415]: 34 ((Gastrozonini) key to 2 genera [PA: Japan]).

Genera: PA, 3; AF, 1 (1); OR, 18 (13); AU, 2; total, 19. Species: PA, 7 (3); AF, 5 (5); OR, 104 (98); AU, 2; total, 112.

Acroceratitidis: OR, 21 (21); total, 21.

Acrotaeniostola: PA, 2 (1); OR, 13 (12); total, 14.

Bistrispinaria: AF, 5 (5); total, 5.

Carpophthorella: OR, 6 (5); AU, 1; total, 6.

Chaetellipsis: OR, 5 (5); total, 5.

Chelyophora: OR, 1 (1); total, 1.

Dietheria: OR, 1 (1); total, 1.

Enicoptera: OR, 12 (12); total, 12.

Galbifascia: OR, 2 (2); total, 2.

Gastrozona: PA, 4 (1); OR, 13 (10); total, 14.

Ichneumonopsis: OR, 1 (1); total, 1.

Paragastrozona: PA, 1 (1); OR, 2 (2); total, 3.

Paraxarnuta: OR, 2 (2); total, 2.

Phaeospila: OR, 1 (1); total, 1.

Phaeospilodes: OR, 7 (7); total, 7.

Rhaibophleps: OR, 1 (1); total, 1.

Spilocosmia: OR, 4 (4); total, 4.

Taeniostola: OR, 9 (8); AU, 1; total, 9.

Xanthorrachis: OR, 3 (3); total, 3.

Tribe **Ortalotrypetini**

Ortalotrypetini Ito 1983[2415]: 33.

REF.—Norrbon 1994[3662]: 2 (key to 4 genera [NT, PA, OR]).

Genera: NT, 3 (3); PA, 2; OR, 2; total, 5. Species: NT, 3 (3); PA, 9 (9); OR, 3 (3); total, 15.

Cyaforma: PA, 1 (1); OR, 2 (2); total, 3.

Ischyropteron: NT, 1 (1); total, 1.

Neortalotrypeta: NT, 1 (1); total, 1.

Ortalotrypeta: PA, 8 (8); OR, 1 (1); total, 9.

Protortalotrypeta: NT, 1 (1); total, 1.

Tribe **Rivelliomimini**

Rivelliomimini Hancock 1986[1890]: 282.

REF.—Hancock 1986[1890]: 286 (key to 2 genera [AF]).

Genera: AF, 2 (2); OR, 1; AU, 1; total, 3. Species: AF, 2 (2); OR, 2 (1); AU, 3 (2); total, 6.

Ornithoschema: OR, 2 (1); AU, 3 (2); total, 4.

Rivelliomima: AF, 1 (1); total, 1.

Xanthanomoea: AF, 1 (1); total, 1.

Tribe **Toxotrypanini**

Toxotrypanini Munro 1984[3524]: 159 (*nomen nudum*).

Toxotrypaninae Hancock 1986[1890]: 277.

Anastrephini Hancock 1986[1890]: 277.

Hexachaetini Korneyev 1994[2744]: 15.

REF.—Foote, Blanc & Norrbom 1993[1523]: 47 (key to 3 genera [NE: USA]).

Genera: NE, 3; NT, 3; total, 3. Species: NE, 24; NT, 216 (192); total, 216.

Anastrepha: NE, 20; NT, 183 (163); total, 183.

Hexachaeta: NE, 3; NT, 26 (23); total, 26.

Toxotrypana: NE, 1; NT, 7 (6); total, 7.

Tribe **Trypetini**

REFS—Hardy 1974[1943]: 177 (key to 6 genera [OR: Philippines]); Ito 1983[2415]: 34, 164 (key to 21 genera [PA: Japan]); Kandybina 1977[2576]: 92 ((Trypetini & Euribiini) key to larvae of 3 genera [PA]); Hardy 1987[1963]: 249 (monograph of 10 genera [OR, AU: Indonesia to Solomon Is.]); Permkam & Hancock 1995[3795]: 1186 (monograph of 5 genera [AU: Australia]); Hancock 1991[1895]: 123 (key to 3 genera [AF]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 5 genera [NE: USA & Canada]); Kapoor

1993[2600]: 47 (key to 10 genera [OR: India]); Han 1992[1869]: 40 (key to 33 genera [NE, NT, PA, AF, OR, AU]); Hardy 1973[1942]: 80 (key to 5 genera [OR: Southeast Asia]); Hendl 1927[2107]: 18 (key to 12 genera [PA]); Merz 1994[3343]: 93 (key to 10 genera [PA: cent. Europe]); White 1988[5103]: 35 (key to 8 genera [PA: Britain]); Kandybina 1977[2576]: 92 (key to 6 genera [NE, PA]).

Genera: NE, 6 (1); NT, 2; PA, 33 (14); HO, 4; AF, 5 (1); OR, 23 (3); AU, 13 (3); total, 44. Species: NE, 27 (25); NT, 10 (9); PA, 172 (154); HO, 1; AF, 19 (19); OR, 144 (122); AU, 39 (32); total, 385.

Subtribe **Acidoxanthina**

Acidoxanthina Korneyev 1996[2747]: 42.

REFS—Hardy 1987[1963]: 247 ((Trypetini) monograph of 2 genera [OR, AU: Indonesia to Solomon Is.]); Hancock 1987[1766]: 47 ((Ceratitini) key to 2 genera [AF]).

Genera: AF, 2 (1); OR, 1; AU, 2 (1); total, 3. Species: AF, 2 (2); OR, 10 (10); AU, 3 (3); total, 15.

Acidoxantha: AF, 1 (1); OR, 10 (10); AU, 1 (1); total, 12.

Acidoxanthopsis: AF, 1 (1); total, 1.

Craspedoxanthitea: AU, 2 (2); total, 2.

Chetostoma genus group

Genera: NE, 3; NT, 2; PA, 5 (1); HO, 2; OR, 3; AU, 2; total, 6. Species: NE, 5 (4); NT, 10 (9); PA, 24 (20); OR, 30 (25); AU, 6 (5); total, 69.

Anomoia: PA, 10 (6); OR, 24 (19); AU, 4 (3); total, 33.

Chetostoma: NE, 2 (1); NT, 1; PA, 8 (8); OR, 4 (4); total, 14.

Montiludia: PA, 2 (2); total, 2.

Myoleja: PA, 2 (2); OR, 2 (2); AU, 2 (2); total, 6.

Paramyiolia: NE, 2 (2); PA, 2 (2); total, 4.

Parastenopa: NE, 1 (1); NT, 9 (9); total, 10.

Subtribe **Nitrariomyiina**

Nitrariomyiina Korneyev 1996[2747]: 43.

Genera: PA, 2 (2); total, 2. Species: PA, 2 (2); total, 2.

Kerzhnerella: PA, 1 (1); total, 1.

Nitrariomyia: PA, 1 (1); total, 1.

Subtribe **Trypetina**

Trypetidae Loew 1861[3031]: 253

Acidiini Collin 1947[900]: 1.

REFS—Korneyev 1991[2737]: 10 ((Trypetini) key to 3 genera [PA, OR]); Hering 1938[2181]: 30 ((Trypetinae) key to 3 genera & 21 spp. [OR: India & Burma]); Ito 1983[2415]: 34, 164 ((Trypetini) keys to 16 genera [PA: Japan]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 3 genera [NE]); Han 1992[1523]: 40 (key to 27 genera [NE, PA, AF, OR, AU]); Hancock 1991[1895]: 123 ((Trypetini) key to 2 genera [AF]); Hardy 1987[1963]: 249 ((Trypetini) key to 7 genera [OR, AU: Indonesia to Solomon Is.]); Hendl 1927[2107]: 18 ((Trypetini) key to 10 genera [PA]); Kapoor 1993[2600]: 47 ((Trypetini) key to 8 genera [OR: India]); Merz 1994[3343]: 93 ((Trypetini) key to 7 genera [PA: cent. Europe]); White 1988[5103]: 35 ((Trypetini) key to 5 genera [PA: Britain]).

Genera: NE, 3 (1); PA, 26 (11); HO, 2; AF, 3; OR, 19 (3); AU, 9 (2); total, 33. Species: NE, 22 (21); PA, 146 (132); HO, 1; AF, 17 (17); OR, 104 (87); AU, 30 (24); total, 299.

Acidia: PA, 2 (2); total, 2.

Acidiella: PA, 16 (16); OR, 19 (19); AU, 1 (1); total, 36.

Acidiostigma: PA, 6 (5); OR, 8 (7); total, 13.

Aciuroopsis: OR, 1; AU, 1; total, 1.

Aischrocrania: PA, 5 (4); OR, 3 (2); total, 7.

Alsangelisca: PA, 1 (1); total, 1.

Anastrephoides: PA, 3 (3); total, 3.

Angelogelasinus: PA, 5 (5); total, 5.

Apiculonia: PA, 1 (1); total, 1.

Calosphensca: OR, 2 (2); total, 2.

Cervarita: OR, 1 (1); total, 1.

Chenacidiella: PA, 2 (1); OR, 2 (1); total, 3.

Cornutrypeta: PA, 8 (7); OR, 3 (2); total, 10.

Cristobalia: AU, 1 (1); total, 1.

Euleia: NE, 3 (3); PA, 7 (7); OR, 1 (1); total, 11.

Flaviludia: PA, 3 (3); total, 3.

Fusciludia: PA, 1 (1); OR, 2 (2); AU, 3 (3); total, 6.

Hemilea: PA, 16 (15); AF, 1 (1); OR, 10 (8); AU, 5 (4); total, 30.

Hemiristina: AU, 1 (1); total, 1.

Hoplendromyia: PA, 1 (1); AF, 5 (5); OR, 1 (1); total, 7.

Itosigo: PA, 2 (2); total, 2.

Machaomyia: OR, 1 (1); total, 1.

Magnimyiolia: PA, 8 (8); OR, 1 (1); AU, 1 (1); total, 10.

Morinowotome: PA, 2 (2); OR, 1 (1); total, 3.

Nemurinus: PA, 1 (1); total, 1.

Oreurus: PA, 1 (1); total, 1.

Paratrypeta: PA, 2 (2); total, 2.

Philophylla: PA, 15 (10); AF, 11 (11); OR, 26 (19); AU, 14 (10); total, 57.

Platyparea: PA, 2 (2); total, 2.

Stemonocera: PA, 9 (9); OR, 2 (2); total, 11.

Strauzia: NE, 12 (12); total, 12.

Trypeta: NE, 7 (6); PA, 21 (19); HO, 1; OR, 10 (9); total, 36.

Vidalia: PA, 6 (4); OR, 10 (8); AU, 3 (3); total, 17.

Tribe **Zaceratini**

Zaceratini Hancock 1986[1890]: 282.

Plioreoceptini Korneyev 1987[2726]: 39.

Genera: PA, 1 (1); AF, 1 (1); total, 2. Species: PA, 1 (1); AF, 1 (1); total, 2.

Plioreocepta: PA, 1 (1); total, 1.

Zacerata: AF, 1 (1); total, 1.

Incertae Sedis **Trypetinae**

Xarnutinae Korneyev 1994[2744]: 13.

Genera: NT, 2 (2); PA, 7 (4); AF, 5 (5); OR, 9 (5); AU, 6 (4); total, 24. Species: NT, 3 (3); PA, 12 (10); AF, 10 (10); OR, 21 (17); AU, 12 (10); total, 54.

Breviculala: PA, 1; OR, 1; total, 1.

Callistomyia: OR, 3 (3); AU, 2 (2); total, 5.

Carpophthoracidia: PA, 1; OR, 1; total, 1.

Cephalophysa: PA, 1 (1); total, 1.

Epinettyra: AU, 1 (1); total, 1.

Esacidia: PA, 1 (1); total, 1.

Lalokia: AU, 1 (1); total, 1.

Malaisella: OR, 1 (1); total, 1.

Molynocoelia: NT, 1 (1); total, 1.

Monacidia: PA, 1 (1); total, 1.

Neomyoleja: OR, 1 (1); total, 1.

Notommoides: AF, 2 (2); total, 2.

Ochrobapha: AF, 1 (1); total, 1.

Paracanthonevra: OR, 2 (2); total, 2.

Paracristobalia: AU, 1 (1); total, 1.

Poecilothea: OR, 1 (1); total, 1.

Prospheiscus: OR, 1 (1); total, 1.
Pseudomyoleja: AF, 2 (2); total, 2.
Pseudophorellia: NT, 2 (2); total, 2.
Pycnella: AF, 1 (1); total, 1.
Sinacidia: PA, 2 (2); total, 2.
Taomyia: AF, 4 (4); total, 4.
Tarphobregma: AU, 2 (2); total, 2.
Xarnuta: PA, 2 (2); OR, 5 (3); AU, 4 (2); total, 9.
 Unplaced species: PA, 3 (3); OR, 5 (5); AU, 1 (1); total, 9.

Subfamily Tephritinae

REFS—Kwon 1985[2802]: 83 (key to 12 genera [PA: Korea]); Hardy 1974[1943]: 221 (key to 14 genera [OR: Philippines]); Hardy 1988[1965]: 1 (monograph of 18 genera [OR, AU: Indonesia to Solomon Is.]); Ito 1984[2419]: 218 (key to 16 genera [PA: Japan]); Aczel 1953[24]: 148 (key to 8 genera [NT]); Foote 1980[1514]: 9 (keys to 5 tribes & 45 genera [NT]); Hardy & Drew 1996[1972]: 213 ((Tephritini) revision of 23 genera [AU: Australia]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 35 genera [NE: USA & Canada]); Kapoor 1993[2600]: 21 (key to 24 genera [OR: India]); Bezzi 1924[469]: 73 ((Trypaneinae) key to 32 genera [AF]); Bezzi 1924[470]: 524 ((Trypaneinae) key to 13 genera [AF: South Africa]); Hardy 1973[1942]: 295 (key to 16 genera [OR]); Hendel 1927[2107]: 21 (key to 28 genera [PA]); Merz 1994[3343]: 34 (key to 17 genera [PA: cent. Europe]); Shiraki 1933[4432]: 374 (key to 17 genera [PA, OR: Japan, Korea & Taiwan]); White 1988[4235]: 55 (key to puparia of 22 spp. by host plant [PA: Britain]).

Genera: NE, 43 (14); NT, 48 (24); PA, 60 (18); HO, 12; AF, 103 (58); OR, 41 (4); AU, 37 (11); total, 203. Species: NE, 260 (201); NT, 418 (373); PA, 519 (473); HO, 15; AF, 461 (439); OR, 165 (128); AU, 156 (124); total, 1,847.

Tribe Acrotaeniini

Acrotaeniini Foote, Blanc & Norrbom 1993[1523]: 26.
 REFS—Foote 1980[1514]: 12 ((Platensini) key to 6 genera [NT]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 2 genera [NE: USA & Canada]).

Genera: NE, 5; NT, 10 (5); AU, 1; total, 10. Species: NE, 10 (3); NT, 95 (87); AU, 1; UK, 1; total, 99.

Acrotaenia: NE, 2 (1); NT, 5 (4); total, 6.
Acrotaeniacantha: NT, 1 (1); total, 1.
Baryplegma: NE, 2; NT, 12 (10); total, 12.
Caenoriata: NT, 1 (1); total, 1.
Euaestopsis: NT, 1 (1); total, 1.
Neotaracia: NT, 3 (3); total, 3.
Polionota: NE, 2 (1); NT, 7 (6); total, 8.
Pseudopolionota: NT, 1 (1); total, 1.
Tetreauresta: NE, 2; NT, 19 (16); AU, 1; total, 19.
Tomoplaga: NE, 2 (1); NT, 45 (44); UK, 1; total, 47.

Tribe Dithrycini

REFS—Foote, Blanc & Norrbom 1993[1523]: 47 (key to 5 genera [NE: USA & Canada]); Hardy & Drew 1996[1972]: 213 ((Tephritini) monograph of 3 genera [AU: Australia]).

Genera: NE, 7 (3); NT, 9 (5); PA, 3 (2); AF, 4 (2); OR, 2; AU, 3 (1); total, 18. Species: NE, 22 (20); NT, 25 (23); PA, 19 (19); AF, 19 (18); OR, 2 (1); AU, 20 (18); total, 102.

Subtribe Cecidocharina

Cecidocharini Hering 1947[2213]: 4.

REFS—Foote 1980[1514]: 5 ((Oedaspidinae) key to 7 genera [NT]); Aczel 1953[24]: 109 ((Oedaspini) key to 7 genera [NE, NT]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 4 genera [NE: USA & Canada]).

Genera: NE, 6 (2); NT, 9 (5); AF, 1; OR, 1; AU, 1; total, 11.
 Species: NE, 21 (19); NT, 25 (23); AF, 1; OR, 1; AU, 2; total, 45.

Cecidocharella: NE, 1 (1); NT, 2 (2); total, 3.
Cecidocharis: NE, 1 (1); NT, 12 (12); total, 13.
Dracontomyia: NT, 2 (2); total, 2.
Gerrhoceras: NT, 2 (2); total, 2.
Hetschkomyia: NT, 1 (1); total, 1.
Neorhagoletis: NT, 1 (1); total, 1.
Ostracocoelia: NE, 1; NT, 2 (1); total, 2.
Procecidocharis: NE, 13 (12); NT, 2 (1); AF, 1; OR, 1; AU, 2; total, 15.
Procecidocharoides: NE, 3 (3); total, 3.
Pyrgotoides: NT, 1 (1); total, 1.
Stenopa: NE, 2 (2); total, 2.

Subtribe Dithrycina

Ditrichini Hendel 1927[2107]: 22.

Genera: PA, 1 (1); total, 1. Species: PA, 2 (2); total, 2.

Dithryca: PA, 2 (2); total, 2.

Subtribe Oedaspidina

Oedaspidinae Hering 1947[2213]: 4.

REFS—Freidberg & Kaplan 1992[1568]: 58 ((Oedaspidini) key to 4 genera [PA, AF, OR, AU]); Freidberg & Mansell 1995[1572]: 90 ((Oedaspidini) key to 4 genera [PA, AF, OR, AU]).

Genera: NE, 1 (1); PA, 2 (1); AF, 3 (2); OR, 1; AU, 2 (1); total, 6. Species: NE, 1 (1); PA, 17 (17); AF, 18 (18); OR, 1 (1); AU, 18 (18); total, 55.

Liepana: AU, 3 (3); total, 3.
Oedaspis: PA, 16 (16); AF, 16 (16); OR, 1 (1); AU, 15 (15); total, 48.
Oedoncus: AF, 1 (1); total, 1.
Peronyma: NE, 1 (1); total, 1.
Ptiloedaspis: PA, 1 (1); total, 1.
Xenodorella: AF, 1 (1); total, 1.

Tribe Eurostini, New

Eurostina Foote, Blanc & Norrbom 1993[1523]: 29 (*nomen nudum*).

REF.—Foote, Blanc & Norrbom 1993[1523]: 47 ((Eurostina) key to 3 genera [NE]).

Genera: NE, 3 (3); total, 3. Species: NE, 28 (28); total, 28.

Acicurina: NE, 15 (15); total, 15.

Eurosta: NE, 7 (7); total, 7.

Valentibulla: NE, 6 (6); total, 6.

Tribe Eutretini

Eutretini Munro 1952[3503]: 221.

Paracanthini Aczel 1952[17]: 200 (*nomen nudum*).

REFS—Freidberg & Kaplan 1993[1569]: 212 ((Tephritinae) key to 3 genera [AF]); Foote 1980[1514]: 11 ((Ditrichini) key to 8 genera [NT]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 4 genera [NE: USA & Canada]).

Genera: NE, 5 (2); NT, 7 (5); PA, 1; HO, 1; AF, 3 (3); AU, 1; total, 13. Species: NE, 33 (26); NT, 55 (48); PA, 2 (2); AF, 6 (6); AU, 1; total, 89.

Afreutreta: AF, 3 (3); total, 3.

Cosmetothrix: AF, 1 (1); total, 1.

Cryptotreta: NE, 2 (2); total, 2.

Dictyotrypeta: NT, 4 (4); total, 4.

Eutreta: NE, 23 (18); NT, 17 (12); AU, 1; total, 35.

Eutreta: NE, 12 (7); NT, 17 (12); AU, 1; total, 24.

Metatephritis: NE, 9 (9); total, 9.

Setosigena: NE, 2 (2); total, 2.

Laksyetsa: NE, 1 (1); total, 1.

Paracantha: NE, 5 (3); NT, 7 (5); total, 10.

Polymorphomyia: NT, 5 (5); total, 5.

Pseudeutreta: NT, 11 (11); total, 11.

Rachiptera: NT, 4 (4); total, 4.

Strobelia: NT, 7 (7); total, 7.

Tarchonanthea: AF, 2 (2); total, 2.

Xanthomyia: NE, 2 (2); PA, 2 (2); total, 4.

Tribe Myopitini

Euribiidae Czerny 1909[1054]: 252.

Myopitinae Bezzi 1910[445]: 5.

Urophorinae Bezzi 1913[448]: 62.

REFS—Steyskal 1979[4647]: 5 ((Myopitinae) key to 6 genera [NE, NT, PA, AF, OR, AU]); Lin & Tseng 1974[2884]: 222 ((Euribiinae) key to 2 spp. [OR: Taiwan]); Freidberg & Kugler 1989[1571]: 47 ((Myopitinae) key to 2 genera [PA: Israel & Sinai]); Hendel 1927[2107]: 17 ((Euribiini) key to 3 genera [PA]); Merz 1994[3343]: 25 ((Myopitinae) key to 2 genera [PA: cent. Europe]); White 1988[5103]: 32 ((Myopitinae) key to 2 genera [PA: Britain]).

Genera: NE, 2; NT, 2; PA, 4 (1); HO, 1; AF, 4 (1); OR, 2; AU, 1; total, 6. Species: NE, 18 (10); NT, 32 (31); PA, 76 (68); HO, 7; AF, 8 (8); OR, 4 (2); AU, 3; total, 127.

Asimoneura: PA, 1 (1); AF, 3 (3); OR, 1 (1); total, 5.

Myopites: PA, 15 (15); AF, 2 (2); total, 17.

Nearomyia: PA, 1 (1); total, 1.

Rhynencina: NE, 1 (1); NT, 4 (4); total, 5.

Stammophora: AF, 1 (1); total, 1.

Urophora: NE, 17 (9); NT, 28 (27); PA, 59 (51); HO, 7; AF, 2(2); OR, 3 (1); AU, 3; total, 98.

Eurasimona: PA, 2 (2); total, 2.

Inuromaesa: PA, 1 (1); total, 1.

Myopitora: PA, 1 (1); total, 1.

Urophora: NE, 7; PA, 55 (47); HO, 7; AF, 1 (1); OR, 3 (1); AU, 3; total, 56.

Unplaced species: NE, 10 (9); NT, 28 (27); AF, 1 (1); total, 38.

Tribe Noetini, New

REFS—Foote, Blanc & Norrbom 1993[1523]: 47 ((Eutretini) key to 3 genera [NE]); Hendel 1927[2107]: ((Ditrichini & Tephritini) key to 3 genera [PA]); Merz 1994[3343]: 34 ((Tephritinae) key to 2 genera [PA: cent. Europe]).

Genera: NE, 3 (3); NT, 1; PA, 5 (4); AF, 1; OR, 1; AU, 1; total, 8. Species: NE, 4 (4); NT, 3 (3); PA, 15 (14); AF, 1; OR, 1; AU, 1; total, 22.

Acidogona: NE, 1 (1); total, 1.

Ensina: NT, 3 (3); PA, 3 (2); AF, 1; OR, 1; AU, 1; total, 6.

Hypenidium: PA, 2 (2); total, 2.

Jamesomyia: NE, 1 (1); total, 1.

Noeeta: PA, 7 (7); total, 7.

Paracanthella: PA, 2 (2); total, 2.

Trigonochorium: PA, 1 (1); total, 1.

Xenochaeta: NE, 2 (2); total, 2.

Tribe Schistopterini

Schistopterinae Bezzi 1918[455]: 221.

Rhabdochaetinae Bezzi 1924[470]: 449.

Rhochmopterinae Orian 1962[3708]: 17.

REFS—Hardy 1985[1960]: 59 (key to 3 genera & 10 spp. [OR, AU]); Bezzi 1924[469]: 80 ((Schistopterinae) key to 6 genera [AF]); Bezzi 1924[470]: 521 ((Rhabdochaetinae) key to 3 genera [AF: South Africa]); Hardy & Drew 1996[1972]: 213 ((Tephritini) monograph of 2 genera [AU: Australia]).

Genera: PA, 2; AF, 9 (6); OR, 3; AU, 4; total, 10. Species: PA, 2; AF, 33 (32); OR, 16 (13); AU, 10 (7); total, 56.

Bactropota: AF, 1 (1); total, 1.

Brachiopterna: AF, 2 (2); total, 2.

Clematochaeta: AF, 5 (5); total, 5.

Cordylopteryx: AF, 2 (2); total, 2.

Eutretosoma: AF, 4 (4); total, 4.

Heringomyia: AF, 3 (3); total, 3.

Pararhabdochaeta: OR, 2 (2); AU, 1 (1); total, 3.

Rhabdochaeta: PA, 1; AF, 7 (7); OR, 8 (6); AU, 7 (5); total, 20.

Rhochmopterum: AF, 7 (7); OR, 6 (5); AU, 1; total, 13.

Schistopterum: PA, 1; AF, 2 (1); AU, 1 (1); total, 3.

Tribe Tephrellini

REFS—Munro 1947[3496]: 85 ((Trypetidae (“transition genera”)) key to 29 genera [AF]); Kapoor 1993[2600]: 46, 54, ((Aciurini, Platensini, Tephrellini) keys to 10 genera [OR: India]); Hardy 1988[1965]: 1 (monograph of 5 genera [OR, AU: Indonesia to Solomon Is.]); Hardy 1974[1943]: 221 ((Tephrellini & Platensini) keys to 4 genera [OR: Philippines]); Hardy 1973[1942]: 295 ((Platensini & Tephrellini) key to 4 genera [OR: Southeast Asia]); Hardy 1973[1942]: 295 (key to 2 genera [OR: Southeast Asia]).

Genera: PA, 9 (3); AF, 33 (19); OR, 11 (3); AU, 5; total, 40.

Species: PA, 16 (8); AF, 116 (109); OR, 46 (38); AU, 10 (4); UK, 1; total, 174.

Subtribe Platensinina

Platensinini Munro 1937[3481]: 7.

REFS—Kapoor 1993[2600]: 56 ((Platensinini) key to 3 genera [OR: India]); Munro 1947[3496]: 85 ((Trypetidae (“transition genera”)) key to 11 genera [AF]); Hardy 1974[1943]: 221 ((Platensinini & Tephritini) key to 3 genera [OR: Philippines]); Hardy 1973[1942]: 295 ((Platensinini & Tephritini) key to 2 genera [OR: Southeast Asia]); Ito 1984[2419]: 218 ((Tephritinae) key to 2 genera [PA: Japan]).

Genera: PA, 3 (1); AF, 16 (12); OR, 4 (1); AU, 3; total, 18.

Species: PA, 3 (1); AF, 43 (41); OR, 33 (27); AU, 7 (3); UK, 1; total, 80.

Bezzina: AF, 2 (2); total, 2.

Chippingomyia: AF, 1 (1); total, 1.

Elaphromyia: PA, 1; AF, 4 (3); OR, 6 (4); AU, 1 (1); total, 10.

Ghentia: AF, 1 (1); total, 1.

Hyaloctoides: AF, 5 (5); total, 5.

Leucothrix: AF, 3 (3); total, 3.

Manicomomyia: AF, 1 (1); total, 1.

Munroella: AF, 1 (1); total, 1.

Perirhithrum: AF, 1 (1); total, 1.

Platensina: AF, 5 (5); OR, 16 (13); AU, 5 (2); UK, 1; total, 24.

Platomma: AF, 2 (2); total, 2.
Pliomelaena: AF, 7 (7); OR, 10 (9); AU, 1; total, 17.
Psednometopum: AF, 2 (2); total, 2.
Pseudafreutreta: AF, 3 (3); total, 3.
Stephanotrypeta: PA, 1; AF, 4 (3); total, 4.
Sundaresta: OR, 1 (1); total, 1.
Tephrelalis: PA, 1 (1); total, 1.
Triandomelaena: AF, 1 (1); total, 1.

Subtribe **Tephrellina**

Tephrellini Hending 1927[2107]: 22.
 Aciurini Hering 1941[2199]: 196 (*nomen nudum*).
 Aciurinae Hering 1941[2200]: 108.
 REFS—Hardy 1987[1963]: 249 ((Aciurini) monograph of 3 genera [OR, AU: Indonesia to Solomon Is.]); Hancock 1990[1894]: 43 ((Tephrellini) key to 20 genera [PA, AF, OR, AU]); Hancock 1991[1896]: 174 ((Tephrellini) key to 7 genera & 10 spp. [AF: Madagascar]); Freidberg & Kugler 1989[1571]: 29 ((Aciurinae) key to 6 genera [PA: Israel & Sinai]); Hending 1927[2107]: 18 ((Trypetini) key to 4 genera [PA]); Kapoor 1993[2600]: 46, 54 ((Aciurini & Tephrellini) key to 7 genera [OR: India]); Munro 1947[3496]: 85 ((Trypetidae (“transition genera”)) key to 18 genera [AF]).
 Genera: PA, 6 (2); AF, 17 (7); OR, 7 (2); AU, 2; total, 22.
 Species: PA, 13 (7); AF, 73 (68); OR, 13 (11); AU, 3 (1); total, 94.

Aciura: PA, 2 (2); total, 2.
Afraciura: AF, 4 (4); total, 4.
Brachyaciura: AF, 3 (3); total, 3.
Curticella: OR, 1; AU, 1; total, 1.
Dicheniotes: AF, 10 (10); total, 10.
Dorycricus: AF, 1 (1); total, 1.
Gymnaciura: AF, 2 (2); total, 2.
Katonaia: PA, 2 (2); AF, 1 (1); total, 3.
Malagaciura: AF, 1 (1); total, 1.
Malaisinia: OR, 1 (1); total, 1.
Metasphenisca: PA, 5 (2); AF, 25 (22); OR, 2 (2); total, 29.
Ocnarioxyna: AF, 3 (3); total, 3.
Oxyaciura: PA, 1; AF, 1; OR, 3 (3); total, 4.
Paraciura: AF, 1 (1); total, 1.
Paraspheniscoides: AF, 2 (2); total, 2.
Paraspheniscus: PA, 1 (1); total, 1.
Pediapelta: AF, 6 (6); total, 6.
Pterope: AF, 1 (1); total, 1.
Sphaeniscus: PA, 2; AF, 3 (2); OR, 3 (2); AU, 2 (1); total, 7.
Tephraeciura: AF, 8 (8); OR, 2 (2); total, 10.
Tephrella: OR, 1 (1); total, 1.
Ypsilomena: AF, 1 (1); total, 1.

Tribe **Tephritini**

Tephritites Newman 1834[3597]: 379.
 Trypaneidae Bezzi 1910[445]: 1.
 Euarestini Hering 1942[2207]: 9 (*nomen nudum*).
 Euarestini Hering 1947[2213]: 12.
 Aciniini Collin 1947[900]: 1.
 Spathulinini Cogan & Munro 1980[882]: 541 (*nomen nudum*).
 REFS—Korneyev 1990[2736]: 397, 402 (keys to 11 genera of *Sphenella* & *Campiglossa* groups [PA: e. Palearctic]); Freidberg 1987[1562]: 553 (key to 9 genera of *Sphenella* group [PA, AF, OR]); Foote 1980[1514]: 14 (key to 17 genera [NT]); Munro 1957[3510]: 1021, 10 ((Tephritinae) keys to 6 genera [AF]); Munro 1957[3510]: 924 ((Tephritinae) key to 9 genera & 63 spp. of *Campiglossa* group [AF]); Freidberg & Kugler 1989[1571]: 73 ((Tephritinae) key to 17 genera [PA: Israel & Sinai]); Foote, Blanc & Norrbom 1993[1523]:

47 (key to 12 genera [NE: USA & Canada]); Kapoor 1993[2600]: 56 (key to 10 genera [OR: India]); Hardy 1988[1965]: 1 (monograph of 11 genera [OR, AU: Indonesia to Solomon Is.]); Munro 1957[3511]: 17 (key to 6 genera of *Sphenella* group [PA, AF, OR, AU]); Hending 1927[2107]: 21 (key to 16 genera [PA]); Merz 1994[3343]: 34 ((Tephritinae) key to 10 genera [PA: cent. Europe]); White 1988[5103]: 45 (key to 8 genera [PA: Britain]); Hardy & Drew 1996[1972]: 213 (monograph of 16 genera [AU: Australia]); Hardy 1974[1943]: 221 (key to 8 genera [OR: Philippines]); Hardy 1973[1942]: 295 (key to 8 genera [OR: Southeast Asia]); Ito 1984[2419]: 218 ((Tephritinae) key to 11 genera [PA: Japan]).

Genera: NE, 12; NT, 16 (6); PA, 29 (6); HO, 7; AF, 48 (27); OR, 16 (1); AU, 20 (9); total, 80. Species: NE, 102 (73); NT, 199 (172); PA, 304 (284); HO, 2; AF, 267 (255); OR, 85 (64); AU, 109 (94); total, 997.

Campiglossa genus group

Genera: NE, 3; NT, 2; PA, 6 (1); HO, 3; AF, 8 (3); OR, 5; AU, 3; total, 11. Species: NE, 33 (31); NT, 20 (18); PA, 120 (116); AF, 65 (64); OR, 27 (18); AU, 19 (13); total, 270.

Antoxya: AF, 1 (1); total, 1.
Campiglossa: NE, 28 (28); NT, 15 (15); PA, 88 (85); AF, 29 (29); OR, 21 (15); AU, 14 (11); total, 188.
Desmella: PA, 2 (2); AF, 3 (3); total, 5.
Dioxya: NE, 2; NT, 5 (3); PA, 2 (1); AF, 1; OR, 2; AU, 4 (2); total, 10.
Homoeotricha: PA, 5 (5); OR, 1 (1); total, 6.
Lethyna: AF, 7 (7); total, 7.
Mesoclanis: AF, 8 (8); OR, 1 (1); total, 9.
Oxya: NE, 3 (3); PA, 21 (21); total, 24.
Oxyparna: PA, 2 (2); total, 2.
Scedella: AF, 15 (15); OR, 2 (1); AU, 1; total, 17.
Tanaica: AF, 1 (1); total, 1.

Dyseuaresta genus group

Genera: NE, 1; NT, 3 (2); total, 3. Species: NE, 2; NT, 25 (23); total, 25.
Dyseuaresta: NE, 2; NT, 12 (10); total, 12.
Lamproxynella: NT, 8 (8); total, 8.
Pseudoedaspis: NT, 5 (5); total, 5.

Euarestoides genus group

Genera: NE, 2; NT, 3 (1); total, 3. Species: NE, 5; NT, 22 (17); total, 22.
Euarestoides: NE, 3; NT, 3; total, 3.
Plaumannimyia: NT, 2 (2); total, 2.
Trypanaresta: NE, 2; NT, 17 (15); total, 17.

Spathulina genus group

Genera: PA, 5 (1); AF, 10 (7); OR, 3; AU, 2; total, 12. Species: PA, 20 (19); AF, 41 (40); OR, 10 (8); AU, 4 (2); total, 71.
Actinoptera: PA, 9 (9); AF, 15 (15); OR, 6 (6); total, 30.
Capitites: PA, 1 (1); AF, 6 (6); total, 7.
Elgonina: AF, 2 (2); total, 2.
Euryphalara: AF, 2 (2); total, 2.
Euthauma: AF, 1 (1); total, 1.
Gymnosagena: AF, 1 (1); total, 1.
Hendrella: PA, 7 (7); OR, 3 (2); AU, 3 (2); total, 12.
Marriottella: AF, 1 (1); total, 1.
Migmella: AF, 4 (4); total, 4.

Peratomixis: AF, 1 (1); total, 1.
Placaciura: PA, 1 (1); total, 1.
Spathulina: PA, 2 (1); AF, 8 (7); OR, 1; AU, 1; total, 9.

Sphenella genus group

Genera: PA, 4; AF, 12 (9); OR, 4 (1); AU, 1; total, 14. Species:
 PA, 10 (9); AF, 60 (60); OR, 7 (5); AU, 3 (2); total, 78.

Acronneus: AF, 1 (1); total, 1.
Axiiothauma: AF, 3 (3); total, 3.
Bevismyia: AF, 1 (1); total, 1.
Cryptophorellia: AF, 16 (16); total, 16.
Mastigolina: AF, 2 (2); total, 2.
Oedosphenella: PA, 1 (1); AF, 1 (1); total, 2.
Orotava: PA, 2 (1); OR, 1; total, 2.
Orthocanthoides: AF, 1 (1); total, 1.
Parafreutreta: AF, 16 (16); total, 16.
Paratephritis: PA, 5 (5); AF, 3 (3); OR, 3 (3); total, 11.
Ptosanthus: AF, 2 (2); total, 2.
Soraida: OR, 1 (1); total, 1.
Sphenella: PA, 2 (2); AF, 12 (12); OR, 2 (1); AU, 3 (2); total, 18.
Telaletes: AF, 2 (2); total, 2.

Trupanea genus group

Genera: NE, 1; NT, 2 (1); PA, 5 (2); HO, 1; AF, 3; OR, 2; AU,
 2 (1); total, 7. Species: NE, 22 (12); NT, 88 (78); PA, 22
 (16); AF, 56 (52); OR, 30 (24); AU, 47 (44); total, 244.

Acanthiophilus: PA, 2 (1); AF, 7 (6); OR, 3 (2); total, 10.
Celidosphenella: NT, 8 (8); total, 8.
Donara: PA, 1 (1); total, 1.
Phaeogramma: AU, 2 (2); total, 2.
Tephritomyia: PA, 2 (2); AF, 4 (4); total, 6.
Trupanea: NE, 22 (12); NT, 80 (70); PA, 12 (7); AF, 45 (42); OR, 27
 (22); AU, 45 (42); total, 212.
Urelliosoma: PA, 5 (5); total, 5.
Allocraspeda: PA, 2 (2); total, 2.
Urelliosoma: PA, 3 (3); total, 3.

Incertis Sedis Tephritini

Genera: NE, 5; NT, 6 (2); PA, 9 (2); HO, 3; AF, 15 (9); OR, 2;
 AU, 12 (8); total, 30. Species: NE, 40 (30); NT, 44 (36);
 PA, 132 (124); HO, 2; AF, 45 (39); OR, 11 (9); AU, 36
 (33); total, 287.

Acinia: NE, 1; NT, 9 (8); PA, 4 (4); AU, 1; total, 13.
Brachydesis: AF, 1 (1); total, 1.
Brachytrupanea: AF, 2 (2); total, 2.
Collessomyia: AU, 1 (1); total, 1.
Cooronga: AU, 1 (1); total, 1.
Dectodesis: AF, 10 (10); total, 10.
Deroparia: AF, 1 (1); total, 1.
Euaresta: NE, 9 (6); NT, 8 (6); PA, 1; HO, 1; AF, 1; AU, 2; total, 15.
Euarestella: PA, 4 (3); AF, 2 (1); total, 5.
Goniurellia: PA, 5 (2); AF, 4 (2); OR, 2; total, 7.
Hyalopezza: AU, 1 (1); total, 1.
Heringina: PA, 1 (1); total, 1.
Homoeothrix: NT, 1 (1); total, 1.
Hyalotephritis: PA, 1; AF, 2 (1); total, 2.
Insizwa: AF, 1 (1); total, 1.
Lamproxyna: NT, 2 (2); total, 2.
Namwambina: AF, 1 (1); total, 1.
Neotephritis: NE, 5 (4); NT, 7 (6); AU, 2 (2); total, 13.
Pangasella: PA, 1 (1); total, 1.
Paraactinoptera: AU, 1 (1); total, 1.

Paradesis: PA, 1; AF, 5 (4); total, 5.
Parahyalopezza: AU, 1 (1); total, 1.
Paraspathulina: AU, 2 (2); total, 2.
Peneparoxyna: AU, 1 (1); total, 1.
Pherothrinax: AF, 10 (10); total, 10.
Quasicooronga: AU, 2 (2); total, 2.
Tephritis: NE, 21 (20); PA, 114 (113); HO, 1; AF, 3 (3); OR, 9 (9);
 AU, 21 (21); total, 167.
Tephritites: AF, 1 (1); total, 1.
Tephritoresta: AF, 1 (1); total, 1.
Xanthaciura: NE, 4; NT, 17 (13); total, 17.

Tribe *Terelliini*

Terelliini Hendel 1927[2107]: 21.

Orelliini Hering 1939[2182]: 117.

REFS—Korneyev 1985[2717]: 628 (key to 6 genera [NE, PA, AF, OR]); Freidberg 1985[1560]: 185 ((Terelliinae) key to 6 genera [NE, PA, AF, OR, AU]); Freidberg & Mathis 1986[1573]: 4 ((Terelliinae) key to 6 genera [NE, PA, AF, OR, AU]); Freidberg & Kugler 1989[1571]: 149 ((Terelliinae) key to 4 genera [PA: Israel & Sinai]); Foote, Blanc & Norrbom 1993[1523]: 47 (key to 3 genera [NE: USA & Canada]); Hendel 1927[2107]: 21 (key to 5 genera [PA]); Merz 1994[3343]: 81 ((Terelliinae) key to 5 genera [PA: cent. Europe]); White 1988[5103]: 41 (key to 4 genera [PA: Britain]).

Genera: NE, 4 (1); PA, 4 (1); HO, 3; AF, 1; OR, 4; total, 6.
 Species: NE, 28 (22); PA, 71 (64); HO, 6; AF, 8 (8); OR,
 7 (6); total, 107.

Chaetorellia: NE, 3; PA, 10 (6); HO, 3; OR, 1; total, 10.
Chaetostomella: NE, 1 (1); PA, 11 (11); OR, 2 (2); total, 14.
Craspedoxantha: AF, 8 (8); OR, 2 (2); total, 10.
Neaspilota: NE, 19 (19); total, 19.
Neaspilota: NE, 4 (4); total, 4.
Neorellia: NE, 15 (15); total, 15.
Orellia: PA, 3 (3); total, 3.
Terellia: NE, 5 (2); PA, 47 (44); HO, 3; OR, 2 (2); total, 51.
Cerajocera: NE, 2 (2); PA, 12 (12); total, 14.
Terellia: NE, 3; PA, 34 (31); OR, 3; OR, 1 (1); total, 35.
 Unplaced species: PA, 1 (1); OR, 1 (1); total, 2.

Tribe *Xyphosiini*

Xyphosiini Hendel 1927[2107]: 22.

REFS—Hendel 1927[2107]: (key to 2 genera [PA]); Merz 1994[3343]: 34 ((Tephritinae) key to 3 genera [PA: cent. Europe]); Foote, Blanc & Norrbom 1993[1523]: 47 ((Tephritinae) key to 2 genera [NE]).

Genera: NE, 2 (2); NT, 1 (1); PA, 3 (1); OR, 2; total, 6. Species:
 NE, 15 (15); NT, 2 (2); PA, 13 (13); OR, 3 (3); total, 33.

Epochrinopsis: NT, 2 (2); total, 2.
Gymnocarena: NE, 13 (13); total, 13.
Ictericca: NE, 2 (2); total, 2.
Ictericodes: PA, 4 (4); OR, 2 (2); total, 6.
Merzomyia: PA, 3 (3); total, 3.
Xyphosia: PA, 6 (6); OR, 1 (1); total, 7.

Incertae Sedis Tephritinae

Genera: NT, 2 (2); AU, 1, (1); total, 3. Species: NT, 7 (7); PA,
 1 (1); AF, 3 (3); OR, 1 (1); AU, 1 (1); total, 13.

Lilloaciura: NT, 1 (1); total, 1.
Rhithrum: NT, 2 (2); total, 2.
Tanaodema: AU, 1 (1); total, 1.
 Unplaced species: NT, 4 (4); PA, 1 (1); AF, 3 (3); OR, 1 (1); total, 9.

Incertae Sedis Tephritidae

Genera: PA, 3 (3); OR, 1 (1); total, 4. Species: NT, 5 (5); PA, 23 (23); AF, 1 (1); OR, 1 (1); AU, 4 (4); total, 34.

Chejuparia: PA, 1 (1); total, 1.

Oxyphora: PA, 1 (1); total, 1.

Pseudorellia: OR, 1 (1); total, 1.

Stylia: PA, 1 (1); total, 1.

Unplaced species: NT, 5 (5); PA, 20 (20); AF, 1 (1); AU, 4 (4); total, 30.

Recent changes from previous classifications

Tephritid higher classification is currently in a state of rapid flux. Numerous changes have been proposed since publication of the most recent regional catalogs (Cogan & Munro 1980, Foote 1965[1502], 1967[1508], 1984, Hardy 1977, Hardy & Foote 1989), which themselves differ in classification. More emphasis on comprehensive, worldwide studies rather than regional faunas, more thorough study of genitalic characters, and introduction of phylogenetic analysis have contributed to these advances and doubtless will continue to improve our knowledge of fruit fly relationships. Here we attempt to list the most significant changes in higher classification since publication of the regional catalogs.

We have generally avoided the recognition of monogeneric higher taxa in the above classification. Unless their sister group relationships are understood, such taxa add little predictive value to a classification. Genera whose relationships are uncertain are instead listed under "Incertae sedis" (unplaced).

For the Phytalmyiinae, we generally follow the classification of Korneyev (1994[2744]), but we prefer to include within it several other taxa (Acanthonevrini, Blepharoneurini, Epacrocercini, and Phascini) that he ranked as separate subfamilies. These taxa have often been included within the Trypetinae. Hardy (1980[1949], 1986[1962]) and Hancock (1986[1890]) also included important discussions of the classification of the Acanthonevrini, and Hardy (1983[1957]) and McAlpine & Schneider (1978) discussed the Phytalmyiini. Following Korneyev (1994[2744]), Terastiomyiini is considered a synonym of Phytalmyiini. According to Korneyev (pers. comm.), *Homiothemara* also belongs in the Phascini.

Within the subfamily Trypetinae, Euphrantini are no longer recognized as distinct from Adramini (White & Elson-Harris 1992, Korneyev 1994[2744]). Korneyev (1994[2744]) and Hardy (1983[1958], 1986[1961]) discussed the limits and included genera of this group. Genera that were previously included only on the basis of having reduced chaetotaxy and a strongly sclerotized bridge behind the metathoracic coxae are here mostly included in the Phytalmyiini. The tribe Carpomyini was recently proposed as a subtribe of Trypetini (Norrbon 1989[3653], 1994[3663]), but we follow Han & McPheron (1994) in ranking it as a tribe because its relationship with the Trypetini is uncertain. Korneyev (1996 [2747]) recently added two small subtribes, the Notommatina and Paraterelliina.

The Dacina, usually previously ranked as a subfamily, or even as a separate family (Munro 1984), because of their distinctive appearance and the large size of the group, is now included as a subtribe of Trypetinae. It is included in the tribe Dacini with the Ceratitidina and Gastrozonina (Hancock 1986[1890], Foote et al. 1993). Drew (1989[232], 1989[1231])

and Drew & Hancock (1994[1239]) discussed the generic and subgeneric classification (see also Hardy 1955[1927] and Drew 1972[1216], 1979). The large genus *Dacus* has been divided, and many of its subgenera and species are now placed in *Bactrocera*. Munro (1984) proposed numerous subfamilies and tribes within the Dacina (as Dacidae), but his classification has not been accepted (Hancock 1986[1890], Drew 1989[232]). We follow the synonymy suggested by White & Elson-Harris (1992) for the genus group names Munro proposed.

The classification of the Ceratitidina was briefly discussed by Hancock (1984, 1987). The limits of this group and the Gastrozonina are poorly resolved. Hancock (1985[1889]) and Hancock & Drew (1994[1901]) included several genera without a strongly apically pointed antennal first flagellomere that traditionally have been classified under Gastrozonina (Hardy 1973, 1974[1943], 1988[1964]). The Gastrozonina have been considered as a subordinate taxon to Acanthonevrini (Hardy 1988[1964]), but Hancock (1985 [1889]) considered them related to the Ceratitidina. Hancock (1985[1889], 1991[1895]), Hancock & Drew (1994[1901]), and Hardy (1988[1964]) discussed the definition of the group and the included genera. The correct stem for the family group name based on *Ceratitidis* is Ceratitid-, rather than Ceratit-, and a name based on the latter stem is preoccupied by the ammonite name Ceratitidae Mojsisovics (D.L. Hancock, C.W. Sabrosky, pers. comm.).

Hancock (1986[1890], 1991[1895]), Norrbom (1985, 1994[3662]), and Norrbom & Foote (1989) discussed the classification of the Ortalotrypetini, Rivelliomimini, and Toxotrypanini, recognized here as tribes. *Ischyropteron* also belongs in the Ortalotrypetini (Norrbon, pers. obs.), and *Hexachaeta* is here included in the Toxotrypanini based on molecular data (Han & McPheron, 1997). A number of Neotropical genera previously included in the Trypetinae (R.H. Foote 1967[1508]) have been transferred to the Tephritinae (Norrbon 1988, Foote et al. 1993).

The Trypetini were recently redefined by Han (1992). His classification is used here, except that the subtribes Acidoxanthina and Nitrariomyiina recently proposed by Korneyev (1996 [2747]) and several additional genera are also included. Hancock (1986[1890]) suggested that the Acidoxanthina belong in the Ceratitidina.

The Zaceratini (Hancock 1986[1890]) and Plioreoceptini (Korneyev 1987[2726]) were each proposed as monogeneric tribes. Their synonymy was noted by White & Elson-Harris (1992).

The subfamily Tephritinae includes some taxa previously given subfamily rank: the Myopitini, Tephrellini (as Aciurinae), Terelliini, Oedaspidina, and Schistopterini (e.g., Hering 1947, Cogan & Munro 1980). The Myopitini and Tephrellini have sometimes been included in the Trypetinae (e.g., Hardy 1977). The limits of many of the tribes of the Tephritinae are vague (Hancock 1986[1891], Foote et al. 1993), and Hancock (1990) included all of them except the Myopitini, Terelliini, and some Tephrellini within the Tephritini.

Hancock (1990) indicated that Tephrellini is the valid name for the group previously called Aciurini. In the classification followed here (Cogan & Munro 1980, Freidberg, pers. obs.), it also includes the Platensina, sometimes recognized

as a separate tribe (e.g., Hancock 1986[1891]) or as a genus group within the Tephritini (Hancock 1990). The classification of the Dithrycini follows Foote et al. (1993) and includes the Oedaspidina and Cecidocarina, as well as the monogeneric Dithrycina. Most other genera previously included in the Dithrycina are here placed in the Eutretini.

A number of genera previously classified in the Myopitini (e.g., Steyskal 1979) have been removed (Hancock 1986[1890], Korneyev 1987[2726], Freidberg & Kugler 1989), and several subgenera have recently been proposed within *Urophora* (Korneyev & White 1991). The generic classification of the Schistopterini has not been modified in recent years, nor has that of the Terelliini, except that Korneyev (1985[2717], 1987[2727], 1989[2729], 1988) synonymized several names with *Terellia* and transferred many species to that genus, and Freidberg & Mathis (1986) proposed a new subgenus within *Neaspilota*.

Noeetini Norrbom and Korneyev is here proposed as a **new tribe** (This action constitutes a separate act of publication in regards to the *International Code of Zoological Nomenclature*). Species of this group can be distinguished from other Tephritinae by the shape of the aculeus tip of the female, which is barbed or has distinct subapical incisions (see Freidberg & Kugler 1989, Fig. 81), except in one species of *Ensina*. The male distiphallus is slender, with a long, isolated, slender acrophallus in most genera, or in *Ensina* it has a distinctive set of sclerites, including a broad, oblique apical one (see Freidberg & Kugler 1989, fig. 80). In some genera the inner and outer surstyli are distinctive in being elongate but not closely associated. The scutellum is often swollen and shiny, and sometimes bears erect setulae on its margin. The wing pattern is variable and may be reticulate, radiate, banded or almost completely lacking.

Eurostini Norrbom is here proposed as a **new tribe**. The name Eurostina was proposed by Foote et al. (1993) as a subtribe of Dithrycini, but it is unavailable (nomen nudum) because of the lack of a diagnosis. A typographical error (Norrbom 1985 instead of 1989) caused the wrong figure to be cited. Eurostini can be distinguished from other Tephritinae by their characteristic male genitalia (Steyskal 1984, fig. 18, Norrbom 1989[3653], fig. 1, Ming 1989, fig. 1-20, Hernández-Ortiz 1994, fig. 5-6), in which the epandrium is somewhat elongate, with the surstyli arising far from its posterior margin, and the outer surstyli are very long. The group can be further characterized as follows: Robust species. Frons broad and setulose medially. First flagellomere short. Scutellar setae 1-2. Wing pattern mostly dark, especially medially, usually with marginal hyaline spots or triangles, sometimes radiate, often faintly reticulate, occasionally (several *Aciurina* spp.) reduced to a banded or spotted pattern. Cell r_{4+5} often with bulla. Abdomen matte or shiny. Male distiphallus with slender, pilose, subapical lobe (at least in *Aciurina* and *Eurosta*). Female syntergosternite 7 usually stout basally.

The classification of the Eutretini follows Foote et al. (1993), as does that of the Acrotaeniini, which they proposed. The classification of the Tephritini into genus groups follows Munro (1957[3510], 1957[3511]), Freidberg (1987), and Foote et al. (1993), although a few changes are made here.

Tephritid Phylogeny

Very few rigorous cladistic analyses involving fruit flies have been published. At the family level, Hennig (1958, 1973), J.F. McAlpine (1977, 1989) and Korneyev (1992) discussed the relationships of the Tephritidae to other tephritoid families.

Within the family, some authors have discussed the monophyly of certain groups and proposed autapomorphies, sometimes on an extensive basis (e.g., Korneyev 1994[2744], 1996[2747], Foote et al. 1993), but comprehensive analyses of large taxa, use of computer software, and even rigorous out-group testing of character polarities have been rare. The only large tephritid taxa that have been rigorously analyzed are the Trypetini (Han 1992), Ortalotrypetini (Norrbom 1994[3662]), and Carpomyina (Jenkins 1996). Hancock (1986[1890]) proposed a provisional phylogeny that included most tribes of Trypetinae and Phytalmiinae, but some of the lower clades are not supported by apomorphic characters.

Kitto (1983) published a preliminary analysis of tephritid relationships based on immunological distance, and Han & McPheron (1994, 1997) and McPheron & Han (1997) conducted extensive analyses based on DNA sequencing. These studies were limited in the number of included taxa, but the results are generally consistent with morphologically supported hypotheses of relationships in addition to suggesting some higher relationships that were previously unresolved.

Intragenetic phylogenetic analyses based on morphology have been published for *Anastrepha* (partial, Norrbom 1985, 1991, 1993[3660]), *Bactrocera* (Michaux 1996), *Cornutrypeta* (Han et al. 1993), *Craspedoxantha* (Freidberg 1985, Freidberg & Mathis 1990), *Cryptodacus*, *Haywardina* and *Rhagoletotrypeta* (Norrbom 1994[3663]), *Cryptophorellia* (Freidberg & Hancock 1989), *Euaresta* (Norrbom 1993[3661]), *Gymnocarena* (Norrbom 1992), *Oedicarena* (Norrbom et al. 1988), *Polionota* (Norrbom 1988), *Rhagoletis* (Jenkins 1996), and *Vidalia* (Han et al. 1994[1879], as *Pseudina*).

Relationships among many species of *Rhagoletis* were analyzed by Berlocher & Bush (1982) and Berlocher et al. (1993) using allozyme data, and by McPheron & Han (1997) using DNA sequence data. Morgante et al. (1980) produced a dendrogram of genetic distance, based on electrophoretic data, for 15 species of *Anastrepha*.

Because of the numerous changes in tephritid classification in the past two decades and the high number of competing classifications that have been proposed, the following brief outline of tephritid phylogeny is provided as the basis of the classification used here. Much of it is based on recent work by Korneyev. The reader should be forewarned, however, that the proposed synapomorphies for many taxa have not been rigorously tested, that there is considerable homoplasy in most characters (many unmentioned here), and that there are many *incertae sedis* genera.

The Phytalmiinae appears to include the biologically and morphologically most plesiomorphic genera of Tephritidae. As here recognized, it could be a paraphyletic group because relationships among the Blepharoneurini, Epacrocercini, Phasini, Acanthonevrini, Phytalmiini and the Trypetinae + Tephritinae are uncertain. Most genera of these tribes, except the Phytalmiini, have six scutellar setae, a possible synapomorphy, but whether this character state is plesiomorphic or apomorphic

within the Tephritidae is uncertain. Korneyev (1994[2744]) suggested the monophyly of the Trypetinae + Tephritinae based mainly on the presence of minute papillae on the spermathecae in most genera of these groups, although there is some reversal in this character. Most Phytalmiinae (except Blepharoneurini) also have an incompletely fused aculeus, with the tip free or delimited from tergite 8 by a suture, and narrow, widely spaced “taenia” or sclerotized strips at the base of the eversible membrane. Both are presumably plesiomorphic character states, whereas the Trypetinae + Tephritinae have fused aculei (except in some Adramini) and broader, more medial taenia (apomorphic).

The relationships of the following four tribes were discussed by Korneyev (1994[2744]), who attempted to define them phylogenetically. At least some genera of Acanthonevrini have the apicomedial lobe of syntergosternite 7 of the female desclerotized, although this character has not been checked in many genera. The Phascini have nipple-like spermathecae and a distinctive wing pattern. In the Epacrocercini the main part of the aculeus is three or more times broader than the cerci, the lobe of cell bcu is very small or absent, the pedicel is lobate and extends beyond the base of the arista, and the dorsal hairs of the arista are much longer than the ventral hairs (Hardy 1982[1954]).

The Phytalmiini have the anterior notopleural seta distinctly shorter than the posterior seta (some genera tentatively included have not been confirmed for this character) and generally reduced chaetotaxy (a highly homoplastic character). In some genera the lobe of cell bcu is absent (vein Cu₂ is straight) and/or the males have genal processes.

The Blepharoneurini have a distinctive anepisternal seta just anterior to the phragma (Condon & Norrbom 1994), and all included genera except *Ceratodacus* have modified pseudotracheal ring tips on their labella (Munro 1957[3510], Driscoll & Condon 1994).

The subfamily Trypetinae could be a grade (i.e., paraphyletic), and Kitto (1983), Hancock (1986[1890]), and Korneyev (1996[2747]) suggested that the Dacini might be more closely related to the Tephritinae than to other Trypetinae. Interestingly, both Korneyev (1996[2747]) and Han & McPheron (1997) independently suggested the genus *Plioreocepta* as the possible sister group of the Tephritinae.

The Adramini possess long, fine hairs on the anatergite (Korneyev 1994[2744]). The genus *Ptilona*, which belongs in the Acanthonevrini based on other characters, apparently has evolved similar hairs through convergence (Korneyev 1994[2744]).

The Carpomyini includes the subtribes Carpomyina, Nottomatina and Paraterelliina. The latter two groups, which each include two genera, were defined by Korneyev (1996[2747]), who also proposed their inclusion in the Carpomyini. Jenkins (1996) also discussed characters that support the monophyly of the Paraterelliina. The monophyly of the Carpomyina was discussed by Jenkins (1996), who proposed that the shape of a lobe of the distiphallus is a synapomorphy. Most included taxa (except *Zonosemata*) also have a unique weakly sclerotized apical area on female syntergosternite 7 (suggested as a synapomorphy by Norrbom 1989[3653]), and the male surstylus shape (typically with an elongate, apically

directed, posterior lobe and a short anterior lobe) is possibly another synapomorphy of the group, although further modified in a few taxa. Larvae of most species that have been studied (*Carpomyia*, *Haywardina*, *Zonosemata*, and most *Rhagoletis*) have stomal guards (usually distinctly sclerotized), another apomorphic character unique to the group (Kandybina 1977, Carroll 1992). It appears to be a synapomorphy for the Carpomyina, with subsequent loss in a few species of *Rhagoletis* (Carroll 1992). Jenkins (1996) and McPheron & Han (1997) analyzed relationships among some included genera, and both suggested that the large genus *Rhagoletis* is paraphyletic.

The monophyly of the Dacini, including the Ceratitidina and Gastrozonina, is supported by morphological and biochemical data, although the important characters have been studied in few, or in some cases, no representatives of Gastrozonina. Hancock (1986[1890]) and Foote et al. (1993) suggested the monophyly of the Dacini based on the shape of the lobe of cell bcu (often narrower at base than medially), spermathecae number reduced to two (considered a synapomorphy of Dacini + Tephritinae by Hancock 1986[1890]), and surstyli shape. Additionally, species of *Dacina* and Ceratitidina whose larvae have been described (no larvae of Gastrozonini have been examined) have a ridge across the large caudal tubercle below the hind spiracle, an apomorphic state not reported in any other Tephritidae (Carroll 1992). Kitto (1983) suggested the close relationship of the few *Dacina* and Ceratitidina included in his immunological study (no Gastrozonina were studied), and the four species (2 *Dacina*, 1 Ceratitidina, 1 Gastrozonina) included by Han & McPheron (1997) were grouped in their neighbor-joining tree.

Within the Dacini, the monophyly of the *Dacina* (*Monacrostichus*, *Bactrocera* and *Dacus*) is indicated by the extremely long lobe of cell bcu (longer than A₁+Cu₂), and the elongate, convoluted shape of the spermathecae (although some Gastrozonina have similar spermathecae (Hardy 1988[1964]), and this could be a synapomorphy at a higher level). *Bactrocera* and *Dacus* are sister taxa which share the following apomorphies: radial veins crowded anteriorly and medial cells very broad; female abdominal tergite 6 separate from preceding tergites; and tergite 5 of both sexes with glabular areas (“ceromae”) (Munro 1984). Hancock (1986[1890]) and Drew & Hancock (1994[1239]) also included *Ichneumonopsis* in the *Dacina* due to some similarity with *Monacrostichus*, but it lacks the synapomorphies of the *Dacina* (i.e., lobe of cell bcu only moderately long, spermathecae rounded). It is here tentatively placed in the Gastrozonina based on its short plumose arista and broad aculeus (Freidberg, pers. obs.), but its relationships are not well understood.

The Ceratitidina and Gastrozonina are not well defined phylogenetically. In both taxa the scutellum is often large and convex, and most Gastrozonina have a plumose arista and apically pointed antennal first flagellomere, which probably are apomorphies (Hardy 1973, 1974[1943], Hancock 1985[1889]). There are also similarities in wing pattern and chaetotaxy, although these characters have not been analyzed phylogenetically. The Gastrozonina could be paraphyletic, as in at least some genera the spermathecae are coiled or convoluted as in the *Dacina* (Korneyev 1996[2747]). Species of many genera of Gastrozonina breed in developing shoots of bamboo, a unique

host association within Tephritidae, except for some Acanthonevrini that breed in decaying bamboo (Hancock & Drew 1995[1902]).

The Ortalotrypetini, Rivelliomimini, and Toxotrypanini are small monophyletic groups that are well defined by the following apomorphic characters. The Ortalotrypetini have a dorsoapical opening on syntergosternite 7 and a unique ventral cluster of scales on the eversible membrane. Three of the four genera have three pairs of scutellar setae, probably also a synapomorphy of this tribe. Norrbom (1994[3662]) analyzed the relationships among four of the five known genera, including the fossil genus *Protortalotrypeta*. The Rivelliomimini have a pair of black lateral swellings on abdominal tergite 5, and cell bcu acute apically but with vein Cu₂ straight (Hancock 1986[1890]). Within the Toxotrypanini, *Anastrepha* and *Toxotrypana* possess a number of synapomorphies involving the genitalia that clearly indicate their monophyly (Norrbom 1985, Hancock 1986[1890], Norrbom & Foote 1989). Biochemical data also support this grouping (Kitto 1983, Han & McPheron 1994, 1997). *Hexachaeta* is included on the basis of molecular data (Han & McPheron, 1997).

The Trypetini includes the subtribes Acidoxanthina, Nitrariomyiina, and Trypetina and the as yet to be formally named *Chetostoma* group. Korneyev (1996[2747]) discussed the monophyly of the former two groups and their inclusion in the Trypetini. Han (1992) proposed the monophyly of the Trypetina and the Trypetina + the *Chetostoma* group on the basis of apomorphies of the male distiphallus and the female genitalia. However, because he hypothesized that some reversal in these characters occurred within the Trypetini, and because similar sculpture of the male distiphallus occurs in some other Trypetinae, diagnosis of the Trypetini is difficult (Korneyev 1996[2747], Jenkins 1996). The Trypetina includes most of the leaf-mining and stem-boring species of Tephritidae, although some of its species, like many other Trypetinae and the *Chetostoma* group, breed in fruit. Members of the *Chetostoma* group have nearly smooth eversible membranes with only minute scales or teeth, and four of the seven genera have laterally compressed aculeus tips (Han 1992).

The Tephritinae are generally assumed to comprise a monophyletic group, based in part upon their biology. Except for the Tephrellini and a few species of *Oedaspis* and *Eutreta*, they breed in plants of the family Asteraceae. The oval shape of the epandrium and surstyli, present in at least some (usually most) genera of all of the tribes except Eurostina, was suggested as a synapomorphy by Foote et al. (1993). The shape of the apical part of the spermathecal duct, which is distinctly broader for a length at least equal to that of the spermatheca, is possibly another synapomorphy (Norrbom, pers. obs.), although according to Korneyev (1996[2747]) this character state occurs within the Ceratitidina and Gastrozonina. Characters such as the absence of well-defined scapular setae, the presence of dense microtrichia, and the pale, lanceolate shape of many setae and setulae, which are common although not consistent in all Tephritinae, also are suggestive of the subfamily's monophyly. Female heterogamety could be a synapomorphy for the Tephritinae, and occurs at least in the Dithrycini, Eutretini and Tephritini (Bush 1966[682], Kitto 1983, Frias 1992[1597], Foote et al. 1993), but representatives of the other tribes need

to be studied. An analysis of DNA sequence data by Han & McPheron (1994) also strongly supported the monophyly of the Tephritinae, although no representatives of the Acrotaeniini, Schistopterini or Tephrellini were included in their study.

Relationships among the various tribes of Tephritinae remain unresolved. Hancock (1990) included all of the them except the Myopitini, Terelliini, and Tephrellini within the Tephritini.

The Myopitini and Terelliini are well defined monophyletic groups. The former lack the posterior orbital bristle and have no lobe on cell bcu (vein Cu₂ is straight or convex) (Foote et al. 1993), and the latter have the posterior orbital seta inclinate and have a lyre-shaped pattern on the scutum (Freidberg 1985). Homoplasy in all of these characters except the last one occurs sporadically in other Tephritinae, but no other Tephritinae have these combinations of apomorphic characters.

The Tephrellini as here recognized is based largely on host relationships, although most species have a typically shaped aculeus tip (very slender, with a slight, broad constriction well before apex; see Freidberg & Kugler 1989, Figs. 14, 18, 21, 24, 27, 30), which may be a synapomorphy (Freidberg & Kaplan 1993, Freidberg, pers. obs.). On the other hand, Hancock (1990) argued that the Platensini (his *Platensina* group) belong in the Tephritini based on thoracic microtrichia density and differences in wing patterns from the other Tephrellini. He also suggested that the presence of a costal band in cell c (versus a medial spot) in many genera of the Tephrellina indicates their close relationship.

Freidberg & Kaplan (1992) suggested the following characters as synapomorphies of the Dithrycini (as Oedaspidini): scutellum swollen, wing pattern banded, and mouthparts reduced, although they noted that some of these character states are lacking in some species. Most Dithrycini species are gall-formers. *Dithryca* and the Cecidocharina usually have the white, lanceolate setulae of the mesonotum in distinctive patterns, often in clusters (Foote et al. 1993). The Eurostini were included within the Dithrycini by Foote et al. (1993), but evidence supporting this is weak (species of both groups are relatively robust, but this may be because most are gall-formers). The shape of the epandrium and surstyli is a synapomorphy for the Eurostini.

The Acrotaeniini were proposed based on a suite of probably plesiomorphic character states (Foote et al. 1993) and the group's monophyly needs to be further tested. The genera placed here, which are mostly Neotropical, may be related to or possibly belong in the Xyphosiini (V.A. Korneyev, pers. comm.), another group with numerous plesiomorphic character states.

The Tephritini may be paraphyletic, as it is a group largely defined by lack of apomorphic traits of the other tribes.

The Schistopterini have one or more of the following apomorphic traits: preocellar setae; eye banded or spotted (Munro 1926); erect white setulae on disc of scutellum; a distinctive pattern of wing bullae; and/or a strong incision in the costal margin of the wing at the apex of the subcostal vein (Hancock 1986[1891]). Some of these characters also occur in some Eutretini, although whether this is the result of convergence or shared ancestry is unclear as the character state distri-

Table 1. Genus and species group names of Tephritidae by decade

Period	Genus Group Names			Species Group Names		
	Available	Valid	% Valid	Available	Valid	% Valid
1758-1760	0	0	0	9	8	89
1761-1770	0	0	0	3	2	67
1771-1780	0	0	0	17	12	71
1781-1790	0	0	0	16	5	31
1791-1800	2	1	50	20	9	45
1801-1810	3	3	100	26	11	42
1811-1820	0	0	0	36	15	42
1821-1830	20	17	85	136	73	54
1831-1840	6	4	38	38	15	39
1841-1850	5	2	40	126	79	63
1851-1860	25	18	72	134	95	71
1861-1870	28	14	50	233	153	66
1871-1880	24	15	63	68	50	74
1881-1890	6	2	33	27	17	63
1891-1900	11	8	73	149	120	81
1901-1910	13	11	85	152	103	68
1911-1920	133	82	62	556	427	77
1921-1930	72	48	67	393	301	77
1931-1940	112	73	65	915	748	82
1941-1950	65	40	62	382	307	80
1951-1960	52	34	65	388	324	84
1961-1970	20	11	55	205	163	80
1971-1980	38	28	74	366	326	89
1981-1990	128	74	58	652	619	95
1991-1996	39	36	92	288	279	97
Totals	802	521	65	5,335	4,257	80

Table 2. Genus and species group names of Tephritidae by 50 year periods

Period	Major Workers	Genus Group Names			Species Group Names		
		Available	Valid	% Valid	Available	Valid	% Valid
1758-1800	Linnaeus, Fabricius	3	2	67	65	36	55
1801-1850	Meigen, Wiedemann, Macquart	33	25	76	362	193	53
1851-1900	Walker, Loew, Wulp	94	57	61	611	435	71
1901-1950	Bezzi, Hendel, Hering, Munro, Malloch	395	254	64	2,398	1,886	79
1951-Present	Munro, Hardy, Aczel, Foote, Drew	277	183	66	1,899	1,711	90

butions are sporadic. The distiphallus is small, with little sclerotization (Freidberg, pers. obs.).

The Eutretini may be a polyphyletic group, as the main character used to delimit it, the usual presence of a parafacial spot, occurs sporadically in other Tephritinae (Foote et al. 1993), and it is absent in a few included taxa (e.g., *Polymorphomyia*, some species of *Afreutreta* and *Eutreta*). The eye is banded or spotted in live or fresh specimens of most species where this character has been studied (Munro 1926, Foote et al. 1993), an apomorphy perhaps indicating relationship with the Schistopterini. There are at least three groups of related genera within the tribe: *Afreutreta*, *Cosmetothrix* and *Tarchonanthea* (Freidberg & Kaplan 1993); *Eutreta*, *Polymorphomyia* and *Pseudeutreta*; and *Laksyetsa*, *Paracantha*, *Rachiptera* and *Strobelia* (Foote et al. 1993; Norrbom, pers. obs.). Freidberg &

Kaplan (1993) considered the relationships of the *Afreutreta* group to be uncertain and placed it within the Tephritini.

For the Noeetini the barbed shape of the aculeus tip is here considered a synapomorphy, although it is secondarily lost in one species of *Ensina*. The long, slender shape of the acrophallus of the distiphallus is a synapomorphy of the genera exclusive of *Ensina* (Korneyev & Norrbom, in prep.). All species of Noeetini whose biology is known breed in flowers of Lactuceae (Asteraceae).

History of Tephritid Classification

Species of Tephritidae were among the first flies described by Linnaeus (1758), Fabricius, and their contemporaries. Although the valid family name was not proposed until 1834 by Newman, fruit flies were recognized as a group as early as 1795 by Schrank (as "Bohrfliege") in his genus *Trupanea*, the earliest genus now placed in the Tephritidae.

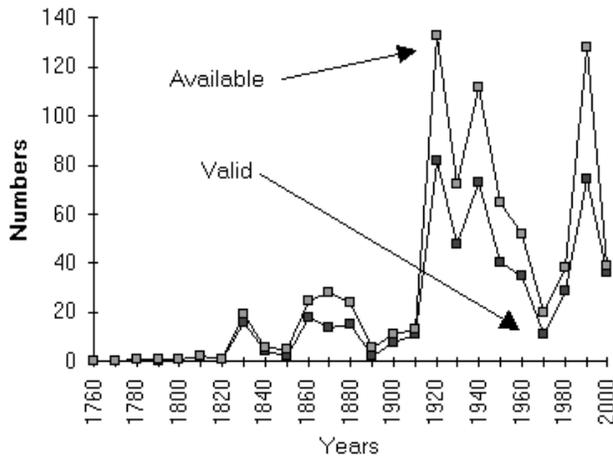


Fig. 1. Valid and total available genus-group names by decade.

The early dipterists such as Meigen, Fallén, Wiedemann, Robineau-Desvoidy and Walker all described additional species of fruit flies, but either included them in a single genus (e.g., Meigen 1826) or used generic concepts that today would mostly be considered polyphyletic and/or based on superficial characters. Although 36 fruit fly genera had been described by 1850, the basis of modern tephritid classification began with the work of Loew. In a series of papers between 1840 and 1873, he made great advances in detail of description as well as comprehensiveness of treatment. Most of the generic concepts of Loew (1862, 1873) survive today as modern genera or higher taxa.

Bezzi and Hendel are the most prominent of those who made further significant advances in fruit fly higher classification through the first third of this century. They named many of the larger and/or most distinctive family group taxa and produced important monographs and revisions that permitted advances by many others, particularly for the Palearctic (Hendel 1927), Neotropical (Hendel 1914), Afrotropical (Bezzi 1918[455], 1918[456], 1920 [463], and Oriental Regions (Bezzi 1913[448]). Hendel (1914[2102]) provided the only comprehensive world generic key for the Tephritidae, which unfortunately is now obsolete.

Hering (with publications dating 1927-1961) followed in the footsteps of Bezzi and Hendel and was the most prolific author of fruit fly names. Although he produced few revisions, his classification of 1947 was the basis for tephritid classification for the next 30 years.

Most of the post-Hering generation of tephritid specialists were more regional in their approach. Among the most prominent was Munro, who concentrated on the Afrotropical Region. His work on fruit flies actually began prior to Hering's, although his lengthy career extended much later. Hardy, whose work centered on the Oriental and Australasian Regions, Foote, the major Nearctic worker, and Aczél, who revised much of the Neotropical fauna before his premature death, were the

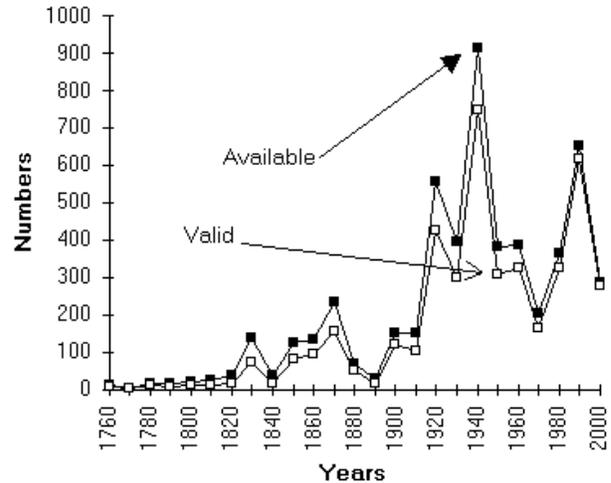


Fig. 2. Valid and total available species-group names by decade.

other most important contributors to tephritid classification up to the 1980s. They not only described numerous taxa, but produced revisions, monographs, keys, and catalogs that have greatly aided the progress of their successors. The regional specialization of these authors contributed to their great productivity at the alpha level, although it caused them to differ in their refinements of Hering's (1947) classification, especially concerning the ranking of many taxa. The differences in their classifications reflect true differences in the composition and diversity of the regional faunas, but also the superficiality and high degree of convergent evolution of some characters traditionally used in higher tephritid classification.

The last two decades have seen an increase in the study of fruit fly phylogenetic relationships and corresponding revision of the higher classification of the family by authors such as Drew, Freidberg, Norrbom, Han, and especially Korneyev and Hancock. More widespread use of genitalic characters since Munro, Lima, and others first demonstrated their usefulness for tephritid taxonomy, as well as more host data, increased knowledge about the immature stages, and molecular and other studies (e.g., Kandybina 1977, Han & McPherson 1994) also have considerably improved tephritid classification in the last twenty years.

Taxonomic activity in the Tephritidae over time is indicated in Figs. 1 and 2 and Tables 1 and 2. These show that there was a general increase from 1758 through 1950, with a slight decrease thereafter, in the rates of both generic and specific names proposed. The peak periods of activity were during 1840-1870, 1910-1960, and 1970-1990. The influence of certain individuals is obvious, as the first period coincides with the career of Loew, and the second with those of Bezzi, Hendel, Hering and Munro. The decades during which the most generic names were proposed were the 1910s, 1980s, and 1930s, whereas the most specific names were proposed in the 1930s, 1980s, and 1910s. The tables indicate that there was a general decrease, with considerable fluctuation, in the percentage of

Table 3. Taxonomists who proposed more than 20 species group names of Tephritidae.

Author	Species Group Names				Years	Span	species/year
	Total	Available	Valid	% Valid			
Hardy	482	464	437	94	1950-1996+	47+	9.3
Hering	563	539	421	78	1933-1961	29	14.5
Munro	478	447	406	91	1925-1984	60	6.8
Bezzi	417	391	310	79	1908-1928	21	14.8
Drew	296	292	286	98	1968-1996+	29+	9.9
Hendel	330	301	222	74	1903-1938	36	6.2
Hancock	162	162	161	99	1981-1995+	15+	10.7
Loew	214	204	145	71	1840-1873	34	4.2
Malloch	136	127	101	80	1926-1942	17	5.9
Walker	140	132	100	76	1835-1871	37	2.7
Shiraki	104	101	87	86	1933-1968	36	2.8
Ito	117	76	67	88	1947-1985	39	1.7
Chen, C. H.	82	78	66	85	1938-1963	26	2.5
Freidberg	65	63	61	97	1974-1994+	21+	2.9
Stone	66	64	59	92	1939-1947	9	6.6
Aczel	107	73	57	78	1939-1958	20	2.9
Lima	71	64	57	89	1918-1954	37	1.5
Wang	61	59	55	93	1988-1994+	7+	7.9
Coquillett	57	57	48	84	1894-1924	31	1.5
Zia	69	66	45	68	1936-1965	30	1.5
Foote	92	49	45	92	1958-1993	36	1.3
Wiedemann	52	50	44	88	1817-1830	14	3.1
Meijere	55	53	43	83	1904-1938	35	1.2
Enderlein	69	66	42	64	1911-1936	26	1.6
Wulp	56	52	42	81	1867-1900	34	1.2
Korneyev	49	46	43	93	1982-1996+	15+	2.9
Norrbon	47	42	42	100	1988-1996+	9+	4.7
Becker	66	54	37	69	1900-1922	23	1.6
Permkam	34	34	34	100	1995 +	1+	34.0
Macquart	67	63	33	52	1835-1855	21	1.6
May	39	39	30	77	1949-1967	19	1.6
Perkins	40	36	29	80	1934-1949	16	1.8
Steyskal	32	31	29	94	1972-1986	15	1.9
Curran	46	41	26	63	1923-1936	14	1.9
Richter	28	28	24	86	1963-1995+	33+	0.7
Dirbeck, J.	43	40	25	63	1966-1995+	30+	0.8
Blanchard, E. E.	41	27	21	78	1937-1965	28	0.8
Schiner	31	27	21	78	1858-1868	11	1.9
Seguy	25	24	21	88	1930-1941	12	1.8
Rondani	53	41	21	51	1856-1875	20	1.1
Fabricius	35	33	20	61	1775-1805	31	0.6
Robineau-Desvoidy	58	55	17	31	1830	1	17.0
Doane	21	21	16	76	1898-1899	2	8.0
Kapoor	21	21	14	67	1969-1989+	21+	0.7
Meigen	38	29	12	41	1826-1838	13	0.9
Fallen	33	28	10	36	1814-1826	13	0.8

Authors ordered by number of valid names. Total names = Available + Unavailable names. % Valid = Valid names divided by Available Names. + =currently active

Table 4. Genera and species of Tephritidae by zoogeographic region.

Region	Genera		Species		Species/Genus
	Valid	Native	Valid	Native	
World	471	471	4,257	4,257	9.0
Afrotropical	151	148	920	915	6.2
Australasian	144	136	762	747	5.5
Nearctic	60	59	358	341	5.8
Neotropical	68	66	717	714	10.8
Oriental	155	153	943	938	6.1
Palaearctic	126	123	827	820	6.7

World totals are not the sum of the regional totals as some genera and species occur in more than one region.

Table 5. Species of Tephritidae introduced by man.

Region	Source of Introduction						
	Intra-Regional	Interregional			Non-native species		
		Accidental	Intentional	Total	Accidental	Intentional	Total
Afrotropical	2	3		3	4	1	5
Australasian	3				7	7	14
Nearctic	2	3	2	5	8	9	17
Neotropical	1	3	4	7	3		3
Oriental	1	5		5	4	1	5
Palaearctic		6	9	15	6	1	7
Total	9*	20	15	35			

Only currently established species included. *3 of these species also introduced to other regions.

valid generic names described from Linnaeus until 1900, after which it stabilized at about 65%. The marked increase during the 1990s probably is inflated because of the lag time required for the taxonomic community to evaluate new generic concepts. The high initial values until 1830 presumably reflect the effect of priority or perhaps are an artifact of the low number of names proposed. Table 1 and Fig. 1 indicate that the decades when the highest numbers of genera were proposed (1860s, 1910s, and 1980s) have relatively low percentages of valid names.

The percentage of valid specific names decreased from 1758 to 1790, and stayed low (generally under 50%) until the middle of the nineteenth century, from which point it has gradually improved until the present period. This presumably reflects gradual improvement in methodology, such as development of the biological species concept and the trend toward revisionary work and publications that included keys, increased communication within the scientific community, and less concentration on the European fauna, although the high figures for the most recent decades may also be inflated by the lag time needed for discovery of synonymy. In tephritid species group names, there seems to be little correlation between the peak decades of productivity and the percentage of valid names.

Table 3 summarizes the contributions of the most prolific authors of tephritid species group names. Hering was the most

prolific and proposed the most available species names, followed by Hardy, Munro, Bezzi, Drew and Hendel, but he is second to Hardy in the number of valid species proposed, followed by Munro, Bezzi and Drew. Not counting Permkam and Robineau-Desvoidy, who published in single years, Bezzi had the highest rate of valid species per year, followed by Hering, Hancock, Drew and Hardy. Munro and Hardy had by far the longest spans of work on tephritid taxonomy (60 and 47 years, respectively).

The % Valid and Valid species/year statistics in Table 3 are merely gross estimates of the quality of each author's work and productivity. There are great differences among these authors regarding the percentage of their career devoted to Tephritidae taxonomy, as well as in the resources available to them. For example, Walker had a higher % Valid figure than Loew, although clearly the latter was a better taxonomist. Because Walker was among the first to work on non-European Diptera, his % Valid figure is inflated by priority, even though his descriptions and classification of tephritids were far inferior to Loew's. Bezzi's and Hendel's % Valid figures are low because of the many homonyms they proposed in nearly simultaneous or delayed publications.

FAUNISTICS

Faunal Statistics

We presently recognize 471 valid genera and 4,257 valid species or subspecies of Tephritidae, for an average size of 9.0 species per genus. The size distribution of the genera is distinctly skewed: 181 genera are monotypic, whereas seven genera (*Anastrepha*, *Bactrocera*, *Campiglossa*, *Dacus*, *Tephritis*, *Trupanea*, and *Urophora*) each contain more than 100 species. The five most economically important genera are also among the most speciose: *Bactrocera* (486 species), *Dacus* (235), *Anastrepha* (183), *Ceratitis* (70), and *Rhagoletis* (62).

Tephritid diversity in the major biogeographic regions is compared in Table 4. The following summary is based on the number of native genera and species, although the total number for each region (which includes introduced taxa) is not substantially different. Based on the described taxa, the Oriental Region appears to have the greatest fruit fly diversity in both genera and species, although the Afrotropical Region is a close second and may eventually prove to have more genera and species. In number of species, following the Oriental and Afrotropical Regions, are the Palearctic, Australasian, Neotropical and Nearctic Regions. The diversity of tephritid genera in these regions is similar, except that the Palearctic Region has fewer genera than the Australasian Region. The Nearctic fauna is by far the least diverse, in both genera and species, and the Neotropical Region is second least diverse, although it has as many species as the Australasian Region.

The great degree of regional endemism within the Tephritidae is striking. Most species are restricted to a single region. Only two species (*Tephritis angustipennis* & *Trypeta flaveola*) are thought to be truly Holarctic (the other 17 species are introduced, and originally not Holarctic), which reflects the strong decrease in fruit fly diversity with increasing latitude in the northern Palearctic and Nearctic Regions.

Introduced species.

At least 40 species of Tephritidae have been spread intentionally or accidentally by man beyond their natural ranges. The figures provided in Table 5 are undoubtedly underestimates; there are other widespread species that may have been spread by man, but we included only those for which there is strong historical or other evidence. The Australasian and Nearctic Regions have the most tephritid species introduced from other regions, both accidental and intentional. The Palearctic and Neotropical Regions have been the largest sources of species introduced to other regions for weed biocontrol, and the Palearctic and Oriental Regions have been the largest sources of species accidentally introduced to other parts of the world. No species have been intentionally established in other regions from the Oriental or Australasian Regions. Those regions have a relatively depauperate fauna of Tephritinae species, which predominantly breed in Asteraceae and have been the focus of most biocontrol efforts involving fruit flies. No species have been spread to other regions from the Australasian Region.

Species that have spread beyond their natural ranges or that have been released in other areas are listed below by genus in alphabetical order. Refer to White & Elson-Harris (1992) and Foote et al. (1993) for references if not stated below.

Acinia picturata, native to North and South America, was introduced for weed biocontrol to Hawaii and accidentally to several other Pacific islands.

Anastrepha fraterculus, a probable complex of species native to much of the Neotropics, was introduced but eradicated in Chile (Enkerlin et al. 1989), and also introduced to the Galapagos Islands (Harper et al. 1989). *A. ludens* was believed by Baker et al. (1944) to be native only to northeastern Mexico, and they considered its presence south to Costa Rica due to spread by man. An introduction to California was eradicated. *A. obliqua*, a widespread neotropical species, was established in southern Florida (Key West) from 1931-1937 (McAlister 1936), but there is no evidence of a breeding population being present since then (G.J. Steck, pers. comm.). It has been trapped in California, but is not established there. It was not introduced in Bermuda as once reported (Woodley & Hilburn 1994). *A. serpentina* and *A. striata*, which also are widespread neotropical species, have been trapped in California, but are not established there. *A. suspensa*, native to the Greater Antilles and the Bahamas, was introduced to Florida in 1965. An earlier introduction in the 1930's did not survive (Weems 1965[5044], 1966[5045]).

Bactrocera carambolae, native to the Oriental Region, was introduced in Surinam prior to 1975 and has spread to French Guiana and Guyana (Sauers-Muller 1991, Drew & Hancock 1994[1238], Food & Agriculture Organization 1994). *B. correcta* and *B. zonata*, native to the Oriental Region, have been trapped in California, but are not established there. *B. cucurbitae*, probably native to the Oriental Region, has been introduced to East Africa, Mauritius, the Ryukyu Islands of Japan, New Guinea and nearby islands, Guam and Hawaii (Munro 1984, Hooper & Drew 1989, Kakinohana 1994). Hardy & Foote (1989) also list northern Australia in its range, but it does not occur there (Drew 1982[1225], D.L. Hancock, pers. comm.). It has been eradicated from some islands of Japan (Koyama 1989[2773]), and has been trapped occasionally in California, but is not established there. *B. dorsalis*, also native to the Oriental Region, has been introduced to Hawaii and the Mariana Islands. It was eradicated from the Ryukyu Islands of Japan (Drew & Hancock 1994[1238]), and was introduced, but eradicated in California. It is not present in Australia as was once reported (Drew 1976, Drew & Hardy 1981). *B. frauenfeldi* has been introduced into northern Australia from New Guinea (Drew 1976, Hooper & Drew 1989). *B. latifrons*, native to the Oriental Region, was introduced into Hawaii (E.J. Harris 1989). *B. oleae* was considered by Munro (1984) to be native to Africa and spread to the Mediterranean area and Canary Islands with cultivated olives. It also now occurs in India and Pakistan. *B. papayae*, another native of the Oriental Region, has recently been introduced to Australia (Allwood 1995). *B. tryoni*, native to Australia, has been spread to New Guinea, New Caledonia, Austral Islands, and Society Islands. It has been eradicated from Easter Island and Western Australia (Hooper & Drew 1989, Fisher 1994), and it has been trapped in California, but is not established there. *B. zonata*, native to the Oriental Region, was introduced to Mauritius, although reports that it occurs on Reunion were based on misidentifications (D.L. Hancock, pers. comm.).

Ceratitella tomentosa, native to the Oriental Region, was released in Trinidad for weed biocontrol, but is not established.

Ceratitella malgassa was reported from Puerto Rico by Steyskal (1982), but it has not been found since then and apparently is not established. *C. capitata*, native to tropical Africa, is now one of the most widely distributed fruit flies. It is established in the Mediterranean area, southern Africa, various islands of the Atlantic and Indian Oceans, western Australia, Hawaii, Central America, and much of South America (Metcalf 1995). It was once widely established in eastern Australia, but has not been collected there since 1931 (Permkam & Hancock 1995). It has been introduced and eradicated in southern Mexico (Hendrichs et al. 1983), northern Chile, and the United States (various times in Florida, Texas, and northern California). It has also been eradicated from southern California several times, although a current infestation is being treated, and Carey (1991, 1995) considers the recent infestations to be the result of a single introduction (i.e., the recent eradications were not completely successful). The population in Bermuda is extirpated (Woodley & Hilburn 1994). Considerable recent molecular research has focused on differentiating the geographic populations of *C. capitata* and determining the pathways of its spread (McPherson et al. 1995).

Chaetorellia acrolophi and *C. australis*, native to the western Palearctic Region, have recently been successfully introduced to North America for weed biocontrol (Turner 1996[4857]). *Chaetorellia succinea* has been accidentally introduced to Oregon and California (E. Fisher, pers. comm.).

A specimen of *Craspedoxantha marginalis* was reported from Switzerland by Merz (1994), but this species does not appear to be established there (B. Merz, pers. comm.).

Dacus ciliatus, native to Africa, has been introduced to the Middle East, southern Asia east to Burma, and to Mauritius and Reunion.

Dacus longistylus, from Africa, has been reported from India, Pakistan and Sri Lanka (Kapoor 1993), but these records are probably all misidentifications of *D. persicus* (D.L. Hancock, pers. comm.). *D. bivittatus* was trapped in California in 1987, but is not established there.

Dioxya sororcula is a widespread species in the southern Palearctic, Afrotropical, Oriental and Australasian Regions. Its occurrence in Hawaii, and perhaps other parts of its range, appears to be the result of introduction. Hardy (1988[1965]) and Foote et al. (1993) incorrectly considered *D. picciola* to be a synonym, and *D. sororcula* does not occur in the Americas.

Dirioxa pornia, which occurs in Australia and New Caledonia, also has been reported from New Zealand, Vanuatu, American Samoa, Fiji, and the Society Islands, but probably based only on erroneous interception records (Permkam & Hancock 1995[3795]).

Ensina sonchi, a widespread Palearctic species, has been introduced to tropical Asia, Ethiopia, and Hawaii. Steyskal (1970) reported it from Peru based on his synonymy of other *Ensina* species with *sonchi*, but the others appear to be distinct, and *sonchi* does not occur in the Americas (Norrbom, pers. obs.).

Euaresia aequalis was successfully introduced from North America to Australia for weed biocontrol. It also was released, but not established, in Fiji. *E. bella*, native to North America,

was released in eastern Europe for weed biocontrol, but is not established (Turner 1996[4857]). *E. bullans* was accidentally introduced from South America to the United States (California), South Africa, Australia, Europe, and the Middle East. It is now among the most widespread tephritid species.

Eutreta xanthochaeta, native to Mexico and Central America, was successfully introduced to Hawaii for weed biocontrol, and was released but did not establish in Australia and South Africa (Freidberg & Mansell 1995, Turner 1996[4857]).

Procecidochares alani and *P. utilis*, native to Mexico, were successfully introduced to Hawaii and Australia for weed biocontrol. *P. utilis* was also introduced to India, Nepal, New Zealand, South Africa and China (Zhang et al. 1988, Kapoor 1993, Freidberg & Mansell 1995, Turner 1996), and it has also been released in Madeira.

Rhagoletis completa and *R. cingulata* (misidentified as *indifferens*, Norrbom, pers. obs.) have recently been introduced from North America to Italy and Switzerland (Merz 1991[3338], Duso 1991, Ciampolini & Trematerra 1992, Mani et al. 1994), whereas *R. meigenii*, from the Palearctic Region, was introduced to northeastern North America prior to 1977 (Norrbom, pers. obs.). *R. completa* and *R. pomonella*, another native of North America, extended their ranges to the west coast of the United States (Boyce 1929[583], Brunner 1987). *R. conversa*, native to Chile, has been reported from Easter Island, but it may not be established.

Tephritis dilacerata, a Palearctic species, has been released in North America for weed biocontrol, but is not established. *T. postica*, also a Palearctic species, has been released recently in Australia (Turner 1996[4857]).

Terellia fuscicornis and *T. ruficauda*, both native to the Palearctic Region, were introduced to North America, the former only very recently (in California) (J. Schweikert, pers. comm.). *T. virens*, also from the Palearctic Region, was recently successfully introduced to North America for weed biocontrol (Turner 1996[4857]).

Tetrearesia obscuripennis, native to the neotropics, was introduced for weed biocontrol in Hawaii and Fiji. It also now occurs on Tonga.

Toxotrypana curvicauda, a widespread neotropical species, was introduced and established in the United States (Florida) about 1905. A record from India is doubtful (Kapoor 1993).

The following species of *Urophora* are all native to the Palearctic Region. *Urophora affinis*, *U. cardui*, *U. quadrifasciata*, *U. sirunaseva*, *U. solstitialis*, and *U. stylata* have been introduced to North America for weed biocontrol (Turner et al. 1994, Turner 1996[4857], Wheeler & Stoops 1996, P. Tipping, pers. comm.). *U. solstitialis* also has been introduced to Australia and New Zealand for weed biocontrol (Woodburn 1993, Turner 1996[4857]), and *U. stylata* has also been reported from India (Kapoor 1993). *U. jaceana* was accidentally introduced to eastern Canada in 1923 (Shewell 1961), and *U. jaculata* was released in California for weed biocontrol, but is not established. *U. cardui* was released in New Zealand, and *U. stylata* in South Africa and Australia, but neither is established (Freidberg & Mansell 1995, Turner 1996[4857]). *U. quadrifasciata* and *U. stylata* were reported as accidentally introduced

to Australia (Hardy & Foote 1989, White & Elson-Harris 1992), but according to Hardy & Drew (1996) and D.L. Hancock (pers. comm.), these species are not established.

Xanthaciura connexionis, a nearly circum-Caribbean species, was released in Hawaii for weed biocontrol, but is not established.

Extinctions and changes in abundance

There are no documented cases of any species of Tephritidae recently becoming extinct. However, our knowledge of the distribution and biology of most species is too poor to detect fluctuations or abrupt declines in their population levels. Many species are still known only from limited series or even single specimens.

Eurosta lateralis, which appears to be restricted to coastal habitats in Florida that have been greatly reduced in extent by development may be an “endangered” tephritid (G.J. Steck & B. Sutton, pers. comm.).

A marked decrease in abundance of *Ceratitis capitata* occurred in Hawaii after the establishment of *Bactrocera dorsalis*, probably as a result of interspecific competition, and a decline of *Urophora quadrifasciata* apparently occurred in Canada due to increase of *U. affinis*, but these are all introduced species (Fitt 1989).

Some species that breed in weedy species of Asteraceae (e.g., *Eurosta solidaginis* in North America) have undoubtedly increased in abundance as the extent of disturbed habitat favored by their hosts has increased, although there is no documentation of this event. Schmidt et al. (1994) discussed the species that have colonized the volcanic island Anak Krakatau.

Fossils

The fossil Diptera have been recently cataloged by Evenhuis (1994). The earliest fossils recorded for the Tephritoidea are Pallopteridae and Richardiidae from the Eocene or Oligocene, and Piophilidae and Ulidiidae (=Otitidae) from the Oligocene. This, and the fact that none of the families of Tephritoidea appear to have a Gondwanan distribution, indicate that this superfamily probably evolved and radiated after the Cretaceous.

Eight tephritid fossils are known: five from Eurasia, two from Africa, and one from the Dominican Republic. The earliest known and best preserved fossil is that of *Protortalotrypeta grimaldii*, from Dominican amber (late Oligocene or early Miocene) (Norrbon 1994[3662]). It is the only known fossil of Ortalotrypini. There are two Miocene tephritid fossils from Eurasia. *Tephritis antiqua*, from the lower Miocene of Croatia (Radoboj), has a wing pattern similar to some European *Rhagoletis* species (Heer 1849), but was identified only to the level of Trypetini or Carpomyini by Korneyev (1982[2707]). *Pseudacidia clotho* Korneyev (1982[2707]), from the northern Caucasus, also apparently belongs in the Trypetini or Carpomyini. Two African fossils (one inseparable from the extant species *Ceratitis rosa*, and one possibly a species of *Trirhithrum*), from Tanzanian amber or copal, may be from the Pleistocene (Freidberg 1991). They are the only fossil Dacini. A *Euphranta* sp. (Adramini) has been reported from the Pleistocene of Italy (Handlirsch 1921: 268). *Oxynepluvia* Durrenfeldt (1968), from the upper Pliocene of Willershausen, Germany, would be the only fossil Tephritinae if

correctly classified, but its placement ought to be reevaluated based on a reexamination of the specimen. From its photo (Taf. 6, Fig. 4), it appears, at least superficially, more like a Pallopteridae or even Lauxaniidae in wing shape and pattern. One additional fossil, identified only as Tephritidae sp., is known from the Mizunami amber (copal, Quarternary) of Japan (Saigusa 1974). Records of “Trypetidae” from Eocene western United States probably all are based on the fossil family Eophlebomyiidae (Norrbon 1994[3662]).

Zoogeography

Very little has been published on the zoogeography of the Tephritidae, and because the phylogenetic relationships among the higher taxa and within most genera are still poorly understood, such analysis is difficult.

Freidberg (1984) analyzed the zoogeography of gall-forming Tephritidae, and Norrbom (1994[3662]) that of the Ortalotrypini. The zoogeography of some Dacina was discussed by Drew (1975, 1989[1231]), Nishida (1963), Agarwal (1986), and Michaux (1996), and Bush (1966[683]) analyzed that of *Rhagoletis*, especially the Nearctic species. The distribution of *Anastrepha* was briefly treated by Norrbom & Foote (1989) and Maddison & Bartlett (1989), and Hernández-Ortiz (1992, 1993[2242]) discussed the distribution patterns of the Mexican species. Merz (1994) discussed the distributions of most European tephritid species, Dirlbek & Dirlbek (1972) those of the Balkan fauna, and Kapoor, Agarwal & Grewal (1977) and Kapoor (1993) those of the Tephritidae of India. Kugler & Freidberg (1976) analyzed the zoogeographical relationships and composition of the Israeli fauna, and Hernández-Ortiz (1996) analyzed the composition of the Mexican fauna. Michaux (1996) used two subgenera of *Bactrocera* in an analysis of Indonesian biogeography, and McAlpine (1982) included a few fruit fly genera in his discussion of the biogeography of the acalyprate flies of New Guinea. Maddison & Bartlett (1989) analyzed the zoogeography of several genera on a world basis, however, some of these taxa as then delimited (e.g., *Myoleja*, *Tephritis*) subsequently have been shown to be polyphyletic.

Of the possible sister groups of the Tephritidae, the Platystomatidae are most diverse in the Palearctic, and the Tachiniscidae occur only in the Neotropical and Afrotropical Regions, whereas the Pyrgotidae are diverse in all of the tropical regions. Aczél (in Hardy 1957) suggested that the Tephritidae and Pyrgotidae arose from common ancestors in the Australasian Region.

The Tephritidae probably originated in the Palearctic in post-Gondwanan times, based on the diversity of higher-level taxa, especially of the Phytalmiinae, in that part of the world. Various authors, including Aczél (in Hardy (1957)), Hardy (1957), Hancock (1986[1890]), and Norrbom (1994[3662]), have suggested that the majority of tephritid higher groups originated there, or at least in the Old World, and only some have dispersed to the Americas. Ignoring introduced species, the following taxa are restricted to the Afrotropical, Oriental, and Australasian Regions: Phytalmiinae (except a few species that occur in the Palearctic Region, and the Blepharoneurini, which occur in the Neotropical, Afrotropical, and eastern Palearctic and Oriental Regions), Adramini (except for a few

Palaearctic species and two Nearctic species of *Euphranta*), Dacini (except for a few Palaearctic species), Rivelliomimini, Schistopterini (except a few species that occur in the Palaearctic Region), and Tephrellini (except for some Palaearctic species). The Trypetini are most diverse in the Palaearctic and Oriental Regions, but some genera occur in the other regions, including the Nearctic and Neotropical.

The Toxotrypanini are restricted to the Americas, and the Ortalotrypetini, Carpomyina, and the Blepharoneurini appear to have originated there and later dispersed into the Old World, based on their centers of diversity and/or the distributions of their basalmost lineages. At least some Tephritidae were present in the Western Hemisphere by the late Oligocene or early Miocene. Bush (1966[683]) suggested that *Rhagoletis* was in the Americas by the Miocene, based on knowledge of the phytogeography of its host plants, and, based on fossil evidence, the Ortalotrypetini were also present by this time (Norrbom 1994[3662]). Bush (1966[683]) suggested the importance in the evolution of the Tephritidae of the Miocene or earlier break in the distribution of southerly elements of the Eocene geoflora. Some taxa such as the Dacini, which never reached the Americas, or the Adramini, which apparently did so only recently, may have originated after the break in the tropical Eocene flora.

Freidberg (1984) found that gall-forming Tephritidae, most of which belong to the subfamily Tephritinae, are largely restricted to the Holarctic Region or temperate, higher altitude areas of the Afrotropical and Neotropical Regions. This seems true of the majority of Tephritinae, with the exception of the Tephrellini and Schistopterini, which are mostly paleotropical, and the Acrotaeniini, which are neotropical. The paucity of Tephritinae species in the Oriental and Australasian Regions suggests a northern origin for this subfamily. Maddison & Bartlett (1989) suggested that *Tephritis* "seems to be an 'old' genus, with elements which show a Gondwanalike, and others a Tethyan distribution," but the large Palaearctic component of the genus was omitted from their analysis, and the South American species then included have since been removed; *Tephritis* probably originated in the northern hemisphere. Maddison & Bartlett (1989) also pointed out the interesting disjunct distribution of *Dioxyna*. Another tephritine genus with an interesting distribution is *Ensina*, which except for one widespread species, is restricted to the Andes Mountains of South America and the eastern Atlantic islands of Madeira, the Canary Islands, and the Azores. *Neotephritis*, assuming it is monophyletic, also has a disjunct distribution, occurring only in Hawaii and the Americas. *Trupanea* and *Campiglossa* are probably the most cosmopolitan genera of Tephritidae.

BIOSYSTEMATICS

Diagnosis

The shape of the subcosta (bent sharply forward subapically and usually weaker or foldlike beyond the bend) has generally been considered the best diagnostic character for adult fruit flies, but its form varies and in some taxa, especially many with elongate wings, it is not as sharply bent (e.g., *Toxotrypana*, many Phytalmiini). Some Platytephritinae (Platystomatidae), various Pyrgotidae, and a few other species

of Tephritoidea also have a similarly shaped, strongly bent subcosta, although these lack distinct frontal bristles, which within the Tephritoidea are present only in Tephritidae, Tachiniscidae and some Ulidiidae.

Although the above characters will distinguish most adult tephritids from most other flies, the following list of characters is more reliable for their diagnosis: Length 1 to 35 mm. Body variously colored but nonmetallic (except several metallic blue *Trirhithrum* and Adramini spp. from Madagascar (D.L. Hancock, pers. comm.)). Frons with both inclinate frontal bristles (sometimes reduced or absent in wasp mimics such as *Monacrostichus*, *Pseudophorellia*, or *Toxotrypana*) and 1-2 (rarely 3) orbital bristles; ocelli present; anepisternum with vertical suture on posterior third (difficult to see in densely microtrichose species); anepimeron with at least one seta medially and with greater ampulla well developed; wing usually patterned; costa with humeral and subcostal breaks; subcosta bent sharply forward subapically and usually weaker or foldlike beyond the bend (except some Phytalmiini); vein R₁ densely setulose dorsally almost to base; cell bcu usually with at least a small posteroapical extension due to bend in vein Cu₂ (except in Myopitini and a few other taxa); female with ovipositor of piercing type, including a strongly sclerotized aculeus that telescopes into fused sytergosternite 7; and male with correspondingly long, coiled aedeagus, stored between genitalia and tergite 5 at rest and bearing a stout apical distiphallus (absent in some *Anastrepha*).

No diagnoses or keys have been produced to distinguish tephritid eggs from those of other families of Diptera. They are 0.35-1.65 mm long, white to pale brown, elongate-oval to pedicellate, often slightly curved, and smooth to rugose-textured. The anterior, apical to subapical micropyle is usually noticeable (Ferrar 1987). Some species have a slender lobe, sometimes extremely elongate, on the micropyle end. Tephritid eggs have a well-developed chorionic respiratory system with aeropyles confined to the anterior pole, and lack a plastron (Hinton 1981). Hatching lines are absent, hatching being accomplished by the rasping of the larval mandibles and by the pressure of the larva turning within the egg.

Fruit fly larvae and puparia are typically muscomorph and are recognized by the lack of a sclerotized peritreme surrounding the posterior spiracles, which are not elevated off the surface of the caudal segment (B.A. Foote 1991). Ferrar (1987) provided descriptions of these stages. The larvae are white to yellow, seldom with darker caudal or ventral areas. In most species they are elongate cylindrical, but in gall and flower-breeding taxa they may be stout and subspherical. They are metapneustic as first instars and amphipneustic as second and third instars. Rudiments of spiracles on the intervening segments are evidently generally present (Headrick & Goeden 1991, 1993, Goeden & Headrick 1992, Carroll 1992), but have not been proven functional. First instars of all fruit fly species, and all instars of the species of *Myopites* so far studied, have only two posterior spiracular slits (Freidberg 1980[1552]). In other third instars (and puparia), the three posterior spiracular slits are straight, and they are oriented radially from the ecdysial scar, subparallel to perpendicular to one another. In frugivorous species the angle between the dorsal and ventral slits is usually no more than 90 degrees (B.A. Foote 1991), but it is greater in

Table 6. Number of species of Tephritidae for which some immature stages have been described.

Region	Adults		Immatures	
	Genera	Species	Genera (%)	Species (%)
Afrotropical	151	920	20 (13.2)	35 (3.8)
Australasian	144	762	3 (2.1)	20 (2.6)
Nearctic	60	358	30 (50.0)	80 (22.3)
Neotropical	68	717	9 (13.2)	31 (4.3)
Oriental	155	943	4 (2.6)	12 (1.3)
Palaearctic	126	827	39 (31.0)	109 (13.2)
World	471	4,257	91 (19.3)	291 (6.8)

Numbers for immatures based on 1992 data

some species of Tephritinae. The anterior spiracles are sessile or nearly so, and usually fan-shaped or bimodal, with 2-53 papillae (Ferrar 1987). The cephalopharyngeal skeletons of all species so far described are typically muscomorph, with right and left mandibles equally developed, and sometimes with 1-2 subapical teeth persisting into the third instar (as far as known, subapical teeth are always well-developed in earlier instars). Fruit fly puparia are usually barrel-shaped, but rarely are bean-shaped or have a flattened caudal segment. They may be smooth or wrinkled, with distinct or unclear segmentation. They range in color from white to yellow, brown or black, and their color may vary from the anterior to the posterior end.

Morphology & Terminology

McAlpine (1981) proposed a morphological terminology for adult Diptera that is standardized with that of other insects and is well illustrated. Proposed modifications to this terminology or more specific applications of it to the Tephritidae include Steyskal (1984), Norrbom & Kim (1988[3666]), Freidberg & Mathis (1986), White (1988), White & Elson-Harris (1992) and Foote et al. (1993). White & Elson-Harris (1992) provided an extensive glossary. Extensive discussions and/or illustrations of morphological terminology were also included by Hendel (1927[2109]; Hering and Ito used this terminology), Shiraki (1933), Munro (1947, 1984), Foote (1980), Freidberg & Kugler (1989), Kapoor (1993; includes most terms used by Hardy) and Merz (1994[3343]). Some additional useful references on tephritid adult morphology include: general -Aczél (1955[28], May (1963[3232]), Zaka-ur-Rab (1971), Valdez-Carrasco & Prado-Beltran (1991); digestive system - Dean (1933), Kobayashi (1934), Zaka-ur-Rab (1971); antenna - Giannakakis & Fletcher (1985), Vasey & Ritter (1987), Dickens et al. (1988), Bigiani et al. (1989), Crnjar et al. (1989, 1989), Mayo et al. (1987); compound eye - Agee et al. (1977), Davis et al. (1983); head -Nayar (1961[3567]); integument - Evans (1967[1358]); mouthparts - Driscoll & Condon (1994); musculature and internal anatomy - Zaka-ur-Rab (1971), Berube & Zacharuk (1983[429]), Valdez-Carrasco & Prado-Beltran (1991); nervous system -Kobayashi (1934), Zaka-ur-Rab (1971); reproductive systems and genitalia -Kobayashi (1934), Dean (1935), Hanna (1938), Drew (1969), Zaka-ur-Rab (1971), Dodson (1978[1193]), Korneyev (1979, 1985[2715]), Zacharuk et al. (1986), Stoffolano & Yin (1987), Norrbom &

Kim (1988[3666]), Williamson (1989), Eberhard & Pereira (1993), De Carlo et al. (1994); and thorax - Nayar (1962), Verma (1985).

Freidberg & Kugler (1989) defined various types of tephritid wing patterns, and terminologies for the parts of various banded patterns were proposed by Lima (1934[2954]) and Stone (1942[4674]) for *Anastrepha*, Bush (1966[683]), Steyskal (1979), Foote (1981), and Freidberg & Hancock (1989) for *Rhagoletis*, *Cryptophorellia* and *Urophora*, which are similar in wing pattern, Munro (1984) for the *Dacina*, Freidberg (1991) for *Ceratitis*, and Freidberg & Kaplan (1992) for the *Oedaspidina*. White & Elson-Harris (1992) used standardized terms for similar bands in several economic genera.

Terminology for the larvae of Diptera was recently reviewed by Teskey (1981, 1991), and White & Elson-Harris (1992) provided an extensive glossary of morphological terms for larval Tephritidae. Phillips (1946) summarized previous terminologies for the cephalopharyngeal skeleton and presented a terminology for the caudal segment. Carroll & Wharton (1989) proposed a terminology for specific sensilla. Terminology for sense organs of the head is confusing; four different systems have been used in the Tephritidae. That of Teskey (1981), following Weismann (1864), has been the most common and was used by Efflatoun (1927), Kandybina (1977), Steck & Wharton (1986, 1988), Steck & Malavasi (1988), Carroll & Wharton (1989), Carroll (1992) and White & Elson-Harris (1992). The other terminologies include: Snodgrass (1924), used by Phillips (1946) and Exley (1955); Bolwig (1946), used by Headrick, Goeden and coauthors (e.g., Goeden & Headrick (1990)); and Snodgrass (1953), used by Novak & Foote (1968, 1975, 1980) and Steck (1984).

Detailed, comprehensive anatomical studies of tephritid larvae include Snodgrass (1924), Knell & Stoffolano (1973), Zaka-ur-Rab (1978[5283], 1978[5284], cephalopharyngeal musculature, tracheal system), Dean (1932, alimentary canal, 1942, reproductive system), Bates (1934[351], peristigmal gland cells), and Butt (1937) and Jones & Kim (1988) (posterior stigmatic apparatus).

Taxonomic Knowledge of Immature Stages

In spite of the economic importance of Tephritidae, the immature stages (eggs, larvae, puparia) are poorly known. The figures in the classification table are overestimated, as many of

the descriptions that were included are inadequate for species recognition.

Immature stages of approximately 7% of the species and 17% of the genera of Tephritidae have been described (usually only for the third instar larva), with most of this work having been done for the Nearctic and Palearctic Regions (Table 6). However, many of these descriptions are not comparative and do not give sufficient detail to be useful for identification purposes. Knowledge of the immature stages of even the five most important economic genera is limited: *Anastrepha* (10% described), *Bactrocera* (9%), *Ceratitis* (13%), *Dacus* (4%), *Rhagoletis* (51%). The immature stages of the Phyltalmiinae are the least studied; only four species of Acanthonevrini have had some larval description. In the Trypetinae, no immature stages of Gastrozonina, Ortalotrypetini, nor Rivelliomimini have been described, whereas at least some representatives of all of the tribes of Tephritinae have been studied. Among the best studied groups are the Carpomyina, Tephritini, and Terelliini, not surprisingly, as these groups are well represented in the Holarctic Region.

Eggs

The eggs of Tephritidae are poorly known. The only keys are to four species of *Anastrepha* (Emmart 1933), to *Ceratitis capitata* and two species of *Bactrocera* (Hardy 1949), and to two species of *Icterica* (B.A. Foote 1967). Margaritis (1985), Mouzaki & Margaritis (1987, 1991), and Mouzaki et al. (1991) described the ultrastructure of the eggs of *Bactrocera oleae*, *Ceratitis capitata* and *Rhagoletis cerasi*. Some species of *Aciurina*, *Anastrepha*, *Chaetorellia*, *Craspedoxantha*, *Paracantha* and *Rhagoletis* have a long slender lobe on the micropyle end, but this appears to be a highly convergent character as the lobe is known to be lacking in other species of all of these genera except *Craspedoxantha* and *Paracantha* (Tauber & Tauber 1967, Freidberg 1985, Norrbom & Foote 1989, White & Marquardt 1989, Headrick & Goeden 1990[2054], 1993, Frias et al. 1993). Some other works dealing with tephritid eggs include: Varley (1937), Dirlbeck (1970), Tauber & Toschi (1965[4766]), Janzon (1982), Norrbom (1985), Ferrar (1987), Headrick & Goeden 1991, Murillo & Jiron (1994), Goeden & Headrick (1992), Goeden et al. (1993, 1994) and Headrick et al. (1995).

Larvae

Few larval keys with broad coverage exist, for example, Phillips (1946, Nearctic Region), Exley (1955, Australian Dacina), Steck et al. (1990, *Anastrepha*), and Greene (1929), Kandybina (1977), Berg (1979) and White & Elson-Harris (1992) (economic species). Although he did not include a generic key, Ferrar (1987) provided useful tables for some characters and reproduced numerous illustrations from other works. Other important taxonomic works on tephritid larvae include: Banks (1912), Silvestri (1913), Efflatoun (1927), Benjamin (1934), Varley (1937), and Hardy (1949).

Recent studies utilizing scanning electron microscopy have revealed useful characters not easily visible by other methods (Janzon 1980, 1984, 1985[2464], 1985[2466], Belcari 1989[390,391], Elson-Harris 1988, Goeden & Headrick 1990, 1991[1737], 1991[1736], 1992, Headrick & Goeden

1990[2054], 1991, Steck et al. 1990, Carroll 1992). White & Elson-Harris (1992) included SEM figures of third instars of 33 species in six genera.

Early instar larvae have been described for species in the genera *Aciurina*, *Anastrepha*, *Bactrocera*, *Ceratitis*, *Dacus*, *Euaresta*, *Euleia*, *Eurosta*, *Icterica*, *Neaspilota*, *Paracantha*, *Paroxyna*, *Procecidochares*, *Rhagoletis*, *Stenopa*, *Tephritis*, *Terellia*, *Trupanea*, *Urophora*, and *Xyphosia* (Ferrar 1987, Elson-Harris 1988, Carroll & Wharton 1989, Headrick & Goeden 1990[2054], 1991, 1993, Goeden & Headrick 1992, Frias et al. 1993, Goeden et al. 1993, Headrick et al. 1995).

Puparia

As in other cyclorrhaphous Diptera, puparia of Tephritidae are formed from the integument of the third instar, and thus retain some larval characters useful for identification (e.g., cephalopharyngeal skeleton, anterior spiracular digits), while others may be lost or distorted (e.g., facial mask, posterior spiracular hairs, spination patterns). In addition, puparial color, shape and texture can be useful in discriminating species; they are usually barrel-shaped, but rarely are glossy and bean-shaped (*Acinia*, *Sphenella*), or have a flattened or sclerotized caudal segment (Munro 1925, Benjamin 1934, White 1988); there are caudal lobes or spines present in some *Terellia* species and some neotropical species of *Urophora* (Steyskal 1979[4647]; White 1988; Norrbom, pers. obs.). Keys for puparia include those of Greene (1929) for *Anastrepha*, *Ceratitis* and *Bactrocera*, Yamada et al. (1963) for *Bactrocera* and *Ceratitis*, B.A. Foote (1967) for *Icterica*, Menon et al. (1968) for *Bactrocera* and *Dacus*, and White (1988) for several genera.

Non-morphological methodologies

Cytogenetics

In terms of genetics, *Ceratitis capitata* is by far the most studied species of Tephritidae, although data on other species (primarily several pest species) is rapidly increasing (Robinson & Zacharopoulou 1996). Numerous genes have been mapped on *C. capitata*'s chromosomes and mitochondrial DNA (Rossler et al. 1994, McPheron et al. 1994, Steck et al. 1996).

Polytene chromosomes have been reported from salivary gland, mid- and hind-gut, fat body, Malpighian tubule, and trichogen cells of tephritid species. Some have been described or illustrated for *Anastrepha fraterculus* (Cruz et al. 1994), five species of *Bactrocera* (Frizzi & Springhetti 1953, Krimbas 1963, Grewal & Kapoor 1986[1809], Mavragani et al. 1992), *Ceratitis capitata* (Bedo 1986, Zacharopoulou et al. 1991), two species of *Oedaspis* (Bush 1966[682]), *Procecidochares utilis* (Bush & Taylor 1969), and *Urophora cardui* (Mainx 1976). They are present in *Rhagoletis* but are fragile and have not been described (Bush & Boller 1977).

Genetic markers have been reported in *Anastrepha fraterculus* (Steck & Sheppard 1993), *Bactrocera cucurbitae* and *dorsalis* (McCombs & Saul 1996, McCombs et al. 1996), and *Ceratitis capitata* (Rossler 1989[4224], Gasparich et al. 1995), including some in the latter species that are useful to diagnose geographic populations (Sheppard et al. 1992, McPheron et al. 1994, Haymer & McInnis 1994).

Frias (1992[1597]) provided a list of the diploid number and type of sex chromosomes of most of the approximately 70 species of Tephritidae whose karyotypes have been studied.

Drew & Hardy (1981), Grewal & Kapoor (1986[1809]), Mainx (1976), Ponisch & Brandl (1992), Liang & Liang (1993), Hunwattanukul & Baimai (1994), and Morgante et al. (1996) described those of additional species. Most Tephritidae studied to date have a diploid number of 12 ($n=6$), although several species have eight, nine, ten or 14 chromosomes. Within the family, there is considerable karyotypic variation in centromere position, secondary constrictions, and chromosome size (Solferini & Morgante 1987).

The sex determination system in *Ceratitis capitata* has been reviewed by Lifschitz & Cladera (1989). Maleness is determined by a small segment of the Y chromosome near the centromere. In most other tephritids that have been studied, sex determination systems have been described based on chromosome morphology only (Berlocher 1993). Male heterogamety is common in Trypetinae (13 spp. of *Anastrepha*, 5 spp. of *Bactrocera*, *Ceratitis capitata*, 10 spp. of *Rhagoletis*, and 2 spp. of *Zonosemata*) (Frias 1992[1597], Grewal & Kapoor 1986[1809]). Of these species, *Anastrepha bistrigata*, *A. serpentina* and *Rhagoletis striatella* males have been reported as X_1X_2Y , whereas *R. meigenii* may be X_0 . Two species of *Anastrepha* and 14 species of *Rhagoletis* have been reported to have isomorphic sex chromosomes, although most of the *Rhagoletis* are probably male heterogametic except for *R. suavis*, which is probably female heterogametic (Berlocher 1993).

Female heterogamety has been reported in some Tephritinae (a total of 11 species of *Cecidocharella*, *Oedaspis*, *Procecidochares*, *Rachiptera*, *Acinia*, *Hyalopeza*, *Parahyalopeza*, and *Tephritis*), whereas *Tephritis arnicae* has been reported to have a male XO sex determination system (Bush 1966[682], Frias 1992[1597]). *Myopites inulaedysentericae* has heteromorphic sex chromosomes, but in which sex this occurs has not been determined (Ponisch & Brandl 1992). Six species of *Urophora* and a total of six species of *Dyseuaresta*, *Trupanea*, and *Trypanaresta* are reported to have isomorphic sex chromosomes (Mainx 1976, Frias 1992[1597], Ponisch & Brandl 1992).

Biochemical and molecular studies

Various types of biochemical and molecular analyses involving fruit flies have been conducted, but most were limited to certain pest species for applied purposes. Most of these data thus have limited systematic significance at this time. Some studies have attempted to analyze phylogenetic relationships or to discriminate taxa using biochemical characters.

Isozyme electrophoresis has been the biochemical technique most commonly used on tephritids. *Rhagoletis* is the most extensively investigated genus (Berlocher 1980, Berlocher & Bush 1982, Berlocher et al. 1993, Payne & Berlocher 1995[3769]), and a key and phylogenies have been proposed based on allozyme data. Gasperi et al. (1991) and Kourti et al. (1992) analyzed the geographic isozyme variability of *Ceratitis capitata* and its significance regarding the dispersion of this species. At least some isozymes have been studied in 17 species of *Anastrepha*, including *A. fraterculus*, which is probably a complex of several cryptic species (Morgante et al. 1980, 1996, Matioli et al. 1986, Steck 1991, Stefani & Morgante 1996), and in 13 species of *Bactrocera* (McKechnie 1975, Drew & Hardy 1981, Yong 1988, 1990[5250], 1992[5254], 1993, 1995, Zouros & Loukas 1989, Ooi 1991, Dadour et al. 1992, Drew &

Hancock 1994[1238], Ochando et al. 1994), nine species of *Blepharoneura* (Condon & Steck, in press), *Capparimyia savastani* and two species of *Ceratitis* (Gasperi et al. 1987, Malacrida et al. 1991, Kourti et al. 1992), *Chaetostomella undosa* (Steck 1981), four species of *Euaresta* (Berlocher 1984[410]), *Eurosta solidaginis* (Waring et al. 1990), six species of *Neaspilota* (Steck 1981), *Oxyna parietina* (Eber et al. 1992), *Paraterellia immaculata* (Steck 1981), *Tephritis bardanae* (Eber et al. 1991), four species of *Terellia* (Steck 1981, Muller-Scharer et al. 1991), *Trirhithrum coffeae* (Malacrida et al. 1991), and *Urophora cardui* (Eber & Brandl 1994).

Simon (1969) used serological techniques to analyze *Rhagoletis pomonella* host races and *R. mendax*, and Kitto (1983) and Sarma et al. (1987) used immunological techniques to compare alpha-glycerophosphate dehydrogenase in 16 species in 12 genera of Tephritidae, but there have been no subsequent studies of fruit flies using these methods.

DNA research is a rapidly developing area in the study of Tephritidae as for many other insect groups. Han & McPheron (1994, 1997) and McPheron & Han (1997) studied two DNA segments; they partially sequenced the nuclear 18S ribosomal gene of 26 species of fruit flies in 21 genera and the mitochondrial 16S ribosomal RNA gene in 50 species in 28 genera. Other sequences of nuclear and/or mitochondrial DNA have been studied in *Anastrepha suspensa* and *fraterculus*, seven species of *Bactrocera*, *Ceratitis capitata*, two species of *Eurosta*, and several species of *Rhagoletis* (Haymer et al. 1990, Anleitner & Haymer 1992, Soto-Adames et al. 1994, He & Haymer 1994, Steck & Sheppard 1993, Gasparich et al. 1995, McPheron et al. 1995, Frommer et al. 1996, White 1996, Brown et al. 1996, Hoeben et al. 1996). Haymer et al. (1994) developed DNA probes that can be used to distinguish *Ceratitis capitata*, *Bactrocera cucurbitae* and *B. dorsalis*.

Cuticular hydrocarbons have been analyzed in eight species of *Anastrepha*, two species of *Ceratitis*, and four species of *Bactrocera*, and have proven useful to discriminate adults and larvae of these taxa, except among some of the *Anastrepha* species (Carlson & Yocum 1986, Goh et al. 1993, Sutton & Carlson 1993, Sutton & Steck 1994).

Male sex pheromones have been identified, at least partially, for two species of *Anastrepha* (Nation 1975, 1989), nine species of *Bactrocera* (Koyama 1989[2772], Mazomenos 1989, Perkins et al. 1990), *Ceratitis capitata* (Jones 1989[2523], Heath et al. 1991), and *Toxotrypana curvicauda* (Chuman et al. 1987), but there is evidence for their presence in other species and genera. The diverse composition of the pheromones of the few species studied thus far allows little generalization. Evidence for host-marking pheromones has been reported in ten *Rhagoletis* species, two *Anastrepha*, *Capparimyia savastani*, *Ceratitis capitata*, *Paraceratitella eurycephala*, and *Tephritis bardanae*, but the pheromones have been identified only in *Rhagoletis cerasi* (Averill & Prokopy 1989[247], Straw 1989[4692], Freidberg 1990).

Response to certain chemical attractants, such as cue lure, methyl eugenol, or trimedlure, has been considered taxonomically useful in the *Dacina* and *Ceratitidina* (Hancock 1987, Drew 1989[232]).

Other Studies

Males of at least three genera of fruit flies (*Anastrepha*, *Toxotrypana*, and *Bactrocera*) fan their wings to disperse pheromones. This activity also produces sounds that may be involved in attracting and courting females (Webb et al. 1984, Sivinski & Webb 1985[4490]), although the sound production may be coincidental (I.M. White, pers. comm.). Mankin et al. (1996) compared the sounds of several species of *Anastrepha*, and Drew & Hardy (1981) reported slight differences of uncertain significance in sound recordings of males of two species of *Bactrocera*.

Cryptic species and host races

Numerous cryptic (or sibling) species of Tephritidae have been recognized, and many more probably exist. Some examples include the *Rhagoletis pomonella* species group (Berlocher et al. 1993, Payne & Berlocher 1995[3769]), the *R. nova* species group (Frias 1992[1596]), *R. electromorpha* and *tabellaria* (Berlocher 1984[411]), *Aciurina bigeloviae* and *trixa* (Dodson & George 1986), *Euaresia bellula* and *stelligera* (Berlocher 1984[410]), the *Chaetorellia jaceae* species group (White & Marquardt 1989), the incompletely resolved *Anastrepha fraterculus* complex (Solferini & Morgante 1987, Steck 1991), and various species within the *Bactrocera dorsalis* complex (Drew & Hancock 1994[1238]). The complex of "biotypes" of *Tephritis conura* discussed by Zwölfer (1988) seems to be another example of cryptic species.

Host races, or partially reproductively isolated populations associated with particular hosts (see Bush 1993), have been documented in *Rhagoletis pomonella* (Bush 1993), *R. conversa* (Frias 1992[1596]), and *Eurosta solidaginis* (Abrahamson et al. 1994, Craig et al. 1994, Brown et al. 1996). The *R. cerasi* complex includes unidirectionally incompatible geographic races (Boller 1989[552]).

Bush and collaborators have studied the *Rhagoletis pomonella* group in great detail as a model of host race formation leading to sympatric speciation. Much of their work is discussed by Bush (1993; also see Feder 1995, Feder et al. 1995).

Biology

Fruit fly biology is an extensive topic. Details on many aspects may be found in publications such as Christenson & Foote (1960), Bateman (1972), Boller & Prokopy (1976), Prokopy (1977[3910]), Zwölfer (1983), Cavalloro (1983, 1986, 1989), Freidberg (1984), Mangel et al. (1986), Economopoulos (1987), Fletcher (1987), Robinson & Hooper (1989[4150], 1989[4151]), Vijaysegaran & Ibrahim (1991), Aluja & Liedo (1993), Aluja (1994), Piedade-Guerreiro (1994), Calkins, Klansen & Liedo (1994), and McPherson & Steck (1996).

The tephritid life cycle includes the following stages: egg, three larval instars, pupa (formed inside the hardened third stage larval cuticle, or puparium), and adult. Species may be uni- or multivoltine. Carey (1989) reviewed demographic analysis of fruit flies. In some species, the adult lifespan may be as brief as one or two weeks (Steck 1981), but in others females are capable of surviving for long periods (e.g., up to 12 months in *Anastrepha ludens* (Shaw et al. 1967)). Diapause is common, and in some species of *Rhagoletis* it may last two or more years (Christenson & Foote 1960).

Behavior

Tephritids exhibit a wide array of interesting and sometimes spectacular behaviors in many aspects of their life, both as adults and larvae: in their dispersal, feeding, and oviposition behaviors, but especially in their courtship and mating. Landolt & Quilici (1996) provided a brief review. Temporal aspects of fruit fly behavior were reviewed by P.H. Smith (1989).

Tephritid larvae live in and feed on various plant tissues, depending on the species. They may be single or gregarious, and resource partitioning is common among different species utilizing the same flower head of an Asteraceae species (Zwölfer 1983, 1988, Headrick & Goeden 1990[2056]). Species of Tephritinae that breed in Asteraceae (about 1/3 of all species) often have stout, spherical or subspherical maggots, apparently selected for their minimal need for movement. Such maggots usually pupate within the plant. Other tephritid larvae may move relatively long distances, first inside the plant tissues and then outside the plant, which they leave in order to pupate in the soil. In many frugivorous and florivorous species (e.g., many Dacina, Ceratitidina, Adramini and *Blepharoneura*), the larvae can jump several centimeters or more at a time (Fletcher 1987, M.A. Condon, pers. comm.).

Adults of many species, especially those that are univoltine and/or narrowly host specific, may spend most of their life on one plant or adjacent plants of the same species. Other species, especially those that are polyphagous, may have dispersive phases and may fly distances as great as tens or hundreds of kilometers, as in the case of some species of *Anastrepha* and *Bactrocera* (Christenson & Foote 1960, Fletcher 1989[1462]). Some multivoltine species of Tephritinae migrate with the seasons to a series of hosts at different altitudes in California (Goeden et al. 1987, Headrick & Goeden 1991). Larvae of a species of *Blepharoneura* are dispersed by frugivorous bats that carry their host fruits (Condon & Norrbom 1994). Tephritid foraging and host finding behaviors were reviewed by Prokopy & Roitberg (1989) and Katsoyanos (1989).

Feeding behavior, especially in nature, is a poorly understood aspect of tephritid biology (Hendrichs & Prokopy 1994). Adult nutritional requirements vary, largely depending upon the quality of the larval food (Tsitsipis 1989), and usually include at least carbohydrates and water, although some gall-forming species do not feed at all (Steck 1981, Freidberg & Kugler 1989). Many species also need amino acids, sterols, vitamins, and minerals to reproduce (Aluja 1994, Hendrichs & Prokopy 1994). In some species, including many that feed in galls or on seeds, females are proovigenic, i.e. they emerge with mature eggs and do not require protein for egg development, whereas in other species protein is needed for this purpose (synovigeny) and for optimal development of male salivary glands and pheromone production (Steck 1981, Landolt 1984, Hendrichs & Reyes 1987, Aluja 1994). Adults may feed on plant exudates, including those from oviposition holes or rotting fruit, bird feces, nectar, honeydew, and leachates, microorganisms, pollen and other matter on plant surfaces or in rain drops (Christenson & Foote 1960, Tsitsipis 1989, Hendrichs & Prokopy 1994). Microorganisms may play a role in the nourishment of some frugivorous species (Fletcher 1987, Howard 1989, Drew & Lloyd 1989). Adults of *Blepharoneura* (and probably *Baryglossa* and *Hexaptilona*, which have simi-

larly modified labella) are unusual in being able to rasp and feed on plant tissues (Driscoll & Condon 1994, Condon & Norrbom 1994). In many fruit flies, both males and females have a pre-mating development period of a week or more during which they do not mate (Steck 1981, Landolt 1984, Williamson 1989).

The appearance of some Tephritidae (e.g., *Toxotrypana*, some *Anastrepha*, some *Pseudophorellia*, various *Adramini* and *Dacina*) strongly suggests that they are wasp mimics, and at least in *T. curvicauda* this is reinforced by behavior (Knab & Yothers 1914). Other fruit flies with banded wings and/or spotted abdomens may be jumping spider mimics (Hasson 1995).

Many fruit flies mate on their host plants, but mating tactics vary, even within some species. Lek formation by males, usually on nonhosts, has been observed in *Ceratitis capitata* and species of *Dacina*, *Anastrepha*, *Rhagoletis*, and *Procecidochares* (Prokopy & Hendrichs 1979, Dodson 1986, Sivinski & Burk 1989, Aluja 1994). Males of most species of Tephritidae that have been studied secrete some type of sex-attractant chemical, either by inflating the lateral abdominal membranes or by extruding an anal pouch (Pritchard 1967, Headrick & Goeden 1994). They disperse these pheromones by wing fanning, which also produces sounds of possible significance in courtship (Sivinski & Webb 1985[4490], Mankin et al. 1996). Males of many species of *Bactrocera* and *Dacus* have specialized structures, including a tibial pad, a microtrichose area of the wing, and a row of setae on the abdomen called the pecten, which are used for pheromone dispersal (I.M. White, pers. comm.). The pecten has been proposed as a stridulatory organ (Monro 1953, Kanmiya 1988). In *Anastrepha robusta*, the calling behavior includes short looping flights (Aluja 1993[107]). Visual stimuli, as well as chemical and auditory stimuli, play an important role in communication between and among the sexes and with other insects. The body, which is often brightly colored, and the wings, which are usually patterned and are often held or moved in particular ways, no doubt act as releasers. Males of some species engage in antagonistic displays or bouts (Boyce 1934, Landolt & Hendrichs 1983, Headrick & Goeden 1994), including species of *Phytalmia* which have large genal processes used in these bouts (Moulds 1977). Mate-guarding and male defense of food resources attractive to females also have been reported (Hendrichs & Reyes 1987, Headrick & Goeden 1994, Opp et al. 1996).

Courtship can be elaborate in some species, or simple and brief in others. Headrick & Goeden (1994) defined 14 movements or behaviors that commonly occur in courtship, which may include various types of body, leg, and wing movements, and/or transfer of a "nuptial gift" (trophallaxis). The latter behavior has been observed in diverse taxa, including species of *Dirioxa* (Acanthonevrini), *Anastrepha* (Toxotrypanini), and various genera of Tephritinae (Freidberg 1986, Aluja, Jacome et al. 1993, Headrick & Goeden 1994). The gift may be passed before or after copulation, and it may consist of liquid transferred by direct contact of the mouthparts (Freidberg 1982[1557], Aluja, Jacome et al. 1993) or may be a solidified froth deposited on the substrate (Stoltzfus & Foote 1965, Pritchard 1967, Novak & Foote 1975, Freidberg 1981[1555], Jenkins 1990). Copulation is determined by female choice

(Headrick & Goeden 1994) and may last from several minutes to several hours or more.

Oviposition behavior appears to be much more uniform than epigamic behavior and consists of the following stages: a) movement towards and arrival at the oviposition site; b) testing the site; c) drilling with the ovipositor; and d) oviposition. In the case of *Anastrepha grandis*, which lays a large batch of eggs in a tough, thick-skinned fruit, this process may last many hours (Silva 1991). Species in five genera have been reported to deposit a marking pheromone that deters oviposition by other females (Prokopy et al. 1976, Averill & Prokopy 1989[247], Straw 1989[4692]). This involves the female dragging her aculeus over the substrate, secreting and smearing the pheromone. In the case of *Rhagoletis cerasi*, the pheromone has been identified, synthesized, and used in orchards to combat damage to cherries (Aluja & Boller 1992).

Host plants

Most species of Tephritidae whose biologies are known are phytophagous. Host range varies considerably, often among closely related species (Norrbon & Kim 1988[15085], Goeden 1992, 1993, 1994). Many species are strictly monophagous, for example, *Bactrocera oleae*, which breeds only in olives, but some pest species are remarkably polyphagous, for example, *Ceratitis capitata*, which has been reported from more than 300 hosts (Liquido et al. 1991). Probably the majority of Tephritidae, however, are oligophagous, breeding in a few related or ecologically and chemically similar hosts. *Toxotrypana* species, for example, breed in similar, latex-bearing, thick skinned fruits of Caricaceae and Asclepiadaceae, two plant families that are not closely related. Even many of the polyphagous pest species, although able to breed in many hosts, have preferences for certain plant families or genera (Hernández-Ortiz & Aluja 1994). Host races are known in at least two genera (see "Cryptic species and host races").

Although phytophagy is the predominant mode of feeding in the Tephritidae, some Phytalmiini and Acanthonevrini are saprophagous. A few species have been reared from rotting fruit, decomposing tree trunks, or from under bark of live trees (Munro 1967[3521], Hardy 1986[1962], Dodson & Daniels 1988, Permkam & Hancock 1995[3795]). *Termitorioxia termitoxena* has been reared from termite colonies (Hill 1921), and species of *Acanthonevra* breed in decaying bamboo shoots (Hancock & Drew 1995[1902]). Saprophagy, which is predominant in the Platystomitidae and Ulidiidae, could be the primitive feeding habit for the Tephritidae.

Although tephritids are commonly known as fruit flies, a variety of host parts and tissues are attacked, including fruits (pulp and/or seeds), flowers, stems, buds, leaves, and roots. In phytophagous species, females deposit eggs in healthy plant tissue, where the larvae feed, sometimes causing gall formation. Fruits and flowers (of diverse plant families) are the plant parts most commonly attacked, but many Trypetini are leaf or stem miners, and some Gastrozonina and Acanthonevrini breed in bamboo shoots (Hardy 1986[1962], 1988[1964], Hancock & Drew 1995[1902]). The members of the subfamily Tephritinae have specialized in attacking Asteraceae and a few other families (Acanthaceae, Goodeniaceae, Lamiaceae, Verbenaceae). They breed in the flower heads or form galls, although the type and stage of flower tissue attacked varies (Zwölfer 1988,

Headrick & Goeden 1990[2056]), and galls of varying form and complexity may be produced on stems or roots, in flowers, or rarely on leaves (Freidberg 1984). The larva of species of *Rachiptera* and *Strobelia* secretes a liquid that forms a globular protective structure outside of its gall (Aljaro et al. 1984). Some species of *Tephritis* and *Campiglossa misella* have alternate gall-forming or stem-mining and flower-feeding generations (White 1988, Jenkins & Turner 1989, Goeden 1993), and *Trupanea conjuncta* is a facultative gall-former (Goeden 1987[1719]).

A few species that have life histories atypical for Tephritidae include: Two species of *Parastenopa* that mine galls of other insects (Aczél 1955[29]); and *Chetostoma stackelbergi* and *Euphranta toxoneura*, which live in sawfly galls, at least in the case of *E. toxoneura*, as a predator of the sawfly larva (Kopelke 1984, 1985, Aartsen 1992). Congeners of *E. toxoneura* are phytophagous, so its mode of feeding is clearly secondary.

There is no comprehensive analysis of fruit fly host relationships. Freidberg (1984) reviewed the gall forming taxa, and Straw (1989[4694]) analyzed the relationship between feeding strategies and flower size in some Palearctic Tephritinae. D. Futuyma (in prep.) is analyzing patterns of host usage in the Asteraceae by the Tephritinae.

There is no worldwide list of tephritid host plants other than that of White & Elson-Harris (1992) for species of economic importance, although Ferrar (1987) provided a useful list of species and references. Liquido et al. (1991) listed the reported hosts of *Ceratitis capitata*. On a regional basis, Wasbauer (1972) listed the hosts for the species of the Nearctic Region north of Mexico, and Foote et al. (1993) included most of the more recent records. For the Palearctic Region, the only comprehensive list, by Hendel (1927[2109]), is obsolete, but together the lists in Neuenschwander & Freidberg (1983, Crete), White (1988, British spp.), Merz (1994[3343], Swiss spp.), and Freidberg & Kugler (1989, Israeli spp.) cover most of the western part of the region. There are no comprehensive host lists for the other zoogeographic regions. For the Afrotropical Region, the papers by Munro include numerous host data. Munro (1947) includes a host index for many Tephritinae, and Munro (1984) includes a host list for the Dacina of the region. For the Australian Region, the hosts of the Dacina were listed by Drew (1989[232]), those of the Phylalmyiinae, Ceratitidina, and most other non-Dacine Trypetinae of Australia were listed by Permkam & Hancock (1995[3794], 1995[3795]), and the most known hosts of the Tephritinae of Australia were included in Hardy & Drew (1996). For the Neotropical Region, host data for *Rhagoletis* and *Anastrepha* have been compiled (Foote 1981, Norrbom & Kim 1988[15085]), and known host plants for the Brazilian and Chilean tephritid species were listed by Silva et al. (1968[4449]) and Frias (1992[1597]), respectively. For the Oriental Region, Kapoor (1993) listed the hosts of the Indian species, and Hardy (1973, 1974[1943]) provided host indices for the species of Thailand and the Philippines. Numerous additional records are scattered through the literature, although many require careful evaluation.

Parasites and predators

Many groups of organisms have been reported to attack Tephritidae, but the records are widely scattered in the literature and, except for some pest fruit fly species, there are few lists or review publications concerning tephritid natural enemies. The brief summary provided here is not intended to be comprehensive.

Bateman (1972), Prokopy (1977[3910]) and Debouzie (1989) provided general reviews of tephritid natural enemies. Narayanan & Chawla (1962) and Herting & Simmonds (1978) provided world lists of tephritid parasites and predators, and White & Elson-Harris (1992) provided references concerning the parasitoids (mostly Hymenoptera) of the 100 most economically important species of Tephritidae. Wharton (1989[5091]) listed parasite species used in biological control. For America north of Mexico, Krombein et al. (1979) included records of fruit flies as Hymenoptera hosts, and many references to parasites are indicated in the species synonymies in Foote et al. (1993). Kapoor (1993) listed the known parasitoids of Indian fruit fly species. Hoffmeister (1992) discussed the structure of parasitoid complexes on five European fruit fly species, and Zwölfer & Arnold-Rinehart (1993) discussed the *Urophora-Eurytoma* complexes on European thistles. Hawkins (1988) compared parasitism rates on gall-forming and other tephritids. More than 130 other publications concerning fruit fly parasites are listed in the Bibliography.

Goeden & Benjamin (1985) and Hedstrom (1994[2083]) reported records of *Stigmatomyces* fungus species known to attack Tephritidae, and Laboulbeniales species have been found on abdomens of various fruit flies (B. Merz, pers. comm.). A virus is known to attack *Bactrocera tryoni* (Sivinski 1996). Drew & Allwood (1985) described a species of Strepsiptera that parasitizes ten species of *Bactrocera*. Nematodes have been used for control of several tephritid species (Sivinski 1996), but naturally occurring attacks have not been reported.

Common larval and pupal predators include Formicidae, predaceous wasps, Dermaptera, Staphylinidae, Carabidae, Coccinellidae, Chrysopidae, Pentatomidae, Coreidae, mites, crickets and myriapods (Back & Pemberton 1918[275], Willard 1927, Monteith 1972, Bateman 1972, Boller & Prokopy 1976, Chaudhary et al. 1983, Condon 1984, Bigler et al. 1986, Fletcher 1987, Wong & Wong 1988, Thomas 1995, Sivinski 1996). Drew (1987[1227]) suggested that frugivorous rodents caused the highest mortality in two species of *Bactrocera*, and Condon (1984) and Thomas (1993) reported predation by rodents on *Blepharoneura* and *Anastrepha* immatures. A mordellid beetle and birds attack the immatures of *Eurosta solidaginis* in their galls (Abrahamson et al. 1994). A cecidomyiid is an egg predator of *Bactrocera oleae* (Neuenschwander et al. 1983). Spiders, wasps, ants, birds, toads and gekkos are reported predators of adults (Willard 1927, Araya 1954, Steiner et al. 1970, Fletcher 1987, Hendrichs et al. 1994, Condon & Norrbom 1994, Sivinski 1996).

Future Research Priorities

White (1989[5104], 1991, 1996) has reviewed recent progress in fruit fly systematics. Although much has been accomplished, much more remains to be done in terms of basic

research and dissemination of systematic information on tephritids. Some of the major needs are discussed here.

Classification - Rigorous cladistic analyses of the phylogenetic relationships among the genera of Tephritidae, based on morphology and molecules, are badly needed. Many higher taxa remain poorly defined, including: Phyalmiinae, Trypetinae, Ceratitidina, Gastrozonina, Dythrycini, Eutretini, and Tephritini. Relationships among the genera within most tephritid taxa have yet to be analyzed, and numerous genera are still listed as *Incertae Sedis*.

Revisionary studies and monographic references - Publications such as White & Marquardt (1989), Han (1992), and Drew & Hancock (1994[1238]) demonstrate the significance of a comprehensive revisionary approach for solving difficult taxonomic groups. Despite considerable advances in the alpha level taxonomy of some of the most economically important genera and in the faunas of some regions, the majority of world fruit fly species remain poorly known or undescribed. Monographs such as Freidberg & Kugler (1989) and Foote et al. (1993) are needed for most areas, especially in the tropical regions. They stimulate research by providing a base line of current knowledge.

Regional generic keys are available for the Nearctic and Neotropical Regions, and one is in progress for the Palearctic Region (Freidberg & White, in prep.). They are needed for the others regions as well, because they spur further research by providing a starting point.

Cryptic species - The detailed analyses that have revealed the existence of tephritid species complexes (see Cryptic species and host races) suggest that many other tephritid "morphospecies" are likely to be complexes of cryptic species.

Immature stages - Despite the efforts of Kandybina, Elson-Harris, Carroll, and Headrick & Goeden, the immature stages are described for only a small percentage of tephritid species. The lack of properly preserved larval specimens for study has been a major obstacle in this area.

Technology transfer - The use of new methods to improve the dissemination of taxonomic knowledge, such as expert systems and computer databases, will be critical if the shrinking pool of taxonomic manpower is to meet the growing needs of users for biosystematic information. The expert system and database on the enclosed CD-ROM indicate the merits of such technology. White & Hancock (in prep.) have nearly completed an expert system for the Dacina, but similar systems for all species of the other economically important genera are needed. In the database area, the major need remaining for the Tephritidae is a thorough compilation and review of their host plant data.

ECONOMICS

Most Important Pests

Because of the phytophagous habits of their larvae, many species of Tephritidae inflict heavy losses on fruit and vegetable crops. Economic effects of pest species include not only direct loss of yield and increased control costs, but also the loss of export markets and/or the cost of constructing and maintaining fruit treatment and eradication facilities. In many countries, the exportation of most commercial fruits is severely restricted

by quarantine laws to prevent the spread of fruit fly species. The cost of living with an established infestation of *Ceratitis capitata* or several other major fruit fly pests in California has been estimated at hundreds of millions of dollars annually (Jackson & Lee 1985, Dowell & Wange 1986).

White & Elson-Harris (1992) assessed the pest status and the known host and distribution data for the 100 most economically important species of Tephritidae. They also listed an additional 150 species that have been associated with any economically important plant. Reviews of fruit fly pest status by region are found in Robinson & Hooper (1989[4150], Chapters 2.1-2.8), and Yang et al. (1994[5228]) provided a subsequent review for China.

Most pest species of Tephritidae attack fruits, and the great majority of them belong to the genera *Anastrepha*, *Ceratitis*, *Bactrocera*, *Dacus* and *Rhagoletis*. The hosts of these flies belong to a wide variety of families of plants, and include many major commercial crops.

The genus *Bactrocera* is the most economically significant genus, with about 40 species considered to be important pests (White & Elson-Harris 1992). Many of them are highly polyphagous. *Bactrocera* is native to the Old World tropics, and most of the major pests are from the Oriental and Australasian Regions. The Oriental fruit fly (*B. dorsalis*) and several closely related species recently revised by Drew & Hancock (1994[232]), the melon fly (*B. cucurbitae*), the olive fruit fly (*B. oleae*), the Queensland fruit fly (*B. tryoni*), and the peach fruit fly (*B. zonata*) are among the most important species.

Anastrepha is the most economically important genus in the Neotropics. White & Elson-Harris (1992) listed 15 species as significant pests and 28 others that have been reported to attack economically important plants. The worst pest species are the Mexican fruit fly (*A. ludens*), the West Indian fruit fly (*A. obliqua*), and the South American fruit fly (*A. fraterculus* complex).

Rhagoletis includes species in the Holarctic and Neotropical Regions, 17 of which were listed as pests by White & Elson-Harris (1992). The most serious are the apple maggot (*R. pomonella*), the European and eastern cherry fruit flies (*R. cerasi* and *cingulata*), the blueberry maggot (*R. mendax*), the walnut husk fly (*R. completa*), *R. striatella*, a pest of husk tomato, and *R. tomatis*, a pest of tomato.

Ceratitis species, about ten of which are listed as pests by White & Elson-Harris (1992), are mostly restricted to Africa, except for the Mediterranean fruit fly (*C. capitata*), which has spread to many tropical and subtropical parts of the world. The med fly is by far the most notorious pest species in the genus, and it is one of the most polyphagous and widespread species of Tephritidae (Liquido et al. 1991).

Dacus is also a mostly Afrotropical genus, although a few species occur in other parts of the Paleotropics and subtropics. White & Elson-Harris (1992) listed 11 species as pests, mainly on Cucurbitaceae, the most important species being the pumpkin fly (*D. bivittatus*) and the lesser pumpkin fly (*D. ciliatus*).

A few additional fruit pest species are found in the genera *Carpomya*, *Euphranta*, *Monacrostichus*, *Neoceratitis*, *Toxotrypana*, and *Zonosemata*. Several leaf- or stem-mining species of Tephritidae, particularly in the genera *Euleia*, *Pliore-*

ocepta, *Zacerata*, and *Strauzia*, also cause economic losses, and a variety of species of Tephritinae damage seeds of commercial species of Asteraceae, such as sunflower and safflower.

Most Important Beneficials

Although fruit flies are commonly thought of as pests, some species are valuable agents for the biological control of weeds (Bess & Haramoto 1972, White & Clement 1987, P. Harris 1989[2011], White & Elson-Harris 1992, Turner 1996[4857]). Most species that have been used or tested for biocontrol belong to the subfamily Tephritinae and attack plants of the family Asteraceae. White & Elson-Harris (1992) and Turner (1996[4857]) provided the most comprehensive lists of species released or considered as biocontrol agents. The most successful cases of control are summarized below from White & Elson-Harris (1992). Also see the “Introduced species” section for a list of additional species released for biocontrol.

Eutreta xanthochaeta (lantana gall fly) together with other agents has achieved partial to substantial control of *Lantana camara* L. in Hawaii. It was released in Australia and South Africa but did not establish.

Procecidochares alani has controlled *Ageratina riparia* (Regel) R. King & H. Robinson in some areas of Hawaii. *P. utilis* also was introduced there for control of *Ageratina adenophora* (Sprengel) R. King & H. Robinson. It has been ineffective in wet areas, but has controlled the weed in dry zones. It also was released in Australia, New Zealand, South Africa and Madeira, and has been established in India, Nepal and China, although it has not controlled its host there.

In western North America, *Urophora affinis* and *U. quadrifasciata* have reduced seed production in *Centaurea diffusa* Lam. and *C. maculosa* Lamarck, and *U. stylata* has reduced seed production in *Cirsium vulgare* (Savi) Tenore. Six other species of Tephritidae have been established in North America as weed biocontrol agents, but in most cases it is too early to evaluate their effect on the target weeds.

Environmental Effects

Pesticide spraying (especially Malathion-baits) for the eradication of some pest fruit fly species has raised environmental concerns about its impact on both humans and nontarget organisms (Troetschler 1983, Ehler et al. 1984, Daane et al. 1990, Segawa 1991, Ehler & Kinsey 1991, Asquith & Kido 1994, Beehler et al. 1995).

RESOURCES

Literature

The literature on the nomenclature, taxonomy and systematics of Tephritidae has been compiled in the bibliography of this publication. The major revisions, regional monographs or handbooks, and many other important taxonomic works are discussed in the following section, and revisions and keys at the generic or lower level are listed in the “References” section under each genus or subgenus in the database. The bibliography also includes many papers dealing with other aspects of tephritid biology. Compilation of the data on fruit fly host plants, parasites, and other associated organisms is badly needed.

Major regional and revisionary works

Taxonomic catalogs have been completed for the Tephritidae of each of the major biogeographic regions within the last 32 years, although some already are outdated: Afrotropical Region — Cogan & Munro (1980); Australasian Region - Hardy & Foote (1989); Nearctic Region (except Mexico) — Foote (1965[1502]); Neotropical Region (plus northern Mexico) — Foote (1967[1508]); Oriental Region — Hardy (1977); and Palearctic Region — Foote (1984[1517]). Important predecessors of these works include the catalogs or lists of Schiner (1863), Becker (1905), Bezzi (1913), Wulp (1896), Aldrich (1905), Hendel (1914[2103]) and Aczél (1950, 1952[19]).

The only world key to the genera of Tephritidae, by Hendel (1914[2102]), is badly outdated. White & Elson-Harris (1992) provided keys to adults and larvae of genera and species of greatest economic importance. The most recent keys to the fruit fly genera of the various regions may be found in the following publications:

Afrotropical Region — The only comprehensive keys, by Bezzi (1924[470], 1924[469], 1924[472]), are largely outdated. More recent generic keys are available for most higher taxa, including the Phytalminiinae, Adramini, Rivelliomini and Trypetini (Hancock 1986[1890], 1991[1895]), Ceratitidina (Hancock 1987), Gastrozonina (Hancock 1985[1889]), Tephrellini (Munro 1947, Hancock 1990), and some genera of Tephritini (Munro 1957[3511], Freidberg 1987). Munro (1984) revised the Dacina, and Freidberg & Kaplan (1992), the Oedaspidina.

Australasian Region — There is no comprehensive generic key. Most genera found in New Guinea and the Bismarck and Solomon Islands have been revised by Hardy (1983[1958], 1985, 1986[1961], 1986[1962], 1987, 1988[1964], 1988[1965]), and Hardy & Adachi (1956) and Hardy & Delfinado (1980) revised the Tephritidae of Micronesia and Hawaii, respectively. Drew (1989[232]) revised the Dacina of the region, and McAlpine & Schneider (1978) revised some genera of Phytalmini. Hardy & Drew (1996) revised the Tephritinae of Australia, and Permkam & Hancock (1995[3794], 1995[3795]) revised the Australian species of Phytalminiinae, Ceratitidina, and non-dacine Trypetinae.

Nearctic Region — Foote & Steyskal (1987) and Foote et al. (1993) provided keys for the genera, and the genera and species, respectively, of the United States and Canada. The few genera from the Nearctic part of Mexico not covered by them can be identified with the key of Foote (1980).

Neotropical Region — Foote (1980) provided a key to the genera south of the United States.

Oriental Region — No comprehensive generic key is available, but the keys in the following monographs of more restricted areas are useful: southern China (Zia 1937), Indonesia (Hardy 1982[1952], 1983[1956], 1983[1958], 1985, 1986[1961], 1986[1962], 1987, 1988[1964], 1988[1965]), India (Kapoor 1993), Philippines (Hardy 1974[1943]), Ryukyu Islands of Japan (Shiraki 1968, Ito 1983-1985), Taiwan (Shiraki 1933, Munro 1935[3476], 1935[3477]), and Thailand (Hardy 1973).

Palearctic Region — The only comprehensive monograph, by Hendel (1927[2109]), is largely outdated, but a new generic key for the region is being completed (Freidberg & White, in

prep.). There are also keys for the faunas of the following more restricted areas: Britain (White 1988), northern China (Zia & Chen 1938), central Europe (Merz 1994[3343]), eastern Europe (Richter 1970), Israel (Freidberg & Kugler 1989), Japan (Ito 1983-1985), and Korea (Kwon 1985).

Revisions, monographs and keys are listed in the References section ("REFS") under each family group and genus group taxon in the database. Because of the unstable higher classification of the Tephritidae, users should be forewarned that many keys to genera or higher groups may be less reliable than regional or local keys that do not strictly follow a classification. The following publications include keys to genera of higher taxa of Tephritidae:

Keys to subfamilies and tribes have been provided by Hering (1947), Aczél (1953[24]), Hardy (1973, 1974[1943]), Foote (1980), Ito (1983), Kwon (1985), Hancock (1986[1890]), Freidberg & Kugler (1989), White (1988), and Merz (1994[3343]). Most of them conflict in classification and are difficult to use.

Phyalmiinae — There is no comprehensive generic key.

Acanthonevrini — Most Oriental and Australasian genera were included in one or more of the following works: Hardy (1973, 1974[1943], 1980[1949], 1986[1962], 1988), Kapoor (1993), and Permkam & Hancock 1995[3795]. The Afrotropical genera were included under Trypetinae in the key of Hancock (1986[1890]), and the key to the species of four Afrotropical genera by Munro (1967[3521]) is also useful.

Blepharoneurini — The four genera have never been keyed as a group.

Epacrocerini — Three of the genera were revised by Hardy (1982[1954]), and all four were included in the key of Hardy (1988[1964]).

Phascini — The six genera were included under Acanthonevrina and Gastrozonina by Hardy (1986[1962], 1988[1964]).

Phyalmiini — There is no comprehensive generic key. McAlpine & Schneider (1978) keyed four of the genera. Some genera have been keyed and/or revised under Adramini or Gastrozonina by Hardy (1986[1961], 1988[1964]).

Trypetinae — The genera of the USA and Canada are included in the key of Foote et al. (1993), and those of the Neotropical Region and Nearctic Mexico were keyed by Foote (1980). The Afrotropical genera, except the Dacini, were keyed by Hancock (1986[1890], 1991[1895]). Many Palearctic genera were keyed by Hendel (1927[2109]), and others were included in keys to local areas listed above under that region. Most Oriental and Australasian genera were included in keys by Hardy (1973, 1974[1943], 1987[1963], 1988[1964]), Kapoor (1993), Permkam & Hancock (1995[3794], 1995[3795]), and Shiraki (1933, 1968).

Adramini — There is no comprehensive generic key. Many, but not all, of the Oriental and Australasian genera were included in keys by Hardy (1973, 1974, 1983[1958], 1986[1961]), Kapoor (1993), and Permkam & Hancock 1995[3795]), and the Afrotropical genera were keyed by Hancock (1986[1890]).

Carpomyini — There is no key strictly to the genera of this group, although they are included in various regional or local

keys. Norrbom (1994[3663]) provided a key to four American genera of Carpomyina.

Dacini — All three genera of Dacini were included in the key to economically important genera of White & Elson-Harris (1992). Munro (1984) revised the Afrotropical species, although most of his proposed generic and suprageneric names have not been accepted. Drew (1989[232]) keyed the genera, subgenera and species of the Australasian Region. For the Oriental Region, most species are included in one or more of the following works: Hardy (1973, 1974[1943], 1982[1952], 1983[1956]), Wang & Zhao (1989), Tseng, Chen & Chu (1992), Kapoor (1993), and Drew & Hancock (1994[1238]). A key to the Afrotropical genera of Ceratitidina was provided by Hancock (1987), and Hancock & Drew (1994[1901]) and Permkam & Hancock (1995[3794]) keyed most of the Oriental and Australasian genera. The Afrotropical genera of Gastrozonina have been keyed by Hancock (1985[1889]), and most of the Oriental and Australasian genera have been included in keys by Hardy (1973, 1974[1943], 1988[1964]) and Kapoor (1993).

Ortalotrypetini — Norrbom (1994[3662]) provided a key to four of the five included genera.

Rivelliomimini — There is no key including all three of the genera, but the two Afrotropical genera were included in the key of Hancock (1986[1890]).

Toxotrypanini — The three genera were included in the keys of Foote (1980) and Foote et al. (1993).

Trypetini — Han (1992) provided a key to most of the world genera of Trypetina and the *Chetostoma* group. The three genera of Acidoxanthina are included in keys by Hancock (1987) and Hardy (1987).

Tephritinae — The genera of the USA and Canada were included in the key of Foote et al. (1993), and those of the Neotropical Region and Nearctic Mexico were keyed by Foote (1980). Most Afrotropical genera have been keyed by Bezzi (1924[470], 1924[469], 1924[472]), Munro (1957[3511]), and Freidberg (1987). Many Palearctic genera were keyed by Hendel (1927[2109]), and others were included in keys to local areas listed above under that region. Most Oriental and Australasian genera were included in keys by Hardy (1973, 1974[1943], 1988[1965]), Hardy & Adachi (1956), Hardy & Delfinado (1980), Hardy & Drew (1996), Kapoor (1993), Shiraki (1933, 1968), and Zia (1937). The Australian genera were revised by Hardy & Drew (1996).

Acrotaeniini — There is no key strictly to the genera of this group. Foote (1980) keyed some of the genera under Platensini, but he included others under Trypetinae, Tephritini and Aciurini.

Dithrycini — There is no comprehensive generic key for this group. Freidberg & Kaplan (1992) revised the Afrotropical species of Oedaspidina, and they and Freidberg & Mansell (1995) provided keys to the Old World genera. The genera of Cecidocharina have not been keyed as a group, but were included in keys by Aczél (1953[24]), Foote (1980) and Foote et al. (1993).

Eurostini — The three genera were included in the key of Foote et al. (1993).

Eutretini — There is no comprehensive generic key for this group. That by Munro (1952[3503]) is obsolete. Foote (1980) keyed most of the American genera under Ditrichini. Freidberg

& Kaplan (1993) revised and keyed the three genera of the Afrotropical *Afreutreta* group.

Myopitini — Steyskal (1979) provided a key to the world genera, but many of the genera he included have been removed from the Myopitini. Korneyev & White (1991) provided a key to the subgenera of *Urophora*.

Noeetini — There is no key strictly to the genera of this group.

Schistopterini — There is no comprehensive generic key. Most of the Afrotropical genera were keyed by Bezzi (1924[470]). Hardy (1985) provided a key to three Oriental and Australasian genera.

Tephrellini — There is no comprehensive generic key, but most of the genera of this group, especially those from the Afrotropical Region, were keyed by Munro (1937[3481], 1947) and Hancock (1990). Some Oriental genera were included in keys by Hardy (1987) and Kapoor (1993).

Tephritini — See discussion of Tephritinae. Munro (1957[3510]) and Korneyev (1990[2736]) keyed some of the African and Palearctic genera, respectively, and Freidberg (1987) and Munro (1957[3511]) provided keys to most genera of the *Sphenella* group.

Terelliini — Freidberg (1985), Freidberg & Mathis (1986), and Korneyev (1985[2717]) provided keys to the world genera.

Collections

Most important collections

The collections that probably have the greatest diversity of species of Tephritidae represented are: Natural History Museum (BMNH), National Museum of Natural History (USNM), Humboldt Universitat (ZMHU), Naturhistorisches Museum Wien (NMW), South African National Collection (SANC), Queensland Museum (QMBA), Bishop Museum (BBM), Tel Aviv University (TAU), and B. Merz' personal collection.

We have estimated the number of primary types of nominal fruit fly species in the major entomological collections of the world by totaling the acronyms in the type depository field of the database. Thus syntype series in a particular collection are counted as one, although series divided among museums are counted once for each institution. These totals are underestimates for some collections that have parts of large type series. In cases where there was not enough space in the type depository field to include all of the acronyms, this was noted in the notes field, but these acronyms were not counted in our totals. Conversely, uncertain depositories (with a “?” after the acronym in the type depository field) were counted. On this basis, we estimate the 25 collections that have the greatest number of primary type specimens of Tephritidae are: The Natural History Museum (BMNH) — 823; National Museum of Natural History (USNM) — 369; South African National Collection (SANC) — 320; Zoologisches Museum, Humboldt Universitat (ZMHU) — 293; Queensland Museum (QM) — 273; Bernice Bishop Museum (BBM) — 270; Naturhistorisches Museum Wien (NMW) — 269; Institute of Zoology, Academia Sinica (IZAS) — 195; Museum National d'Histoire Naturelle (MNHN) — 167; Naturhistoriska Riksmuseet (NRS) — 157; Magyar Természettudományi Múzeum (MNM) — 146; Staatliches Museum für Tierkunde (SMT) — 89; Zoological Institute, St. Petersburg — 86; National Taiwan University

(NTU) — 81; Deutsches Entomologisches Institut (DEI) — 77; Museum of Comparative Zoology (MCZ) — 73; University of Osaka Prefecture (UOPJ) — 66; Zoological Museums, University of Copenhagen (UZMC) — 65; Zoological Survey of India (ZSI) — 65; Zoologisch Museum, Universiteit van Amsterdam (ZMAN) — 63; American Museum of Natural History (AMNH) — 58; South African Museum (SAMCT) — 53; Museo Zoologico La Specola (MZLS) — 52; Australian National Insect Collection, Canberra (ANIC) — 50; Australian Museum (AMS) — 48; and University Museum, Oxford (UMO) — 46.

Samples in collections

Although the taxonomic importance of each sex varies greatly among different genera of Tephritidae, males and females are generally equally well represented in collections. An exception is that some Ceratitidina and Dacina are better represented by males, which can be trapped using chemical lures. The immature stages of fruit flies are poorly represented in collections.

As for most groups of terrestrial arthropods, the temperate areas of the world are relatively better sampled for Tephritidae than are the tropics. The fruit fly faunas of the western Palearctic Region and of America north of Mexico are the most thoroughly understood. Sub-Saharan Africa (particularly Madagascar), Mesoamerica, South America, the Oriental Region, New Guinea, and central Asia appear to be areas that contain the greatest numbers of species yet to be described.

Type depository acronyms and additional collection information

The type depository field of the database includes the acronym for the collection to which the primary type (or types) belongs, as indicated below. This table includes only collections known to have tephritid types, and is based on the acronym sets used in the Flies of the Nearctic Region series and Arnett et al. (1993). A database of acronyms of world terrestrial arthropod collections is included on the CD-ROM.

Acronyms in the list below that have only their first letter capitalized are personal collections. In some cases the original description reported that types were deposited in personal collections subsequently sold or donated to the current institution, or were transferred from the original depository to another institution. We have listed the names of many of these original collections below, with notes on the present locations of any tephritid types. Also see Thompson & Pont (1993: 33) and Horn & Kahle (1935, 1936, 1937) for useful information and references on the collections of many early workers.

Acronyms followed by “?” in the database represent cases where the location of the type(s) was not stated in the original description or in a subsequent publication, but there is some evidence of its whereabouts (e.g., the depository of most of the source collection is known). For some species where the depository was unstated, we have confirmed the type's presence in the collection by personal observation (by Norrbom, White or Freidberg) or personal communication with the curator or another tephritid systematist, and thus the acronym is stated without a “?”.

Fruit Fly Collections

- Agriculture Department, Nanking University (tephritid types of Chen and Zia transferred to IZAS (X.-J. Wang, pers. comm.))
- AMNH** American Museum of Natural History, Department of Entomology, Central Park West at 79th St., New York, NY 10024, USA
- AMNZ** Auckland Institute and Museum, Private Bag 92018, Auckland, New Zealand
- AMS** Australian Museum, Department of Entomology, P.O. Box A285, Sydney South, New South Wales 2000, Australia (see Daniels 1978)
- AMUZ** Aligarh Muslim University, Department of Zoology, Aligarh, Uttar Pradesh, India
- ANIC** Australian National Insect Collection, CSIRO, Canberra, ACT, Australia
- ANSP** Academy of Natural Sciences, Department of Entomology, 19th and the Parkway, Philadelphia, PA 19103, USA
- Baggesen** Baggesen Collection
- Baker** Baker, C.F., personal collection. Sold to USNM, but the types of the Philippine species that Bezzi said were in this collection were never returned and are currently in the MCSNM. The USNM currently has only Baker's duplicates that were not examined by Bezzi.
- BAUC** Beijing Agricultural University, Beijing, China
- BBM** Bernice P. Bishop Museum, J. Linsley Gressitt Center for Research in Entomology, Department of Entomology Collection, P. O. Box 19000A, 1525 Bernice Street, Honolulu, Hawaii 96819, USA
- BCIQT** Animal & Plant Quarantine Laboratory, Taichung Branch Office, Bureau of Commodity Inspection & Quarantine, Ministry of Economic Affairs, Taichung, Taiwan
- Bigot, J.M.F. Personal collection mostly in UMO (Stone 1980: 38).
- Brooklyn Institute of Arts and Sciences, New York (many types transferred to AMNH, but only known tephritid type transferred to USNM)
- BMNH** The Natural History Museum, Department of Entomology, Cromwell Road, London SW7 5BD, England, UK
- BPIH** Pennsylvania Department of Agriculture Arthropod Collection, Bureau of Plant Industry, Pennsylvania Department of Agriculture, 2301 North Cameron St., Harrisburg, PA 17110, USA
- BPIM** Bureau of Plant Industry, Manila, Philippines
- International Institute of Entomology, CAB International, London (former Commonwealth Institute of Entomology) (collection in BMNH)
- CAS** California Academy of Sciences, Department of Entomology, Golden Gate Park, San Francisco, CA 94118, USA (see Arnaud 1979)
- C DFA** Collection of Arthropods, Analysis and Identification Unit, California Department of Food and Agriculture, 1220 N. St., Rm 340, Sacramento, CA 95814, USA (types of Blanc and Foote transferred to CAS; see Wasbauer 1970, Arnaud 1979)
- Commonwealth Institute of Health, University of Sydney, Australia (the type specimens have been transferred to AMS, although those of some species of Tephritinae described by Malloch may now be in ANIC (D.L. Hancock, pers. comm.))
- Canterbury Museum, Rolleston Ave., Christchurch 1, New Zealand (types of species described by Malloch have been transferred to NZAC (W.N. Mathis, pers. comm.))
- CMP** Carnegie Museum of Natural History, Section of Insect and Spiders, 900 Forbes Ave., Pittsburgh, PA 15213, USA
- CNC** Canadian National Collection of Insects, Centre for Land and Biological Resources Research, Biological Research Division Agriculture Canada, Ottawa, Ontario KIA OC6, Canada
- CNMS** National Museum, Sir Marcus Fernando Mawatha, Colombo 7, Sri Lanka
- CPARJ** Centro de Pesquisas Agropecuarias Centro-Sul, EMBRAPA, Rio de Janeiro, Brazil (formerly Instituto de Biologia Vegetal) (see Zikan & Wygodzinsky 1948)
- CSUFC** Colorado State University, Department of Entomology. C.P. Gillette Arthropod Biodiversity Museum, Fort Collins, CO 80523, USA (types of Tephritidae transferred to USNM)
- CUI** Cornell University, Cornell University Insect Collection, Department of Entomology, Ithaca, NY 14850, USA
- DAC** Plant Protection Department, Ministry of Agriculture, Dokki, Cairo, Egypt
- Entomology and Zoology Division, Department of Agriculture, Pathoyothin Road, Bangkok, Bangkok 10900, Thailand (types of Tephritidae stated as deposited here by Hardy (1973) are at KUB (D.L. Hancock, pers. comm.))
- De Geer, C. Personal collection in NRS (see Persson et al. 1984).
- DEI** Deutsches Entomologisches Institut, Deutschen Akademie der Landwirtschaftswissenschaften zu Berlin, Schicklerstrasse 5, 13 Eberswalde, D-1300, Germany (formerly Institut für Pflanzenschutzforschung)
- Dejean** Dejean, P.F.M.A., personal collection. Widely dispersed (Horn & Kahle 1935: 52) and some of the Diptera are now in Oxford via Robineau-Desvoidy, Bigot and Verrall-Collin collections.
- Destroyed** Used in Type depository field only if types are clearly known to have been lost or destroyed [\$ in database]
- Dirlbek** Dirlbek, J., Dirlbek, K., and Dirlbekova, O., personal collection. Central Research Institute for Plant Protection, Cesko-Slovenska Spolecnost Entomologicka, Vinicna 7, 128 00 Praha 2, Czech Republic
- Doleschall, C.L. Private collector who sold specimens to various institutions and collectors. Speci-

- mens from Java are supposedly in NMW (Bezzi 1913, Horn & Kahle 1935: 59), but there are putative types and other specimens of Tephritidae in ZMHU and MNM.
- Efflatoun, H.C. Personal collection now in ESEE (Steyskal & El Bialy 1967).
- ENA** Universidade Federal Rural do Rio de Janeiro, Brazil (formerly Escola Nacional de Agronomia)
- ENIH** National Institute of Health, Department of Entomology, 10-35 Kamiosaki, 2-Chome, Sinagawaku, Tokyo 141, Japan
- ESEE** Entomology Society of Egypt, 14 Ramsey St., Cairo, Egypt (see Steyskal & El-Bialy 1967)
- ETHZ** Entomologische Sammlung, Eidgenossische Technische Hochschule, ETH-Zentrum, Zurich CH-8092, Switzerland
- EUMJ** Ehime University, Entomological Laboratory, Matsuyama, Japan
- Fabricius, I.C. See Zimsen (1964) for collection data and list of types in UZMC; other types are in MNHNP.
- Fan Memorial Institute of Biology, Beijing, China (tephritid types of Chen and Zia transferred to IZAS (X.-J. Wang, pers. comm.))
- Fitch, A. Known types of Tephritidae are in USNM (see Barnes 1988: 111)
- FMNH** Field Museum of Natural History, Roosevelt Road and Lake Shore Drive, Chicago, IL 60605, USA
- FSCA** Florida State Collection of Arthropods, Division of Plant Industry, 1911 34th St., SW, P.O. Box 147100, Gainesville, FL 32614, USA
- Fuesslin, J.C. (see Thompson & Pont 1993: 179 for discussion of alternative spellings). Collection apparently lost (B. Merz, pers. comm.).
- Geoffroy, E.L., personal collection. Possibly in MHNA (see Thompson & Pont 1993: 35).
- Germar** Germar, E.F., collection. Dispersed, some material in ZMHU, DEI, & MLUH (Horn & Kahle 1935: 89).
- Entomological Museum, Government Research Institute of Formosa, Taihoku, Japan (probably Taiwan Agricultural Research Institute, 189 Chungchen Road, Wufeng, Taichung 41301, Taiwan). Shiraki (1933) stated this as his type depository, but his tephritid types are reportedly now in NTU (Hardy 1973: 124, Drew 1989: 46).
- Haliday, A.H. Collection now in NMI (O'Connor & Nash 1982).
- Hawaiian Sugar Planters Association (collection transferred to BBM)
- Hering, E.M. Personal collection sold to BMNH.
- HUS** Entomological Institute, Faculty of Agriculture, Hokkaido University, Sapporo, Hokkaido 060, Japan
- IEXV** Instituto de Ecologia, Apartado Postal 63, Km. 2.5 Antigua Carretera a Coatepec, 91000 Xalapa, Veracruz, Mexico
- IGPUG** Institut und Museum für Geologie und Palaeontologie, Georg-August-Universität, Göttingen, Niedersachsen, Germany (see Evenhuis 1994: 17)
- IML** Fundacion e Instituto Miguel Lillo, Universidad Nacional de Tucuman, Miguel Lillo 251, Tucuman 4000, Argentina (see Hayward & Golbach 1963)
- IMZ** Museo ed Istituto di Zoologia Sistemica, Università di Torino, Via Giovanni Giditti 34, Torino I-10123, Italy (collection possibly transferred to Museo Regionale di Scienze Naturali, Via Giolitti 36, Torino 10123, Italy)
- INHS** Illinois Natural History Survey, Insect Collection, 607 E. Peabody Drive, Champaign, IL 61820, USA
- INPC** National Pusa Collections, Division of Entomology, Indian Agriculture Research Institute, New Delhi, Delhi 110012, India
- IOC** Fundacao Instituto Oswaldo Cruz, Av. Brasil 4365, C.P. 926, Rio de Janeiro, Rio de Janeiro 20.000, Brazil
- IPV** Instituto de Patologia Vegetal, INTA, C.C. No. 25, Castelar, Buenos Aires, Argentina
- IRSNB** Institut Royal des Sciences Naturelles de Belgique, Collections Nationales Belges D'Insectes et D'Arachnides, 29, Rue Vautier, Brussels B1040, Belgium
- ISTM** Institute Scientifique, Tananarive, Madagascar (Status uncertain. Types of some species described by Munro or Hering said to belong here (or from Paulian) are still in SANC, whereas some others are in MNHNP).
- Ito, S. Personal collection now in UOPJ.
- IZAM** Instituto de Zoologia Agricola, Facultad de Agronomia, Universidad Central de Venezuela, Apt. 4579, Maracay, Aragua 2010A, Venezuela
- IZAS** Institute of Zoology, Academia Sinica, Insect Collection, 19 Zhongguancun Lu, Haidian, Beijing 100080, China
- IZTG** Institute of Zoology, Tbilisi, Georgia
- IZUSN** Instituto di Zoologia, Università degli Studia di Napoli, Portici, Italy
- Kieffer** Kieffer, J.J., personal collection. Mostly destroyed, including all Kieffer & Jorgenson neotropical types (Gagne 1994: 5)
- Kirchbg** Kirchberg, E., personal collection
- Klapperich, J. Personal collection now in ZFMK.
- Kozanek** Kozanek personal collection
- KU** Kyushu University, Entomological Laboratory, Faculty of Agriculture, Hakozaki, Hi-Gashiku, Fukuoka, Kyushu 812, Japan
- KUB** Kasetsart University, Bangkok, Thailand
- KUTK** Systematic Entomology Laboratory, Department of Agricultural Biology, Kyungpook National University, Taegu, Korea
- LACM** Natural History Museum of Los Angeles County, Los Angeles, CA, USA
- LSL** Linnean Society, Burlington House, Piccadilly, London W1V 0LQ, England, UK

—	Maa, T., personal collection. Types of tephritid species described by Chen and Zia are deposited in IZAS (X.-J. Wang, pers. comm.).	MNM	Magyar Termesztudományi Múzeum Allattara (Hungarian Natural History Museum), Baross u. 13, 1088 Budapest, Hungary
—	Macquart, J.P.M. Personal collection in MHNLI (Macquart 1850), but most types in MNHNP (those from "Museum") or UMO (Bigot Collection).	MRAC	Musee Royal de l'Afrique Centrale, Section d'Entomologie, Leuvenesseleweg 13, Tervuren B-3040, Belgium
MACN	Museo Argentino de Ciencias Naturales Bernardino Rivadavia, Division Entomologia, Av. Angel Gallardo 470, C.C. 220, SUC. 5, Buenos Aires 1405, Argentina	MSUEL	Michigan State University, Department of Entomology Collection, East Lansing, MI 48824-1115, USA
MCSNG	Museo Civico di Storia Naturale, "Giacomo Doria", via Brigita Liguria 9, Genoa I-16121, Italy	MVMA	National Museum of Victoria, Department of Entomology, 71 Victoria Crescent, Abbotsford, Victoria 3067, Australia
MCSNM	Museo Civico di Storia Naturale, Corso Venezia 55, Milan 20121, Italy	MZB	Museum Zoologicum Bogoriense, P. O. Box 110, Jalan. Juanda 3, Bogor, Java, Indonesia
MCZ	Museum of Comparative Zoology, Entomology Department, Harvard University, 26 Oxford Street, Cambridge, MA 02138, USA	MZLS	Museo Zoologico "La Specola", Via Romana 17, Firenze 50125, Italy
—	Meigen, J.W. Personal collection sold to MNHNP. See Pont (1986) for data on collectors and depositories of other types.	NIAS	Laboratory of Insect Systematics, National Institute of Agro-Environmental Sciences, Kannondai, Tsukuba, Ibaraki Pref. 305, Japan
—	Merz, B., personal collection. Holotypes from this collection are now deposited in ETHZ (B. Merz, pers. comm.).	NMB	Naturhistorisches Museum, Entomology Department, Augustinergasse 2, Basel CH-4001, Switzerland
MEUA	Museo de Entomologia, Universidad Nacional Agraria "La Molina", Apartado 456, Lima, Peru	NMBA	Naturhistorisches Museum der Benediktiner-Abtei Admont, Admont A-8911, Austria
MEUV	Museo de Entomologia, Universidad del Valle, Dpto. de Biología, A.A. 25360, Cali, Colombia	NMBZ	National Museum, Invertebrate Collection, P. O. Box 240, Bulawayo, Zimbabwe (see Hancock, Chahwanda & Mhlanga 1995)
MGAB	Muzeul de Istoria Naturala, "Grigore Antipa", L. Chaussee Kisselef 1, Bucharest, Romania	NMI	National Museum of Ireland, Insect Collection, Kildane Street and Merrion Street, Dublin 2, Co. Dublin, Ireland
—	Laboratory of Taxonomy and Ecology, Institute of Entomology, Academia Sinica, Shanghai, China (formerly Musee Heude; see Hardy 1988: 78) (tephritid types of Chen and Zia transferred to IZAS (X.-J. Wang, pers. comm.))	NMKE	National Museum of Kenya, Section of Entomology, P.O. Box 40658, Nairobi, Kenya
MHNA	Museum d'Histoire Naturelle d'Autun, 14 Rue St.-Antoine, F71400 Autun, France	NMNHS	Insect Collection, National Museum of Natural History, Bulgarian Academy of Sciences, Boulv. Tzar Osvoboditel, Sofia BG-1000, Bulgaria
MHNL	Musee d'Histoire Naturelle de Lyon, 28 Blvd. des Belges, 69006 Lyon, France	NMP	Natal Museum, Private Bag 9070, Pietermaritzburg, Natal 3201, South Africa
MHNLI	Museum d'Histoire Naturelle, Lille, France (see Macquart 1850)	NMPC	National Museum (Natural History), Department of Entomology, Kunratice 1, Prague 4, 148 00, Czech Republic
—	Musee Hoangho-Paiho, Tientsin, China (tephritid types of Chen and Zia transferred to IZAS (X.-J. Wang, pers. comm.))	NMW	Naturhistorisches Museum Wien, Postfach 417, Burgring 7, Vienna A-1040, Austria (many, but not all types discussed by Hardy 1968)
MLUH	Wissenschaftsbereich Zoologie, Sektion Biowissenschaften Martin-Luther-Universitata Halle, WB Zoologie, Domplatz 4, Halle/Salle D-4020, Germany	NMWC	National Museum of Wales, Cathays Park, Subdepartment of Entomology, Department of Zoology, Cardiff, South Glamorgan CF1 3NP, Wales, UK
MMB	Moravske Muzeum, Entomology, Preslova ul. 659 37, Brno, Czech Republic	NRS	Naturhistoriska Riksmuseet, Sektionen fur entomologi, Stockholm S-10405, Sweden
MMS	MacLeay Museum, University of Sydney, Australia	NSWA	New South Wales Agricultural Scientific Collection Trust, Biological and Chemical Research Institute, P. M. B., 10, Rydalmere, New South Wales 2116, Australia
MNHNP	Museum National d'Histoire Naturelle, National Collection of Insects, 45, rue Buffon, Paris 75005, France	NTU	National Taiwan University, Department of Plant Pathology & Entomology, Taipei, Taiwan (also see Government Research Institute of Formosa)
MNHNS	Museo Nacional de Historia Natural, Casilla 787, Santiago, Chile	—	Department of Tropical Research, New York Zoological Society, New York, NY, USA (tephritid types now in AMNH)

- NZAC** New Zealand Arthropod Collection, Entomology Division, Landcare Research New Zealand Ltd., Private Bag 92170, Auckland, New Zealand
- PACL** Punjab Agricultural College & Research Institute, Lyallpur, Pakistan
- PAN** Polish Academy of Science, Museum of the Institute of Zoology, Wilcza 64, Warsaw 00-679, Poland
- Payen** Payen personal collection (in "Stadt. Mus., Tournai" according to Horn & Kahle (1936: 203), a collection unknown to us).
- Paykull, G. von. Collection now in NRS (Zimsen 1964: 17).
- PIM** Paleontologicheskii Institut, Acad. Nauk, Moscow, Russia
- PQMAB** Plant Quarantine Institute, Ministry of Agriculture, Beijing
- PUCP** Punjab University, Department of Zoology, Chandigarh, Punjab, India
- QMBA** Queensland Museum, P.O. Box 3300, Brisbane, Queensland 4101, Australia
- Reaumur** Reaumur personal collection. Presumed lost.
- RNH** Nationaal Natuurhistorische Museum, Raamsteeg 2, Leiden 2311 PL, Netherlands
- Robineau-Desvoidy, J.B. Personal collection now in MNHNP, but all Tephritidae destroyed (see Stone 1980: 35).
- Rondani, C. Personal collection purchased by MZLS (Pape 1988: 2).
- Rossi, P. According to Horn & Kahle (1936: 231), some of Rossi's collection was passed to the ZMHU. F.C. Thompson (unpubl. data) has located a valid Rossi syrphid type in that collection.
- Ryden** Ryden, N., personal collection, Halsingborg, Sweden
- SAFAI** Laboratorio di Entomologia, R. Stazione Sperimentale di Agrumicoltura e Frutticoltura, Acireale, Sicily, Italy (status uncertain)
- SAMA** South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia
- SAMCT** South African Museum, Entomology Department, P.O. Box 61, Queen Victoria Street, Cape Town, Cape Province 8000, South Africa
- SANC** South African National Collection of Insects, Private Bag X134, Pretoria, Transvaal 0001, South Africa (see Holm & Wessels 1974)
- Say, T. Collection in ANSP but all Diptera destroyed (Stone 1980: 35).
- SDNHM** San Diego Natural History Museum, Entomology Department, Balboa Park, P.O. Box 1390, San Diego, CA 92112, USA
- Senior-White, R.A. Personal collection deposited in BMNH.
- Serville. Diptera obtained by Bigot, now in UMO (see Osten Sacken 1878: XVI).
- Shinji** Shinji, O., personal collection, Morioka Higher Agricultural and Forestry School, Japan. Location of collection unknown (Ito 1984: 149).
- SLJG** Steiermarkisches Landesmuseum Joanneum, Abteilung für Zoologie, Raubergasse 10, Graz A-8010, Austria
- SMF** Forschungsinstitut und Naturmuseum Senckenberg, Entomologische Section 1, Senckenberganlage 25, Frankfurt-am-Main, Hessen D-6000, Germany
- SMKM** Selangor Museum, Kuala Lumpur, Malaysia (Collection, at least in part, transferred to BMNH (see Hardy 1973: 58)).
- SMN** Staatliches Museum für Naturkunde, Rosenstein 1, Stuttgart, Baden-Württemberg D-7000, Germany
- SMT** Department of Entomology Collection, Staatliches Museum für Tierkunde, Dresden, Forschungsstelle, Augustusstrasse 2, Dresden D-8010, Germany
- Spinola** Spinola, M.M., personal collection. Now in IMZ.
- Takeuchi** Takeuchi personal collection. Possibly in UOPJ (see Ito 1984: 85).
- Stettin Museum (collection transferred to PAN)
- TAUI** Insect Collection, Zoological Museum, Tel Aviv University, Tel Aviv 69978, Israel
- Tavares** Tavares, J.S., personal collection. Mostly lost except for galls now in MNHNP and SMN (see Gagne 1994: 7).
- Theodor, O. Collection now in TAUI.
- Theowald** Theowald, Br., personal collection, Amsterdam
- TMP** Transvaal Museum, P.O. Box 413, Pretoria, Transvaal 0001, South Africa (Diptera collection transferred to NMP, but types of a few species of Tephritidae described by Bezzi or Munro retained at SANC (M. Mansell, pers. comm.))
- Tollin** Tollin, C., personal collection. Whereabouts unknown (Horn & Kahle 1936: 280).
- Townsend, C.H.T. Collection largely in UKaL and USNM (see Arnaud 1958).
- TUKN** Tribhuvan University, Kirtipur, Nepal
- UASK** Ukrainian Academy of Sciences, Schmalhausen Institute of Zoology, Lenin Street, 15, 252650, Kiev 30, Ukraine
- UASL** Nature Museum, Ukrainian Academy of Sciences, Lvov, Ukraine
- UCB** University of California, Essig Museum of Entomology, Department of Entomological Sciences, Berkeley, CA 94720, USA
- UCD** University of California, The Bohart Museum of Entomology, Davis, CA 95616, USA
- UChS** Museo Entomologico, Universidad de Chile, Facultad de Agronomía, Casilla 1004, Santiago, Chile
- UCR** University of California, Entomological Teaching and Research Collection, Riverside, CA 92521, USA
- UKaL** University of Kansas, State Biological Survey of Kansas Invertebrate Collection, 2045 Constant Ave., Campus West, Lawrence, KS 66044, USA (see Byers et al. 1962).

- UMCE** Universidad Metropolitana de Ciencias de la Educacion, Santiago, Chile
- UMO** Hope Entomological Collections, University Museum, Park Road, Oxford, Oxfordshire OX1 3PW, England, UK
- UMSP** University of Minnesota, Department of Entomology, 219 Hodson Hall, 1980 Folwell Ave., St. Paul, MN 55108, USA
- UNAM** Universidad Nacional Autonoma de Mexico, Coleccion Entomologica, Instituto de Biologia, Apdo. Postal 70133, Mexico, Distrito Federal 04510, Mexico
- Unknown** Depository of types not stated in publication and unknown to us.
- UOPJ** Entomological Laboratory, University of Osaka Prefecture, Mosu, Umemachi Sakai, Osaka 593, Japan
- UPRG** Universidad Nacional "Pedro Ruiz Gallo", Departamento de Fitotecnica, Museo de Entomologia, Apartado 3, Lambayeque, Lambayeque, Peru
- UQIC** Insect Collection, Department of Entomology, University of Queensland, Saint Lucia, Queensland 4067, Australia (Holotypes were transferred to QMBA)
- USNM** United States National Museum of Natural History, United States National Entomological Collection, Washington, DC 20560, USA
- USP** Museu de Zoologia, Universidade de Sao Paulo, Biblioteca, 7172, Sao Paulo, Sao Paulo 01.051, Brazil
- USU** Utah State University, Department of Biology, Entomological Museum, Logan, UT 84332, USA
- UZMC** University of Copenhagen, Zoological Museums, Department of Entomology, Universitetsparken, Copenhagen DK-2100, Denmark
- UZMH** Zoological Museum, Finnish Museum of Natural History, University of Helsinki, P. Rautatiek 13, Helsinki, SF-00100, Finland
- Villers** Villers, C.J. de, personal collection. Probably lost, not in MHNL (Thompson & Pont 1993: 34).
- Wiedemann, C.R.W. Personal collection now in NMW, via Winthem (Pont 1986: 205). See Zimzen (1954) for list of types in UZMC.
- Winthem, W. von. Personal collection sold to NMW (Pont 1986: 206).
- WSU** Washington State University, James Entomological Collection, Department of Entomology Collection, Pullman, WA 99163, USA (see Zack 1984)
- Zaka-Rab** Zaka-ur-Rab, M., personal collection. Possibly in AMUZ.
- ZFMK** Zoologisches Forschungsinstitut und Museum "Alexander Koeing", Adenaueralle 160, Bonn D-5300, Germany
- ZIL** Museum of Zoology, Lund University, Helgonav 3, Lund S-223, Sweden
- ZISP** Zoological Museum, Academy of Sciences, Russian Academy of Sciences, Universitetskaya, Naberzhnaya B-164, St. Petersburg, Russia
- ZMAN** Zoologisch Museum, Instituut voor Taxonomische Zoologie, Universiteit van Amsterdam, Plantage Middenlaan 64, Amsterdam 1018 DH, Netherlands
- ZMHU** Museum fur Naturkunde der Humboldt Universität zu Berlin, Bereich Zoologisches Museum, Invalidenstrasse 43, Berlin, D-1040, Germany
- ZMM** Zoological Museum, University of Moscow, Herzen str. 6, Moscow 103009, Russia
- ZSBS** Zoologische Staatssammlung, Munchhausenstrasse 21, Munchen 60, Bayern D-8000, Germany
- ZSI** Zoological Survey of India, National Zoological Collection, 34, Chittaranjan Avenue, Calcutta, West Bengal 700 012, India
- ZSZMH** Zoologisches Staatsinstitut und Zoologisches Museum, Hamburg, Germany (most of collection destroyed in Second World War; some syntypes or even holotypes may have been retained in collections of authors, particularly Hendel and Hering).

Collecting and preservation methods

The following publications discuss methods for collecting and preserving fruit flies: White (1988), White & Elson-Harris (1992), Foote et al. (1993), Drew et al. (1978). Many types of specialized traps have been developed for the economic species.

List of Tephritid Systematists

The most active systematists currently studying Tephritidae are listed below. The "Research Interests" field briefly lists their areas of emphasis (i.e., area, taxon, or methodology; unless otherwise indicated, an area generally refers to all taxa from that region, and a taxon indicates interest in the world fauna for that group). Many of these individuals have indicated willingness to identify specimens, but they should be contacted on an individual basis prior to sending material. Additional individuals studying Tephritidae may be found in the Dipterists' Directory on the Diptera Data Dissemination Disk included with this publication.

Principal Tephritid Specialists

Dr. M.L. Agarwal; Department of Zoology ; Rajendra Agricultural University; Pusa, Bihar, India; Research Interests: India

Dr. Vladimir M. Bassov; Department of Biology; Pedagogical Institute; Elabuga 423630, Russia; Research Interests: Russia; Tel. 32470; Fax. 36720

Dr. Stewart H. Berlocher; Department of Entomology; University of Illinois; 320 Morrill Hall; 505 Goodwin Ave.; Urbana, IL 61801, U.S.A.; e-mail: stewartb@uiuc.edu; Research Interests: molecular systematics, *Rhagoletis*

Dr. F.L. Blanc; 5309 Spilman Avenue; Sacramento, CA 95819-1733, U.S.A.; Research Interests: Nearctic Region

Dr. Guy L. Bush ; Dept. of Zoology; Michigan State University; Natural Science Bldg.; East Lansing, MI 48824-1115, U.S.A.; e-mail: guybush@msu.edu; Research Interests: *Rhagoletis*

Sra. Nancy S. Carrejo; Museo de Entomologia; Universidad del Valle; Dpto. de Biologia; A.A. 25360; Cali, Colombia; e-mail:

carrejo@biologia.univalle.edu.co; Research Interests: *Anastrepha* (Colombia)

Dr. Lynn E. Carroll; Systematic Entomology Laboratory, USDA; National Museum of Natural History; Washington, D.C. 20560-0168, U.S.A.; Tel. 202 382-1788; Fax. 202 786-9422; e-mail: carroll@sel.barc.usda.gov; Research Interests: larvae

Hong-yih Chang; Department of Plant Pathology and Entomology; National Taiwan University; No. 1, Sec. 4, Roosevelt Road; Taipei 106, Taiwan; e-mail: coahenry@tpts1.seed.net.tw; Research Interests: Taiwan

Dr. Martha A. Condon; Biology Department; Cornell College; 600 First St. West; Mount Vernon, IA 52314-1098, U.S.A.; Fax. 319 895-5764; e-mail: mcondon@cornell-iowa.edu; Research Interests: Blepharoneurini

Dr. Marc De Meyer; Entomology Section, Musee Royal de l'Afrique Centrale, B-3080 Tervuren, Belgium; e-mail: demeyer@africamuseum.be; Research Interests: Ceratitidina.

Drs. K. Dirlbek and O. Dirlbekova; Cesko-Slovenska Spolecnost Entomologicka; Vinicna 7; 128 00 Praha 2, Czech Republic; Research Interests: Palearctic Region

Dr. Jan Dirlbek; Sokolovska 175; 190 00 Praha 9-Liben, Czech Republic; Research Interests: Palearctic Region

Dr. Richard A.I. Drew ; Faculty of Environmental Sciences, Nathan Campus, Griffith University, QLD 4111, Australia; Tel. 61 7 3875 3696; Fax. 61 7 3875 3697; e-mail: d.drew@ens.gu.edu.au; Research Interests: Dacina of Oriental and Australasian Regions

Marlene Elson-Harris; Entomology Branch; Department of Primary Industries; Meiers Road; Indooroopilly, QLD 4068, Australia; Fax. 61 7 371-0766; Research Interests: larvae

Dr. Jeff Feder; Department of Biological Sciences; University of Notre Dame; Notre Dame, IN 46556; e-mail: jeffrey.l.feder2@nd.edu; Research Interests: molecular systematics, *Rhagoletis*

Dr. Richard H. Foote; HCR 75, Box 166; Lake of the Woods; Locust Grove, VA 22508, U.S.A.; e-mail: dickft@fls.infi.net

Dr. Amnon Freidberg; Department of Zoology; Tel Aviv University; 69 978 Tel Aviv, Israel; Tel. 972-3-6408660; Fax. 972-3-6409403 ; e-mail: afdipter@ccsg.tau.ac.il; Research Interests: Paleotropics

Dr. Daniel Frias; Instituto de Entomología; Universidad Metropolitana de Ciencias de la Educación; Casilla 147, Santiago, Chile; Fax. 56-2-2392067, 498495; e-mail: danfrias@rafale.umce.cl; Research Interests: *Rhagoletis* (South America), molecular systematics

Dr. Richard Goeden; Department of Entomology; University of California; Riverside, CA 92521, U.S.A.; Fax. 909 787-3086; e-mail: rgoeden@ucrac1.ucr.edu; Research Interests: California

Dr. Ho-Yeon Han; Department of Life Science; Yonsei University, Wonju Campus; 234 Maeji-ri, Wonju-shi; Kangwon-

do 220-710, Korea; e-mail: hyhan@dragon.yonsei.ac.kr; Research Interests: Trypetini, molecular systematics

Dr. David Hancock; P. O. Box 652, Cairns, QLD. 4870, Australia; Fax. 61 (070) 352-785; e-mail: hancockd@prose.dpi.qld.gov.au; Research Interests: Afrotropical, Oriental & Australasian Regions

Dr. D. Elmo Hardy; Dept. of Entomology; University of Hawaii at Manoa; 3050 Maile Way; Honolulu, Hawaii 96822, U.S.A.; Research Interests: Oriental and Australasian Regions

Dr. David H. Headrick; Crop Sciences Department; California Polytechnic State University, San Luis Obispo, CA 93407, U.S.A.; e-mail: dheadric@polymail.calpoly.edu; Research Interests: larvae, California

M. en C. Vicente Hernández Ortiz; Instituto de Ecología; Apartado Postal 63; Km. 2.5 Antigua Carretera a Coatepec; 91000 Xalapa, Veracruz, Mexico; Fax. 52 281-86910; e-mail: hernanvi@ecologia.edu.mx; Research Interests: *Hexachaeta*, Mexico

Dr. Rohani Ibrahim; Plant Protection Department; Faculty of Agriculture; University Pertanian Malaysia; 43400 UPM; Serdang, Selangor D.E., Malaysia

Dr. John Jenkins; 533 Pauline St.; Clifton, CO 81520 U.S.A.; e-mail: sunspun101@aol.com; Research Interests: Carpomyni, Nearctic Region

Dr. V.C. Kapoor; Department of Zoology ; Punjab Agricultural University; Ludhiana, Punjab, India; Research Interests: India

Dr. Judita Kinkorova; Research Institute of Plant Production; Drnovská 507; 161 06 Praha 6; Czech Republic; e-mail: kinkor@prfdec.natur.cuni.cz; Research Interests: Czech Republic

Dr. Valery A. Korneyev; Schmalhausen Institute of Zoology; Ukrainian Academy of Sciences; Lenin str. 15; UA252030, Kiev, Ukraine; Tel. 07 044 213-1752; Fax. 07 044 224-1569; e-mail: korval@entom.freenet.kiev.ua; Research Interests: Palearctic Region

Dr. Cheslavo Korytkowski; Programa de Entomologia; Vice-Rectoria de Investigacion y Post-Grado; Universidad de Panama, Panama; e-mail: cheslavo@ancon.up.ac.pa; Research Interests: *Anastrepha*

Dr. Mervyn Mansell; Plant Protection Research Institute; Biosystematics Division; Private Bag X134; Pretoria 0001, South Africa

Dr. Sergio R. Matioli; Universidade de Sao Paulo; Instituto de Biociencias; Caixa Postal 11.461; CEP - 05421 Sao Paulo, SP; Brazil; Fax. 55 11 815-4272; Research Interests: molecular systematics, *Anastrepha*

Dr. Bruce A. McPheron; Dept. of Entomology; Penn State University; 501 Agric. Sci. & Industries Bldg.; University Park, PA 16802, U.S.A.; Tel. 814 865-3088; Fax. 814 865-3048; e-mail: bam10@psu.edu; Research Interests: molecular systematics

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Data Dictionary and Standards

By F. Christian Thompson

The *Fruit Fly Systematic Information Database* is only a subset of the evolving *Biosystematic Database of World Diptera*. This database was developed and maintained on a Wang VS mini-computer using the Data Management System (DMS) supplied with the VS operating system. For the printed version, Ventura Publisher (5.0) was used. The text is done in Word Perfect (5.1 DOS) word-processing. COBOL programs were written to format the data for Ventura. The word-processing documents were converted to standard PC ASCII text files. Then these files were merged and printed with Ventura. The database is now available in FileMakerPro format and as tab-delimited ASCII Text files.

Scope

All scientific names proposed for fruit flies, members of the order Diptera, family Tephritidae, known to occur or have occurred in the World and found in the literature before 1 January 1996 have been included in the database and are documented here. Scientific names are here deemed to include, in addition to those recognized by the *International Code of Zoological Nomenclature* (ICZN 1985), unavailable names (*nomina nuda*, incorrect spellings (both original and subsequent) and misapplied names (the results of misidentifications)) where those may cause confusion.

Classification

The *Fruit Fly Systematic Information Database* does not use an infrafamilial classification. The arrangement of genera and species is alphabetic. The *incertae sedis* convention is used for the placement of taxa of unknown relationships. To generate a phylogenetic arrangement, a sequential arrangement is encoded and stored in the field taxcode (q.v.).

Unknown placement (*Incertae sedis*).

If the placement of a species is unknown or of uncertain generic placement, then the *incertae sedis* convention of Wiley is used. Wiley's convention 5 states "Recent monophyletic taxa of uncertain relationships will be placed in the hierarchy *incertae sedis* at the level their relationships are best understood" (Wiley 1981: 212). To implement this convention, special genus and family group records are created to accommodate taxa of unknown or uncertain relationships; special family group records are created to accommodate these genus group records or genera of uncertain or unknown relationships. For the species and genus group records, this means that the valid genus (and possibly valid subgenus field) have the name of higher taxon preceded by a "*G." This special entry will force the appropriate headings to be generated. For names of unknown relationships, there are three basic types.

1) the species is definitely known to belong to a genus, but is not assigned to any of the known subgenera of that genus.

For these the appropriate valid genus group name is entered in the valid genus field and the same name is entered in the VALID SUBGENUS field with a "*G" preceding that genus group name. For example, the genus *Sphegina* is divided into two subgenera, but a few species have not been assigned to a subgenus. These species would have "*Sphegina*" entered into their valid genus field and "*G*Sphegina*" in their valid subgenus field. Also, a generic record is created for "*G*Sphegina*" to generate the proper subgeneric heading (see below). The resultant print format is:

Genus *Sphegina*

Sphegina Incertae Sedis

orientalis. Taiwan, Philippines (Luzon) [OR].

Sphegina orientalis Kertész 1914: 73.—Formosa.

2) the species is not known to belong to any genus.

For these, the name of the lowest but definitely known higher group preceded by "*G" is entered as the valid genus name. For example, a species of Syrphidae not known to belong to any genera, but clearly belonging within the tribe Syrphini, would have "*GSyrphini" entered into the valid genus field. Also, genus and family group records are created for "*GSyrphini" [genus group name] and "*FSyrphini" [family group name]. For this example, the print format is:

Syrphini *Incertae Sedis*

Species *Incertae Sedis*

delineatus. Mexico.

Syrphus delineatus Macquart 1846: 267.—Mexico.

3) Genus group names of unknown or uncertain relationships.

These are treated by creating a special family group name record. The genus group record is the same as any other genus group record. The family group record will be an *incertae sedis* name at the lowest known level of resolution. For example, the flower fly genus, *Allograptina*, belongs to the subfamily Syrphinae, but is not definitely known to belong to any tribe within that subfamily. So, there should be a family group record for the name "*FSyrphinae," that is, the family group name preceded by an asterisk and a capital F (indicating family group name). This family name record with proper hierarchical coding generates the following format.

Syrphinae *Incertae Sedis*

Genus *Allograptina*

Allograptina Enderlein 1938: 226. Type-species, *octomaculata* Enderlein (orig. des.).

octomaculata. Mexico [NT].

Allograptina octomaculata Enderlein, 1938: 226.—Mexico.

Format

Information derived from databases varies according to how the data are presented. Format standards define presentation of data; data standards define the storage format of the data elements. Information in the *Fruit Fly Systematic Information Database* is presented in two formats, a printed format and a CD-ROM format. The format for the printed (catalog) version has been determined by tradition and typographic conventions. CD-ROM format is evolving and restricted only by computers and their software environments. The access to information in the printed version is fixed to a single set of data elements and data, whereas the CD-ROM allows for various forms of access to all data elements and data. This section defines the format used to present the information in the printed version. The following data dictionary defines the data elements and data standards.

The printed version consists of paragraphs, blocks of information set in type and strung together. A family treatment has the following kinds of paragraphs: 1) family header; 5) genus header; 6) genus name; 4) references; 7) species header; and 8) species name. The general format of these paragraphs is given below and is illustrated. These format statements consist of the name-of-the-data-element in the order they appear and with the punctuation or space that separates them. Curved braces ({}) denote information only included when relevant. These formats are derived from various catalogs, attempting to present the maximal information in an effective typographic format and conforming to the standards of the Systematic Entomology Laboratory. The format used for the bibliography section follows the standard set by the *Zoological Record* (BIOSIS 1987) with minor stylistic deviations as noted below.

Family header is centered and set in bold face type.

Category **VALID-FAMILY-GROUP-NAME**

Genus header is centered and set in bold face type.

Category **VALID-GENUS-NAME**

Genus name paragraph is left justified. The first line begins at the left margin with subsequent ones indented. Available genus group names are set in italics, unavailable names in roman.

Genus-group-name Author, Year [bibliographic-reference-number]: page, *type-species* Author (kind-of-type-designation). {further information, such as author year [bibliographic-reference-number]: page of subsequent designation, current valid name for type-species, and comments}.

References paragraph is left justified with only the first line indented. The first line begins with the identifier "REFS" followed by a string of reference citations, each separated by a semicolon.

REFS—Author Year [Bibliographic reference number]: Page (Contents [BIOTIC REGIONS: Specific geographic areas]) ...

Species header is left justified. The first line begins at the left margin, with subsequent lines indented. The valid species group name is set in bold italics type, followed by the distribution in roman. The biotic regions for the range are given in brackets using two-letter codes.

species. Distribution [BIOTIC REGIONS].

Species name paragraph is left justified. The first line is set in from the left with subsequent ones further indented. Available species group names are set in italics, unavailable names in roman, with the other data in roman. Also, for misidentifications and subsequent combinations a colon is placed after the name and before the author.

Original-genus species-group-name Author Year [bibliographic-reference-number]: page.—Type-locality. Kind-of-type Sex-of-type Depository-of-type. Comments and further information.

Bibliographic citation paragraph begins with the author(s) on a separate line and in bold face type, followed below with the year left justified, the title and source information blocked together, and with the bibliographic reference number right justified. All citations have the date of publication in brackets as "[year.month.day]" following the source information. Annotations if present are blocked separately beneath the main entry.

Author

Year Title & Source. [publication date]	Bibliographic Reference Number
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Data Dictionary

Information in a database is derived from the values stored in various data elements. Data standards define what values are acceptable (permissible). Community data standards as defined by the *International Code of Zoological Nomenclature* (ICZN 1985) and *Zoological Record* (BIOSIS 1987) are followed here, as well as those adopted by the Entomological Collections Network (Thompson 1990). This data dictionary describes the data elements, what they contain and what specific standards are applied to those values.

These data elements are grouped into tables or files to create the database. The data elements are here listed in alphabetical order, but the tables they logically belong to are indicated in square brackets, along with the unique 8 character name for used for them in the database (the FileMakerPro database format uses longer names as field labels) and the physical data type and size.

Afrotropical?

Does the taxon occur in the the Afrotropical Region? Values are given for all valid names. See under Biotic Region for definition of area. [AF (logical, 1): Family, Genus & Species tables]

Australasian?

Does the taxon occur in the Australasian Region? Values are given for all valid names. See under Biotic Region for definition of area. [AU (logical, 1): Family, Genus & Species tables]

Author

Author of the scientific name. [AUTHOR (Alpha, 24): Family, Genus, Species & Reference tables]

Generally, the separate prefixes for German and Dutch names (such as “van, van der, de (Dutch), von (German)) are dropped; for Spanish names, for men, the last name (maternal) is usually dropped; but for married women the whole name is retained (e.g., for Luis Pena Guzman use Pena, but for Mercedes Lizarralde de Grosso use Lizarralde de Grosso). For Portuguese names, only the last name (e.g., Lima for da Costa Lima). Following the *Zoological Record* standards (as well as the implied standard of the *Code*), diacritical marks are not used in the database. For names in non-roman characters, the author’s own transliteration is used if known and consistently used (not the standard of *Zoological Record* (e.g., Korneyev, not Korneev; Richter, not Rikhter).

Where the author data exceed 24 characters, they have been truncated. Often, for multiple authors, only the first (senior) author is entered followed by “et al.” However, if the names of multiple authors fall within the 24 character limit, they are all included.

SPECIAL CASES: The “Author in Author” situation is handled in the bibliography. So, the Author field contains only the author(s) of the name.

For example - Wiedemann “published” (validated) a number of species in Meigen’s *Systematische Beschreibung ...* For these species, only “Wiedemann” is entered in the AUTHOR field. Then in the bibliography there is an entry for this author & date, i.e., “Wiedemann, C. R. 1820. New species in Meigen 1820 (q.v.)”.

Author-of-designation

Author of the subsequent designation of a type-species. Follows the standards used for Author (q.v.). [SUBDESAU (alpha, 24): Genus]

Author-of-valid-name-of-type-species

Author of the valid name of a type species. Follows the standards used for Author (q.v.). This data element is filled in if valid-name-of-type-species is filled in. [CSPA (alpha, 24): Genus]

Bibliographic-record-number

A unique key to the bibliographic citation which includes the appropriate nomenclatural action. [BIBLIORN (numeric, 8): Family, Genus, Species]

Biotic-Region

The biotic region from which the type was described. The traditional division of the world into biotic regions is used and our definition of those regions conforms to the ones used by the various Diptera catalogs. The boundaries of these have been slightly modified to more closely conform to political boundaries and are here illustrated (maps 1-4). Most countries fall

entirely within one biotic region. Some countries, like France and the United States of America with their widespread possessions, have components in many biotic regions. Only three countries, China, Indonesia and Mexico, extend across biotic regional boundaries. For these countries, the boundaries are drawn between political subunits, such as islands following Weber’s line (Indonesia), provinces (China, with the Oriental ones being Yunnan, Guangxi, Zhuangzu, Guangdong, Hainan, Fujian & Zhejiang) or states (Mexico, with the Neotropical ones being Nayarit, Jalisco, Colima, Michoacan, Guerrero, Oaxaca, Veracruz, Tabasco, Chiapas, Campeche, Yucatan & Quintana Roo). While this separation of China and Mexico into their respective component regions is not the most accurate, it is the best approximation that conforms to International Data Standards, such as those of the Taxonomic Database Working Group.

In the FileMakerPro format, the separate logical fields for each biotic region are combined into a single field called Biotic Regions. This arrangement is used as FileMakerPro allows for within field searching.

[BIOREG (alpha, 2): Family, Genus, Species]. Permissible values are:

AF = Afrotropical;
 AU = Australasian;
 NE = Nearctic;
 NT = Neotropical;
 OR = Oriental;
 PA = Palearctic; and
 UK = Unknown.

Category

The category of a valid genus or family group name. Permissible values are: Family, Genus, Subfamily, Subgenus, Subtribe and Tribe. [CATEGORY (alpha, 10): Family, Genus]

Distribution

A brief description of the distribution of a species. [RANGE (alpha, 134): Species]

Distributional information is presented only to the level of country except for large countries where the level of state or province is used. The “&” is used instead of “and.” If the species is confined to a few areas, these are listed separately. If more widespread, an overall distribution is given by stating the corners of a rectangle or triangle. Distribution is stated in a northwest to northeast and southwest to southeast direction. Sometimes there may be a combination of these two methods, with an area of general distribution followed by a list. If there are only two or three areas in the distribution instead of three or four, an abbreviated form of the standard style is used. If the areas are in an east to west relationship and the areas are adjacent, then “area1 to area2, is used, and if the areas are not adjacent (not contiguous), then “area1 & area2” are listed. If the areas are in north to south relationship, then “area1, s to area2” is given in ALL cases. If questionable records are included, these are followed by question mark and are placed following a semicolon after the accepted records.

Family-group-name

The original spelling of the family-group name. [NAME (alpha, 33): Family]

Gender

A code for the gender of a genus-group name. Permissible values are F for feminine, M for masculine and N for neuter. [GENDER (alpha, 1): Genus]

Genus-group-name

The original spelling of the genus-group name. [NAME (alpha, 33): Genus]

Kind-of-designation

The kind of type-species designation, coded in database as follows. Only the first kind of designation under the order of precedence as given in article 69 in the Code is recorded. [TYPEDES (alpha, 2): Genus]. Permissible values are:

AU = Automatic;
FR = First revisor (for incorrect original spellings only)
IN = Indication (typicus, etc.)
MO = Monotypy;
MA = Apparent monotypy;
NA = not applicable;
OD = Original designation;
PD = Present designation;
SM = Subsequent monotypy;
SD = Subsequent designation;
TA = Tautonymy; and
UK = unknown.

A designation by the International Commission on Zoological Nomenclature under its plenary powers is recorded as a subsequent designation, with ICZN used as the “author.”

Kind-of-type

A code for the kind of primary type specimen the species-group name is based on. [TYPEKIND (alpha, 2): Species] Permissible values are:

HT = Holotype;
NT = Neotype;
LT = Lectotype;
ST = Syntype;
T = Type (unspecified);
NA = Not applicable; and
? = status undetermined.

While allotype and paratypes are frequently used in the literature, they are NEVER placed in this field as they are not primary types. “T” is used where the original author (such as Francis Walker) didn’t specify the kind of type and the original description provides no information on how many specimens the new species was based; “?” is used only where the original description has not been checked.

Nearctic?

Does the taxon occur in the Nearctic Region? Values are given for all valid names. See under Biotic Region for definition of area. [NE (logical, 1): Family, Genus & Species tables]

Neotropical?

Does the taxon occur in the Neotropical Region? Values are given for all valid names. See under Biotic Region for definition of area. [NT (logical, 1): Family, Genus & Species tables]

Notes

Area for various notes, always contains the author and year for preoccupied names. Certain key phrases have been coded to ensure consistency. These codes will not appear in the printed version. Otherwise, nothing will be added to the data in this field. The order of the notes corresponds to that of the list below. [NOTES (alpha, 67): Family, Genus & Species]

The code consists of a number preceded by “@.” These codes will be expanded into the appropriate phrases given below with the variable data as indicated in the brackets “[...]”

- @1 = “Preocc. “[Author(s) Year]
- @2 = “Proposed as a subgenus.”
- @3 = “Published in synonymy, validated by “[Author(s) Year: page]”
- @4 - “Suppressed by I.C.Z.N. “[Year: page]
- @5 - “In interest of stability, the author [next phrase]
- @6 - “rejects the prior type designation of ”[Author(s) Year: page]
- @7 - “rejects this valid prior name.”
- @8 - (*Nomen nudum*) “Published in synonymy, not subsequently validated by usage.”*
- @9 - “Suspension of I.C.Z.N. rules required to validate usage.”
- @10 - “Proposed without included species, first species included by “[Author(s) Year: page]
- @11 - “Designation by “gen. n., sp. n.” formula.”
- @12 - “Earlier type-designations invalid under I.C.Z.N. rules.”
- @13 - “Original type species misidentified.”
- @14 - “Validated by I.C.Z.N. “[Year: page]
- @15 - “Introduced.”
- @16 - “Unrecognized.”
- @17 - “Lectotype designated by “[Author(s) Year: page]
- @18 - (*Nomen nudum*) “Infrasubspecies (varietal) name proposed after 1960”.
- @19 - “Proposed as a group.”
- @20 - (*Nomen nudum*) “Published after 1930 without type designation”.
- @21 - (*Nomen nudum*) “Published without a diagnosis or indication”.
- @22 - (*Nomen nudum*) “Name improperly formed (verb)”.
- @23 - “Status needs to be checked; may not be synonymous”.
- @24 - “Conserved by I.C.Z.N. ” [Year: page]
- @25 - “Neotype designated by ” [Author(s) Year: page]
- @26 - (*Nomen nudum*) “Published after 1930 without a description or bibliographic reference to one”.
- @27 - (*Nomen nudum*) “Name improperly formed (adverb)”.
- @28 - (*Nomen nudum*) “Published in non-binominal work”.
- @29 - (*Nomen nudum*) “Proposed as an infrasubspecific name”.
- @30 - “Lectotype designation by inference of holotype by ”[Author(s) Year: page]
- @31 - “Automatic correction under Art. 32(d).”

* The phrase within the parens (*Nomen nudum*) is not included. It is included in the list to remind one that these phrases ONLY

apply to *nomina nuda* and that every *nomen nudum* should have a coded phrase.

For example, for a preoccupied name the author and year of the senior synonym is given, such as “Walker 1848” preceded by “@1.” The print formatting program replaces the “@1” code with “Preocc.” to create the following entry.

epistates. Alaska to N.S., s. to Oreg., Colo. & N.J.; Manchuria.

Tabanus socius Osten Sacken 1876a: 467.—N.W.T. Preocc. Walker 1848.

Tabanus epistatus Osten Sacken 1878a: 555.—n. n. *socius* Osten Sacken 1876.

Oriental?

Does the taxon occur in the Oriental Region? Values are given for all valid names. See under Biotic Region for definition of area. [OR (logical, 1): Family, Genus & Species tables]

Original-Genus

Original genus name (i.e., the generic name originally used with the specific name). The spelling found in the original publication is given, whether correct or not. [ORIGEN (alpha, 33): Species]

Original-species-group-name

Contains the original species name for species group names proposed as trinomials. [OSP (alpha, 33): Species]

The specific name with indication of original status with which the trinomial was originally proposed is entered in this field. For example, “*sodalis* var.” or “*varipennis* ssp.” for a trinomial originally proposed as a variety of *sodalis* or as a subspecies of *varipennis*. (f. = form, var. = variety, ssp. = subspecies). See “Subspecies” section under VALID-SPECIES below for more information.

NB: the contents of this field (Original species) [if not blank] is placed between the contents of the ORIGINAL-genus field and the SPECIES-group-name field.

Page

Page (or plate) on which the scientific name is found. Only one page (or plate) number is given. If a name appears in multiple places, then first page where the maximal information appears is given. For example, if a name appears in both a key and description, the page of the description is given. If a plate is cited, the number is preceded with “pl.” Arabic numbers or roman numerals are given as in the original publication. [PP (alpha, 8): Family, Genus, Species]

Page-of-designation

Page (or plate) on which the subsequent type-species designation is found. See under Page above. [SUBDESPP (alpha, 8): Genus]

Palaearctic?

Does the taxon occur in the Palaearctic Region? Values are given for all valid names. See under Biotic Region for definition of area. [PA (logical, 1): Family, Genus & Species tables]

Record Number

The record number is a unique key assigned to each record in a table and may be used a primary data key. [RECN (numeric 8): Family, Genus & Species tables].

Sex-of-type

The sex or stage of the primary type specimen(s) of a species-group name. [TYPESEX (alpha, 1): Species]. Permissible values are as follows. In the printed version, ♂ ♀ are used.

M = Male,
F = Female,
E = Egg,
P = Pupa or Puparium,
L = Larva,
A = Adult,
B = Both Sexes,
U = Unknown, and
(blank) = Not applicable.

Species-group-name

The original spelling of the species-group name. [SPNAME (alpha, 33): Species]

Species-name-ending

A code for a species-group name to indicate whether the name has an invariant (I) or variable (V) ending. [ENDING (alpha, 1): Species]

Status

A phrase to indicate the status of a name: Permissible values are:

Valid = Valid name (status code < 20)
Invalid = Invalid name (status code < 60)
Obsolete = Obsolete combination (status code = 80)
Misspelling = Mispelt name (status code = 60)
Misidentification = Incorrect use of a name based on a misidentification (status = 70)

Status Code

A code to indicate the nomenclatural status of the name, that is, whether it is available, valid, unavailable, invalid, etc. The status of names is indicated in the printed version by the typographic treatment (bold, italics, roman type faces). [STATUS (numeric, 2): Family, Genus & Species tables]. Permissible codes:

1- = Available, valid:
10 = Available, valid: [no change]
12 = Available, valid: not recognized (nomen dubium)
15 = Available, valid: *new* status
16 = Available, valid: *new* combination
17 = Available, valid: *new* [replacement] name
18 = Available, valid: replacement name
2- = Available, invalid:
20 = Available, invalid: junior synonym
22 = Available, invalid: dubious synonym
26 = Available, invalid: *new* (junior) synonym
27 = Available, invalid: unjustified new name
30 = Available, invalid: junior homonym
34 = Available, invalid: junior homonym, primary
36 = Available, invalid: junior homonym, secondary
44 = Available, invalid: justified emendation
46 = Available, invalid: unjustified emendation
5- = Unavailable:
50 = Unavailable: unspecified
54 = Unavailable: infrasubspecific name proposed after 1960.
55 = Unavailable: nomen nudum

56 = Unavailable: incorrect original spelling

57 = Unavailable: improper formation

58 = Unavailable: published in synonymy, not subsequently validated

60 = Unavailable: misspelling

70 = Unavailable: misidentification

80 = Unavailable: subsequent usage

Source

The source of the scientific work, which may be a serial or a book. [SOURCE (alpha 67): Reference table].

Taxonomic Code

The taxonomic code is a numeric sequence which allows the names to be sorted in any arrangement, usually used to encode a phylogenetic arrangement. [TAXCODE (numeric 8): Family, Genus & Species tables].

Title

The title of the scientific work. [TITLE (alpha 67): Reference table].

Type locality

The type locality for the species-group name. The format used is “Country. Major (named) political subunit: locality, ..., etc.” For single localities, each element is separated with a comma; for multiple localities (series of hierarchical locality units), commas and semicolons are used. The geographic units are always listed from LARGEST to SMALLEST units, with commas to separate logical units and semicolons to separate sets of logical units.

If the type locality is unknown, then the word “Unknown.” is used. However, in most cases type-localities are, in fact, unknown. The type locality (or localities) is (are) where the type (holotype, lectotype, neotype or syntypes) was found. Many “catalogers” think the type-locality is what is stated in the “original description” and, therefore, use the phrase “unknown” when no statement of locality is directly associated with the description. Type-locality information may also be found in titles, subsequent publications, specimen labels, or even the species group name itself. Obviously, to declare that the type-locality of *Ptinus upsaliense* Gmelin is unknown is merely revealing one’s ignorance of Latin and the rules of nomenclature!

Where obscure and obsolete names of localities (including variant spellings or misspellings) were used in the original publication, the current name is cited in brackets (e.g., Mozambique. Lourenco Marques [Maputo]).

If the name is an emendation, misspelling, new name, etc., its status along with the affected name is entered in this field. Also, the status field is coded (q.v.). Format for such is:

emend.[=emendation of] (species author);

incosp.[=incorrect original spelling of] (species author. author year: page (FR));

misid.[=misidentification] (see below);

missp.[=misspelling of] (species author);

n. n.[=new name for] (species author year of name renamed);

The type-locality field is always positioned after the “YEAR: PAGE.—” data elements in the printed format. Hence, may

contain other comments related to the name, especially in those situations where the name never has type-localities. [TYPELOC (alpha, 67): Species]

SPECIAL CASES:

Misidentifications: Misidentifications can be “general” (widespread) or specific. For example, for more than 140 years workers used “*Musca*” *radicum* of Linnaeus for an anthomyid species which breeds in waste (misidentification stems from Bouche (1833), whereas the true *radicum* of Linnaeus is the “cabbage-root maggot” (= *Delia brassicae* Wiedemann). Pont (1981) corrected this misidentification. This information would appear in the printed version as follows.

radicum. ... [the cabbage-root maggot in *Delia*]

Musca radicum Linnaeus 1758: 596.—Sweden. ...

Musca brassicae Wiedemann 1817: 17.—Germany.

audacula. ... [the coprophagous maggot in *Paregle*]

Musca audaculus Harris 1780: 121.—England. ...

radicum, authors, misid.

For these general misidentifications, a separate record is made for the misidentification, with “*radicum*” entered into species field, with “authors” in author field, and “misid.” in the type-locality field, with nothing in year, page, original genus fields.

Where the original source of the misidentification is known, the data is entered into all the appropriate fields. For example, Stuckenberg misidentified an undescribed species of *Paragus* as *Paragus bicolor* Meigen. A data record created for that misidentification generates the following printed entry:

bispinosus. Montana to New Brunswick, s. Colorado, Ohio & New Hampshire.

Paragus bispinosus Vockeroth 1986: 192.—Ontario. ...

Paragus bicolor: Stuckenberg 1954: 132.—Misid.

Incorrect Original Spellings: For multiple original spellings, a record is made for each spelling. For the incorrect spellings, “incosp.”, the valid spelling and author, followed by a period and the “author date: page” of the first revision and ending the entry with “(FR)” is placed in the field. The correct spelling is handled the same way as a typical original name record.

For an example, see under Type-Species below.

Type-species-Author

Author of a type-species. Follows the standards used for Author (q.v.). [TYPESPAU (alpha, 24): Genus]

Type-species

The name of the type species of the genus. If the species was proposed along with the genus, then only the specific name is entered. Otherwise, the full name as spelt in its original combination (genus & species) is entered. If the genus-group name is unavailable, an emendation, a new name, a misidentification, etc., its status is entered in this field along with the name it applies to. Format for such entries are:

emend. [=emendation of] (genus);

incosp. [=incorrect original spelling of] (genus);

misid. [=misidentification of] (genus);

missp. [=misspelling of] (genus); and

n. n. [=new name for] (genus renamed) [with Author of re-named genus in TYPESPAU].

[TYPESP (alpha, 67): Genus]

NB: The kind of designation is either “AU” for new names and emendations or “NA” for all other types (incosp., misid., missp., nomen nudum) of unavailable names. Also, for all genus group names, even unavailable ones, the current valid type species name and author is placed in current valid name & author fields. If the name is an incorrect original spelling, then the first revisor, Year, Bibliographic reference number & page of the revision is placed in the Author, Year and Page of subsequent designation fields.

Justified emendations require three records: one record as if the name was correctly formulated originally (Status Code = 10/20); second record for the original spelling as “incosp. —” [This record will include the first revisor (here the revisor is the person who emended the name) data (Status Code = 56)]; and third record for the author(s) who made the emendation (Status Code = 44).

For example, the flower fly genus *Chrysidimyia* Hull was originally incorrectly spelled as *Chysidimyia*. Subsequently Hull corrected the spelling to *Chrysidimyia*. Hence, to properly treat these names, three records are entered. One record is created as if *Chrysidimyia* was correctly spelled originally. This first record includes the information about type-species, status, etc. A second record is created for the original, but incorrect spelling (that is, *Chysidimyia*) and that status is indicated in the type-species field (as “incosp. *Chysidimyia*”). A third record is created for the emendation (*Chrysidimyia*), which includes the data of the source of the emendation and has the type-species field with “emend. *Chysidimyia*” [orig. spelling]. These three records generate the following final printed format:

Genus *Chrysidimyia*

Chrysidimyia Hull 1937c: 116, *chrysidimima* Hull (orig. des.).
Chysidimyia Hull 1937c: 116, incosp. *Chrysidimyia* Hull (Hull 1938: 126).

Chrysidimyia Hull 1938: 126, emend. *Chysidimyia* Hull.

Type-depository

The acronym for the institution or personal collection in which the primary type(s) of the species-group name is (are) deposited. The museum acronyms follow the standard set in Griffiths - Flies of the Nearctic Region (see table in the Collections section of the Status of Knowledge chapter). [TYPEDEP (alpha, 8): Species]

Type-genus

The genus-group name upon which the family-group name is based. If unavailable name or emendation, then its status was entered here along with the name it applies to. Format for such are:

emend. [=emendation of] (family-group name);
incosp. [=incorrect original spelling of] (family-group name);
missp. [=misspelling of] (family-group name); and
nomen nudum [unavailable name].

[TYPEGEN (alpha, 33): Family]

Type-genus Author

The author of the genus-group name that is the type of the family group name. [TGAUTHOR (alpha, 24): Family]

Valid-Family

The valid family to which the scientific name belongs. [VALIDFAM (alpha, 33): Family, Genus & Species]

Valid-Family-Group

The valid family group (subfamily, tribe) to which the scientific name belongs. [VALIDFGP (alpha, 33): Family, Genus & Species]

Valid-genus

The valid genus to which the scientific name belongs. [VALIDGEN (alpha, 33): Genus & Species]

Valid-name-of-type-species

The valid species to which the type-species of a genus-group name belongs. This data element is filled even if identical to value in the type-species data element. [CSP (alpha, 33): Genus]

Valid-species

The valid species to which the scientific name belongs. [VALIDSP (alpha, 33): Species]

Valid-subgenus

The valid subgenus to which the scientific name belongs. [VALIDSBG (alpha, 33): Genus & Species]

Year

Year of the original publication of the scientific name or work. Must be 1758 or after. [YEAR (numeric, 4): Family, Genus, Species & Reference].

Year-of-designation

Year of the subsequent designation of the type-species of a genus group name. Must be 1758 or after. [SUBDESDD (numeric, 4); Genus].

Tables (Files)

The above fields are currently grouped and ordered into 4 tables (files) as follows:

Family Table

The family table includes: Record#, Name, Author, Year, Page, Type Genus, Valid Name, Verify, Status, Family, TaxCode, Biotic Type Region, Biotic Regions, Category, Notes, Biblio Recn, Type Genus Author, Type Genus Year, Type Genus Biblio Recn, and Family Check.

Genus Table

The genus table includes: Record#, Genus, Author, Year, Page, Type Species, Verify, Status, Gender, Family, TaxCode, Biotic Type Region, Biotic Regions, Valid Genus, Valid Subgenus, Category, Type Designation, Type Species Author, SubDesAuthor, SubDesYear, SubDesPage, Current Type Sp, C Type Sp Author, Notes, Biblio Recn and Biblio Des Recn.

Species Table

The species table includes: Record#, Species, Author, Year, Page, Original Genus, Type Locality, Valid Species, Valid Sp

Author, Valid Genus, Status, Verify, Family, TaxCode, Type Kind, Type Sex, Type Depository, Biotic Type Region, Biotic Regions, Range, Notes, Valid Subgenus, Original Species and Biblio Recn.

Reference Table

The reference table includes: Author, Year, Title and Source, Biblio Recn.

List of abbreviations used

A	Adult	N. Comb.	New Combinaton
ACT	Australian Capital Territory	NE	Nearctic
AF	Afrotropical	NE, ne.	Northeast, northeastern
Arch.	Archipelago	nr.	near
AU	Australasian	NSW	New South Wales
AU	Automatic	N. Status	New Status
B	both sexes	N. Syn.	New Synonym
CD-ROM	Compact Disk-Read Only Memory	NT	Neotropical
cent.	central	NT	Neotype
Coll.	Collection	NW, nw.	Northwest, northwestern
Dist.	District	OD	Original designation
E	egg	OR	Oriental
E, e.	East, eastern	P	pupa, puparium
e. g.	<i>exempli gradia</i> or for example	p., pp.	page, pages
emend.	emendation	PA	Palaeartic
et al.	et alia	PD	Present designation
f.	form	pl., pls	Plate, plates
F	female	Preocc.	Preoccupied
fig.	figure	q. v.	quod vide
FR	First Revisor	Qld	Queensland
HT	Holotype	R.	River
I. C. Z. N.	International Commission on Zoological Nomenclature	Rep.	Republic
I., Is.	Island, islands	S, s.	South, southern
IN	Indication	SA	South Australia
incosp.	incorrect original spelling	SE, se.	Southeast, southeastern
L	larva	SM	Subsequent monotypy
LT	Lectotype	ssp.	subspecies
M	male	ST	Syntype
m.	meter(s)	T	Type
MA	Apparent monotypy	TA	Tautonymy
mi.	mile(s)	Tas.	Tasmania
misid.	misidentification	U	Unknown
missp.	misspelling	UK	Unknown
MO	monotypy	USA	United States of America
Mt., Mts.	Mount or Mountain, Mountains	var.	variety
n. n.	new name	vic.	vicinity
N, n.	North, northern	Vic.	Victoria
NA	Not applicable	W., w.	West, western
Nat.	National	WA	Western Australia

Acronyms and Names used for type depositories

AMNH	American Museum of Natural History, Department of Entomology, Central Park West at 79th St., New York, NY 10024, USA		
AMNZ	Auckland Institute and Museum, Private Bag 92018, Auckland, New Zealand		
AMS	Australian Museum, Department of Entomology, P.O. Box A285, Sydney South, New South Wales 2000, Australia		
AMUZ	Aligarh Muslim University, Department of Zoology, Aligarh, Uttar Pradesh, India		
ANIC	Australian National Insect Collection, CSIRO, Canberra, ACT, Australia		
ANSP	Academy of Natural Sciences, Department of Entomology, 19th and the Parkway, Philadelphia, PA 19103, USA		
Baggesen	Baggesen Collection		
BAUC	Beijing Agricultural University, Beijing, China		
BBM	Bernice P. Bishop Museum, Department of Entomology Collection, P. O. Box 19000A, 1525 Bernice Street, Honolulu, Hawaii 96819, USA		
BCIQT	Animal & Plant Quarantine Laboratory, Taichung Branch Office, Bureau of Commodity Inspection & Quarantine, Ministry of Economic Affairs, Taichung, Taiwan		
BMNH	The Natural History Museum, Department of Entomology, Cromwell Road, London SW7 5BD, England, UK		
BPIH	Pennsylvania Department of Agriculture Arthropod Collection, Bureau of Plant Industry, Pennsylvania Department of Agriculture, 2301 North Cameron St., Harrisburg, PA 17110, USA		
BPIM	Bureau of Plant Industry, Manila, Philippines		
CAS	California Academy of Sciences, Department of Entomology, Golden Gate Park, San Francisco, CA 94118, USA (see Arnaud 1979)		
CDFA	Collection of Arthropods, Analysis and Identification Unit, California Department of Food and Agriculture, 1220 N. St., Rm 340, Sacramento, CA 95814, USA (types of Blanc and Foote transferred to CAS; see Wasbauer 1970, Arnaud 1979)		
CMP	Carnegie Museum of Natural History, Section of Insect and Spiders, 900 Forbes Ave., Pittsburgh, PA 15213, USA		
CNC	Canadian National Collection of Insects, Centre for Land and Biological Resources Research, Biological Research Division Agriculture Canada, Ottawa, Ontario KIA 0C6, Canada		
CNMS	National Museum, Sir Marcus Fernando Mawatha, Colombo 7, Sri Lanka		
CPARJ	Centro de Pesquisas Agropecuarias Centro-Sul, EMBRAPA, Rio de Janeiro, Brazil (formerly Instituto de Biologia Vegetal) (see Zikan & Wygodzinsky 1948)		
CSUFC	Colorado State University, Department of Entomology. C.P. Gillette Arthropod Biodiversity Mu-		
		CUI	seum, Fort Collins, CO 80523, USA (types of Tephritidae transferred to USNM) Cornell University, Cornell University Insect Collection, Department of Entomology, Ithaca, NY 14850, USA
		DAC	Plant Protection Department, Ministry of Agriculture, Dokki, Cairo, Egypt
		DEI	Deutsches Entomologisches Institut, Deutschen Akademie der Landwirtschaftswissenschaften zu Berlin, Schicklerstrasse 5, 13 Eberswalde, D-1300, Germany (formerly Institut für Pflanzenschutzforschung)
		DeJean	Dejean, P.F.M.A., personal collection. Widely dispersed (Horn & Kahle 1935: 52) and some Diptera types via Robineau-Desvoidy, Bigot and Verrall-Collin Collections are now at Oxford (UMO).
		Destroyed	Used in Type depository field only if types are clearly known to have been destroyed
		Dirlbek	Dirlbek, J., Dirlbek, K., and Dirlbekova, O., personal collection. Central Research Institute for Plant Protection, Cesko-Slovenska Spolecnost Entomologicka, Vinicna 7, 128 00 Praha 2, Czech Republic
		Doleschal	Collection of C. L. Doleschall
		ENA	Universidade Federal Rural do Rio de Janeiro, Brazil (formerly Escola Nacional de Agronomia)
		ENIH	National Institute of Health, Department of Entomology, 10-35 Kamiosaki, 2-Chome, Sinagawaku, Tokyo 141, Japan
		ESEE	Entomology Society of Egypt, 14 Ramsey St., Cairo, Egypt (see Steyskal & El-Bialy 1967)
		ETHZ	Entomologisches Institut, Eidgenossische Technische Hochschule-Zentrum, Universitätsstrasse 2, Zurich CH-8006, Switzerland
		EUMJ	Ehime University, Entomological Laboratory, Matsuyama, Japan
		FMNH	Field Museum of Natural History, Roosevelt Road and Lake Shore Drive, Chicago, IL 60605, USA
		FSCA	Florida State Collection of Arthropods, Division of Plant Industry, 1911 34th St., SW, P.O. Box 147100, Gainesville, FL 32614, USA
		Germar	Germar, E.F., collection. Dispersed, some material in ZMHU, DEI, & MLUH (Horn & Kahle 1935: 89).
		HUS	Entomological Institute, Faculty of Agriculture, Hokkaido University, Sapporo, Hokkaido 060, Japan
		IEXV	Instituto de Ecologia, Apartado Postal 63, Km. 2.5 Antigua Carretera a Coatepec, 91000 Xalapa, Veracruz, Mexico
		IGPUG	Institut und Museum für Geologie und Palaeontologie, Georg-August-Universität, Göttingen, Niedersachsen, Germany (see Evenhuis 1994: 17)
		IML	Fundacion e Instituto Miguel Lillo, Universidad Nacional de Tucuman, Miguel Lillo 251, Tucuman,

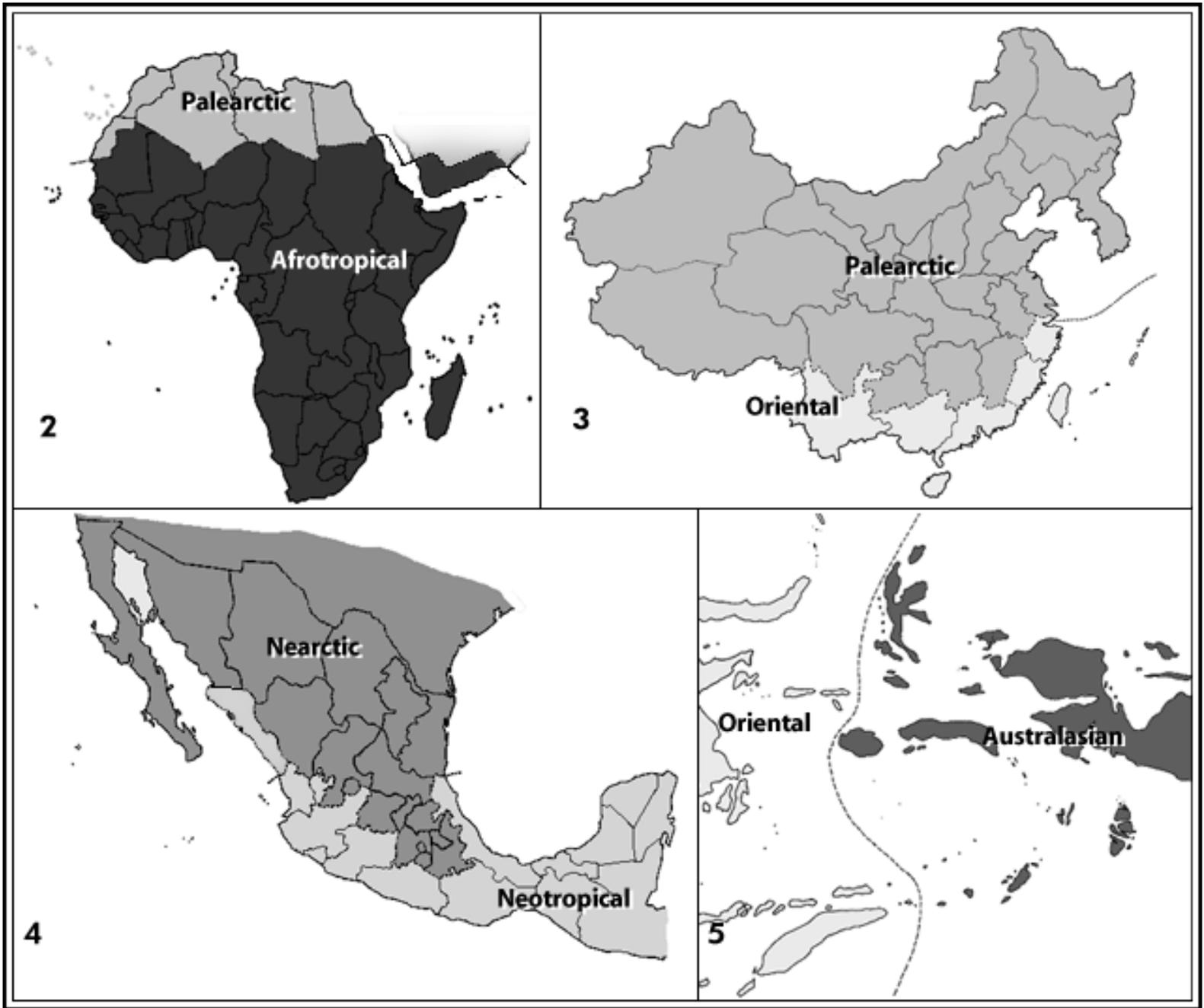
	man 4000, Argentina (see Hayward & Golbach 1963)	MCSNG	Museo Civico di Storia Naturale, "Giacomo Doria", via Brigita Liguria 9, Genoa I-16121, Italy
IMZ	Museo ed Istituto di Zoologia Sistemática, Università di Torino, Via Giovanni Giditti 34, Torino I-10123, Italy (collection possibly transferred to Museo Regionale Scienze Naturale, Via Giolitti 36, Torino 10123, Italy)	MCSNM	Museo Civico di Storia Naturale, Corso Venezia 55, Milan 20121, Italy
INHS	Illinois Natural History Survey, Insect Collection, 607 E. Peabody Drive, Champaign, IL 61820, USA	MCZ	Museum of Comparative Zoology, Entomology Department, Harvard University, 26 Oxford Street, Cambridge, MA 02138, USA
INPC	National Pusa Collections, Division of Entomology, Indian Agriculture Research Institute, New Delhi, Delhi 110012, India	Merz	Merz, B., personal collection, Entomologisches Institute, ETH -Zentrum, CH-8092, Zurich, Switzerland
IOC	Fundacao Instituto Oswaldo Cruz, Av. Brasil 4365, C.P. 926, Rio de Janeiro, Rio de Janeiro 20.000, Brazil	MEUA	Museo de Entomologia, Universidad Nacional Agraria "La Molina", Apartado 456, Lima, Peru
IPV	Instituto de Patologia Vegetal, INTA, C.C. No. 25, Castelar, Buenos Aires, Argentina	MEUV	Museo de Entomologia, Universidad del Valle, Dpto. de Biología, A.A. 25360, Cali, Colombia
IRSNB	Institut Royal des Sciences Naturelles de Belgique, Collections Nationales Belges D'Insectes et D'Arachnides, 29, Rue Vautier, Brussels B1040, Belgium	MGAB	Muzeul de Istoria Naturala, "Grigore Antipa", L. Chaussee Kisselef 1, Bucharest, Romania
ISTM	Institute Scientifique, Tananarive, Madagascar (Status uncertain. Types of some species described by Munro or Hering said to belong here (or from Paulian) are still in SANC, whereas some others are in MNHNP).	MHNL	Musee d'Histoire Naturelle de Lyon, 28 Blvd. des Belges, 69006 Lyon, France
IZAM	Instituto de Zoologia Agricola, Facultad de Agronomia, Universidad Central de Venezuela, Apt. 4579, Maracay, Aragua 2010A, Venezuela	MHNLi	Museum d'Histoire Naturelle, Lille, France (see Macquart 1850)
IZAS	Institute of Zoology, Academia Sinica, Insect Collection, 19 Zhongguancun Lu, Haidian, Beijing 100080, China	MLUH	Wissenschaftsbereich Zoologie, Sektion Biowissenschaften Martin-Luther-Universitata Halle, WB Zoologie, Domplatz 4, Halle/Salle D-4020, Germany
IZTG	Institute of Zoology, Tblisi, Georgia	MMB	Moravske Muzeum, Entomology, Preslova ul. 659 37, Brno, Czech Republic
IZUSN	Instituto di Zoologia, Università degli Studia di Napoli, Portici, Italy	MMS	MacLeay Museum, University of Sydney, Australia
Kieffer	Kieffer, J.J., personal collection. Mostly destroyed, including all Kieffer & Jorgenson neotropical types (Gagne 1994: 5)	MNHNP	Museum National d'Histoire Naturelle, National Collection of Insects, 45, rue Buffon, Paris 75005, France
Kirchbg	Kirchberg, E., personal collection	MNHNS	Mueso Nacional de Historia Natural, Casilla 787, Santiago, Chile
Kozanek	Kozanek personal collection	MNM	Magyar Termeszettudományi Muzeum Allattara (Hungarian Natural History Museum), Baross u. 13, 1088 Budapest, Hungary
KU	Kyushu University, Entomological Laboratory, Faculty of Agriculture, Hakozaki, Hi-Gashiku, Fukuoka, Kyushu 812, Japan	MRAC	Musee Royal de l'Afrique Centrale, Section d'Entomologie, Leuvenesseleweg 13, Tervuren B-3040, Belgium
KUB	Kasetsart University, Bangkok, Thailand	MSUEL	Michigan State University, Department of Entomology Collection, East Lansing, MI 48824-1115, USA
KUTK	Systematic Entomology Laboratory, Department of Agricultural Biology, Kyungpook National University, Taegu, Korea	MVMA	National Museum of Victoria, Department of Entomology, 71 Victoria Crescent, Abbotsford, Victoria 3067, Australia
LACM	Natural History Museum of Los Angeles County, Los Angeles, CA, USA	MZB	Museum Zoologicum Bogoriense, P. O. Box 110, Jalan. Juanda 3, Bogor, Java, Indonesia
LSL	Linnean Society, Burlington House, Piccadilly, London W1V 0LQ, England, UK	MZLS	Museo Zoologico "La Specola", Via Romana 17, Firenze 50125, Italy
MACN	Museo Argentino de Ciencias Naturales Bernardino Rivadavia, Division Entomologia, Av. Angel Gallardo 470, C.C. 220, SUC. 5, Buenos Aires 1405, Argentina	NIAS	Laboratory of Insect Systematics, National Institute of Agro-Environmental Sciences, Kannondai, Tsukuba, Ibaraki Pref. 305, Japan
MHNA	Museum d'Histoire Naturelle d'Autun, 14 Rue St.-Antoine, F71400 Autun, France	NMB	Naturhistorisches Museum, Entomology Department, Augustinergasse 2, Basel CH-4001, Switzerland
		NMBA	Naturhistorisches Museum der Benediktiner-Abtei Admont, Admont A-8911, Austria

- NMBZ** National Museum, Invertebrate Collection, P. O. Box 240, Centenary Park, Bulawayo, Zimbabwe (see Hancock, Chahwade & Mhlanga 1995)
- NMI** National Museum of Ireland, Insect Collection, Kildane Street and Merrion Street, Dublin 2, Co. Dublin, Ireland
- NMKE** National Museum of Kenya, Section of Entomology, P.O. Box 40658, Nairobi, Kenya
- NMNHS** Insect Collection, National Museum of Natural History, Bulgarian Academy of Sciences, Bouly. Tzar Osvobodital, Sofia BG-1000, Bulgaria
- NMP** Natal Museum, Private Bag 9070, Pietermaritzburg, Natal 3201, South Africa
- NMPC** National Museum (Natural History), Department of Entomology, Kunratice 1, Prague 4, 148 00, Czech Republic
- NMW** Naturhistorisches Museum Wien, Postfach 417, Burgring 7, Vienna A-1040, Austria
- NMWC** National Museum of Wales, Cathays Park, Subdepartment of Entomology, Department of Zoology, Cardiff, South Glamorgan CF1 3NP, Wales, UK
- NRS** Naturhistoriska Riksmuseet, Sektionen fur entomologi, Stockholm S-10405, Sweden
- NSWA** New South Wales Agricultural Scientific Collection Trust, Biological and Chemical Research Institute, P. M. B., 10, Rydalmere, New South Wales 2116, Australia
- NTU** National Taiwan University, Department of Plant Pathology & Entomology, Taipei, Taiwan (also see Government Research Institute of Formosa)
- NZAC** New Zealand Arthropod Collection, Entomology Division, Landcare Research New Zealand Ltd., Private Bag 92170, Auckland, New Zealand
- PACL** Punjab Agricultural College & Research Institute, Lyallpur, Pakistan
- PAN** Polish Academy of Science, Museum of the Institute of Zoology, Wilcza 64, Warsaw 00-679, Poland
- Payen** Payen personal collection (in "Stadt. Mus., Tournai" according to Horn & Kahle (1936: 203), a collection unknown to us).
- PIM** Paleontologicheskii Institut, Acad. Nauk, Moscow, Russia
- PQMAB** Plant Quarantine Institute, Ministry of Agriculture, Beijing
- PUCP** Punjab University, Department of Zoology, Chandigarh, Punjab, India
- QMBA** Queensland Museum, P.O. Box 3300, Brisbane, Queensland 4101, Australia
- Reaumur** Reaumur personal collection. Presumed lost.
- RNH** Nationaal Natuurhistorische Museum, Raamsteeg 2, Leiden 2311 PL, Netherlands
- Ryden** Ryden, N., personal collection, Halsingborg, Sweden
- SAFAI** Laboratorio di Entomologia, R. Stazione Sperimentale di Agrumicoltura Frutticoltura, Acireale, Sicily, Italy (status uncertain)
- SAMA** South Australian Museum, North Terrace, Adelaide, South Australia 5000, Australia
- SAMCT** South African Museum, Entomology Department, P.O. Box 61, Queen Victoria Street, Cape Town, Cape Province 8000, South Africa
- SANC** South African National Collection of Insects, Private Bag X134, Pretoria, Transvaal 0001, South Africa (see Holm & Wessels 1974)
- SDNHM** San Diego Natural History Museum, Entomology Department, Balboa Park, P.O. Box 1390, San Diego, CA 92112, USA
- Shinji** Shinji, O., personal collection, Morioka Higher Agricultural and Forestry School, Japan. Location of collection unknown (Ito 1984: 149).
- SLJG** Steiermarkisches Landesmuseum Joanneum, Abteilung fur Zoologie, Raubergasse 10, Graz A-8010, Austria
- SMF** Forschungsinstitut und Naturmuseum Senckenberg, Entomologische Section 1, Senckenberganlage 25, Frankfurt-am-Main, Hessen D-6000, Germany
- SMKM** Selangor Museum, Kuala Lumpur, Malaysia (Collection, at least in part, transferred to BMNH (see Hardy 1973: 58)).
- SMN** Staatliches Museum fur Naturkunde, Rosenstein 1, Stuttgart, Baden-Wurttemberg D-7000, Germany
- SMT** Department of Entomology Collection, Staatliches Museum fur Tierkunde, Dresden, Forschungsstelle, Augustusstrasse 2, Dresden D-8010, Germany
- Spinola** Spinola, M.M., personal collection. In Castello di Tassarolo, Novi Ligure, Italy according to Horn & Kahle (1936: 264).
- Takeuchi** Takeuchi personal collection. Possibly in UOPJ (see Ito 1984:85).
- TAUI** Insect Collection, Zoological Museum, Tel Aviv University, Tel Aviv 69978, Israel
- Tavares** Tavares, J.S., personal collection. Mostly lost except for galls now in MNHNP and SMN (see Gagne 1994: 7).
- Theowald** Theowald, Br., personal collection, Amsterdam
- TMP** Transvaal Museum, P.O. Box 413, Pretoria, Transvaal 0001, South Africa (Diptera collection transferred to NMP, but types of a few species of Tephritidae described by Bezzi or Munro retained at SANC (M. Mansell, pers. comm.)
- Tollin** Tollin, C., personal collection. Whereabouts unknown (Horn & Kahle 1936: 280).
- TUKN** Tribhuvan University, Kirtipur, Nepal
- UASK** Ukrainian Academy of Sciences, Schmalhausen Institute of Zoology, Lenin Street, 15, 252650, Kiev 30, Ukraine
- UASL** Nature Museum, Ukrainian Academy of Sciences, Lvov, Ukraine
- UCB** University of California, Essig Museum of Entomology, Department of Entomological Sciences, Berkeley, CA 94720, USA
- UCD** University of California, The Bohart Museum of Entomology, Davis, CA 95616, USA

UChS	Museo Entomologico, Universidad de Chile, Facultad de Agronomia, Casilla 1004, Santiago, Chile	USU	Utah State University, Department of Biology, Entomological Museum, Logan, UT 84332, USA
UCR	University of California, Entomological Teaching and Research Collection, Riverside, CA 92521, USA	UZMC	University of Copenhagen, Zoological Museums, Department of Entomology, Universitetsparken, Copenhagen DK-2100, Denmark
UKaL	University of Kansas, State Biological Survey of Kansas Invertebrate Collection, 2045 Constant Ave., Campus West, Lawrence, KS 66044, USA (see Byers et al. 1962).	UZMH	Zoological Museum, Finnish Museum of Natural History, University of Helsinki, P. Rautatiek 13, Helsinki, SF-00100, Finland
UMCE	Universidad Metropolitana de Ciencias de la Educacion, Santiago, Chile	WSU	Washington State University, James Entomological Collection, Department of Entomology Collection, Pullman, WA 99163, USA (see Zack 1984)
UMO	Hope Entomological Collections, University Museum, Park Road, Oxford, Oxfordshire OX1 3PW, England, UK	Zaka-Rab	Zaka-ur-Rab, M., personal collection. Possibly in AMUZ.
UMSP	University of Minnesota, Department of Entomology, 219 Hodson Hall, 1980 Folwell Ave., St. Paul, MN 55108, USA	ZFMK	Zoologisches Forschungsinstitut und Museum "Alexander Koeing", Adenaueralle 160, Bonn D-5300, Germany
UNAM	Universidad Nacional Autonoma de Mexico, Coleccion Entomologica, Instituto de Biologia, Apdo. Postal 70133, Mexico, Distrito Federal 04510, Mexico	ZIL	Museum of Zoology, Lund University, Helgonav 3, Lund S-223, Sweden
Unknown	Depository of types not stated in publication and unknown to us.	ZISP	Zoological Museum, Academy of Sciences, Russian Academy of Sciences, Universitetskaya, Naberzhnaya B-164, St. Petersburg, Russia
UOPJ	Entomological Laboratory, University of Osaka Prefecture, Mosu, Umemachi Sakai, Osaka 593, Japan	ZMAN	Zoologisch Museum, Instituut voor Taxonomische Zoologie, Universiteit van Amsterdam, Plantage Middenlaan 64, Amsterdam 1018 DH, Netherlands
UPRG	Universidad Nacional "Pedro Ruiz Gallo", Departamento de Fitotecnica, Museo de Entomologia, Apartado 3, Lambayeque, Lambayeque, Peru	ZMHU	Museum fur Naturkunde der Humboldt Universitat zu Berlin, Bereich Zoologisches Museum, Invalidenstrasse 43, Berlin, D-1040, Germany
UQIC	Insect Collection, Department of Entomology, University of Queensland, Saint Lucia, Queensland 4067, Australia (Holotypes were transferred to QMBA)	ZMM	Zoological Museum, University of Moscow, Herzen str. 6, Moscow 103009, Russia
USNM	United States National Museum of Natural History, United States National Entomological Collection, Washington, DC 20560, USA	ZSBS	Zoologische Staatssammlung, Munchhausenstrasse 21, Munchen 60, Bayern D-8000, Germany
USP	Museu de Zoologia, Universidade de Sao Paulo, Biblioteca, 7172, Sao Paulo, Sao Paulo 01.051, Brazil	ZSI	Zoological Survey of India, National Zoological Collection, 34, Chittaranjan Avenue, Calcutta, West Bengal 700 012, India
		ZSZMH	Zoologisches Staatsinstitut und Zoologisches Museum, Hamburg, Germany



Fig. 1. Biotic Regions of the World



Figs. 2-5. Boundaries between biotic regions.

Systematic Database of Names

by Allen L. Norrbom, Lynn E. Carroll, F. Christian Thompson, Ian M. White & Amnon Freidberg

Genus *ACANTHIOPHILUS*

Acanthophilus Becker 1908[374]: 136, *Tetanocera walkeri* Wollaston (OD). [6600182]

REFS—Bezzi 1924[472]: 139 (key to 3 spp. (obsolete) [AF]); Bezzi 1926[476]: 295 (key to 7 spp. (obsolete) [AF: South Africa]); Hendel 1927[2108]: 203 (key to 2 spp. [PA]); Kapoor 1993[2600]: 56 (key to 2 spp. [OR: India]).

astrophorus. Sri Lanka [OR].

Acanthophilus astrophorus Hering 1939[2182]: 187.—Sri Lanka. Western: Colombo. LT ♀ NMW. Lectotype designated by Hardy 1968: 129. [6602422]

brunneus. Ethiopia, e. Zaire, Uganda, Kenya [AF].

Acanthophilus brunneus Munro 1934[3467]: 4.—Zaire. Kivu: Burunga (1°30'S 29°18'E). HT ♀ AMNH. [6603522]

ciconia. Uganda, Kenya [AF].

Acanthophilus ciconia Munro 1957[3510]: 1025.—Kenya. Aberdare Range, Mt. Kinangop, 10000 ft. HT ♂ BMNH. [6603741]

coarctatus. Cameroon [AF].

Acanthophilus coarctatus Hering 1942[2207]: 14.—Cameroon. Uam region, near Bosum. ST ♂ ♀ ZMHU. [6602602]

helianthi. Europe, E to Mongolia, S to n. & e. Africa, Afghanistan & Thailand [PA, AF, OR].

Musca helianthi Rossi 1794[4222]: 73.—Italy. “Etruria” [Tuscany?]. ST A ZMHU? Type data (Thompson & Pont 1993: 82). [6604162]

Trypeta eluta Meigen 1826[3306]: 344.—France. Fontainebleau; & Niemes; Portugal; & Germany. Stolberg. ST ♂ ♀ MNHNP. Also possibly ST in ZMHU. [6603447]

Acanthophilus helianthi Bezzi 1918[456]: 41.—missp. *helianthi* Rossi. [6605053]

koehleri. Cameroon [AF].

Acanthophilus koehleri Hering 1940[2188]: 31.—Cameroon. Southwest: Mt. Cameroon, near Johann-Albracht Hutte, 2500 m. HT ♂ BMNH. [6602466]

Acanthophilus köhleri Hering 1940[2188]: 31.—incosp. *koehleri* Hering. Automatic correction under Art. 32(d). [6605712]

lugubris. India (Tamil Nadu) [OR].

Acanthophilus lugubris Hering 1939[2182]: 187.—India. Tamil Nadu: Kodaikanal. HT ♀ MNHNP. [6602421]

melanoxanthus. Cameroon [AF].

Acanthophilus melanoxanthus Hering 1938[2180]: 407.—Cameroon. Uam region, Bosum. ST ♂ ♀ ZMHU. [6602307]

trypaneodes. Ethiopia [AF].

Acanthophilus trypaneodes Hering 1937[2173]: 263.—Ethiopia. Harrar [Harar: Harar]. ST ♂ ♀ ZMHU. [6602285]

walkeri. Madeira Is., Canary Is. [PA].

Tetanocera walkeri Wollaston 1858[5174]: 116.—Madeira Is. Madeira: Santa Cruz. LT ♀ BMNH. Lectotype designated by Merz 1992: 224. [6604762]

Genus *ACANTHONEVRA*

Acanthonevra Macquart 1843[3076]: 377, *fuscipennis* Macquart (OD). [6600494]

Chaetomerella Meijere 1914[3319]: 212, *nigrifacies* Meijere (MO). [6600229]

Rioxoptilona Hendel 1914[2102]: 78, *Trypeta vaga* Wiedemann (OD). [6600353]

Yunacantha Chen & Zia 1963[816]: 643, *nigrolimbata* Chen & Zia (OD). [6600366]

Erectovena Ito 1984[2416]: 59, *Rioxoptilona speciosa* Hendel (OD). [6600442]

Lenitovena Ito 1984[2416]: 52, *Trypeta trigona* Matsumura (OD). [6600441]

Erektovena Ito 1984[2416]: 62, incosp. *Erectovena* Ito, by present revision. [6600909]

Acanthineura Agassiz 1846[52]: 1, missp. *Acanthonevra* Macquart. [6601016]

Acanthoneura Schiner 1868[3316]: 228, missp. *Acanthonevra* Macquart. [6600654]

Acanthoneura Hardy 1977[1946]: 61, missp. *Acanthonevra* Macquart. [6600935]

REFS—Shiraki 1933[4432]: 296, 307 ((*Acanthoneura* & *Rioxoptilona*) keys to 5 spp. [PA, OR: Japan, Korea & Taiwan]); Malloch 1939[3137]: 431 ((*Acanthoneura*) key to 3 spp. (obsolete) [AU]); Hardy 1951[1922]: 170 ((*Acanthoneura*) key to 4 spp. [AU: Australia]); Hardy 1973[1942]: 82 (key to 12 spp. [OR: Southeast Asia]); Hardy 1986[1962]: 13 (key to 13 spp. [OR, AU: Indonesia & New Guinea]); Ito 1984[2416]: 52 (key to 5 spp. [PA: Japan]); Kwon 1985[2802]: 60 (key to 2 spp. [PA: Korea]); Korneyev 1990[2732]: 117 (key to 5 spp. [PA: e. Russia]); Kapoor 1993[2600]: 36 (key to 10 spp. [OR: India]).

affluens. Burma [OR].

Acanthoneura affluens Hering 1951[2214]: 1.—Burma. HT ♂ BMNH. [6602649]

amurensis. e. Russia (Primorskiy) [PA].

Ptilona amurensis Portschiński 1892[3876]: 214.—Russia. Amur, Wladiwostok [Primorskiy: Vladivostok]. LT ♀ ZISP. Lectotype designation by inference of holotype by Korneyev 1990: 119. [6604001]

ceramensis. Malaysia (Sabah), Indonesia (Maluku) [OR, AU].

Acanthoneura dunlopi var. *ceramensis* Meijere 1913[3315]: 61.—Indonesia. Maluku: Ceram [Seram Laut]. LT ♂ ZMAN. Lectotype designated by Hardy 1986: 15. [6604912]

continua. Malaysia (Sabah) [OR].

Acanthoneura continua Hardy 1986[1962]: 15.—Malaysia. Sabah: 19 km. N of Kalabakan, forest camp. HT ♀ BBM. [6601773]

desperata. Thailand, Laos, Vietnam [OR].

Rioxoptilona desperata Hering 1939[2182]: 176.—Vietnam. Mont de Chaudoc. HT ♀ MNHNP. [6602408]

dunlopi. India to Thailand, Malaysia & Indonesia (E to Java & Borneo) [OR].

Ptilona dunlopi Wulp 1880[5209]: 186.—Indonesia. Sumatra: Padang. HT ♀ ZMAN. HT apparently lost (Hardy 1986: 16). [6604769]

formosana. e. Russia, Korea, Japan, China, Taiwan, India, Thailand, Vietnam [PA, OR].

Acanthoneura formosana Enderlein 1911[1326]: 419.—Taiwan. Kosempo. HT ♀ PAN. [6601142]

Acanthoneura amamioshimaensis Shiraki 1968[4435]: 57.—Japan. Ryukyu Is.: Amami-Oshima I. HT ♀ NIAS. [6604350]

- fuscipennis**. India, Thailand, w. Malaysia, Indonesia (Sumatra, Java) [OR].
Acanthonevra fuscipennis Macquart 1843[3076]: 378.—Bengale [e. India or Bangladesh]. LT ♀ MNHNP. Lectotype designation by inference of holotype by Hardy 1973: 87. [6603211]
Trypeta polyxena Osten Sacken 1881[3721]: 462.—Indonesia. Java. HT ♀ MCSNG. Type data (Hardy 1986: 17). [6603943]
Acanthonevra batata Enderlein 1911[1326]: 417.—Indonesia. Sumatra: Soekaranda. ST ♀ PAN. Inference of HT by Hardy 1973: 93 & 1986: 17 invalid. [6601141]
Acanthonevra synopica Hering 1952[2218]: 278.—Indonesia. s. Sumatra: Wai Lima, Lampongs. HT ♂ RNH. [6602678]
Acanthonevra siamensis: Tan, Hanifah & Chen 1994[4750]: 29.—misid. See Hancock & Drew 1995: 46. [6605876]
- gravelyi**. India (W. Bengal), Burma, Thailand, Laos [OR].
Acanthonevra gravelyi Munro 1935[3473]: 24.—India. W. Bengal: e. Himalayas, Darjeeling Dist., Pashok, 2000 ft. HT ♂ ZSI. [6603539]
Acanthonevra ochropleura Hering 1951[2214]: 4.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ BMNH. Type locality not stated by Hering, from HT label data. **N. Syn.** [6602659]
- hemileina**. India (Tamil Nadu, Arunachal Pradesh), Thailand, Vietnam [OR].
Acanthonevra hemileina Hering 1939[2182]: 173.—India. Tamil Nadu: Trichinopolis. HT ♀ MNHNP. [6602405]
- imparata**. India (Kerala) [OR].
Acanthonevra imparata Hering 1951[2214]: 3.—India. Kerala: Anamalai Hills, 4000-5000 ft. HT ♂ BMNH. [6602657]
- incerta**. Indonesia (Irian Jaya) [AU].
Acanthonevra incerta Hardy 1986[1962]: 18.—Indonesia. Irian Jaya: Star Mts., Sibil Valley, 1245 m. HT ♀ BBM. [6601788]
- inermis**. India (Kerala) [OR].
Acanthonevra inermis Hering 1951[2214]: 5.—India. Kerala: Anamalai Hills, 4000-5000 ft. HT ♂ BMNH. [6602660]
- marginata**. Thailand [OR].
Acanthonevra marginata Hardy 1973[1942]: 89.—Thailand. NE of Bangkok, Pak Chong, 100 m. HT ♀ BBM. [6601625]
- melanopleura**. Taiwan [OR].
Acanthonevra melanopleura Hering 1951[2214]: 4.—Formosa [Taiwan]. HT ♂ BMNH. [6602658]
- melanostoma**. China, Japan [PA].
Acanthonevra melanostoma Hering 1941[2196]: 19.—China. Heilongjiang: Maoershan. HT ♂ BMNH. [6602514]
- nigrifacies**. Indonesia (Java) [OR].
Chaetomerella nigrifacies Meijere 1914[3319]: 212.—Indonesia. Java: Gunung Gedeh [Mt. Gede]. HT ♂ ZMAN. Type data (Hardy 1986: 20). [6604931]
Acanthonevra lieftincki Hering 1952[2218]: 281.—Indonesia. w. Java: Mt. Gede, Tjibeureum, above Tjibodas, 1700 m. HT ♂ RNH. [6602680]
- nigrolimbata**. China (Yunnan), n. Vietnam, w. Malaysia [OR].
Yunacantha nigrolimbata Chen & Zia 1963[816]: 643.—China. Yunnan: Siao-meng-yan [Xiaomengyang], 1000 m. HT ♂ IZAS. Type locality erroneously stated as Xi-Sang-Ban-Na on p. 648. [6600727]
- normaliceps**. Indonesia (Sumatra) [OR].
Acanthonevra normaliceps Enderlein 1911[1326]: 420.—Indonesia. Sumatra: Soekaranda. ST ♂ PAN. Inference of HT by Hardy 1986: 20 invalid. [6601143]
- notabilis**. Indonesia (Sumatra) [OR].
Ptilona notabilis Wulp 1880[5209]: 187.—Indonesia. Sumatra: Padang. HT ♀ ZMAN. Lectotype designated by Hardy 1969: 477 invalid, described from one female. [6604770]
- ornatipennis**. Burma, Thailand [OR].
Acanthonevra ornatipennis Hering 1951[2214]: 2.—Burma. HT ♀ BMNH. [6602656]
- parvisetalis**. China (Fujian) [OR].
Rioxoptilona parvisetalis Hering 1939[2183]: 144.—China. Fujian: Kwang-Tseh. HT ♂ ZFMK. [6602426]
- pteropleuralis**. Russia (Primorskiy), China, Korea, Japan [PA].
Acanthonevra pteropleuralis Hendel 1927[2107]: 58.—Russia. Amur Region. ST ♂ ♀ Unknown. [6602137]
- quatei**. Thailand, Vietnam [OR].
Dirioxa quatei Hardy 1973[1942]: 99.—Vietnam. Ban Me Thuot, 500 m. HT ♂ BBM. [6601627]
- scutellopunctata**. Indonesia (Kalimantan) [OR].
Acanthonevra scutellopunctata Hering 1952[2218]: 279.—Indonesia. Kalimantan: Balikpapan, Mentawir R., 50 m. HT ♀ RNH. [6602679]
- setosifemora**. Philippines (Mindanao) [OR].
Acanthonevra setosifemora Hardy 1974[1943]: 66.—Philippines. Mindanao, Misamis Oriental: Mt. Empagatao, 1050-1200 m. HT ♂ BBM. [6601667]
- shinonagai**. Malaysia (Sabah, Sarawak) [OR].
Acanthonevra shinonagai Hardy 1986[1962]: 25.—Malaysia. Sabah: 50 km. SW of Kota Kinabalu, Papar. HT ♀ BBM. [6601790]
- siamensis**. Thailand [OR].
Acanthonevra siamensis Hardy 1973[1942]: 93.—Thailand. Chiang Mai: Fang, 500 m. HT ♂ BBM. [6601626]
- soluta**. Burma, Thailand [OR].
Rioxa soluta Bezzi 1913[448]: 114.—Burma. Tenasserim. HT ♂ ZSI. [6600200]
- speciosa**. Korea, Japan, Taiwan, Indonesia (Java) [PA, OR].
Rioxoptilona speciosa Hendel 1915[2105]: 445.—Taiwan. Hoozan. HT ♂ DEI. [6602089]
- sumbawana**. Indonesia (Nusa Tenggara) [OR].
Acanthonevra sumbawana Hering 1941[2192]: 31.—Indonesia. Nusa Tenggara: Soembawa [Sumbawa I.], Batoe Doelang. HT ♀ DEI. [6602478]
- trigona**. Russia (Primorskiy), Korea, n. China, Japan (Hokkaido to Kyushu) [PA].
Trypeta trigona Matsumura 1905[3219]: 117.—Japan. Hokkaido. ST ♂ ♀ HUS. [6603382]
Acanthonevra trigona ssp. *sinica* Zia 1938[5309]: 16.—China. se. Gansu: Cheumen [Yumen]. HT ♂ IZAS. [6604845]
Acanthonevra amurensis: Hendel 1927[2107]: 58.—misid. See Korneyev 1990: 120. [6605253]
- trigonina**. China (Zhejiang) [PA].
Rioxoptilona trigonina Zia 1963[5313]: 639.—China. Zhejiang: Tianmushan. HT ♂ IZAS. [6604870]
- ultima**. Burma [OR].
Acanthonevra ultima Hering 1941[2190]: 5.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. ST ♂ ♀ NRS. [6602472]
- uncinata**. Burma [OR].
Pseudacidia uncinata Hering 1938[2181]: 35.—Burma. s. Shan: Road 40 km. E of Taunggyi. HT ♀ NRS. **N. Comb.** [6602364]
- unicolor**. Taiwan [OR].
Diarrhegma unicolor Shiraki 1933[4432]: 303.—Taiwan. Kanshirei; Arisan. ST ♂ ♀ NTU. [6604296]
- vaga**. India, Burma, China (Yunnan), Vietnam, Thailand, w. Malaysia, Indonesia [OR].
Trypeta vaga Wiedemann 1830[5136]: 490.—Bengalen [Bangladesh or e. India]. ST ♀ Bagesen. [6604733]
Trypeta mutyca Walker 1849[4957]: 1036.—East India [error, Burma. Mon: Moulmein]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 217. [6604576]

Acanthoneura robusta Zia 1963[5313]: 641.—China. Yunnan: Xi-Sang-Ban-Na [Xishuangbanna], Da-meng-lung, 650 m. HT ♀ IZAS. [6604873]

varipes. Japan (Shikoku, Kyushu), Taiwan [PA, OR].

Chaetomerella varipes Chen 1948[814]: 87.—Formosa [Taiwan]. HT A IZAS. Described from both sexes, but sex of HT not specified. [6600719]

vidua. India (Sikkim) [OR].

Rioxa vidua Bezzi 1913[448]: 113.—India. Sikkim. HT ♀ ZSI. [6600199]

Genus ACANTHONEVROIDES

Acanthonevroides Permkam & Hancock 1995[3795]: 1053, *Urophora bicolor* Macquart (OD). [6600992]

REF.—Permkam & Hancock 1995[3795]: 1053 (revision of 5 spp. [AU]).

basalis. Australia (SA) [AU].

Trypeta basalis Walker 1853[4959]: 380.—Brazil [error, not neotropical]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 211 (also see Foote 1964: 319, but LT is female). **N. Comb.** [6604587]

Urophora bicolor Macquart 1855[3087]: 144.—Australia. South Australia: Adelaide. LT ♂ UMO. Lectotype designation by inference of holotype by Collin in Hardy 1951: 172, sex of LT misstated by Macquart. **N. Syn.** [6603250]

jarvisi. Australia (se. Qld.) [AU].

Rioxa jarvisi Tryon 1927[4832]: 221.—Australia. Queensland: Stanthorpe. HT ♀ QMBA. [6604547]

mayi. Australia (se. Qld.) [AU].

Acanthonevroides mayi Permkam & Hancock 1995[3795]: 1056.—Australia. Queensland: Gayndah. HT ♂ QMBA. [6605842]

nigriventris. Australia (se. Qld., NSW, ACT, Vic.) [AU].

Acanthoneura nigriventris Malloch 1939[3137]: 432.—Australia. New South Wales: Wattle Flat. HT ♀ AMS. Depository misstated by Permkam & Hancock 1995: 1059. [6603353]

variegatus. Australia (w. cent. WA, s. NT, se. Qld.) [AU].

Acanthonevroides variegatus Permkam & Hancock 1995[3795]: 1061.—Australia. Western Australia: Kalbarrie. HT ♂ AMS. [6605843]

Genus ACIDIA

Acidia Robineau-Desvoidy 1830[4148]: 720, *Tephritis cognata* Wiedemann, Rondani 1870[2104]: 10 (SD). Rondani designation valid, White (1986:146) in error. [6600208]

Prionimera Rondani 1861[4196]: 10, n. n. *Epidesmia* Rondani. [6600210]

Epidesmia Rondani 1856[4195]: 112, *Tephritis cognata* Wiedemann (OD). Preocc. Westwood 1840. [6600209]

Epidesmya Rondani 1861[4196]: 10, missp. *Epidesmia* Rondani. [6600875]

Acydia Rondani 1870[4205]: 10, missp. *Acidia* Robineau-Desvoidy. [6600855]

Alcidia Woodworth 1913[5204]: 137, missp. *Acidia* Robineau-Desvoidy. [6600912]

Priominera Foote 1984[1517]: 68, missp. *Prionimera* Rondani. Attributed to “authors”. [6600937]

Priomimera Foote 1984[1517]: 68, missp. *Prionimera* Rondani. Attributed to “authors”. [6600936]

cognata. British Is. & Scandinavia S to n. Italy & Ukraine [PA].

Tephritis cognata Wiedemann 1817[5130]: 75.—Germany. Holstein. T A NMW? [6604707]

japonica. e. Russia, Japan (Hokkaido, Honshu, Kyushu) [PA].

Acidia japonica Shiraki 1933[4432]: 237.—Japan. Hokkaido: Sapporo; Honshu: Aomori; Kamikochi. ST ♂ ♀ NTU. [6604285]

Trypeta fulvoabdominalis Shinji 1939[4422]: 290.—Japan. Honshu: near Morioka, Kami-Hei dist., near Kawai Station. HT ♀ Shinji. [6604251]

Genus ACIDIELLA

Acidiella Hendel 1914[2102]: 83, *longipennis* Hendel (OD). Proposed as a subgenus. [6600211]

Pseudacidia Shiraki 1933[4432]: 216, *Acidia issikii* Shiraki, Hardy 1977[1946]: 113 (SD). Proposed as a subgenus. [6600312]

Tetramyiolia Shiraki 1933[4432]: 342, *sapporensis* Shiraki (OD). [6600332]

Sineuleia Chen 1948[814]: 105, *Myiolia consobrina* Zia (OD). [6600717]

Matsumuracidia Ito 1949[2402]: 55, *mira* Ito (OD) = *kagoshimensis* Miyake. [6600270]

Pogonangelus Ito 1984[2417]: 109, *pachypogon* Ito (OD). [6600448]

Ihekaze Ito 1984[2418]: 180, *Acidiella diversa* Ito (OD). [6600456]

Longiusculala Ito 1984[2419]: 194, *Acidia maculata* Shiraki (OD). [6600462]

Ihekaze Ito 1956[2407]: 25, *Nomen nudum*. [6600806]

Pogonangelus Ito 1956[2407]: 24, *Nomen nudum*. [6600800]

REFS—Shiraki 1933[4432]: 218, 249 ((*Acidiella* & *Pseudacidia*) keys to 9 spp. [PA, OR: Japan, Korea & Taiwan]); Hering 1938[2181]: 30 ((*Pseudacidia*) key to 7 spp. [OR]); Ito 1984[2419]: 201 ((*Pseudacidia*) key to 4 spp. [PA: Japan]); Kapoor 1993[2600]: 50 (key to 5 spp. [OR: India]).

abdominalis. China (Gansu) [PA].

Myiolia abdominalis Zia 1938[5309]: 45.—China. se. Gansu: Cheumenn [Yumen]. ST ♀ IZAS. [6604856]

ambigua. Taiwan [OR].

Pseudacidia ambigua Shiraki 1933[4432]: 230.—Taiwan. Arisan. HT ♀ NTU. [6604282]

angustifrons. India (Kashmir) [OR].

Myiolia angustifrons Hendel 1927[2107]: 102.—India. Kashmir. HT ♀ NMW. Type data (Hardy 1968: 115). [6602115]

arisanica. Taiwan [OR].

Acidiella arisanica Shiraki 1933[4432]: 258.—Taiwan. Arisan. HT ♀ NTU. [6604288]

bimaculata. Papua New Guinea (Morobe) [AU].

Myoleja bimaculata Hardy 1987[1963]: 318.—Papua New Guinea. Morobe: near Bulolo, Stony Logging Area. HT ♂ BBM. [6601829]

circumvaga. Japan (Honshu) [PA].

Pseudacidia circumvaga Ito 1984[2419]: 201.—Japan. Honshu: Sinano, Kamikochi. HT ♂ UOPJ. [6602823]

Acidiella circumvaga Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604981]

consobrina. China (Sichuan, Hunan, Zhejiang) [PA].

Myiolia consobrina Zia 1937[5308]: 170.—China. Zhejiang: Tien-Mu-Shan [Tianmushan]. HT A IZAS. Described from both sexes, but sex of HT not specified. [6604836]

contraria. India, Nepal [OR].

Trypeta contraria Walker 1853[4959]: 385.—East Indies [error, India]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 212. [6604591]

- dilutata*. Japan (Honshu) [PA].
Shiracidia dilutata Ito 1984[2417]: 113.—Japan. Honshu: Sinano, Tokugo-toge. HT ♀ UOPJ. [6602797]
Pseudacidia dilutata Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604973]
- disjuncta*. Japan (Honshu) [PA].
Pseudacidia disjuncta Ito 1953[2406]: 20.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. [6602775]
- diversa*. Japan (Honshu, Shikoku, Kyushu) [PA].
Acidiella diversa Ito 1952[2405]: 5.—Japan. Kyushu: Osumi, Sata. HT ♂ UOPJ. [6602773]
- formosana*. Taiwan [OR].
Myiolia formosana Shiraki 1933[4432]: 264.—Taiwan. Tamaru. HT A NTU. Described from both sexes, but sex of HT not specified. [6604290]
- funesta*. Burma [OR].
Pseudacidia funesta Hering 1938[2181]: 31.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602358]
Trypeta enigmatica Hering 1938[2181]: 40.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602373]
- fuscibasis*. China (Fujian) [OR].
Acidiella fuscibasis Hering 1953[2221]: 6.—China. Fujian: Kuatun. HT ♀ ZFMK. [6602714]
- issikii*. Korea [PA].
Pseudacidia issikii Shiraki 1933[4432]: 219.—South Korea. Koryo. HT ♀ NTU. [6604276]
- japonica*. Japan [PA].
Myiolia japonica Hendel 1927[2107]: 103.—Japan. Honshu, Kyoto [Kyoto]. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 115. [6602116]
- kagoshimensis*. Japan (Honshu, Shikoku, Kyushu) [PA].
Acidia kagoshimensis Miyake 1919[3391]: 150.—Japan. Kyushu: Kagoshima. HT ♀ Unknown. HT probably lost (Shiraki 1933: 261). [6603458]
Matsumuracidia mira Ito 1949[2402]: 55.—Japan. Honshu: Osaka Prov., Takatuki. HT ♂ UOPJ. [6602761]
Myiolia kagoshimensis Hendel 1927[2107]: 103.—missp. *kagoshimensis* Miyake. [6605493]
- lineata*. Taiwan [OR].
Pseudacidia lineata Shiraki 1933[4432]: 232.—Taiwan. Musha. HT ♀ NTU. [6604283]
- longipennis*. Burma, Taiwan, Philippines, Indonesia (Java) [OR].
Acidiella longipennis Hendel 1914[2102]: 83.—Formosa [Taiwan]. T A MNM. [6601937]
Acidiella longipennis Hendel 1915[2105]: 457.—Taiwan. Tapani. HT ♂ MNM. Preocc. Hendel 1914. [6602102]
- maculata*. Japan (Honshu, Kyushu) [PA].
Pseudacidia maculata Shiraki 1933[4432]: 235.—Japan. Honshu: near Osaka, Minomo. HT ♂ NTU. [6604284]
- maculinotum*. Burma [OR].
Pseudacidia maculinotum Hering 1938[2181]: 32.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602360]
- maculipennis*. China (Sichuan) [PA].
Myiolia maculipennis Hendel 1927[2107]: 104.—China. Sichuan: Mt. Omei [Emei Shan]. T ♀ USNM. [6602118]
- malaisei*. Burma [OR].
Pseudacidia malaisei Hering 1938[2181]: 32.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602359]
- pachypogon*. Korea, Japan (Honshu) [PA].
Pogonangelus pachypogon Ito 1984[2417]: 110.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. [6602796]
Pogonangelus assimilis Kwon 1985[2802]: 67.—South Korea. Kyonggi: Kwangnung. HT ♀ KUTK. [6602913]
Pogonangelus pachypogon Ito 1956[2407]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604962]
- persimilis*. Taiwan [OR].
Acidiella persimilis Hendel 1915[2105]: 457.—Taiwan. Tapani. HT ♀ MNM. [6602101]
- pseudolineata*. Burma [OR].
Pseudacidia pseudolineata Hering 1938[2181]: 33.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602361]
- rectangularis*. Taiwan [OR].
Myiolia rectangularis Munro 1935[3477]: 258.—Formosa [Taiwan]. HT ♂ DEI. [6603557]
- retroflexa*. China (Sichuan) [PA].
Sineuleia retroflexa Wang 1990[4997]: 484.—China. Sichuan: Mt. Emei [Emei Shan], 2070 m. HT ♂ IZAS. N. Comb. [6605009]
- rioxaeformis*. India (Himachal Pradesh) [OR].
Acidia rioxaeformis Bezzi 1913[448]: 143.—India. Himachal Pradesh: Simla, 7000 ft. ST ♂ ♀ ZSI. [6600219]
- sapporensis*. Japan (Hokkaido) [PA].
Tetramyiolia sapporensis Shiraki 1933[4432]: 344.—Japan. Hokkaido: Sapporo. HT ♂ NTU. [6604298]
- scelestia*. Burma [OR].
Pseudacidia scelestia Hering 1938[2181]: 34.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602362]
- sepulcralis*. Burma [OR].
Acidiella sepulcralis Hering 1938[2181]: 27.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602355]
- spinifera*. Burma [OR].
Pseudacidia spinifera Hering 1938[2181]: 34.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602363]
- trigenata*. India (Uttar Pradesh) [OR].
Vidalia trigenata Munro 1938[3483]: 28.—India. Uttar Pradesh: Naini Tal. HT ♀ ZSI. Type data (Kapoor 1994: 102). [6603612]
- turgida*. China [PA].
Pseudacidia turgida Hering 1939[2182]: 170.—China. Heilongjiang: Maershan. HT ♀ BMNH. [6602402]
- yasumatsui*. Japan (Shikoku, Kyushu) [PA].
Pseudacidia yasumatsui Ito 1949[2400]: 40.—Japan. Kyushu: Chikuzen, Fukuoka. HT ♀ KU. [6602763]

Genus ACIDIOSTIGMA

- Acidiostigma* Hendel 1927[2107]: 101. *Myiolia longipennis* Hendel (MO). Proposed as a subgenus. [6600628]
Parahypenidium Shiraki 1933[4432]: 203. *Hypenidium polyfasciatum* Miyake (OD). [6600299]
Shiracidia Ito 1984[2417]: 111. *Trypeta s-nigrum* Matsumura (OD). [6600449]
Parahypenidium Foote 1984[1517]: 111, missp. *Parahypenidium* Shiraki. [6600938]
- REFS—Wang 1990[4995]: 315 (key to 5 spp. [PA, OR]); Kapoor 1993[2600]: 50 (key to 2 spp. [OR: India]).
- amoenum*. China (Sichuan) [PA].
Acidiostigma amoena Wang 1990[4995]: 315.—China. Sichuan: Nanping, 3000 m. HT ♂ IZAS. [6605010]
- apicale*. India (W. Bengal) [OR].
Acidia apicalis Bezzi 1913[448]: 144.—India. W. Bengal: Darjeeling, 7000 ft. HT ♂ ZSI. [6600220]
- brunneum*. China (Yunnan) [OR].
Parahypenidium brunneum Wang 1990[4992]: 226.—China. Yunnan: Lushui (25°N 98°E), 2300 m. HT ♂ IZAS. [6605006]
- harmandi*. India (W. Bengal) [OR].
Parahypenidium harmandi Seguy 1934[4345]: 9.—India. W. Bengal: Dardjiling [Darjeeling]. T ♂ MNHNP. [6605278]

- longipenne.** China (Sichuan) [PA].
Myiolia longipennis Hendel 1927[2107]: 103.—China. Sichuan. LT ♂ NMW. Lectotype designated by Hardy 1968: 115. [6602117]
- lucens.** India (W. Bengal) [OR].
Euleia lucens Munro 1935[3473]: 22.—India. W. Bengal: e. Himalayas, Darjiling [Darjeeling], 6000-7000 ft. HT ♀ ZSI. [6603538]
- nigrinum.** China (Yunnan) [OR].
Parahypenidium nigrinum Wang 1990[4992]: 227.—China. Yunnan: Ruili (24°N 97°E). HT ♂ IZAS. [6605007]
- polyfasciatum.** Korea, Japan (Hokkaido, Honshu, Shikoku, Kyushu) [PA].
Hypenidium polyfasciatum Miyake 1919[3391]: 149.—Japan. Honshu: Nagano Pref., Kiso-Fukushima. HT ♀ Unknown. HT presumed lost (Shiraki 1933: 207). [6603457]
- postsignatum.** China (Zhejiang) [PA, OR].
Acidiella postsignata Chen 1948[814]: 112.—China. Zhejiang: Tianmushan. HT ♂ IZAS. [6600714]
- s-nigrum.** Korea, Russia (Sakhalin), Japan [PA].
Trypeta s-nigrum Matsumura 1916[3220]: 416.—Japan. Honshu: near Tokyo, Takino. T ♂ HUS. [6603386]
Pseudacidia takeuchii Shiraki 1933[4432]: 222.—Japan. Sapporo; Fuji; Aomori; Daisen; Odaigahara; & Russia. Sakhalin: Kaibato. ST ♂ ♀ NTU. [6604278]
Pseuopspheniscus iwatensis Shinji 1939[4422]: 290.—Japan. Honshu: near Morioka, Kuriyagawa. HT A Shinji. [6604252]
- sonani.** Taiwan [OR].
Pseudacidia sonani Shiraki 1933[4432]: 226.—Taiwan. Roeichi. HT ♀ NTU. [6604280]
- voilaceum.** China (Sichuan) [PA].
Parahypenidium voilaceum Wang 1990[4992]: 228.—China. Sichuan: Mt. Emei [Emei Shan] (29°N 103°E), 900 m. HT ♂ IZAS. [6605008]
- yoshinoi.** Taiwan [OR].
Pseudacidia yoshinoi Shiraki 1933[4432]: 225.—Taiwan. Musha. HT ♂ NTU. [6604279]

Genus ACIDOGONA

- Acidogona* Loew 1873[3042]: 285, *Trypeta melanura* Loew (MO). [6600735]
Acidogona Loew 1873[3042]: 330, incosp. *Acidogona* Loew. Foote, Blanc & Norrbom 1993: 65 (FR). [6600899]
- melanura.** Canada (Quebec) S to USA (Oklahoma & Florida) [NE].
Trypeta melanura Loew 1873[3042]: 283.—USA. Washington, DC. ST ♀ MCZ. [6603173]
Acidogona melaneura Curran 1934[1046]: 292.—missp. *melanura* Loew. [6605617]

Genus ACIDOXANTHA

- Acidoxantha* Hendel 1914[2102]: 83, *punctiventris* Hendel (OD). [6600588]
Acidoxantha Hendel 1915[2105]: 450, missp. *Acidoxantha* Hendel. [6600659]
- REFS—Hardy 1974[1943]: 184 (key to 9 spp. [OR]); Hardy 1987[1963]: 268 (key to 6 spp. [OR, AU: Indonesia & New Guinea]).
- assita.** Laos [OR].
Acidoxantha assita Hardy 1973[1942]: 214.—Laos. Sara Buri: Muong Phieng, 400 m. HT ♂ BBM. [6601575]

- balabacensis.** Philippines (Luzon, Palawan, Samar, Mindanao) [OR].
Acidoxantha balabacensis Hardy 1970[1940]: 106.—Philippines. Palawan: Balabac I., Dalawan Bay. HT ♂ UZMC. [6601516]
- bifasciata.** Indonesia (Sumatra) [OR].
Acidoxantha bifasciata Hardy 1987[1963]: 269.—Indonesia. n. Sumatra: Kotacane. HT ♀ BBM. [6601816]
- bisinuata.** Madagascar [AF].
Acidoxantha bisinuata Hancock 1985[1885]: 299.—Madagascar. Toliara: Morombe district, Bas Mangoky, Station Agric. HT ♀ MNHNP. [6601474]
- bombacis.** Indonesia (Java) [OR].
Acidoxantha bombacis Meijere 1938[3325]: 122.—Indonesia. Java: Sil. Sawangan. ST ♀ ♀ ZMAN. Inference of HT by Hardy 1987: 270 invalid. [6604951]
- hibisci.** Philippines (Luzon, Palawan, Bohol, Samar, Mindanao) [OR].
Acidoxantha hibisci Hardy 1974[1943]: 185.—Philippines. Mindanao, Davao del Sur: Davao. HT ♂ BBM. [6601643]
- minor.** Philippines (Luzon, Mindanao) [OR].
Acidoxantha minor Hardy 1974[1943]: 188.—Philippines. Luzon, Albay: Caguscus, Libon, 200 m. HT ♂ BBM. [6601644]
- nana.** Indonesia (Timor) [OR].
Acidoxantha nana Hering 1940[2185]: 4.—Indonesia. Timor. HT ♀ ZSBS. [6602435]
- punctiventris.** China (Guangdong), Taiwan; Indonesia (Java)? [OR].
Acidoxantha punctiventris Hendel 1914[2102]: 83.—Formosa [Taiwan]. T A DEI. [6601934]
Acidoxantha punctiventris Hendel 1915[2105]: 451.—Taiwan. Alikang. HT ♂ DEI. Preocc. Hendel 1914. [6602094]
- quadrivittata.** Philippines (Luzon) [OR].
Acidoxantha quadrivittata Hardy 1974[1943]: 189.—Philippines. Luzon, Benguet: Baguio. HT ♂ USNM. [6601645]
- quinaria.** Australia (WA) [AU].
Acidoxantha quinaria Permkam & Hancock 1995[3794]: 1326.—Australia. Western Australia: Kununurra, Thompson Springs. HT ♀ QMBA. [6605420]
- totoflava.** Thailand, Laos, Vietnam [OR].
Acidoxantha totoflava Hardy 1973[1942]: 215.—Laos. Vientiane: Munong Ban Keun, Ban Na Pheng, 190 m. HT ♂ BBM. [6601576]

Genus ACIDOXANTHOPSIS

- Acidoxanthopsis* Hering 1941[2199]: 194, *advena* Hering (OD). [6600126]
- advena.** Tanzania [AF].
Acidoxanthopsis advena Hering 1941[2199]: 194.—Tanzania. Ugano. HT ♂ NMW. [6602549]

Genus ACINIA

- Acinia* Robineau-Desvoidy 1830[4148]: 775, *jaceae* Robineau-Desvoidy, Duponchel 1839[4208]: 85 (SD) = *corniculata* Zetterstedt. Type species misspelled by Duponchel; see Evenhuis & Thompson 1990: 232. [6600612]
Acynia Rondani 1871[4208]: 4, missp. *Acinia* Robineau-Desvoidy. [6600857]
Acina Foote 1984[1517]: 70, missp. *Acinia* Robineau-Desvoidy. Attributed to “authors”. [6600939]
- REFS—Malloch 1933[3130]: 276 ((*Tephritis*) key to 3 spp. [NT: Patagonia & s. Chile]); Aczel 1958[30]: 75 (revision of 9 spp. [NE, NT]); Richter 1970[4087]: 155 (key to 2 spp. [PA: e. Europe]); Merz 1994[3343]: 40 (key to 2 spp. [PA: Europe]).

aurata. Bolivia, Argentina (Jujuy, Salta, Formosa, Tucuman, Santa Fe) [NT].
Acinia aurata Aczel 1958[30]: 85.—Argentina. Formosa: Pirane. HT ♂ IML. [6600055]

biflexa. Belgium & w. Russia to Albania & Kazakstan [PA].
Trypeta biflexa Loew 1844[3020]: 403.—Poland. Schlesien [Silesia]. ST ♂ ZMHU. [6603027]

corniculata. Britain & Scandinavia S to France, n. Italy, Balkans & Ukraine [PA].
Tephritis corniculata Zetterstedt 1819[5299]: 84.—Sweden. Malmohus: Ask. LT ♂ ZIL. Lectotype designated by Persson 1958: 112. [6604825]
Acinia jaceae Robineau-Desvoidy 1830[4148]: 776.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604089]
Acinia javeae Duponchel 1841[1267]: 85.—missp. *jaceae* Robineau-Desvoidy. [6605878]

hendeli. Chile (Atacama S to Santiago) [NT].
Acinia hendeli Aczel 1958[30]: 92.—Chile. Valparaiso: Rio Aconcagua. HT ♂ USNM. [6600056]
Euribia fucata: Hendel 1914[2103]: fig. 56.—misid. [6605602]

ica. Peru [NT].
Acinia ica Hering 1941[2202]: 151.—Peru. Ica: Ica. HT ♂ ZSZMH. [6602565]

jungsukae. Korea [PA].
Acinia jungsukae Kwon 1985[2802]: 87.—South Korea. Kyongsangnam: Mt. Kajisan. HT ♀ KUTK. [6602920]

macroducta. Mongolia, China [PA].
Acinia macroducta Dirlbek & Dirlbekova 1972[1153]: 1.—Mongolia. Ulaanbaatar, Lok. Nr. 1. HT ♂ NMPC. [6600903]

mallochi. Peru, Chile, Argentina (Mendoza) [NT].
Acinia mallochi Aczel 1958[30]: 93.—Argentina. Mendoza: Cacheuta. HT ♂ IML. [6600057]
Trypanea fucata: Malloch 1933[3130]: 277.—misid. [6605492]

obscura. Ecuador, Argentina (Salta, Entre Rios) [NT].
Acinia obscura Aczel 1958[30]: 97.—Argentina. Entre Rios: La Paz, on island of Parana R. HT ♂ IML. [6600058]

peruana. Peru [NT].
Acinia peruana Aczel 1958[30]: 98.—Peru. Moqueque, Estuguina Valley. HT ♀ USNM. [6600059]

picturata. USA (N to California, Nevada, Arkansas & E coast to New York) S to Guatemala, West Indies; introduced Hawaii, Johnston Atoll, Wake I. [NE, NT, AU].
Tephritis picturata Snow 1894[4527]: 173.—USA. Florida. ST ♂ ♀ UKAL. ST apparently lost (Foote 1962: 177). [6604379]
Baryplegma maculipennis Cole 1923[887]: 473.—Mexico: Baja California Sur: Ceralbo I. HT ♀ CAS. Type data (Arnaud 1979: 329). [6600734]
Musca furcata Turton 1801[4864]: 622.—n. n. *fucata* Fabricius 1794. Preocc. Fabricius 1794. [6605439]
Musca fucata Fabricius 1794[1377]: 359.—Americae meridionalis Insulis [Virgin Is.]. T A UZMC. Preocc. Harris 1780; type data (Zimsen 1964: 493). [6601219]
Trypeta germana Foote 1964[1501]: 325.—*Nomen nudum*. N. America. HT ♀ BMNH. Attributed to Walker. [6605402]
Tephritis picturata Quisenberry 1951[3994]: 59.—missp. *picturata* Snow. [6605491]
Acinia germana Foote, Blanc & Norrbom 1993[1523]: 68.—missp. *germana* Foote. Attributed to Walker. [6605401]

reticulata. Peru [NT].
Acinia reticulata Aczel 1958[30]: 103.—Peru. Rio Lurin, vicinity of Lima. HT ♂ IML. [6600054]

tessariae. Chile, Argentina [NT].
Urophora tessariae Kieffer & Jorgensen 1910[2670]: 439.—Argentina. Mendoza: Chacras de Coria; Pedregal; & La

Paz; & San Juan: Cancete. ST ♂ ♀ Kieffer (destroyed). [6602873]

Genus ACINOEUPHRANTA

Acinoeuphranta Hardy 1971[1941]: 288, *zeylanica* Hardy (OD). [6600378]

zeylanica. Sri Lanka [OR].

Acinoeuphranta zeylanica Hardy 1971[1941]: 289.—Sri Lanka. North Western: Chilaw. HT ♀ ZIL. [6601539]

Genus ACIURA

Aciura Robineau-Desvoidy 1830[4148]: 773, *femoralis* Robineau-Desvoidy, Rondani 1856[4195]: 113 (SD) = *coryli* Rossi. [6600213]

Acyura Rondani 1870[4205]: 9, missp. *Aciura* Robineau-Desvoidy. [6600854]

afghana. Afghanistan [PA].

Tephrella afghana Hering 1961[2232]: 322.—Afghanistan. Pagman region, 2400 m. HT ♂ ZFMK. [6602745]

coryli. France, cent. Europe, Ukraine & Central Asia S to North Africa & Iran [PA].

Musca coryli Rossi 1794[4222]: 72.—Italy. “Etruria” [Tuscany?]. ST ♂ ♀ ZMHU? Type data (Thompson & Pont 1993: 66). [6604161]

Aciura femoralis Robineau-Desvoidy 1830[4148]: 773.—Greece. “l’archipel grec.” [Greek Archipelago]. T A Dejean. [6604085]

Aciura powelli Seguy 1930[4339]: 170.—Morocco. Azrou. ST ♂ ♀ MNHNP. [6604216]

Trypeta rotundiventris: Meigen 1826[3306]: 325.—misid. [6603434]

Genus ACIURINA

Aciurina Curran 1932[1043]: 9, *trixa* Curran (OD). [6600002]
Tephrella: Bates 1935[353]: 103, misid. [6600891]

REFS—Foote & Blanc 1963[1521]: 7 (key to 7 spp. [NE: USA: California]); Steyskal 1984[4650]: 582 (revision of 11 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 70 (key to 11 spp. [NE: USA & Canada]); Goeden & Teerink 1996[1760]: 417 (key to 2 spp. (supplement to Foote, Blanc & Norrbom 1993) [NE]).

aplopappi. USA (California, Arizona) [NE].

Trypeta aplopappi Coquillett 1894[948]: 72.—USA. California: Los Angeles Co. LT ♂ USNM. Lectotype designated by Steyskal 1984: 590. [6600760]

bigeloviae. Canada & USA (s. British Columbia E to w. North Dakota, S to California & New Mexico) [NE].

Trypeta bigeloviae Cockerell 1890[868]: 75.—USA. Colorado: Custer Co., West Cliff [Westcliffe]. T A BMNH? [6605043]

Trypeta bigeloviae var. *disrupta* Cockerell 1890[869]: 324.—USA. Colorado: Custer Co., West Cliff [Westcliffe]. T A BMNH? [6600728]

Eurosta bigeloviae Townsend 1893[4824]: 49.—USA. Colorado: Dolores. HT ♀ UKAL. Preocc. Cockerell 1890. Type data (Byers et al. 1962: 180, Foote 1962: 173). [6604528]

Trypeta bigeloviae Cockerell 1890[869]: 324.—USA. Colorado: Custer Co., West Cliff [Westcliffe]. ST A BMNH. Preocc. Cockerell 1890: 75. [6600729]

- ferruginea.** USA (e. Washington, w. Montana & Wyoming S to e. California & n. N. Mexico) [NE].
Aciura ferruginea Doane 1899[1189]: 182.—USA. Washington: Pullman. HT A WSU. Type data (Foote 1966: 123, Zack 1984: 31). [6600918]
- idahoensis.** USA (Idaho, e. California) [NE].
Aciurina idahoensis Steyskal 1984[4650]: 594.—USA. Idaho: Owyhee Co., Murphy. HT ♂ USNM. [6604421]
- lutea.** USA (ne. California, Nevada, Idaho, Utah, n. New Mexico) [NE].
Aciura lutea Coquillett 1899[953]: 264.—USA. Utah: Pareah. HT ♀ USNM. [6600780]
- maculata.** USA (e. Washington & Oregon, ne. California, Idaho) [NE].
Aciura maculata Cole 1919[885]: 252.—USA. Oregon: Jackson Co. HT ♂ CAS. Type data (Arnaud 1979: 329). [6600735]
Aciurina pacifica Curran 1932[1043]: 10.—USA. Washington: Yakima. HT ♀ AMNH. [6600846]
- mexicana.** USA (California & Arizona) S to Mexico (Baja California; w. cent. V) [NE].
Tephrella mexicana Aczel 1953[24]: 194.—Mexico. Veracruz: Nogales [possibly erroneous, USA. Arizona: Nogale. HT ♂ USNM. [6600030]
- michaeli.** USA (Washington, Oregon, Idaho, e. California, Nevada) [NE].
Aciurina michaeli Goeden 1996[1730]: 417.—USA. Nevada: Esmeralda Co., Inyo Nat. Forest, E of Boundary Peak in White Mts. just E of California border, Middle Canyon, 2690 m. HT ♂ USNM. [6605905]
- mixteca.** Mexico (Oaxaca) [NE].
Aciurina mixteca Hernandez-Ortiz 1994[2244]: 50.—Mexico. Oaxaca: Km. 179, highway from Tuxtepec to Oaxaca, 1600 m. HT ♂ UNAM. [6605344]
- notata.** USA (New Mexico) [NE].
Trypeta notata Coquillett 1899[953]: 262.—USA. New Mexico: Albuquerque. ST ♀ USNM. Inference of HT by Steyskal 1984: 596 invalid. [6600775]
- opaca.** USA (Idaho, Nevada, Utah, Colorado, Arizona) [NE].
Aciura opaca Coquillett 1899[953]: 263.—USA. Nevada: Elko. HT ♀ USNM. [6600778]
Acidia johnsoni Thomas 1914[4797]: 426.—USA. Colorado. HT ♀ MCZ. [6604510]
- semilucida.** USA (e. Washington, Oregon & California, Idaho, Utah) [NE].
Tephrella semilucida Bates 1935[353]: 111.—USA. Washington: Whitman Co., Riparia. HT ♀ USNM. [6600107]
Urophora sabroskyi Steyskal 1979[4647]: 55.—USA. Washington: Garfield Co., Wawawai. HT ♂ USNM. [6604415]
- thoracica.** USA (California, Utah, Arizona, New Mexico), Mexico (Baja California) [NE].
Aciurina thoracica Curran 1932[1043]: 11.—USA. California: San Diego Co. HT ♀ AMNH. [6600848]
- trilitura.** USA (Idaho, Utah, California) [NE].
Aciurina trilitura Blanc & Foote 1961[522]: 75.—USA. California: San Bernardino Co., Camp Baldy Road, 6500 ft. HT ♀ CAS. Type data (Arnaud 1979: 329). [6600569]
- trixa.** USA (e. Washington & Montana S to California & New Mexico) [NE].
Aciurina trixa Curran 1932[1043]: 11.—USA. Utah: Tooele Co., Great Salt Lake, Stansbury I. HT ♀ AMNH. [6600847]

Genus *ACIUROPSIS*

Aciuropsis Hardy 1974[1943]: 96, *pusio* Hardy (OD). [6600559]

- pusio.** Philippines (Luzon, Leyte, Samar), Papua New Guinea [OR, AU].
Aciuropsis pusio Hardy 1974[1943]: 96.—Philippines. Samar, W. Samar: Catbalogan [11°46'N 124°53'E]. HT ♂ UZMH. [6601676]

Genus *ACROCERATITIS*

- Acroceratitis* Hendel 1913[2100]: 82, *plumosa* Hendel (OD). [6600110]
Stictaspis Bezzi 1913[448]: 102, *ceratitina* Bezzi (OD). [6600392]
Acroceratis Shinji 1940[4428]: 163, missp. *Acroceratitis* Hendel. [6600860]

REFS—Bezzi 1913[448]: 102 ((*Stictaspis*) key to 3 spp. [OR: India & Sri Lanka]); Hardy 1973[1942]: 218 (key to 18 spp. [OR]); Hardy 1988[1964]: 80 (key to 4 spp. [OR: Malaysia & Indonesia]); Kapoor 1993[2600]: 40 (key to 3 spp. [OR: India]).

- aberrata.** Laos [OR].
Acroceratitis aberrata Hardy 1973[1942]: 220.—Laos. Vientiane: Ban Van Eue. HT ♂ BBM. [6601577]
- adnata.** Laos [OR].
Acroceratitis adnata Hardy 1973[1942]: 220.—Laos. Vientiane: Ban Van Eue. HT ♂ BBM. [6601578]
- bilineata.** Indonesia (Java) [OR].
Chelyophora bilineata Meijere 1914[3319]: 205.—Indonesia. Java: Semarang. HT ♀ ZMAN. Type data (Hardy 1988: 80). [6604926]
- bimacula.** Thailand, Laos, Vietnam [OR].
Acroceratitis bimacula Hardy 1973[1942]: 223.—Thailand. Pak Chong. HT ♂ KUB. [6601579]
- ceratitina.** India (Uttar Pradesh, Bihar) [OR].
Stictaspis ceratitina Bezzi 1913[448]: 103.—India. Bihar: Paresnath, 4400 ft. HT ♀ ZSI. [6600194]
- clavifera.** Burma [OR].
Chelyophora clavifera Hering 1938[2181]: 7.—Burma. s. Shan: Inle Lake, s. end, Taungdo, 900 m. HT ♀ NRS. [6602395]
- cognata.** China (Yunnan), Thailand [OR].
Acroceratitis cognata Hardy 1973[1942]: 225.—Thailand. Tak: Mae Sot Dist., Huai Muang, Canton, 200 m. HT ♂ BBM. [6601580]
- flava.** India (Punjab) [OR].
Acroceratitis flava Premlata & Singh 1988[3886]: 635.—India. Punjab: Chandigarh. HT ♀ PUCP. [6604363]
- gladiella.** India (Bihar, Uttar Pradesh, W. Bengal) [OR].
Chelyophora gladiella Munro 1938[3483]: 22.—India. Bihar: Pusa. ST ♂ ♀ ZSI. Type data (Kapoor 1994: 93). [6603611]
- histrionica.** Thailand, Laos, Indonesia (Java) [OR].
Chelyophora histrionica Meijere 1914[3319]: 205.—Indonesia. Java: Buitenzorg [Bogor]; & Semarang. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1973: 227, 1988: 80 invalid. [6604927]
- incompleta.** Thailand, Laos [OR].
Acroceratitis incompleta Hardy 1973[1942]: 227.—Thailand. Chiang Mai: Doi Suthep, 1278 m. HT ♂ BBM. [6601581]
- maai.** India (Sikkim), China (Fujian), Laos [OR].
Chelyophora maai Chen 1948[814]: 92.—China. Fujian: Shao-Woo [Shaowu]. HT ♂ IZAS. [6600723]
- maculata.** India (Punjab) [OR].
Acroceratitis maculata Premlata & Singh 1988[3886]: 635.—India. Punjab: Chandigarh. HT ♂ PUCP? [6604364]
- nigrifacies.** w. Malaysia, Indonesia (Sumatra) [OR].
Acroceratitis nigrifacies Meijere 1924[3324]: 36.—Indonesia. Sumatra: Barat, Padang Plateau, Buo. LT ♂ ZMAN. Lectotype designation by inference of holotype by Hardy 1988: 81. [6604947]

- plumosa*. China (Zhejiang), Taiwan; Japan? [OR].
Acroceratitis plumosa Hendel 1913[2100]: 82.—Taiwan. Kankau. ST ♀ DEI, NMW. Type data (Hardy 1968: 108). [6601917]
- separata*. India (Nagaland) [OR].
Stictaspis separata Bezzi 1913[448]: 104.—India. Nagaland: Kohima. HT ♀ ZSI. [6600195]
- septemmaculata*. Thailand [OR].
Acroceratitis septemmaculata Hardy 1973[1942]: 231.—Thailand. Phu Kae. HT ♀ KUB. [6601583]
- siamensis*. Thailand [OR].
Chelyophora siamensis Munro 1935[3473]: 17.—Thailand. Nakhon Ratchasima: Kao, Lat Bua [Lat Bua Khao Station, 14°52'N 101°36'E]. HT ♂ ZSI. [6603534]
- similis*. Thailand [OR].
Acroceratitis similis Hardy 1973[1942]: 233.—Thailand. Phu Kae. HT ♂ KUB. [6601584]
- striata*. Sri Lanka [OR].
Ceratitis striata Froggatt 1909[1618]: 111.—Sri Lanka: Central: Peradeniya, Royal Botanic Gardens. ST ♂ ♀ NSW. [6601377]
- tomentosa*. Thailand [OR].
Acroceratitis tomentosa Hardy 1973[1942]: 235.—Thailand. Bangkok, Bangkhen. HT ♀ KUB. [6601585]

Genus *ACRONNEUS*

- Acronneus* Munro 1939[3491]: 157, *Parafreutreta bryanti* Munro (OD). [6600160]
- bryanti*. South Africa [AF].
Parafreutreta bryanti Munro 1929[3460]: 398.—South Africa. Cape: Prieska. HT ♀ SANC. [6603469]

Genus *ACROPTEROMMA*

- Acropteronma* Bezzi 1926[476]: 279, *munroanum* Bezzi (OD). [6600111]
- munroanum*. South Africa [AF].
Acropteronma munroanum Bezzi 1926[476]: 281.—South Africa. Cape: East London. ST ♂ ♀ SANC. [6600518]

Genus *ACROTAENIA*

- Acrotaenia* Loew 1873[3042]: 274, *Trypeta latipennis* Wiedemann, Wulp 1899[5217]: 414 (SD). No original type species designation, Foote 1965 in error; designation of *Trypeta testudinea* by Coquillett 1910: 503 invalid. [6600003]
- REF.—Hendel 1914[2103]: 58 (key to 4 spp. [NT]).
- latipennis*. Brazil (Bahia, Pernambuco) [NT].
Trypeta latipennis Wiedemann 1830[5136]: 496.—Brasilien [Brazil]. T ♀ NMW. [6604738]
Trypeta argus Walker 1849[4957]: 1033.—Brazil. Bahia. LT ♂ BMNH. Lectotype designation by inference of holotype by Foote 1964: 318. [6604573]
- otopappi*. Mexico (Sinaloa & Durango SE to Morelos) [NE].
Acrotaenia otopappi Doane 1899[1189]: 183.—Mexico. HT ♀ WSU. Type data (Foote 1966: 124, Zack 1984:31). [6600920]
Acrotaenia otopappi Aczel 1950[14]: 268.—missp. *otopappi* Doane. [6605719]
- spadix*. Cuba, Haiti, Dominican Republic [NT].
Acrotaenia spadix Bates 1934[352]: 10.—Dominican Republic. 1 mi s. of Bonao. HT ♂ USNM. Type locality not specified, data from labels of HT. [6600100]
Acrotaenia testudinea: Bates 1933[350]: 164.—misid. [6605490]

- tarsata*. Mexico (Guerrero, Chiapas), Belize [NT].
Acrotaenia tarsata Wulp 1899[5217]: 414.—Mexico. Guerrero: Amula. HT ♂ BMNH. Type data (Foote 1965: 242). [6604795]
- testudinea*. USA (Florida), Greater Antilles [NE, NT].
Trypeta testudinea Loew 1873[3042]: 272.—Cuba. LT ♀ ZMHU. Lectotype designated by Foote, Blanc & Norrbom 1993: 82. [6603172]
- trisinata*. Bahamas Is. [NT].
Acrotaenia trisinata Foote 1960[1491]: 87.—Bahamas Is. Andros I.: Fresh Creek. HT ♀ AMNH. [6601269]

Genus *ACROTAENIACANTHA*

- Acrotaeniacantha* Hering 1939[2182]: 188, *Acrotaeniostola radiosa* Hering (OD). [6600004]
- radiosa*. Venezuela [NT].
Acrotaeniostola radiosa Hering 1939[2182]: 189.—Venezuela. HT ♂ NMW. [6602423]

Genus *ACROTAENIOSTOLA*

- Acrotaeniostola* Hendel 1914[2102]: 80, *sexvittata* Hendel (OD). [6600214]
- REFS—Shiraki 1933[4432]: 146 (key to 2 spp. [OR, PA: Japan & Taiwan]); Chen 1948[814]: 94 (key to 9 spp. [PA, OR]); Ito 1984[2416]: 70 (key to 2 spp. [PA: Japan]); Hardy 1988[1964]: 82 (key to 5 spp. (2 undescribed) [OR: Indonesia]); Kapoor 1993[2600]: 46 (key to 3 spp. [OR: India]).

- apiventris*. India (W. Bengal, Arunachal Pradesh) [OR].
Acrotaeniostola apiventris Munro 1935[3473]: 19.—India. W. Bengal: e. Himalayas, Darjeeling Dist., Pashok, 2000 ft. HT ♂ ZSI. [6603536]
- dissimilis*. China (Sichuan, Yunnan) [OR].
Acrotaeniostola dissimilis Zia 1937[5308]: 159.—China. Szechuan [Sichuan]. HT A IZAS. Described from both sexes, but sex of HT not specified. [6604833]
- extorris*. Indonesia (Java) [OR].
Acrotaeniostola extorris Hering 1942[2206]: 277.—Unknown. probably “Indien” [Indonesia?]. HT ♀ ZMHU. [6602584]
- flavoscutellata*. Japan (Ryukyu Is.), Taiwan [OR].
Acrotaeniostola flavoscutellata Shiraki 1933[4432]: 149.—Taiwan. Shinchiku or Musha. HT ♀ NTU. [6604264]
Acrotaeniostola antennata Shiraki 1968[4435]: 49.—Japan. Ryukyu Is.: Okinawa I. HT ♂ USNM. [6604347]
- fuscinothum*. Burma, Vietnam [OR].
Acrotaeniostola fuscinothum Hering 1938[2181]: 16.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602342]
- helvanaca*. Japan (Ryukyu Is.) [OR].
Acrotaeniostola helvanaca Ito 1984[2416]: 71.—Japan. Ryukyu Is.: Iriomote I., Omotoyama. HT ♂ UOPJ. [6602784]
- hoenei*. China (Zhejiang, Fujian) [OR].
Acrotaeniostola hoenei Hering 1936[2166]: 57.—China. Zhejiang: W Tien-Mu-Shan [Tianmushan]. HT ♀ BMNH. [6602231]
Acrotaeniostola hoenei ssp. *quadrivittata* Chen 1948[814]: 94.—China. Fujian: Shao-woo [Shaowu]. HT ♀ IZAS. [6600724]
Acrotaeniostola hoenei Hering 1936[2166]: 57.—incosp. *hoenei* Hering. Automatic correction under Art. 32(d). [6605710]
- interrupta*. w. Malaysia [OR].
Acrotaeniostola interrupta Hardy 1988[1964]: 82.—Malaysia. Selangor: Ulu Langat, 300-390 m. HT ♂ BBM. [6601851]

- megispilota**. Philippines (Luzon) [OR].
Acrotaeniostola megispilota Hardy 1974[1943]: 155.—Philippines. Luzon, Mountain: Abatan, Buguias, 60 km. S of Bontoc, 1800-2000 m. HT ♀ BBM. [6601640]
- pieli**. China (Zhejiang) [PA].
Acrotaeniostolaieli Zia 1937[5308]: 157.—China. Zhejiang: Tien-Mo-Shan [Tianmushan]. HT ♂ IZAS. [6604832]
- quadrifasciata**. Thailand, Laos, Vietnam, Malaysia (w. & Sabah), Indonesia (Sumatra) [OR].
Spilographa quadrifasciata Enderlein 1911[1326]: 436.—Indonesia. Sumatra: Soekaranda. HT ♀ PAN. Type data (Hardy 1988: 83). [6601156]
Acrotaeniostola rubra Chen 1948[814]: 95.—Vietnam. Hoa-Binh. HT ♂ IZAS. [6600725]
- quinaria**. China (Hong Kong) [OR].
Trypeta quinaria Coquillett 1910[965]: 308.—China. Hong Kong. ST ♂ ♀ USNM. See Chen 1948: 72. [6600812]
- sexvittata**. Korea, Japan, Taiwan [PA, OR].
Acrotaeniostola sexvittata Hendel 1914[2102]: 80.—Formosa [Taiwan]. T A MNM, NMW. [6601930]
Trypeta scutellaris Matsumura 1916[3220]: 415.—Japan. Hokkaido: Sapporo; & Honshu: Towada. ST ♂ HUS. [6603385]
Acrotaeniostola sexvittata Hendel 1915[2105]: 438.—Taiwan. Taihorin; Mt. Hoozan; & Kankau. ST ♂ ♀ MNM, NMW. Preocc. Hendel 1914; type data (Hardy 1968: 108). [6602082]
- spiralis**. Bangladesh, Laos, Malaysia (Sabah), Indonesia (Sumatra) [OR].
Acrotaeniostola spiralis Munro 1935[3473]: 18.—Bangladesh. Chittagong Hills, Rangamati. HT ♀ ZSI. [6603535]

Genus ACTINOPTERA

- Actinoptera* Rondani 1871[4209]: 162, *Trypeta aestiva* Meigen, Coquillett 1910[966]: 503 (SD) = *discoidea* Fallen. Proposed as a subgenus. [6600215]
Actinophora Scudder 1882[4334]: 7, missp. *Actinoptera* Rondani. Attributed to Rondani by Bigot. [6600925]
Actinopaea Foote 1984[1517]: 71, missp. *Actinoptera* Rondani. Attributed to “authors”. [6600940]

REFS—Hendel 1927[2108]: 162 (key to 5 spp. [PA]); Munro 1934[3466]: 100 (revision of 7 spp. [AF]); Munro 1957[3510]: 900 (key to 15 spp. [AF]); Richter 1970[4087]: 160 (key to 3 spp. [PA: e. Europe]); Ito 1984[2419]: 239 (key to 2 spp. [PA: Japan]); Kapoor 1993[2600]: 65 (key to 6 spp. [OR: India]).

- abdita**. Lesotho, South Africa [AF].
Actinoptera abdita Munro 1957[3510]: 915.—South Africa. Cape: Cape Peninsula, Muizenberg. HT ♂ SANC. [6603776]
- acculta**. Uganda, Kenya, Malawi, South Africa [AF].
Actinoptera acculta Munro 1957[3510]: 914.—Kenya. Mt. Elgon, 10500-11500 ft. HT ♂ BMNH. [6603775]
- ampla**. Zimbabwe, South Africa [AF].
Actinoptera ampla Munro 1957[3510]: 908.—South Africa. Cape: Stellenbosch. HT ♂ SANC. [6603771]
- biseta**. Sri Lanka [OR].
Actinoptera biseta Hering 1956[2226]: 71.—Sri Lanka. Central: Teldeniya [7°18'N 80°46'E]. HT A NMB. [6602729]
- brahma**. India, Sri Lanka [OR].
Tephritis brahma Schiner 1868[4296]: 272.—India. Tamil Nadu: Madras. HT ♀ NMW. Type data (Hardy 1968: 134). [6604192]
Actinoptera ceylanica Hering 1941[2195]: 72.—Sri Lanka. Patipola [Uva: Pattipola ?, 6°51'N 80°50'E], 2000 m. ST ♂ ♀ MNM. [6602546]

- carignaniensis**. India, Nepal [OR].
Actinoptera carignaniensis Kapoor & Grewal 1977[2605]: 148.—India. Himachal Pradesh: Simla, Carignano. HT ♂ INPC. [6602853]
- contacta**. Kenya, Zimbabwe, Lesotho, South Africa [AF].
Actinoptera contacta Munro 1957[3510]: 909.—South Africa. Cape: Port Elizabeth, Humewood. HT ♂ SANC. [6603772]
- discoidea**. Sweden, France, cent. Europe, Ukraine, Caucasus [PA].
Tephritis discoidea Fallen 1814[1382]: 171.—not stated [Sweden?]. LT A NRS. Lectotype designated by Persson 1958: 117, type locality & sex of LT not stated. [6601244]
Trypeta gnaphalii Loew 1844[3020]: 415.—n. n. *discoidea* Fallen 1820. [6603031]
Trypeta aestiva Meigen 1826[3306]: 351.—n. n. *discoidea* Fallen 1820. Preocc. Fabricius 1806 (see Wiedemann 1830: 504). [6603450]
Tephritis discoidea Fallen 1820[1383]: 12.—Sweden. Scania, Gyllebo. ST ♂ ♀ NRS. Preocc. Fallen 1814. [6605168]
- espunensis**. Spain [PA].
Actinoptera espunensis Hering 1934[2156]: 250.—Spain. Sierra de Espuna, 1200 m. HT ♂ BMNH. [6602212]
Actinoptera espunensis Hering 1934[2156]: 250.—incosp. *espunensis* Hering. Automatic correction under Art. 32(d). [6605803]
- filaginis**. France, Germany, Italy; Sweden, e. Europe? [PA].
Urellia filaginis Loew 1862[3038]: 122.—Germany. ST ♂ ♀ ZMHU. [6603116]
Ditricha helichrysi Rondani 1871[4209]: 165.—Italy. Piemonte. T A MZLS? [6604149]
Trypeta terminata Meigen 1826[3306]: 343.—Sweden; & probably Germany. Stolberg. ST A MNHNP? Preocc. Fallen 1814, see Hendel 1927: 163; also ST in NRS (specimens reported as *radiata* by Fallen 1820). [6603446]
Tephritis radiata: Fallen 1820[1385]: 12.—misid. [6605398]
- formosana**. India, Sri Lanka, Nepal, Burma, China (Hunan), Taiwan, Philippines [OR].
Actinoptera formosana Shiraki 1933[4432]: 447.—Taiwan. Shukoran; Royeichi; Arisan. ST ♂ ♀ NTU. [6604317]
Actinoptera sodalis Zia 1939[5310]: 15.—China. Hunan: Nanyoh [Nanyue]. HT ♂ IZAS. [6604862]
- fuscula**. Uganda, Kenya [AF].
Actinoptera fuscula Munro 1957[3510]: 903.—Kenya. Aberdare Range, above Nakuru, 9300 ft. HT ♂ BMNH. [6603770]
- kovacsi**. Ethiopia [AF].
Trypanea kovacsi Bezzi 1924[472]: 140.—Ethiopia. Tshertsher; & Haramaja. ST ♂ ♀ MNM. Type data (Munro 1935: 155). [6600492]
Trypanea kovacsi Bezzi 1924[472]: 140.—incosp. *kovacsi* Bezzi. Automatic correction under Art. 32(d). [6605715]
- lindneri**. Tanzania [AF].
Actinoptera lindneri Hering 1954[2224]: 170.—Tanzania. Kibo West, 4500 m. HT ♀ SMN. [6602722]
- mamulae**. s. Europe [PA].
Trypeta mamulae Frauenfeld 1855[1536]: 16.—Croatia. Zara [Zadar]. T A NMW. [6601301]
Trypeta mamulae Frauenfeld 1857[1537]: 549.—Croatia. Zara [Zadar]. ST ♂ ♀ NMW. Preocc. Frauenfeld 1855. [6605399]
Ditricha terminata: Rondani 1871[4209]: 167.—misid. [6605486]
- meigeni**. France [PA].
Actinoptera meigeni Hendel 1927[2108]: 163.—s. France. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 109. [6602158]

- montana**. India, China (Zhejiang), Japan (Ryukyu Is.), Philippines, Indonesia (Java) [OR].
Tephritis montana Meijere 1924[3323]: 223.—Indonesia. Java: Pangerango. LT ♀ ZMAN. Lectotype designation by inference of holotype by Hardy 1988: 19. [6604944]
Trypanea separata Zia 1937[5308]: 218.—China. Zhejiang: Chusan [Zhouan]. HT ♀ IZAS. [6605826]
Actinoptera trypaneoides Shiraki 1968[4435]: 88.—Japan. Ryukyu Is.: Iriomote I. HT ♂ NIAS. [6604356]
- mundella**. Zimbabwe, South Africa [AF].
Trypanea peregrina var. *mundella* Bezzi 1924[470]: 562.—South Africa. Transvaal: Pretoria; & Cape: Prospect. ST ♂ ♀ SANC. Type data (Munro 1957: 907). [6600439]
- pallidula**. Uganda, Kenya [AF].
Actinoptera pallidula Munro 1957[3510]: 913.—Kenya. Aberdare Range, Mt. Kinangop, 8000 ft. HT ♂ BMNH. [6603774]
- peregrina**. Malawi, Mozambique, Zimbabwe, Namibia, South Africa [AF].
Urellia peregrina Adams 1905[33]: 170.—Zimbabwe. near Salisbury [Harare]. ST ♂ ♀ UKaL. Type data (Byers et al. 1962: 181); also ST in SANC (Munro 1957: 96, Holm & Wessels 1974: 13). [6600064]
Trypanea urophora Bezzi 1918[456]: 44.—South Africa. Natal: Durban, Umbilo. ST ♂ ♀ BMNH. [6600309]
- reticulata**. Nepal, Japan (Honshu, Sikoku, Kyushu) [PA].
Actinoptera reticulata Ito 1984[2419]: 239.—Japan. Honshu: Settu, Yodogawa-Amanogawa. HT ♂ UOPJ. [6602825]
Actinoptera reticulata Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604985]
- rosetta**. Mozambique, South Africa [AF].
Actinoptera rosetta Munro 1934[3466]: 104.—South Africa. Transvaal: Pretoria, Kilnerton. ST ♂ ♀ SANC. [6603519]
- schnabeli**. Tanzania [AF].
Trypanea peregrina var. *schnabeli* Speiser 1924[4564]: 153.—Tanzania. Kilimanjaro. HT A (HT destroyed prior to publication of description (Speiser 1924: 15)). [6604390]
- shirakiana**. Taiwan [OR].
Actinoptera shirakiana Munro 1935[3477]: 267.—Taiwan. Taihoku dist., Maruyama, 500 ft. HT ♀ DEI. [6603560]
- sinica**. China (Sichuan) [PA].
Actinoptera sinica Wang 1990[4996]: 490.—China. Sichuan: Hengduan Mts., Kangding (30.12°N 101.48°E), 3650-4000 m. HT ♂ IZAS. [6605012]
- stricta**. Zimbabwe, South Africa [AF].
Actinoptera stricta Munro 1957[3510]: 910.—South Africa. Cape: Port Elizabeth, Humewood. HT ♂ SANC. [6603773]
- tatarica**. Mongolia, China [PA].
Actinoptera tatarica Hendel 1927[2108]: 163.—China. Qinghai: Kuku-noor [Qinghai Hu] region. T ♀ ZSZMH. [6602159]
- tiensinensis**. China (Tianjin) [PA].
Actinoptera tiensinensis Chen 1938[811]: 95.—China. Tianjin: Tientsin [Tianjin]. HT ♀ IZAS. [6600699]
- tuckeri**. South Africa, Madagascar [AF].
Euribia tuckeri Bezzi 1924[470]: 553.—South Africa. e. Transvaal: Komati Poort. HT ♂ SAMCT. [6600434]
- vinsoni**. Mauritius [AF].
Actinoptera vinsoni Munro 1946[3494]: 247.—Mauritius. Les Mares. HT ♂ SANC. [6603653]
- Genus ADRAMA**
- Adrama* Walker 1859[4964]: 117, *selecta* Walker (MO). [6600562]
Acanthipeza Rondani 1875[4210]: 438, *maculifrons* Rondani (MO) = *determinatus* Walker. [6600367]
 REFS—Hendel 1912[2097]: 12 (key to 3 spp. [OR, AU]); Shiraki 1933[4432]: 44 (key to 5 spp. [OR, AU]); Malloch 1939[3135]: 247 (key to 3 spp. [AU: Solomon Is.]); Malloch 1939[3136]: 331 (key to 5 spp. [OR, AU]); Tseng & Lin 1974[4842]: 11 (key to 2 spp. [OR: Taiwan]); Hardy 1986[1961]: 59 (key to 13 spp. [OR, AU]); Kapoor 1993[2600]: 29 (key to 3 spp. [OR: India]); Permkam & Hancock 1995[3795]: 1134 (revision of 2 spp. [AU: Australia]).
- apicalis**. India (Himachal Pradesh, Sikkim), Burma, Thailand, Laos, Taiwan [OR].
Adrama apicalis Shiraki 1933[4432]: 44.—Taiwan. Koshun. HT ♀ NTU. [6604315]
Adrama media Hering 1941[2190]: 3.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602471]
- austeni**. India (Tamil Nadu), Sri Lanka [OR].
Adrama austeni Hendel 1912[2097]: 12.—Ceylon [Sri Lanka]. ST ♂ ♀ BMNH. [6601909]
- biseta**. Australia (NT, n. Qld.) [AU].
Adrama biseta Malloch 1939[3136]: 332.—Australia. Queensland: Cairns. HT ♂ AMS. Type data (Permkam & Hancock 1995: 1135). [6603337]
- determinata**. Malaysia, Philippines, Indonesia (E to Sulawesi) [OR].
Dacus determinatus Walker 1856[4962]: 133.—Malaysia. Sarawak. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 168, also see Hardy 1982: 285. [6604607]
Acanthipeza maculifrons Rondani 1875[4210]: 438.—Malaysia. Sarawak. LT ♀ MCSNG. Lectotype designation by inference of holotype by Hardy 1986: 60. [6604156]
Dacus cylindricus Wulp 1880[5209]: 181.—Indonesia. Java. HT ♂ ZMAN. Type data (Hardy 1986: 60). [6604766]
- flavimana**. Malaysia (Sabah) [OR].
Adrama flavimana Malloch 1939[3136]: 333.—Malaysia. Sabah: Sandakan. HT ♂ USNM (destroyed). Type data (Hardy 1986: 62); HT subsequently destroyed, only pin & labels now remaining. [6603339]
- fuscoapicata**. Solomon Is. [AU].
Adrama fuscoapicata Malloch 1939[3135]: 249.—Solomon Is. Guadalcanal: Oreke, 700 ft. HT ♂ BMNH. [6603321]
- ismayi**. New Britain [AU].
Adrama ismayi Hardy 1986[1961]: 64.—Papua New Guinea. w. New Britain: Dami. HT ♀ BBM. [6601754]
- nigrifrons**. Laos, Vietnam [OR].
Adrama nigrifrons Hardy 1973[1942]: 126.—Laos. “Sedone Prov.”, Muong Paksong, 39 km. E of Pakse, 980 m. HT ♂ BBM. [6601545]
- rufithorax**. Bismarck Arch., Solomon Is. [AU].
Adrama rufithorax Malloch 1939[3135]: 249.—Solomon Is. Russell Is., Lingatu. HT ♂ BMNH. [6603322]
- rufiventris**. Thailand, Philippines, Indonesia (Maluku), New Guinea [OR, AU].
Enicoptera rufiventris Walker 1860[4967]: 163.—Indonesia. Maluku: Amboyna [Ambon I.]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 188 (assumes Walker misstated sex of ST). [6604637]
Adrama ceramensis Meijere 1914[3319]: 192.—Indonesia. Maluku: Ceram [Seram Laut]. ST A ZMAN. Inference of HT by Hardy 1986: 65 invalid. [6604922]
Adrama selecta: Meijere 1913[3315]: 64.—misid. See Meijere 1914: 192, Hardy 1986: 65. [6604914]
- selecta**. Indonesia (Maluku, Irian Jaya), Papua New Guinea, Bismarck Arch., Solomon Is., Australia (NT, n. Qld.) [AU].
Adrama selecta Walker 1859[4964]: 118.—Indonesia. Maluku: Aru Is. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1982: 285. [6604615]

- Psila cruciata* Walker 1865[4974]: 126.—New Guinea. T ♂ BMNH. ST apparently lost (Hardy 1959: 161). [6604672]
Adrama spinata Enderlein 1920[1330]: 360.—Papua New Guinea. New Britain: Kabakaul, Hochwald. ST ♂ ♀ ZMHU. Type data (Hardy 1986: 67). [6601200]
Adrama centralis Malloch 1939[3135]: 247.—Solomon Is. Guadalcanal: Kovagombi. HT ♂ BMNH. [6603320]
Adrama papuaensis Malloch 1939[3136]: 333.—Papua New Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♂ AMS. Type data (Permkam & Hancock 1995: 1137). [6603338]

Genus *ADRAMOIDES*

Adramoides Hardy 1973[1942]: 128, *picta* Hardy (OD). [6600368]

pictus. Thailand [OR].

Adramoides picta Hardy 1973[1942]: 128.—Thailand. Songkhla: Hat Yai. HT ♂ BBM. [6601546]

Genus *AETHIOTHEMARA*

Aethiothemara Hendel 1928[2111]: 354, *Acanthoneura fallacivena* Enderlein (OD). [6600122]

REFS—Bezzi 1924[469]: 108 (*Themara*) key to 2 spp. [AF]; Hendel 1928[2111]: 355 (key to 6 spp. [AF]).

fallacivena. Cameroon, Equatorial Guinea, Gabon, Congo, Zaire, Uganda [AF].

Acanthoneura fallacivena Enderlein 1911[1326]: 422.—Equatorial Guinea. Fernando Po [Bioko]. HT ♀ PAN. [6601144]

Themara fallacivena var. *trispila* Bezzi 1923[467]: 577.—Congo. near Brazzaville; & Gabon. Ogooue, Lambarene. ST ♂ ♀ MNHNP. [6600368]

Themara trispila Bezzi 1924[469]: 108.—Congo. T A MNHNP. Preocc. Bezzi 1923: 577. [6605068]

graueri. Uganda, Tanzania [AF].

Aethiothemara graueri Hendel 1928[2111]: 358.—Tanzania. Urwald Moera. HT ♂ NMW. [6602186]

speiseriana. West Africa [AF].

Themara speiseriana Bezzi 1924[469]: 108.—West Africa. ST A MCSNM? [6600454]

striata. Uganda [AF].

Aethiothemara striata Hendel 1928[2111]: 357.—Uganda. Western “tukole”, 4500-5000 ft. HT ♀ NMW. [6602184]

transiens. Equatorial Guinea (Bioko) [AF].

Aethiothemara transiens Hendel 1928[2111]: 358.—Equatorial Guinea. Fernando Poo [Bioko]. HT ♀ NMW. [6602187]

trigona. Cameroon [AF].

Aethiothemara trigona Hendel 1928[2111]: 357.—Cameroon. Southwest: Viktoria [Limbe]. ST ♂ ♀ NMW, DEI. [6602185]

Genus *AFRACIURA*

Afraciura Hering 1941[2199]: 197, *zernyi* Hering (OD). [6600139]

Conionota Munro 1947[3496]: 147, *Spheniscomyia quaternaria* Bezzi (OD). [6600140]

REF.—Munro 1947[3496]: 147 (*Conionota*) key to 4 spp. [AF]).

quaternaria. Kenya, Tanzania, Malawi, Zimbabwe, Lesotho, South Africa [AF].

Spheniscomyia quaternaria Bezzi 1924[470]: 516.—South Africa. Transvaal: Pretoria; & Barberton. ST ♂ ♀ SANC. [6600406]

quinaria. Kenya, Zimbabwe, South Africa [AF].

Spheniscomyia quinaria Bezzi 1924[470]: 517.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6600407]

reculta. Kenya, Tanzania [AF].

Conionota reculta Munro 1947[3496]: 152.—Kenya. Nairobi. HT ♂ SANC. [6603669]

zernyi. Kenya, Tanzania [AF].

Afraciura zernyi Hering 1941[2199]: 198.—Tanzania. Ugano. HT ♀ NMW. [6602553]

Conionota fracta Munro 1947[3496]: 151.—Kenya. Nairobi. HT ♂ SANC. [6603668]

Genus *AFREUTRETA*

Afreutreta Bezzi 1924[469]: 79, *Trypeta bipunctata* Loew, Bezzi 1924[472]: 128 (SD). [6600161]

REF.—Freidberg & Kaplan 1993[1569]: 212 (revision of 3 spp. [AF]).

bipunctata. South Africa [AF].

Trypeta bipunctata Loew 1861[3031]: 280.—Vorgebirge der guten Hoffnung [South Africa. Cape: Cape of Good Hope]. T ♀ ZMHU. [6603073]

Trypeta bipunctata Loew 1862[3037]: 5.—Cap Bon. Sp. [South Africa. Cape: Cape of Good Hope]. T ♀ ZMHU. Preocc. Loew 1861. [6605265]

hemimelas. South Africa [AF].

Acanthiophilus hemimelas Bezzi 1926[476]: 298.—South Africa. Transvaal: Pretoria. LT ♂ SANC. Lectotype designated by Freidberg & Kaplan 1993: 215. [6600529]

muiri. Mozambique, South Africa [AF].

Acanthiophilus muiri Bezzi 1924[470]: 559.—South Africa. Cape: East London. ST ♂ ♀ SAMCT? [6600437]

Acanthiophilus muiri Bezzi 1924[472]: 139.—South Africa. Natal: Durban. HT ♀ BMNH. Preocc. Bezzi 1924: 559. [6605071]

Genus *AFROCNEROS*

Afrocneros Bezzi 1924[469]: 112, *Trypeta excellens* Loew (OD). [6600101]

Afrocneros: Bezzi 1924[470]: 489, Subsequent usage. Bezzi 1924: 112 is cited, “gen. nov.” statement on p. 472 is erroneous. [6600818]

REFS—Bezzi 1918[455]: 250 (*Ocneros*) key to 2 spp. [AF]; Bezzi 1924[469]: 112 (key to 3 spp. [AF]); Bezzi 1924[470]: 489 (key to 3 spp. [AF]); Munro 1967[3521]: 579 (revision of 3 spp. [AF]).

excellens. Zimbabwe, South Africa [AF].

Trypeta excellens Loew 1861[3031]: 265.—Caffrerei [South Africa]. T ♀ NRS. also ST in ZMHU. [6603064]

Trypeta excellens Loew 1862[3037]: 3.—Caffraria [South Africa]. T ♀ NRS. Preocc. Loew 1861. [6605256]

mundissimus. South Africa [AF].

Afrocneros mundissimus Bezzi 1924[470]: 490.—South Africa. Dunbrody. HT ♂ SAMCT. [6600393]

mundus. Lesotho, South Africa [AF].

Trypeta munda Loew 1863[3039]: 16.—South Africa [Bloemfontein?]. ST ♀ Tollin. [6603126]

Genus *AISCHROCRANIA*

Aischrocrania Hendel 1927[2107]: 70, *aldrichi* Hendel (OD). [6600216]

- Moritsugia* Shiraki 1933[4432]: 243, *quadrimaculata* Shiraki (OD). [6600417]
Kwasilparia Kwon 1985[2802]: 73, *multipilosa* Kwon (OD). [6600715]
Aischrocrania Hardy 1977[1946]: 104, missp. *Aischrocrania* Hendel. Attributed to "authors". [6600941]

REFS—Richter & Kandybina 1981[4098]: 130 (key to 4 spp. [PA, OR]); Wang 1992[5000]: 105 (key to 3 spp. [PA, OR: China]).

aldrichi. China (Sichuan) [PA, OR].

Aischrocrania aldrichi Hendel 1927[2107]: 71.—China. Sichuan: Mt. Omei [Emei Shan]. LT ♂ USNM. Lectotype designation by inference of holotype by Hardy 1968: 109; LT currently in NMW. [6602148]

brevimedia. China (Shaanxi) [PA].

Aischrocrania brevimedia Wang 1992[5000]: 105.—China. Shaanxi: Riquan (36°N, 109°E). HT ♂ BAUC. [6605187]

jucunda. Japan (Hokkaido, Honshu) [PA].

Aischrocrania jucunda Ito 1972[2413]: 30.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOJ. [6602780]
Aischrocrania jucunda Ito 1956[2407]: 25.—*Nomen nudum*. [6602778]

multipilosa. Korea [PA].

Kwasilparia multipilosa Kwon 1985[2802]: 73.—South Korea. Kangwon: Mt. Odaesan. HT ♀ KUTK. [6602916]

prima. Russia (Kurile Is.), Japan (Hokkaido) [PA].

Aischrocrania prima Richter & Kandybina 1981[4098]: 128.—Russia. Kurile Is., Kunashir. I., Dubovoye near Golovino. HT ♂ ZISP. [6605252]

quadrimaculata. Taiwan [OR].

Moritsugia quadrimaculata Shiraki 1933[4432]: 245.—Taiwan. Taihoku. HT ♀ NTU. [6604286]

quadrisetata. Burma [OR].

Vidalia quadrisetata Hering 1938[2181]: 37.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602367]

Genus *ALINCOCALLISTOMYIA*

Alineocallistomyia Hardy 1986[1962]: 28, *imitator* Hardy (OD). [6600655]

imitator. Malaysia (Sabah) [OR].

Alineocallistomyia imitator Hardy 1986[1962]: 29.—Malaysia. Sabah: 48 km. W of Tawau, Kalabakan R., Tawau Residency. HT ♀ BBM. [6601791]

Genus *ALLOEOMYIA*

Alloeomyia Hardy 1986[1962]: 29, *flavida* Hardy (OD). [6600495]

flavida. Papua New Guinea (Morobe) [AU].

Alloeomyia flavida Hardy 1986[1962]: 30.—Papua New Guinea. Morobe: near Bulolo, Upper Gumi, 2010 m. HT ♀ BBM. [6601792]

Genus *ALSANGELISCA*

Alsangelisca Ito 1984[2416]: 88, *Philophylla takeuchii* Ito (MO). [6600444]

Alsangelisca Ito 1956[2407]: 25, *Nomen nudum*. [6600802]

takeuchii. e. Russia, Japan (Hokkaido, Honshu) [PA].

Philophylla takeuchii Ito 1951[2404]: 5.—Japan. Honshu: Aomori Prov., Akakura. HT ♀ Takeuchi. [6602769]

Genus *ANASTREPHA*

Anastrepha Schiner 1868[4296]: 263, *Dacus serpentinus* Wiedemann (OD). [6600005]

Acrotoxa Loew 1873[3042]: 227, *Dacus fraterculus* Wiedemann, Bezzi 1909[444]: 280 (SD). [6600006]

Pseudodacus Hendel 1914[2101]: 66, *Anastrepha daciformis* Bezzi (OD). Proposed as a subgenus. [6600063]

Phobema Aldrich 1925[69]: 7, *atrox* Aldrich (OD). [6600056]

Lucumaphila Stone 1939[4671]: 340, *sagittata* Stone (OD). [6600044]

Pseudodacus Hendel 1914[2102]: 97, *Anastrepha daciformis* Bezzi (OD). Preocc. Hendel 1914: 66. [6600765]

Pseudodacus Hendel 1914[2103]: 13, *Anastrepha daciformis* Bezzi (OD). Preocc. Hendel 1914: 66. [6600766]

Instrypetas Herrera, Rangel & Barreda 1900[2253]: 5, *Nomen nudum*. [6600007]

Anastrepha Cresson 1908[1010]: 98, missp. *Anastrepha* Schiner. [6600831]

Instrypetas Foote 1967[1508]: 11, missp. Instrypetas Herrera, Rangel & Barreda. [6600902]

Anastrepha Hardy 1968[1937]: 145, missp. *Anastrepha* Schiner. [6600793]

REFS—Lima 1934[2954]: 487 (revision of 62 spp. [NE, NT]); Hering 1941[2202]: 136 (key to 14 spp. [NT: Peru]); Stone 1942[4674]: 1 (revision of 126 spp. [NE, NT]); Stone 1939[4672]: 282 ((*Pseudodacus*) revision of 4 spp. of *daciformis* group [NE, NT]); Stone 1939[4671]: 340 ((*Lucumaphila*) revision of 10 spp. [NE, NT]); Stone 1942[4675]: 298 (revision of 7 spp. [NT]); Blanchard 1961[534]: 281 (monograph of 38 spp. [NT: Argentina]); Bush 1962[680]: 97 (cytotaxonomy of 9 spp. [NE, NT: Mexico]); Steyskal 1977[4646]: 3 (key to 141 spp. [NE, NT]); Zucchi 1978[5324]: 1 (monograph of 77 spp. [NT: Brazil]); Caraballo 1981[744]: 1 (monograph of 37 spp. [NT: Venezuela]); Norrbom 1985[3650]: 1 (revision of *cryptostrepha*, *daciformis*, *robusta* & *schausi* species groups [NT]); Steck, Carroll, Celedonio & Guillen 1990[4599]: 342 (key to larvae of 13 spp. [NE, NT]); Norrbom 1991[3657]: 101 (revision of *grandis* species group [NT]); Hernandez-Ortiz 1992[2241]: 1 (monograph of 28 spp. [NE, NT: Mexico]); White & Elson-Harris 1992[5111]: 65, 116 (keys to adults of 15 spp. & larvae of 8 spp. of economic importance [NE, NT]); Foote, Blanc & Norrbom 1993[1523]: 85 (key to 19 spp. [NE: USA]).

aberrans. Venezuela [NT].

Anastrepha aberrans Norrbom 1993[3659]: 52.—Venezuela. Aragua: Parque Nac. Henri Pittier, Rancho Grande, 1100 m. HT ♀ USNM. [6605199]

acidusa. Jamaica [NT].

Trypeta acidusa Walker 1849[4957]: 1014.—Jamaica. LT ♀ BMNH. Lectotype designation by inference of holotype by Greene 1934: 163. [6604557]

acris. Mexico (Pacific coastal states, s. Sinaloa to Chiapas), Panama, Venezuela, Trinidad & Tobago [NT].

Anastrepha acris Stone 1942[4674]: 77.—Panama. Canal Zone, Balboa. HT ♀ USNM. [6604488]

aczeli. Argentina, s. Brazil [NT].

Anastrepha aczeli Blanchard 1961[534]: 305.—Argentina. Tucuman: Tucuman. HT ♀ IPV. [6600598]

Anastrepha aczeli Rosillo 1953[4218]: 101.—*Nomen nudum*. Attributed to Blanchard. [6605427]

alveata. Mexico, Guatemala, Panama, Venezuela; Argentina? [NT].

Anastrepha alveata Stone 1942[4674]: 72.—Panama. La Campana. HT ♀ USNM. [6604486]

- alveatoides.** Argentina (La Rioja, Cordoba) [NT].
Anastrepha alveatoides Blanchard 1961[534]: 322.—Argentina. Cordoba Prov. HT ♀ IPV. [6600613]
Anastrepha alveatoides Rosillo 1953[4218]: 101.—*Nomen nudum*. Attributed to Blanchard. [6605428]
- amita.** Trinidad & Tobago, Brazil (Bahia) [NT].
Anastrepha amita Zucchi 1979[5325]: 35.—Brazil. Bahia: Cruz das Almas. HT ♀ USP. [6604885]
- amnis.** Brazil (Rio de Janeiro, Santa Catarina) [NT].
Anastrepha amnis Stone 1942[4674]: 88.—Brazil. Rio de Janeiro: Itatiaia. HT ♀ IOC. [6604493]
Anastrepha consobrina: Lima 1934[2954]: 532.—misid. [6605475]
- ampliata.** Mexico (Chiapas), Guatemala [NT].
Anastrepha ampliata Hernandez-Ortiz 1991[2240]: 230.—Mexico. Chiapas: Tapachula, Quinta Irene. HT ♀ UNAM. [6605193]
- anduzei.** Venezuela (Carabobo) [NT].
Anastrepha anduzei Stone 1942[4675]: 302.—Venezuela. Carabobo: San Esteban. HT ♀ USNM. [6604444]
- anomala.** Guatemala, Panama, Venezuela, Brazil (Bahia) [NT].
Anastrepha anomala Stone 1942[4674]: 29.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6604458]
- antunesi.** Guatemala to Venezuela, Trinidad, Peru, Brazil (Amazonas, Para, Pernambuco, Bahia) [NT].
Anastrepha antunesi Lima 1938[2965]: 63.—Brazil. Bahia: Pirajá. HT ♀ IOC. [6602968]
- aphelocentema.** Mexico (e. San Luis Potosi, Veracruz) [NT].
Anastrepha aphelocentema Stone 1942[4674]: 51.—Mexico. San Luis Potosi: Tamazunchale. HT ♀ USNM. [6604472]
- atrigona.** Venezuela, Guyana, Surinam, Brazil (Amazonas, Para) [NT].
Anastrepha atrigona Hendel 1914[2101]: 70.—Surinam. T A NMW. [6602071]
Anastrepha atrigona Hendel 1914[2103]: 20.—Surinam. HT ♂ NMW. Preocc. Hendel 1914: 70. [6601965]
- atrox.** Ecuador, Peru [NT].
Phobema atrox Aldrich 1925[69]: 7.—Ecuador. Oriente: Banos. HT ♀ USNM. [6600084]
Anastrepha barandiaranae Korytkowski & Ojeda 1968[2764]: 59.—Peru. Cajamarca: Chota, Ajipampa. HT ♀ UPRG. [6602908]
- bahiensis.** Mexico to Brazil (Amazonas, Bahia, Pernambuco) [NT].
Anastrepha silvai var. *bahiensis* Lima 1937[2964]: 60.—Brazil. Bahia. HT ♀ IOC. [6602965]
- barbiellinii.** Paraguay, s. Brazil, n.e. Argentina [NT].
Anastrepha barbiellinii Lima 1938[2965]: 61.—Brazil. Sao Paulo. HT ♀ IOC. [6602967]
Anastrepha bosqi Blanchard 1961[534]: 331.—*Nomen nudum*. [6600616]
- barnesi.** Mexico (Oaxaca) to Panama, Guyana, s. Brazil [NT].
Anastrepha barnesi Aldrich 1925[69]: 3.—Guatemala. Cayuga. HT ♀ USNM. [6600080]
Anastrepha virescens Lima 1937[2964]: 64.—Brazil. Rio de Janeiro: Tijuca; Campo Grande. ST ♀ IOC. [6602966]
- barrettoi.** Brazil (Sao Paulo) [NT].
Anastrepha barrettoi Zucchi 1979[5325]: 35.—Brazil. Sao Paulo: Aracatuba, Corrego Azul. HT ♀ USP. [6604884]
- belenensis.** Brazil (Para) [NT].
Anastrepha belenensis Zucchi 1979[5325]: 36.—Brazil. Para: Belem. HT ♀ USP. [6604886]
- bellicauda.** Panama, Venezuela [NT].
Anastrepha bellicauda Norrbom 1988[3652]: 168.—Panama. El Cermeno. HT ♂ USNM. [6603924]
- benjamini.** Brazil (Bahia, Rio de Janeiro) [NT].
Anastrepha benjamini Lima 1938[2967]: 16.—Brazil. Bahia: Agua Preta. HT ♀ IOC. [6602969]
Anastrepha discessa Stone 1942[4674]: 34.—Brazil. Rio de Janeiro: Campo Grande. HT ♀ IOC. [6604461]
Anastrepha connexa: Lima 1938[2965]: 61.—misid. [6605626]
- bezzii.** Mexico (Chiapas) S to Venezuela, following Andes to s. Brazil [NT].
Anastrepha bezzii Lima 1934[2954]: 498.—Brazil. Rio de Janeiro: Manguinhos. HT ♂ IOC. [6602931]
Anastrepha balloui Stone 1942[4674]: 20.—Venezuela. Guarico: San Juan de los Morros. HT ♀ USNM. [6604455]
- bicolor.** USA (s. Texas) S to El Salvador [NE, NT].
Pseudodacus bicolor Stone 1939[4672]: 288.—USA. Texas: Edinburg. HT ♀ USNM. [6604440]
- binodosa.** Colombia, Brazil (Amazonas, Para) [NT].
Anastrepha binodosa Stone 1942[4674]: 57.—Brazil. Para. HT ♀ BMNH. [6604475]
- bistrigata.** Brazil (Goias, Minas Gerais, Sao Paulo) [NT].
Anastrepha bistrigata Bezzi 1919[457]: 7.—Brazil. Sao Paulo: Bauru. ST ♂ ♀ MCSNM. Type data (Bezzi 1919: 373). [6600315]
Anastrepha bistrigata: Bezzi 1919[459]: 372.—Subsequent usage. [6605054]
- bivittata.** Brazil? [NT].
Urophora bivittata Macquart 1843[3076]: 379.—Unknown [Brazil?]. T ♀ MHNLI. [6603213]
- bondari.** Peru, Brazil (Bahia) [NT].
Anastrepha bondari Lima 1934[2954]: 537.—Brazil. Bahia. ST ♂ ♀ IOC. [6602946]
- borgmeieri.** Brazil [NT].
Anastrepha borgmeieri Lima 1934[2954]: 518.—Brazil. probably Rio de Janeiro. HT ♂ IOC. [6602936]
- buscki.** Panama, Bolivia [NT].
Anastrepha buscki Stone 1942[4674]: 92.—Panama. Canal Zone, Tabernilla. HT ♀ USNM. [6604495]
- canalis.** Mexico (Veracruz), Guatemala, Costa Rica, Panama, Venezuela, Trinidad [NT].
Anastrepha canalis Stone 1942[4674]: 71.—Panama. La Campana. HT ♀ USNM. [6604485]
- castilloi.** Venezuela [NT].
Anastrepha castilloi Norrbom 1991[3657]: 117.—Venezuela. Bolivar: Auyan-tepui, campamento A, 5°44.8'N 62°29.5'W, 2200 m. HT ♀ IZAM. [6605018]
- caudata.** Brazil (Sao Paulo) [NT].
Anastrepha caudata Stone 1942[4674]: 85.—Brazil. Sao Paulo. HT ♀ BMNH. [6604492]
- chiclayae.** USA (s. Texas) S to Venezuela, Ecuador, Peru, Argentina [NE, NT].
Anastrepha chiclayae Greene 1934[1800]: 167.—Peru. Lambayeque: Chiclaya [Chiclayo], Hacienda Ouefe. HT ♀ USNM. [6601433]
Anastrepha chiclayae Lima 1937[2963]: 37.—missp. *chiclayae* Greene. [6605473]
- compressa.** Panama, Venezuela [NT].
Anastrepha compressa Stone 1942[4674]: 70.—Panama. La Campana. HT ♀ USNM. [6604484]
- concava.** Costa Rica, Panama, Ecuador, Brazil (Amazonas, Para) [NT].
Anastrepha concava Greene 1934[1800]: 169.—Panama. Canal Zone, Cano Saddle, Close's. HT A USNM. [6601434]
- conjuncta.** Bolivia [NT].
Anastrepha conjuncta Hendel 1914[2101]: 68.—Bolivia. T A SMT. [6602064]

- Anastrepha conjuncta* Hendel 1914[2103]: 17.—Bolivia. La Paz: Mapiro, Sarampioni, 700 m. HT ♂ SMT. Preocc. Hendel 1914: 68. [6601958]
- connexa.** Brazil (Sao Paulo) [NT].
Anastrepha connexa Lima 1934[2954]: 530.—Brazil. Sao Paulo. HT ♂ IOC. [6602943]
- consobrina.** Argentina (Salta), Brazil (Para, Rio de Janeiro) [NT].
Trypeta consobrina Loew 1873[3042]: 230.—Brazil. Para. ST ♂ ♀ ZMHU. [6603154]
Anastrepha zikani Lima 1934[2954]: 533.—Brazil. Rio de Janeiro: Estrela. LT ♀ IOC. Lectotype designated by Zucchi 1981: 5. [6602944]
- convoluta.** Venezuela, Trinidad, Guyana [NT].
Anastrepha convoluta Stone 1942[4674]: 38.—Trinidad. St. George: Arima, Verdant Vale. HT ♀ USNM. [6604462]
Anastrepha integra: Greene 1934[1800]: 168.—misid. (Trinidad specimens). [6605480]
- cordata.** Mexico (Veracruz), Guatemala, Belize, Panama, Venezuela [NT].
Anastrepha cordata Aldrich 1925[69]: 4.—Belize. Belize. HT ♀ USNM. [6600081]
- coronilli.** Guatemala, Costa Rica to Colombia & Surinam [NT].
Anastrepha coronilli Carrejo & Gonzalez 1993[765]: 48.—Colombia. Valle del Cauca: Anchicaya, Mun. Buenaventura. HT ♀ MEUV. [6605244]
- costalimai.** Brazil (Sao Paulo) [NT].
Anastrepha costalimai Autuori 1936[240]: 194.—Brazil. Sao Paulo: Santo Amaro, Campo Bello. ST ♂ ♀ USP. [6600092]
- crebra.** Mexico (Veracruz, Chiapas), Guatemala, Honduras, Costa Rica, Panama, Ecuador [NT].
Anastrepha crebra Stone 1942[4674]: 45.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6604465]
Anastrepha obliqua: Greene 1934[1800]: 163.—misid. See Stone 1942: 45. [6605479]
- cruzi.** Brazil [NT].
Anastrepha cruzi Lima 1934[2954]: 513.—Brazil. Amazon River. HT A IOC. [6602935]
- cryptostrepha.** Ecuador, Peru [NT].
Anastrepha cryptostrepha Hendel 1914[2101]: 68.—Peru. ST A SMT, NMW. [6602066]
Anastrepha cryptostrepha Hendel 1914[2103]: 17.—Peru. Ucayali: Urubamba R., Meshagua [Meshagua]. LT ♀ NMW. Preocc. Hendel 1914: 68; Lectotype designated by Hardy 1968: 109. [6601957]
- curitis.** Colombia, Peru, Brazil (Amazonas, Para) [NT].
Anastrepha curitis Stone 1942[4674]: 32.—Brazil. Para. HT ♀ BMNH. [6604459]
- daciformis.** Bolivia, Paraguay, Argentina, s. Brazil [NT].
Anastrepha daciformis Bezzi 1909[444]: 282.—Brazil. Sao Paulo. ST ♂ ♀ MNM. Also ST in MCSNM. [6600184]
- debilis.** Panama, Colombia, Ecuador [NT].
Anastrepha debilis Stone 1942[4674]: 47.—Panama. La Campana. HT ♀ USNM. [6604468]
- dentata.** USA (s. Texas) to Mexico (Sinaloa, Jalisco, Morelos) [NE, NT].
Lucumaphila dentata Stone 1939[4671]: 343.—Mexico. Jalisco: Tequila. HT ♀ USNM. [6604437]
- dissimilis.** Hispaniola, Colombia, Peru, Guyana, Trinidad, Argentina, Brazil [NT].
Anastrepha dissimilis Stone 1942[4674]: 40.—Haiti. near Plaisance. HT ♀ USNM. [6604463]
Anastrepha correntina Blanchard 1961[534]: 339.—Argentina. Corrientes: Bella Vista. HT ♀ IPV. [6600619]
- distans.** Peru, Bolivia, Chile [NT].
Anastrepha distans Hendel 1914[2101]: 68.—Peru. T A SMT. [6602067]
Anastrepha distans Hendel 1914[2103]: 17.—Peru. Ucayali: Urubamba R., Meshagua [Meshagua]. HT ♀ SMT. Preocc. Hendel 1914: 68. [6601956]
- distincta.** USA (s. Texas) S to Peru & Brazil [NE, NT].
Anastrepha distincta Greene 1934[1800]: 149.—Peru. Lambayeque: Chiclaya [Chiclayo], Hacienda Ouefe. HT ♀ USNM. Type data (Stone 1942: 106). [6601420]
Anastrepha silvai Lima 1934[2954]: 545.—Brazil. Rio de Janeiro: Minas Gerais: Vicosia; & Sao Paulo. ST ♂ ♀ IOC. [6602952]
- doryphoros.** Costa Rica, Panama, Colombia [NT].
Anastrepha doryphoros Stone 1942[4675]: 299.—Panama. El Cermen. HT ♀ USNM. [6604442]
- dryas.** Venezuela (Carabobo), Ecuador [NT].
Anastrepha dryas Stone 1942[4675]: 303.—Venezuela. Carabobo: San Esteban. HT ♀ USNM. [6604446]
- duckei.** Brazil (Amazonas) [NT].
Anastrepha duckei Lima 1934[2954]: 534.—Brazil. Amazonas: Manaus. LT ♀ IOC. Lectotype designated by Zucchi 1996: 260. [6602945]
- edentata.** USA (Florida), Puerto Rico [NE, NT].
Anastrepha edentata Stone 1942[4674]: 48.—USA. Florida: Key Largo. HT ♀ USNM. [6604469]
- elegans.** Paraguay, Argentina, s. Brazil [NT].
Anastrepha elegans Blanchard 1937[528]: 37.—Argentina. Corrientes: Jaguarete. ST ♀ IPV. [6600585]
Anastrepha parallela: Greene 1934[1800]: 168.—misid. See Stone 1942: 42. [6605481]
- elongata.** Venezuela [NT].
Anastrepha elongata Fernandez 1953[1416]: 27.—Venezuela. Aragua: Rancho Grande, near the Hotel, 1100 m. HT ♀ AMNH. [6601252]
- ethalea.** Trinidad, Guyana, Surinam, Brazil (Para); Argentina? [NT].
Trypeta ethalea Walker 1849[4957]: 1015.—Brazil. Para. LT ♀ BMNH. Lectotype designation by inference of holotype by Greene 1934: 162. [6604558]
- fenestrata.** Brazil (“Amazonia”) [NT].
Anastrepha fenestrata Lutz & Lima 1918[3063]: 8.—Brazil. “Amazonia”. HT ♂ IOC. Type data (Zucchi, Silva & Silveira Neto 1996: 260). [6603188]
- fernandezii.** Venezuela (Aragua) [NT].
Anastrepha fernandezii Caraballo 1985[745]: 26.—Venezuela. Aragua: Rancho Grande, 1100 m. HT ♀ IZAM. [6600652]
- fischeri.** Brazil (Rio de Janeiro) [NT].
Anastrepha fischeri Lima 1934[2954]: 540.—Brazil. Rio de Janeiro: Niteroi, Fonseca. HT ♀ IOC. [6602948]
- flavipennis.** Panama, Venezuela, Colombia, Brazil (Para), Argentina [NT].
Anastrepha flavipennis Greene 1934[1800]: 160.—Brazil. Para: Rio Tapajos, Boa Vista. HT ♀ USNM. Type data (Stone 1942: 89). [6601429]
Anastrepha grioti Blanchard 1941[531]: 60.—*Nomen nudum*. See Blanchard 1961: 311. [6600602]
- flavissima.** Peru [NT].
Anastrepha flavissima Hering 1940[2187]: 56.—Peru. San Martin: middle Huallaga River, Juanjui. HT ♂ DEI. [6602458]
- fractura.** Guyana, Brazil (Amazonas) [NT].
Anastrepha fractura Stone 1942[4674]: 95.—Guyana. Kutari Sources. HT ♀ BMNH. [6604496]
- fraterculus.** USA (s. Texas) S to n. Argentina, Trinidad; introduced Galapagos Is. [NE, NT].
Dacus fraterculus Wiedemann 1830[5136]: 524.—Brazil. LT ♂ NMW. Lectotype designation by inference of holotype by

- Greene 1934: 165 (also see Loew 1873: 223, 336, Stone 1942: 79). [6604755]
- Tephritis mellea* Walker 1837[4956]: 358.—Brazil. St. Paul's [Sao Paulo]. LT ♀ BMNH. Lectotype designation by inference of holotype by Foote 1964: 322. [6604551]
- Trypeta unicolor* Loew 1862[3033]: 70.—New Grenada [Colombia or Venezuela]. LT ♂ MCZ. Lectotype designation by inference of holotype by Greene 1934: 165. [6603090]
- Anthomyia frutalis* Weyenbergh 1874[5086]: 165.—Argentina. Cordoba. T A destroyed?. Type data (Horn & Kahle 1937: 301). [6604700]
- Anastrepha fraterculus* var. *soluta* Bezzi 1909[444]: 284.—Brazil. Sao Paulo. ST ♂ ♀ MCSNM? [6600185]
- Anastrepha peruviana* Townsend 1913[4826]: 345.—Peru. Lima: Chosica, 2800 ft. HT ♀ USNM. [6604530]
- Anastrepha braziliensis* Greene 1934[1800]: 154.—Brazil. Minas Gerais: Vicosia. HT ♀ USNM. Type data (Stone 1942: 79). [6601426]
- Anastrepha costaruckmanii* Capoor 1954[739]: 214.—Brazil. Minas Gerais: Itajuba. HT ♀ IOC. [6600649]
- Anastrepha scholae* Capoor 1955[740]: 27.—Brazil. Bahia: Agua Preta. LT ♀ IOC. Lectotype designated by Zucchi 1981: 290. [6600650]
- Anastrepha pseudofraterculus* Capoor 1955[740]: 28.—Brazil. Rio de Janeiro: Itatiaia. LT ♀ IOC. Lectotype designated by Zucchi 1981: 290. [6600651]
- Anastrepha lambayecae* Korytkowski & Ojeda 1968[2764]: 63.—Peru. Lambayeque: Chiclayo, Chumbenique, 255 m. HT ♂ UPRG. [6602909]
- Anastrepha fraterculus* var. *intensa* Blanchard 1941[531]: 60.—*Nomen nudum*. [6605881]
- Anastrepha fraterculus* var. *retracta* Hayward 1941[2046]: 95.—*Nomen nudum*. Attributed to Blanchard. [6605882]
- Anastrepha fraterculus* f. *acidusiformis* Rosillo 1953[4218]: 101.—*Nomen nudum*. Attributed to Blanchard. [6605426]
- Anastrepha fraterculus* “variacion” intermissa Blanchard 1961[534]: 319.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600607]
- Anastrepha fraterculus* “variacion” intensa Blanchard 1961[534]: 319.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600605]
- Anastrepha fraterculus* “variacion” retracta Blanchard 1961[534]: 319.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600604]
- Anastrepha fraterculus* “variacion” ethaleiforme Blanchard 1961[534]: 320.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600608]
- Anastrepha fraterculus* “variacion” tipica Blanchard 1961[534]: 319.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600606]
- Anastrepha fraterculus* “variacion” acidusaeformis Blanchard 1961[534]: 320.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600610]
- Anastrepha fraterculus* “variacion” subtipica Blanchard 1961[534]: 320.—*Nomen nudum*. not stated [Argentina]. T A IPV. Form or variety proposed after 1960. [6600611]
- Anastrepha costa-rukmanii* Capoor 1954[739]: 214.—incosp. *costaruckmanii* Capoor. Automatic correction under Art. 32(d). [6605720]
- Anastrepha costa-bukmanii* Capoor 1954[739]: 214.—incosp. *costaruckmanii* Capoor. Automatic correction under Art. 32(d). [6605721]
- Anastrepha pseudo-fraterculus* Capoor 1955[740]: 28.—incosp. *pseudofraterculus* Capoor. Automatic correction under Art. 32(d). [6605723]
- Anastrepha peruana* Rosillo 1953[4218]: 101.—missp. *peruviana* Townsend. [6605456]
- Anastrepha costaruckmanii* Foote 1967[1508]: 9.—missp. *costaruckmanii* Capoor. [6605722]
- Anastrepha fraterculus* Dirlbek & Dirlbekova 1973[1154]: 128.—missp. *fraterculus* Wiedemann. [6605087]
- Anastrepha distans* Greene 1934[1800]: 149.—misid. See Stone 1942: 79. [6605482]
- Anastrepha suspensa*: Lima 1934[2954]: 501.—misid. See Stone 1942: 79. [6605474]
- Anastrepha distans*: Greene 1934[1800]: 149.—misid. See Stone 1942: 79. [6601421]
- Anastrepha suspensa*: Korytkowski & Ojeda 1968[2764]: 65.—misid. [6605489]
- freidbergi**. Peru, Bolivia [NT].
Anastrepha freidbergi Norrbom 1993[3659]: 56.—Peru. Madre de Dios: Manu, Rio Manu, Pakitza, 250 m. HT ♀ USNM. [6605200]
- fumipennis**. Brazil (Espirito Santo, Rio de Janeiro) [NT].
Anastrepha fumipennis Lima 1934[2954]: 499.—Brazil. Rio de Janeiro: Mangueiros. ST ♀ IOC. [6602932]
- furcata**. Panama, French Guiana, Brazil (Amazonas, Para, Bahia) [NT].
Anastrepha furcata Lima 1934[2954]: 529.—Brazil. Amazonas: Manaus, Rio Negro. HT ♂ IOC. Type data (Zucchi, Silva & Silveira Neto 1996: 262). [6602942]
- Anastrepha furcaia* Aczel 1950[14]: 212.—missp. *furcata* Lima. [6605724]
- galbina**. Panama [NT].
Anastrepha galbina Stone 1942[4674]: 96.—Panama. La Campana. HT ♀ USNM. [6604498]
- gigantea**. Panama [NT].
Anastrepha gigantea Stone 1942[4675]: 299.—Panama. El Cermen. HT ♀ USNM. [6604441]
- grandicula**. Colombia, Brazil (Amazonas) [NT].
Anastrepha grandicula Norrbom 1991[3657]: 118.—Colombia. Amazonas: Rio Putumayo, Puerto Arica. HT ♀ FSCA. [6605019]
- grandis**. w. Venezuela following Andes to s. Brazil & n. Argentina; Panama? [NT].
Tephritis grandis Macquart 1846[3077]: 340.—Nouvelle-Grenade [Colombia or Venezuela]. LT ♀ UMO. Lectotype designated by Norrbom 1991: 119. [6603230]
- Anastrepha schineri* Hendel 1914[2101]: 69.—Bolivia. T ♂ MNM. [6602069]
- Anastrepha latifasciata* Hering 1935[2161]: 227.—Brazil. Santa Catarina. HT ♀ PAN. [6602227]
- Anastrepha schineri* Hendel 1914[2103]: 19.—Bolivia. La Paz: Coroica [Coroico]. HT ♂ MNM. Preocc. Hendel 1914: 69. [6601962]
- greenei**. Ecuador, Brazil (Bahia) [NT].
Anastrepha greenei Lima 1937[2963]: 37.—Brazil. Bahia. HT ♀ IOC. [6602961]
- guianae**. Venezuela, Guyana [NT].
Anastrepha guianae Stone 1942[4675]: 303.—Guyana. Bartica. HT ♀ USNM. [6604447]
- hamadryas**. Panama [NT].
Lucumaphila hamadryas Stone 1939[4671]: 345.—Panama. La Campana. HT ♀ USNM. [6604438]
- hamata**. Mexico (Veracruz, Campeche, Quintana Roo) S to Brazil [NT].
Trypeta hamata Loew 1873[3042]: 229.—Brazil. ST ♂ ♀ ZMHU. [6603152]
- hambletoni**. Brazil (Minas Gerais) [NT].
Anastrepha hambletoni Lima 1934[2954]: 519.—Brazil. Minas Gerais: Vicosia. HT ♀ IOC. [6602937]

- hastata**. “Amazon” [NT].
Anastrepha hastata Stone 1942[4674]: 55.—“Amazon”. HT ♀ BMNH. [6604473]
- haywardi**. Brazil (Minas Gerais), Argentina (Misiones, Corrientes, Entre Rios) [NT].
Anastrepha haywardi Blanchard 1937[528]: 39.—Argentina. Entre Rios: Concordia. ST ♂ ♀ IPV. [6600586]
- hermosa**. Peru, Bolivia [NT].
Anastrepha hermosa Norrbom 1988[3652]: 170.—Peru. Pasco: Rio Pichis, Pto. Yessup [Yesup]. HT ♂ SMT. [6603925]
- insulae**. Cuba, Dominican Republic [NT].
Anastrepha insulae Stone 1942[4674]: 47.—Cuba. Isle of Pines. HT ♀ USNM. [6604467]
- integra**. Brazil; Guyana? [NT].
Trypeta integra Loew 1873[3042]: 230.—Brazil. ST ♂ ♀ ZMHU. [6603155]
- interrupta**. USA (Florida), Bahamas, Cuba, Virgin Is., Dominica [NE, NT].
Anastrepha interrupta Stone 1942[4674]: 62.—USA. Florida: Jensen. HT ♀ USNM. [6604481]
- irradiata**. Argentina (Corrientes) [NT].
Anastrepha irradiata Blanchard 1961[534]: 300.—Argentina. Corrientes: Yaguareta. HT ♂ IPV. [6600595]
- irretita**. Costa Rica, Panama [NT].
Anastrepha irretita Stone 1942[4674]: 78.—Panama. La Campana. HT ♀ USNM. [6604489]
- kuhlmanni**. Brazil (Rio de Janeiro, Santa Catarina), Argentina (Santa Fe, Loreto) [NT].
Anastrepha kuhlmanni Lima 1934[2954]: 520.—Brazil. Rio de Janeiro: Rio Trapicheiro. ST ♂ ♀ IOC. Also ST in CPARJ. [6602938]
- lambda**. Peru [NT].
Anastrepha lambda Hendel 1914[2101]: 67.—Peru. T A SMT. [6602062]
Anastrepha lambda Hendel 1914[2103]: 17.—Peru. Pini-Pini. HT ♀ SMT. Preocc. Hendel 1914: 67. [6601959]
- lanceola**. Costa Rica, Panama [NT].
Anastrepha lanceola Stone 1942[4674]: 44.—Panama. El Cermeno. HT ♀ USNM. [6604464]
- leptozona**. Mexico (Morelos, Veracruz, Oaxaca, Chiapas) S to Guyana & Trinidad, Bolivia, Brazil [NT].
Anastrepha leptozona Hendel 1914[2101]: 69.—Bolivia. T A SMT. [6602070]
Anastrepha leptozona Hendel 1914[2103]: 19.—Bolivia. La Paz: Mapiri, San Antonio, 1000 m. HT ♂ SMT. Preocc. Hendel 1914: 69. [6601964]
- limae**. USA (s. Texas), Mexico, Guatemala, Costa Rica, Panama [NE, NT].
Anastrepha limae Stone 1942[4674]: 67.—Panama. Panama City. HT ♀ USNM. [6604483]
- loewi**. Panama, Colombia, Venezuela [NT].
Anastrepha loewi Stone 1942[4674]: 49.—Panama. La Campana. HT ♀ USNM. [6604470]
Anastrepha integra: Hendel 1914[2103]: 15.—misid. See Stone 1942: 49. [6605601]
- longicauda**. Brazil (Amazonas) [NT].
Anastrepha longicauda Lima 1934[2954]: 525.—Brazil. Amazonas: Rio Negro, Sao Gabriel [Uaupes]. HT ♀ IOC. [6602940]
Anastrepha hendeliana Lima 1934[2954]: 528.—Brazil. Amazonas: Rio Negro, Sao Gabriel [Uaupes]. LT ♂ IOC. Lectotype designated by Zucchi 1996: 261. [6602941]
- ludens**. USA (s. Texas), Mexico (except Baja California Norte & Chihuahua), Guatemala, Belize, Honduras, El Salvador, Nicaragua, Costa Rica [NE, NT].
Trypeta ludens Loew 1873[3042]: 223.—Mexico. LT ♂ NMW. Lectotype designated by Foote, Blanc & Norrbom 1993: 98. [6603150]
Anastrepha lathana Stone 1942[4674]: 105.—Mexico. Morelos: Cuernavaca. HT ♀ USNM. [6604453]
- luederwaldti**. Brazil (Sao Paulo) [NT].
Anastrepha luederwaldti Lima 1934[2954]: 510.—Brazil. Sao Paulo: Ipiranga; & Alto da Serra. ST ♂ ♀ USP. [6602934]
- lutea**. Panama [NT].
Anastrepha lutea Stone 1942[4674]: 95.—Panama. El Cermeno. HT ♀ USNM. [6604497]
- lutzi**. s. Brazil, Argentina (Tucuman) [NT].
Anastrepha lutzi Lima 1934[2954]: 540.—Brazil. Rio de Janeiro: Manguinhos. HT ♀ IOC. [6602947]
- macra**. Costa Rica, Panama [NT].
Anastrepha macra Stone 1942[4674]: 108.—Panama. La Campana. HT ♀ USNM. [6604454]
- macrura**. Venezuela, Paraguay, Argentina, Brazil [NT].
Anastrepha macrura Hendel 1914[2101]: 66.—Paraguay. T ♀ MNM. [6602061]
Anastrepha macrura Hendel 1914[2103]: 16.—Paraguay. La Cordillera: San Bernardino. T ♀ MNM. Preocc. Hendel 1914: 66. [6601955]
- manihoti**. Costa Rica, Panama, Colombia, Venezuela, Ecuador, Peru, Brazil [NT].
Anastrepha manihoti Lima 1934[2954]: 543.—Brazil. Minas Gerais: Vicosa. ST ♂ ♀ IOC. [6605893]
Anastrepha manihoti Stone 1942[4674]: 64.—emend. *manhioti* Lima. [6605216]
Anastrepha manhioti Lima 1934[2954]: 543.—incosp. *manihoti* Lima. [6602951]
- margarita**. Venezuela (Aragua) [NT].
Anastrepha margarita Caraballo 1985[745]: 28.—Venezuela. Aragua: Rancho Grande, 1100 m. HT ♀ IZAM. [6600654]
- matertela**. Brazil (Bahia) [NT].
Anastrepha matertela Zucchi 1979[5325]: 37.—Brazil. Bahia: Cruz das Almas, Chapadinha. HT ♀ USP. [6604887]
- mburucuyae**. Argentina (Santiago del Estero, Santa Fe) [NT].
Anastrepha mburucuyae Blanchard 1961[534]: 325.—Argentina. Santa Fe: Reconquista. ST ♂ IPV. [6600614]
- megacantha**. Brazil (Amazonas) [NT].
Anastrepha megacantha Zucchi 1984[5333]: 279.—Brazil. Amazonas: Reserva Ducke, 15 m. HT ♀ USP. [6604898]
- minensis**. Brazil (Minas Gerais) [NT].
Anastrepha silvai var. *minensis* Lima 1937[2964]: 60.—Brazil. Minas Gerais: Vicosa. LT ♀ IOC. Lectotype designated by Zucchi 1981: 293. [6602964]
Anastrepha extensa Stone 1942[4674]: 104.—Brazil. Rio de Janeiro. HT ♀ BMNH. [6604452]
- minuta**. Mexico (Veracruz), Guatemala, Panama, Venezuela [NT].
Anastrepha minuta Stone 1942[4674]: 46.—Panama. La Campana. HT ♀ USNM. [6604466]
- mixta**. Brazil (Mato Grosso) [NT].
Anastrepha mixta Zucchi 1979[5325]: 37.—Brazil. Mato Grosso: Rio Papagaio, Utiariti. HT ♀ USP. [6604889]
- montei**. Mexico (Tamaulipas & Guerrero) S to Venezuela, Ecuador, Paraguay, s. Brazil, Argentina [NT].
Anastrepha montei Lima 1934[2954]: 541.—Brazil. Minas Gerais: Belo Horizonte; Rio de Janeiro: Guaratiba. ST ♂ ♀ IOC. Also ST in CPARJ. [6602949]

- Anastrepha procurvata* Blanchard 1961[534]: 308.—Argentina. Misiones: Zaiman, Estacion Experimental de INTA. HT ♀ IPV. [6600601]
- mucronota**. Panama, Ecuador [NT].
Anastrepha mucronota Stone 1942[4674]: 57.—Panama. El Cermeno. HT ♀ USNM. [6604476]
Anastrepha mucronata Aczel 1950[14]: 220.—missp. *mucronota* Stone. [6605725]
- munda**. Venezuela [NT].
Anastrepha munda Schiner 1868[4296]: 264.—South America [Venezuela]. HT ♂ NMW. Type data (Hardy 1968: 135). [6604178]
- nascimentoi**. Brazil (Bahia) [NT].
Anastrepha nascimentoi Zucchi 1979[5325]: 37.—Brazil. Bahia: Cruz das Almas. HT ♀ USP. [6604888]
- nigrifascia**. USA (Florida), Bahamas [NE, NT].
Anastrepha nigrifascia Stone 1942[4674]: 91.—USA. Florida: Big Pine Key. HT ♀ USNM. [6604494]
- nigripalpis**. Ecuador, Peru, Bolivia [NT].
Anastrepha nigripalpis Hendel 1914[2101]: 68.—Bolivia; & Peru. ST A SMT, NMW. [6602065]
Anastrepha nigripalpis Hendel 1914[2103]: 18.—Bolivia. La Paz: Mapiro, San Antonio, 1000 m. LT ♀ NMW. Preocc. Hendel 1914: 68; Lectotype designated by Hardy 1968: 109. [6601961]
Anastrepha nigripalpus Stone 1942[4674]: 87.—missp. *nigripalpis* Hendel. [6605451]
- nunezae**. Colombia [NT].
Anastrepha nunezae Steyskal 1977[4643]: 77.—Colombia. Cundinamarca: Cachipay. HT ♀ USNM. [6604397]
- obliqua**. Mexico (N to s. Sinaloa, Aguascalientes & n. Veracruz) S to Argentina, Greater & Lesser Antilles [NE, NT].
Tephritis obliqua Macquart 1835[3073]: 464.—Cuba. LT ♀ MNHNP. Lectotype designation by inference of holotype by Steyskal 1975: 357. [6603196]
Anastrepha fraterculus var. *mombinpraeoptans* Sein 1933[4351]: 187.—Puerto Rico. Rio Piedras. HT ♀ USNM. [6604240]
Anastrepha fraterculus var. *ligata* Lima 1934[2954]: 552.—Brazil. Rio de Janeiro. ST ♂ ♀ CPARJ? [6602953]
Anastrepha trinidadensis Greene 1934[1800]: 161.—Trinidad. Tabaquite. HT ♀ USNM. Type data (Stone 1942: 69). [6601430]
Anastrepha fraterculus var. *mombinpraeoptera* Phillips 1946[3827]: 106.—missp. *mombinpraeoptans* Sein. [6605543]
Anastrepha mombimpreoptans Mena 1965[3329]: 13.—missp. *mombinpraeoptans* Sein. [6605550]
Anastrepha ethalea: Greene 1934[1800]: 161.—misid. See Stone 1942: 68. [6605478]
Anastrepha acidusa: Greene 1934[1800]: 162.—misid. See Stone 1942: 68. [6605477]
- obscura**. Venezuela, Trinidad, Brazil (Para), Peru [NT].
Anastrepha obscura Aldrich 1925[69]: 5.—Trinidad. Maraval. HT ♀ USNM. [6600082]
- ocresia**. USA (Florida), Cuba, Hispaniola, Puerto Rico, Jamaica [NE, NT].
Trypeta ocresia Walker 1849[4957]: 1016.—Jamaica. LT ♀ BMNH. Lectotype designation by inference of holotype by Greene 1934: 158. [6604559]
Trypeta tricincta Loew 1873[3042]: 225.—Haiti. on shipboard, 60 mi. NW of St. Nicholas. LT ♂ MCZ. Lectotype designation by inference of holotype by Greene 1934: 146. [6603151]
Anastrepha ochresia Foote 1967[1508]: 14.—missp. *ocresia* Walker. [6605452]
- ornata**. Colombia, Ecuador [NT].
Anastrepha ornata Aldrich 1925[69]: 6.—Ecuador. Oriente: Banos. HT ♀ USNM. [6600083]
- pacifica**. Mexico (s. Sinaloa, w. Jalisco) [NT].
Anastrepha pacifica Hernandez-Ortiz 1991[2240]: 229.—Mexico. Sinaloa: El Rosario. HT ♀ UNAM. [6605192]
- palae**. Panama, Colombia [NT].
Anastrepha palae Stone 1942[4674]: 58.—Panama. El Cermeno. HT ♀ USNM. [6604477]
- pallens**. USA (s. Texas) S to Honduras [NE, NT].
Anastrepha pallens Coquillett 1904[959]: 35.—USA. Texas: Brownsville vicinity. HT ♂ USNM. HT transferred from Brooklyn Institute of Arts & Sciences. [6600805]
- pallidipennis**. Colombia, Venezuela [NT].
Anastrepha pallidipennis Greene 1934[1800]: 166.—Colombia. Antioquia: Medellin. HT ♀ USNM. [6601432]
- panamensis**. Costa Rica, Panama [NT].
Anastrepha panamensis Greene 1934[1800]: 150.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6601422]
- parallela**. Colombia, Brazil (Para, Bahia); Guyana? [NT].
Dacus parallelus Wiedemann 1830[5136]: 515.—Brasilien [Brazil]. LT ♀ NMW. Lectotype designated by Zucchi 1979:263; Lectotype designated by Hardy 1968:145 suppressed by I.C.Z.N. 1989: 208, Opinion 1558. [6604750]
- parishi**. Venezuela, Guyana [NT].
Anastrepha parishi Stone 1942[4675]: 302.—Guyana. Bartica. HT ♀ USNM. [6604445]
- passiflorae**. Panama [NT].
Anastrepha passiflorae Greene 1934[1800]: 151.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6601423]
- pastranai**. Argentina (Jujuy) [NT].
Anastrepha pastranai Blanchard 1961[534]: 336.—Argentina. Jujuy: Santa Barbara. HT ♀ IPV. [6600618]
- perdita**. Panama, Peru, Brazil [NT].
Anastrepha perdita Stone 1942[4674]: 76.—Brazil. HT ♀ USNM. [6604487]
- phaeoptera**. Brazil (Bahia) [NT].
Anastrepha phaeoptera Lima 1937[2963]: 38.—Brazil. Bahia. HT ♂ IOC. [6602963]
- pickeli**. Costa Rica to Guyana & Tobago, Venezuela to Peru, Argentina, Brazil [NT].
Anastrepha pickeli Lima 1934[2954]: 542.—Brazil. Pernambuco: Taperia; & Rio de Janeiro: Guaratiba. ST ♂ ♀ IOC. Also ST in CPARJ. [6602950]
- pittieri**. Panama, Venezuela [NT].
Anastrepha pittieri Caraballo 1985[745]: 27.—Venezuela. Aragua: Rancho Grande, 1100 m. HT ♀ IZAM. [6600653]
- pseudoparallela**. Ecuador, Peru, Argentina (Tucuman), s. Brazil [NT].
Trypeta pseudoparallela Loew 1873[3042]: 230.—Brazil. ST ♂ ♀ ZMHU. [6603153]
- pulchra**. Panama, Venezuela, Brazil (Amazonas) [NT].
Anastrepha pulchra Stone 1942[4674]: 26.—Panama. La Campana. HT ♀ USNM. [6604457]
- punctata**. Paraguay, Argentina, s. Brazil [NT].
Anastrepha punctata Hendel 1914[2101]: 67.—Paraguay. T A MNM. [6602063]
Anastrepha minor Lima 1934[2954]: 509.—Brazil. Mato Grosso: Fazenda Murtinho. HT ♂ CPARJ. [6602933]
Anastrepha hendeli Greene 1934[1800]: 155.—Brazil. Sao Paulo. HT ♀ USNM. [6601427]
Anastrepha pseudopunctata Blanchard 1961[534]: 306.—Argentina. Tucuman: Tucuman. HT ♀ IPV. [6600599]
Anastrepha goldbachii Blanchard 1961[534]: 301.—Argentina. Tucuman: Burreyacu. HT ♀ IPV. [6600596]
Anastrepha dangeloi Blanchard 1961[534]: 304.—Argentina. Corrientes: Corrientes. HT ♀ IPV. [6600597]

- Anastrepha punctata* Hendel 1914[2103]: 19.—Paraguay. La Cordillera: San Bernardino. ST ♂ ♀ MNM. Preocc. Hendel 1914: 67. [6601963]
- Anastrepha goldbachii* Rosillo 1953[4218]: 101.—*Nomen nudum*. Attributed to Blanchard. [6605440]
- Anastrepha distenta* Rosillo 1953[4218]: 101.—*Nomen nudum*. Attributed to Blanchard. [6605435]
- Anastrepha pseudopunctata* var. *distenta* Blanchard 1961[534]: 307.—*Nomen nudum*. Argentina. Tucuman: Tucuman. HT ♀ IPV. Form or variety proposed after 1960. [6600600]
- Anastrepha d'angeloi* Blanchard 1961[534]: 304.—incosp. *dangeloi* Blanchard. Automatic correction under Art. 32(d). [6605726]
- quararibae**. Colombia, Brazil (Bahia, Rio de Janeiro) [NT].
Anastrepha quararibae Lima 1937[2963]: 35.—Brazil. Bahia. HT ♀ IOC. [6602959]
- quiinae**. Brazil (Bahia) [NT].
Anastrepha quiinae Lima 1937[2963]: 37.—Brazil. Bahia. ST ♂ ♀ IOC. [6602960]
- ramosa**. Guatemala, Panama [NT].
Anastrepha ramosa Stone 1942[4674]: 60.—Panama. El Cermeno. HT ♀ USNM. [6604478]
- reichardti**. Venezuela [NT].
Anastrepha reichardti Zucchi 1979[5326]: 115.—Venezuela. Aragua: Rancho Grande, 1100 m. HT ♀ USP. [6604896]
- repanda**. Argentina (Santa Fe) [NT].
Anastrepha repanda Blanchard 1961[534]: 326.—Argentina. Santa Fe Prov. HT ♀ IPV. [6600615]
Anastrepha repanda Blanchard 1941[531]: 60.—*Nomen nudum*. [6605880]
- rheediae**. Panama, Colombia, Venezuela, Trinidad, Ecuador, s. Brazil [NT].
Anastrepha rheediae Stone 1942[4674]: 65.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6604482]
- robusta**. Mexico (Veracruz, Oaxaca, Chiapas), Guatemala, Costa Rica, Panama [NT].
Anastrepha robusta Greene 1934[1800]: 144.—Guatemala. Cayuga. HT ♀ USNM. [6601418]
- rosilloi**. Argentina (Jujuy, Salta, Tucuman) [NT].
Anastrepha rosilloi Blanchard 1961[534]: 321.—Argentina. Jujuy: El Carmen. HT ♀ IPV. [6600612]
Anastrepha rosilloi Rosillo 1953[4218]: 101.—*Nomen nudum*. Attributed to Blanchard. [6605461]
- sagittata**. USA (s. Texas) S to Guatemala [NE, NT].
Lucumaphila sagittata Stone 1939[4671]: 347.—Mexico. Morelos: Cuernavaca. HT ♀ USNM. [6604439]
- sagittifera**. Brazil (Espírito Santo) [NT].
Anastrepha sagittifera Zucchi 1979[5325]: 38.—Brazil. Espírito Santo: Baixo Guandu. HT ♀ USP. [6604890]
- schausi**. Costa Rica [NT].
Anastrepha schausi Aldrich 1925[69]: 3.—Costa Rica. Juan Vinas. HT ♂ USNM. [6600079]
- schultzi**. Peru, Argentina [NT].
Anastrepha schultzi Blanchard 1938[529]: 366.—Argentina. Tucuman: Tucuman. ST ♂ ♀ IPV. [6600587]
Anastrepha schultzi var. *obliteratella* Blanchard 1938[529]: 368.—Argentina. Tucuman: Tucuman. ST ♂ ♀ IPV. [6600588]
Anastrepha inca Stone 1942[4674]: 101.—Peru. Cuzco. HT ♀ USNM. [6604449]
- scobinae**. Costa Rica, Panama [NT].
Anastrepha scobinae Stone 1942[4674]: 56.—Panama. El Cermeno. HT ♀ USNM. [6604474]
- serpentina**. USA (s. Texas) S to Peru & Argentina, Trinidad [NE, NT].
Dacus serpentinus Wiedemann 1830[5136]: 521.—Brazil. T ♀ NMW. Type data (Loew 1873: 227). [6604752]
- Urophora vittithorax* Macquart 1851[3085]: 259.—“l’Indie” [error, neotropical]. T ♀ UMO. [6603240]
- Anastrepha serfentinus* Foote 1965[1502]: 673.—missp. *serpentina* Wiedemann. [6605153]
- shannoni**. Venezuela, Peru, Brazil (Amazonas) [NT].
Anastrepha shannoni Stone 1942[4674]: 23.—Peru. Loreto: Chimbote. HT ♂ USNM. Type data (Norrbom 1991: 121). [6604456]
- similis**. Panama [NT].
Anastrepha similis Greene 1934[1800]: 153.—Panama. Cabima. HT ♀ USNM. [6601425]
- simulans**. Brazil (Sao Paulo) [NT].
Anastrepha simulans Zucchi 1979[5325]: 39.—Brazil. Sao Paulo: Salesopolis, Estacao Biologia de Boraceia. HT ♀ USP. [6604892]
- sinvali**. Brazil (Santa Catarina) [NT].
Anastrepha sinvali Zucchi 1982[5331]: 251.—Brazil. Santa Catarina: Cacador. HT ♀ USP. [6604897]
- sodalis**. Brazil (Para) [NT].
Anastrepha sodalis Stone 1942[4674]: 102.—Brazil. Para: Santarem. HT ♀ BMNH. [6604450]
- sororcula**. Ecuador, Paraguay, Brazil (Bahia, Mato Grosso, Sao Paulo) [NT].
Anastrepha sororcula Zucchi 1979[5325]: 39.—Brazil. Sao Paulo: Ribeirao Preto. HT ♀ USP. [6604891]
- spatulata**. USA (s. Tex.) S to Panama, Venezuela, Tobago [NE, NT].
Anastrepha spatulata Stone 1942[4674]: 61.—Mexico. Tamaulipas: Hacienda Santa Engracia. HT ♀ USNM. [6604479]
Anastrepha triangulata Shaw 1962[4398]: 412.—Mexico. Morelos: Cuernavaca, Canon de Lobos. HT ♀ USNM. HT apparently lost or never deposited in USNM by author. [6604250]
- Anastrepha infuscata* Shaw 1962[4398]: 411.—Panama. La Campana. HT ♀ USNM. HT apparently lost or never deposited by author in USNM. **N. Syn.** [6604249]
- speciosa**. Panama [NT].
Anastrepha speciosa Stone 1942[4674]: 100.—Panama. El Cermeno. HT ♀ USNM. [6604448]
- steyskali**. Peru [NT].
Anastrepha steyskali Korytkowski 1974[2762]: 1.—Peru. Huanuco: Leoncio Prado, Anda. HT ♀ MEUA. [6602906]
- stonei**. USA (s. Florida), Bahamas Is. [NE, NT].
Anastrepha stonei Steyskal 1977[4643]: 79.—Bahamas Is. Nassau I. HT ♂ USNM. [6604398]
- striata**. Mexico (N to s. Sinaloa, Aguascalientes & n. Veracruz) S to Bolivia & n. Brazil [NE, NT].
Anastrepha striata Schiner 1868[4296]: 264.—South America [Venezuela]. LT ♀ NMW. Suspension of I.C.Z.N. rules required to validate usage. Lectotype designation by inference of holotype by Hardy 1968: 136. [6604176]
- Dictya cancellaria* Fabricius 1805[1380]: 328.—America meridionali [Guyana]. T A UZMC. In interest of stability, the authors reject this valid prior name. Type data (Zimsen 1964: 494). **N. Syn.** [6601234]
- submunda**. Brazil (Bahia) [NT].
Anastrepha submunda Lima 1937[2963]: 37.—Brazil. Bahia. ST ♂ ♀ IOC. [6602962]
- subramosa**. Panama [NT].
Anastrepha subramosa Stone 1942[4674]: 61.—Panama. La Campana. HT ♀ USNM. [6604480]
- superflua**. Panama [NT].
Anastrepha superflua Stone 1942[4674]: 33.—Panama. El Cermeno. HT ♀ USNM. [6604460]

- suspensa*. Greater Antilles, Bahamas; introduced USA (Florida) [NE, NT].
Trypeta suspensa Loew 1862[3033]: 69.—Cuba. LT ♂ MCZ. Lectotype designation by inference of holotype by Greene 1934: 148. [6603089]
Anastrepha unipuncta Sein 1933[4351]: 190.—Puerto Rico. Rio Piedras. HT ♀ USNM. [6604241]
Anastrepha longimacula Greene 1934[1800]: 146.—Jamaica. Hope [Botanical Gardens, Kingston]. HT ♀ USNM. [6601419]
- sylvicola*. Colombia, Venezuela, Trinidad [NT].
Anastrepha sylvicola Knab 1915[2688]: 146.—Trinidad. ST ♂ ♀ USNM. [6602874]
- tecta*. Ecuador, Peru [NT].
Anastrepha tecta Zucchi 1979[5326]: 115.—Peru. Cajamarca: Chota, Pasamayo. HT ♀ USP. [6604895]
Anastrepha rheediae: Korytkowski & Ojeda 1968[2764]: 55.—misid. See Zucchi 1979: 115. [6605487]
Anastrepha triangulata: Korytkowski & Ojeda 1968[2764]: 58.—misid. See Zucchi 1979: 115. [6605488]
- teli*. Panama [NT].
Anastrepha teli Stone 1942[4675]: 302.—Panama. El Cermen. HT ♀ USNM. [6604443]
- tenella*. Brazil (Bahia) [NT].
Anastrepha tenella Zucchi 1979[5325]: 40.—Brazil. Bahia: Cruz das Almas. HT ♀ USP. [6604893]
- teretis*. Panama [NT].
Anastrepha teretis Stone 1942[4674]: 103.—Panama. La Campana. HT ♀ USNM. [6604451]
- townsendi*. Ecuador, Brazil (Para) [NT].
Anastrepha townsendi Greene 1934[1800]: 165.—Brazil. Para: Rio Tapajos, Boa Vista. HT ♀ USNM. Type data (Stone 1942: 85). [6601431]
- tripunctata*. Mexico (Jalisco, Guerrero, Chiapas) [NT].
Anastrepha tripunctata Wulp 1899[5216]: 405.—Mexico. Guerrero: Venta de Zopilote, 2800 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 237. [6604781]
Anastrepha tripuncta Aldrich 1905[65]: 602.—missp. *tripunctata* Wulp. [6600076]
- tubifera*. West Indies? [NT].
Trypeta tubifera Walker 1858[4963]: 230.—China [error, probably West Indies]. LT ♀ BMNH. Lectotype designation by inference of holotype by Stone 1942: 49. [6604611]
- tumida*. Mexico (Chiapas), Costa Rica, Panama, Colombia, Ecuador [NT].
Anastrepha tumida Stone 1942[4674]: 98.—Panama. La Campana. HT ♀ USNM. [6604499]
- turicai*. Argentina (Tucuman) [NT].
Anastrepha turicai Blanchard 1961[534]: 316.—Argentina. Tucuman: Colalao del Valle. HT ♀ IPV. [6600603]
- turpiniae*. Panama [NT].
Anastrepha turpiniae Stone 1942[4674]: 83.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6604491]
- umbrosa*. Argentina (Misiones) [NT].
Anastrepha umbrosa Blanchard 1961[534]: 332.—Argentina. Misiones: Posadas. HT ♀ IPV. [6600617]
- undosa*. Bolivia, Paraguay, Argentina, Brazil (Mato Grosso) [NT].
Anastrepha undosa Stone 1942[4674]: 50.—Bolivia. Rio Paraguay, Piedra Blanca. HT ♀ AMNH. [6604471]
- urichi*. Trinidad [NT].
Anastrepha urichi Greene 1934[1800]: 159.—Trinidad. HT ♀ USNM. [6601428]
- xanthochaeta*. Paraguay, Brazil (Sao Paulo to Rio Grande do Sul) [NT].
Anastrepha xanthochaeta Hendel 1914[2101]: 69.—Brazil. T A NMW. [6602068]
- Anastrepha xanthochaeta* Hendel 1914[2103]: 18.—Brazil. Rio Grande do Sul. HT ♀ NMW. Preocc. Hendel 1914: 69. [6601960]
- zenildae*. Brazil (Ceara, Bahia, Sao Paulo, Rio Grande do Norte), Argentina [NT].
Anastrepha zenildae Zucchi 1979[5325]: 40.—Brazil. Ceara: Pacajus. HT ♀ USP. [6604894]
- zernyi*. Brazil (Mato Grosso, Bahia, Sao Paulo), Argentina [NT].
Anastrepha zernyi Lima 1934[2954]: 524.—Brazil. HT ♀ NMW. [6602939]
- zeteki*. Panama [NT].
Anastrepha zeteki Greene 1934[1800]: 152.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6601424]
- zuelaniae*. USA (s. Texas), Mexico, Guatemala, Panama [NE, NT].
Anastrepha zuelaniae Stone 1942[4674]: 82.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6604490]

Genus ANASTREPHOIDES

Anastrephoides Hendel 1927[2107]: 105, *gerckei* Hendel (OD). [6600218]

annulifera. China [PA].

Anastrephoides annulifera Hering 1940[2188]: 25.—China. Manchuria, Gaolinsy. HT ♂ BMNH. [6602461]

gerckei. sw. Russia [PA].

Anastrephoides gerckei Hendel 1927[2107]: 105.—Russia. Astrakhan. T ♀ ZSZMH. [6602119]

matsumurai. e. Russia, China (Manchuria), Japan (Hokkaido, Honshu) [PA].

Anastrephoides matsumurai Shiraki 1933[4432]: 282.—Japan. Hokkaido: Sapporo; or Russia. Sakhalin: Otomari. HT A NTU. Described from both sexes, but sex & locality of HT not specified. [6604294]

Genus ANCHIACANTHONEVRA

Anchiacanthonevra Hardy 1986[1962]: 31, *maculipennis* Hardy (OD). [6600496]

maculipennis. New Britain [AU].

Anchiacanthonevra maculipennis Hardy 1986[1962]: 31.—Papua New Guinea. New Britain: R. Kapiura. HT ♀ BBM. [6601793]

Genus ANGELOGELASINUS

Angelogelasinus Ito 1984[2418]: 186, *Myiolia nagoensis* Shiraki (OD). [6600458]

Angelogelasius Ito 1956[2407]: 25, *Nomen nudum*. [6600805]

REF.—Ito 1984[2418]: 186 (key to 3 spp. [PA: Japan]).

amuricola. e. Russia, n. China [PA].

Myiolia amuricola Hendel 1927[2107]: 101.—Russia. Amur Region. LT ♀ NMW. Lectotype designation by inference of holotype by Hardy 1968: 114. [6602141]

implicatus. Japan (Honshu) [PA].

Angelogelasinus implicatus Ito 1984[2418]: 188.—Japan. Honshu: Sinano, Ogisawa. HT ♀ UOPJ. [6602817]

nagoensis. Japan (Honshu, Shikoku, Kyushu) [PA].

Acidiella nagoensis Shiraki 1933[4432]: 250.—Japan. Honshu: Nagano. HT ♀ NTU. [6604287]

obscuripennis. China (Jilin) [PA].

Acidiella obscuripennis Chen 1948[814]: 114.—China. Kirin [Jilin]. HT ♂ IZAS. [6600715]

venustus. Japan (Honshu) [PA].

- Angelogelasinus venustus* Ito 1984[2418]: 187.—Japan. Honshu: Yamato, Dorogawa. HT ♂ UOPJ. [6602816]
Euleia venustus Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604979]

Genus ANOMOIA

- Anomoia* Walker 1835[4955]: 80, *Trypeta gaedii* Meigen (MO) = *purmunda* Harris. Type species misspelled as *goedii*. [6600590]
Phagocarpus Rondani 1870[4205]: 9, *Musca permundus* Harris (OD) = *purmundus* Harris. [6600219]
Neanomoea Hendel 1914[2102]: 84, *approximata* Hendel (OD). [6600591]
Anomoea Loew 1862[3038]: 33, emend. *Anomoia* Walker. [6600646]
Anomoeia Westwood 1840[5081]: 148, missp. *Anomoia* Walker. [6600763]
Anomoja Rondani 1871[4209]: 171, missp. *Anomoia* Walker. [6600762]
- REFS—Shiraki 1933[4432]: 184 ((*Phagocarpus*) key to 5 spp. [PA, OR: Japan, Korea & Taiwan]); Hering 1938[2181]: 20 ((*Phagocarpus*) key to 7 spp. [OR: mainland Asia]); Hardy 1973[1942]: 237 (key to 7 spp. [OR: Southeast Asia]); Hardy 1974[1943]: 191 (key to 3 spp. [OR: Philippines]); Ito 1984[2416]: 76 (key to 12 spp. [PA: Japan]); Kwon 1985[2802]: 64 (key to 2 spp. [PA: Korea]); Hardy 1987[1963]: 276 (key to 7 spp. [OR, AU: Indonesia to Solomon Is.]); Kapoor 1993[2600]: 48 (key to 2 spp. [OR: India]).
- alboscuteolata**. Indonesia (Sumatra, Java); Taiwan? [OR].
Anomoea alboscuteolata Wulp 1899[5215]: 217.—Indonesia. Sumatra. HT ♀ ZMAN. HT possibly lost (Hardy 1987: 316). [6604778]
Neanomoea segregata Hering 1952[2218]: 287.—Indonesia. Java: Idjen, Kendeng, 1400 m. HT ♀ RNH. Sex of HT misstated by Hering (Hardy 1987: 316). [6602684]
- amamioshimaensis**. Japan (Ryukyu Is.) [OR].
Phagocarpus amamioshimaensis Shiraki 1968[4435]: 47.—Japan. Ryukyu Is.: Amami-Oshima I., Mt. Yuwan. HT ♂ NIAS. [6604346]
- apicalis**. Japan (Honshu, Shikoku, Ryukyu Is.) [PA, OR].
Anomoia apicalis Ito 1984[2416]: 84.—Japan. Shikoku: Iyo, Sugitate, near Matuyama. HT ♀ EUMJ. [6602788]
Phagocarpus apicalis Ito 1956[2407]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604958]
- approximata**. Taiwan [OR].
Neanomoea approximata Hendel 1914[2102]: 84.—Formosa [Taiwan]. T A MNM. [6601939]
Neanomoea approximata Hendel 1915[2105]: 455.—Taiwan. Kosempo; & Toyenmongai. ST ♂ MNM. Preocc. Hendel 1914. [6602098]
- belliata**. Japan (Ryukyu Is.) [OR].
Anomoia belliata Ito 1984[2416]: 86.—Japan. Ryukyu Is.: Okinawahonto I., Yomitan. HT ♀ UOPJ. [6602790]
- brunneifemur**. Burma [OR].
Phagocarpus brunneifemur Hering 1938[2181]: 21.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602348]
- connexa**. Taiwan [OR].
Phagocarpus connexus Shiraki 1933[4432]: 188.—Taiwan. Kobayashi, 1300 m. HT ♂ NTU. [6604269]
- distincta**. China (Guangxi) [OR].
Phagocarpus distinctus Zia 1939[5310]: 3.—China. Guangxi: Yaosan [Yaozhai]. HT ♂ IZAS. [6604864]

electa. Burma [OR].

- Neanomoea electa* Hering 1938[2181]: 19.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602346]
- expressa**. North Korea [PA].
Anomoia expressa Dirlbek 1992[1171]: 1.—North Korea. Ryongaksan region, 10 km. W of Pyongyang. HT ♂ Kozanek. [6605250]
- flavifemur**. Burma [OR].
Phagocarpus brunneifemur ssp. *flavifemur* Hering 1938[2181]: 21.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602347]
- formosana**. Taiwan [OR].
Phagocarpus formosanus Shiraki 1933[4432]: 186.—Taiwan. Arisan; & Horisha. ST ♂ ♀ NTU. [6604268]
- immsi**. India (Himachal Pradesh, Uttar Pradesh, W. Bengal), Taiwan [OR].
Phagocarpus immsi Bezzi 1913[448]: 131.—India. Uttar Pradesh: near Bhowali, Kumaon, 5700 ft. HT ♂ ZSI. [6600212]
- klossi**. China (Fujian), Philippines, Indonesia (Sumatra), Papua New Guinea [OR, AU].
Phagocarpus klossi Edwards 1919[1291]: 51.—Indonesia. Sumatra: Sandaran Agong, 2450 ft. HT ♂ BMNH. [6601129]
Phagocarpus occultus Hering 1939[2183]: 144.—China. Fujian: Kwang-Tseh. HT ♂ ZFMK. [6602427]
- leucochila**. Japan (Honshu, Shikoku, Kyushu) [PA].
Anomoia leucochila Ito 1984[2416]: 79.—Japan. Kyushu: Kawati, Iwawakisan. HT ♀ UOPJ. [6602786]
Phagocarpus zoseanus: Ito 1949[2400]: 39.—misid. See Ito 1984: 79. [6605808]
- malaisei**. Burma [OR].
Phagocarpus malaisei Hering 1938[2181]: 22.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602350]
- melanobasis**. Philippines (Luzon) [OR].
Anomoia melanobasis Hardy 1974[1943]: 192.—Philippines. Luzon, Laguna: Mount Makiling. HT ♂ MCSNM. [6601646]
- melanopoda**. Indonesia (Irian Jaya) [AU].
Anomoea melanopoda Hering 1953[2220]: 522.—Indonesia. Irian Jaya: Rattan Camp, 1100 m. HT ♂ RNH. [6602700]
- melanopsis**. Burma [OR].
Phagocarpus melanopsis Hering 1938[2181]: 22.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602349]
- mirabilis**. India (W. Bengal), China (Sichuan) [PA, OR].
Phagocarpus mirabilis Seguy 1934[4345]: 7.—China. Sichuan: Moupin [Pao Hing]. HT ♂ MNHNP. [6604233]
- modica**. Indonesia (Irian Jaya), Papua New Guinea (Morobe, Central) [AU].
Anomoia modica Hardy 1987[1963]: 282.—Papua New Guinea. Central: Eiloga Cr. [Eilogo Creek]. HT ♂ BBM. [6601818]
- nigrithorax**. Indonesia (Irian Jaya), Papua New Guinea [AU].
Anomoea nigrithorax Malloch 1939[3137]: 449.—Papua New Guinea. East Sepik: Edie Creek [7°17'S 146°43'E]. HT ♀ AMS. [6603359]
Anomoea curvivenis Hering 1953[2220]: 522.—Indonesia. Irian Jaya: Lower Mist Camp, 1550 m. HT ♂ RNH. [6602699]
- okinawaensis**. Japan (Honshu, Kyushu, Ryukyu Is.) [PA, OR].
Phagocarpus okinawaensis Shiraki 1968[4435]: 44.—Japan. Ryukyu Is.: Okinawa. HT ♀ NIAS. [6604345]
- proba**. Japan (Ryukyu Is.) [OR].
Anomoia proba Ito 1984[2416]: 78.—Japan. Ryukyu Is.: Osumi, Tokunoshima I., Mikyo. HT ♀ UOPJ. [6602785]
- purmunda**. British Is. & Scandinavia S to n. Italy, Bulgaria, Caucasus, & Kazakhstan, China, Korea, Japan [PA].
Musca purmundus Harris 1780[1999]: 74.—England. Kent, near Dartford. T A Unknown. [6601897]

- Trypeta antica* Wiedemann 1830[5136]: 511.—Russia. Ural. T ♀ ZMHU. [6604749]
Trypeta gaedii Meigen 1830[3307]: 382.—Germany. Hamburg; Belgium. Lutich [Liege] region; England. ST ♂ NMW. Gaede ST possibly in MNHNP. [6603452]
Tephritis oxyacanthae Perris 1876[3796]: 211.—France. ST A Unknown. ST possibly in Ecole d'Agric. Montpellier (Horn & Kahle 1935). [6603989]
Musca permundus Harris 1782[2000]: index.—missp. *purmundus* Harris. [6605455]
Trypeta goedii Walker 1835[4955]: 81.—missp. *gaedii* Meigen. [6605104]
Phagocarpus permundus Rondani 1871[4209]: 171.—missp. *purmundus* Harris. [6604150]
Anomoia pumrundis Foote 1984[1517]: 73.—missp. *purmunda* Harris. Attributed to “authors”. [6605761]

purmunda asiatica. Mongolia [PA].

- Phagocarpus purmundus* ssp. *asiaticus* Kandybina 1972[2574]: 916.—Mongolia. N. Khangay: Tevshrulekh, right bank of Tsetserleg R. HT ♂ ZISP. [6602845]

pusilla. Burma, Thailand [OR].

- Phagocarpus pusillus* Hering 1938[2181]: 23.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602352]

solennis. Russia (Kurile Is.), Japan (Hokkaido) [PA].

- Phagocarpus solennis* Richter 1969[4086]: 1495.—Russia. Kurile Is., Kunashir I., Tret'yakovo. HT ♂ ZISP. [6604023]
Anomoia solensis Ito 1984[2416]: 82.—missp. *solennis* Richter. [6605528]

steyskali. Philippines (Tawi-Tawi) [OR].

- Anomoia steyskali* Hardy 1974[1943]: 193.—Philippines. Tawi-Tawi: N of Batu Batu, Tarawakan. HT ♀ UZMC. [6601647]

tranquilla. Japan (Ryukyu Is.) [OR].

- Anomoia tranquilla* Ito 1984[2416]: 80.—Japan. Ryukyu Is.: Amamioshima I., Yuwandake. HT ♀ UOPI. [6602787]

vana. Thailand, Taiwan [OR].

- Phagocarpus vanus* Hering 1942[2206]: 279.—Taiwan. nr. Tainan, Toyenmongai. HT ♂ ZMHU. [6602587]

vulgaris. Korea, Japan (Honshu, Shikoku, Kyushu), Taiwan [PA, OR].

- Phagocarpus vulgaris* Shiraki 1933[4432]: 190.—Japan. Kumamoto; Tokusa; Kii; Kurama; & Taiwan. Hatsune; & Taito. ST ♂ ♀ NTU. [6604270]
Phagocarpus immsi: Hendel 1915[2105]: 456.—misid. See Shiraki 1933: 190. [6605593]

zoseana. China (Jiangsu) [PA].

- Phagocarpus zoseanus* Zia 1937[5308]: 148.—China. Jiangsu: Zo-se [Sheshan]. HT ♀ IZAS. [6604830]

Genus ANOPLOMUS

- Anoplomus* Bezzi 1913[448]: 100, *flexuosus* Bezzi (OD) = *cassandra* Osten Sacken. [6600393]

REFS—Hardy 1974[1943]: 157 (key to 3 spp. [OR]); Hancock & Drew 1994[1242]: 871 (key to 3 spp. [OR]).

cassandra. India, Thailand, Laos, Philippines, Indonesia (Java) [OR].

- Trypeta cassandra* Osten Sacken 1882[3722]: 228.—Philippines. HT ♂ DEI. [6603947]

- Anoplomus flexuosus* Bezzi 1913[448]: 100.—n. n. *fusciventris* Macquart 1848. [6600193]

- Tephritis fusciventris* Macquart 1848[3081]: 225.—Indonesia. Java. ST ♂ ♀ Payen. Preocc. Macquart 1843. [6603237]

nigrifemoratus. Laos [OR].

- Anoplomus nigrifemoratus* Hardy 1973[1942]: 242.—Laos. Vientiane: Ban Van Eue. HT ♂ BBM. [6601587]

rufipes. Thailand, Laos [OR].

- Anoplomus rufipes* Hardy 1973[1942]: 243.—Thailand. Chiang Mai: Chiang Dao. HT ♂ BBM. [6601588]

Genus ANTISOPHIRA

- Antisophira* Hardy 1974[1943]: 103, *vittata* Hardy (OD). [6600369]

vittata. Philippines (Mindanao) [OR].

- Antisophira vittata* Hardy 1974[1943]: 104.—Philippines. Mindanao, Misamis Oriental: Minubanan, 1050-1200 m. HT ♀ BBM. [6601628]

Genus ANTOXYA

- Antoxya* Munro 1957[3510]: 935, *Euribia oxynoides* Bezzi (OD). [6600183]

oxynoides. Ethiopia, Uganda, Kenya, Tanzania [AF].

- Euribia oxynoides* Bezzi 1924[472]: 137.—Tanzania. Arusha-Ju. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 153. [6600490]

- Oxyana africana* Hering 1941[2199]: 201.—Tanzania. Ugano. HT ♂ NMW. [6602556]

Genus APICULONIA

- Apiculonia* Wang 1990[4993]: 358, *tibetana* Wang (OD). [6600809]

tibetana. China (Xizang) [PA].

- Apiculonia tibetana* Wang 1990[4993]: 359.—China. Xizang: Zhamo (29.8°N, 95.7°E), 2700 m. HT ♂ IZAS. [6605005]

Genus ARIDONEVRA

- Aridonevra* Permkam & Hancock 1995[3795]: 1063, *cunnamullae* Permkam & Hancock (OD). [6600993]

cunnamullae. Australia (sw. Qld.) [AU].

- Aridonevra cunnamullae* Permkam & Hancock 1995[3795]: 1064.—Australia. Queensland: Gilruth Plains, Cunnamulla. HT ♂ AMS. [6605844]

Genus ASIMONEURA

- Asimoneura* Czerny 1909[1054]: 253, *stroblii* Czerny (MO). [6600344]

REFS—Bezzi 1924[469]: 116 ((*Urophora*) key to 2 spp. [AF]); Munro 1931[3462]: 116 ((*Urophora*) key to 4 spp. [AF]).

indecora. Zimbabwe, South Africa [AF].

- Trypeta indecora* Loew 1861[3031]: 282.—Caffrerei [South Africa]. T ♀ ZMHU. *N. comb.* [6603074]

- Trypeta indecora* Loew 1862[3037]: 5.—Caffraria [South Africa]. T ♀ ZMHU. Preocc. Loew 1861. [6605266]

pantomelas. Tanzania, Zimbabwe, South Africa [AF].

- Urophora pantomelas* Bezzi 1926[476]: 288.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. *N. comb.* [6600522]

- Urophora pantomelaena* Cogan & Munro 1980[882]: 524.—missp. *pantomelas* Bezzi. [6600731]

petiolata. South Africa [AF].

- Urophora petiolata* Munro 1931[3462]: 115.—South Africa. Orange Free: Fauresmith. ST ♂ ♀ SANC. [6603487]

Urophora petiolata var. *seminigra* Munro 1931[3462]: 118.—South Africa. Orange Free: Fauresmith. ST ♂ ♀ SANC. *N. comb.* [6603489]

Urophora petiolata var. *flava* Munro 1931[3462]: 117.—South Africa. Cape: Herbert dist., Craigieburn. ST ♂ ♀ SANC. [6603488]

shirakii. Taiwan [OR].

Euribia shirakii Munro 1935[3477]: 261.—Taiwan. Anping. HT ♀ DEI. *N. comb.* [6603558]

stroblii. France, Spain [PA].

Asimoneura stroblii Czerny 1909[1054]: 253.—Spain. Gerona: Monistrol. ST ♂ ♀ NMW. [6600873]

Genus *AUSTRONEVRA*

Austronevra Permkam & Hancock 1995[3795]: 1065, *Acanthoneura australina* Hendel (OD). [6600994]

REF.—Permkam & Hancock 1995[3795]: 1065 (revision of 2 spp. [AU]).

australina. Australia (n. Qld.) [AU].

Acanthoneura australina Hendel 1928[2111]: 359.—Australia. Queensland: Cairns. ST ♀ DEI, NMW. [6602188]

bimaculata. Australia (n. Qld.) [AU].

Austronevra bimaculata Permkam & Hancock 1995[3795]: 1067.—Australia. Queensland: Cape York Peninsula, Iron Range. HT ♂ QMBA. [6605845]

Genus *AUSTRORIOXA*

Austrorioxia Permkam & Hancock 1995[3795]: 1069, *Acanthoneura acidomorpha* Hendel (OD). [6600995]

acidomorpha. Australia (n. Qld. to e. cent. NSW) [AU].

Acanthoneura acidomorpha Hendel 1928[2111]: 360.—Australia. New South Wales. HT ♀ USNM. [6602189]

Acanthoneura acidomorpha Hardy 1951[1922]: 171.—missp. *acidomorpha* Hendel. [6605759]

Genus *AXIOTHAUMA*

Axiothauma Munro 1946[3495]: 483, *edwardsi* Munro (OD). [6600171]

REF.—Munro 1946[3495]: 483 (key to 3 spp. [AF]).

albinodosum. Kenya [AF].

Axiothauma albinodosum Munro 1946[3495]: 489.—Kenya. Aberdare Range, Nyeri Track, 10500 ft. HT ♂ BMNH. [6603652]

edwardsi. Kenya [AF].

Axiothauma edwardsi Munro 1946[3495]: 485.—Kenya. Mt. Elgon, heath zone, 10500-11000 ft. HT ♂ BMNH. [6603650]

nigrinitens. Kenya [AF].

Axiothauma nigrinitens Munro 1946[3495]: 487.—Kenya. Aberdare Range, Mt. Kinangop, 10000 ft. HT ♂ BMNH. [6603651]

Genus *BACTROCERA*

REFS.—Shiraki 1933[4432]: 34 (keys to 5 subgenera & 27 spp. [PA OR: Japan, Korea & Taiwan]); Hardy & Adachi 1954[1969]: 148 (key to 8 subgenera & 48 spp. [OR: Philippines & Indonesia]); Exley 1955[1372]: 147 (key to larvae of 29 spp. (as several genera) [AU: Australia]); Hardy 1973[1942]: 14 (key to 6 subgenera & 43 spp. [OR: Southeast Asia]); Hardy 1974[1943]: 16 (key to 6 subgenera

& 36 spp. [OR: Philippines]); Drew, Hancock & Ronig 1981[1241]: 85 (key to 78 spp. [AU: Australia]); Drew 1989[1232]: 1 (revision of 272 spp., key to 20 subgenera [AU]); White & Elson-Harris 1992[5111]: 72, 118 (keys to adults of 39 spp. & larvae of 22 spp. of economic importance [PA AF OR AU]).

Subgenus *AFRODACUS*

Afrodacus Bezzi 1924[470]: 469, *Chaetodacus biguttulus* Bezzi (MO). [6600467]

REFS.—Hardy 1955[1925]: 3 (revision of 11 spp. (obsolete) [AF OR AU]); Drew 1972[216]: 210 (key to 2 spp. [AU]); Munro 1984[3524]: 22 (revision of 4 spp. [AF]); Drew 1989[1232]: 222 (key to 7 spp. [AU]).

biguttula. Mozambique, South Africa [AF].

Chaetodacus biguttulus Bezzi 1922[464]: 294.—South Africa. Cape: East London. LT ♂ SANC. Lectotype designated by Munro 1984: 22. [6600362]

brunnea. Australia (Qld.) [AU].

Afrodacus brunneus Perkins & May 1949[3788]: 18.—Australia. Queensland: Gaydah. LT ♀ QMBA. Lectotype designated by Drew 1989: 20. [6603984]

grandistylus. New Caledonia [AU].

Bactrocera grandistylus Drew & Hancock 1995[1240]: 7.—New Caledonia. Mare I. HT ♂ QMBA. [6605414]

hypomelaina. Papua New Guinea (Morobe, Western Highlands) [AU].

Bactrocera hypomelaina Drew 1989[1232]: 20.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601041]

jarvisi. Australia (WA, NT, Qld., NSW, Lord Howe I.) [AU].

Chaetodacus jarvisi Tryon 1927[4832]: 201.—Australia. Queensland: Stanthorpe, 3000 ft. HT ♀ QMBA. [6604542]

Dacus australis var. *halterata* Hendel 1928[2111]: 342.—Australia. Queensland: Cairns. HT ♀ DEI. [6602173]

Dacus australis Hendel 1928[2111]: 341.—Australia. Northern Territory: Palmerston [Darwin]. ST ♂ ♀ DEI. [6602172]

Chaetodacus jarvisi var. *careya* Tryon 1927[4832]: 202.—*Nomen nudum*. Australia. Queensland: Bowen, Rockhampton District; & Burnett Heads. ST ♂ ♀ QMBA. Published without diagnosis or indication. Type data (Drew 1989: 21). [6605103]

lucida. South Africa [AF].

Dacus lucidus Munro 1939[3487]: 26.—South Africa. Cape: Mossel Bay. HT ♂ BMNH. [6603615]

menanus. Madagascar [AF].

Afrodacus menanus Munro 1984[3524]: 24.—Madagascar. Antsiranana: 50 km. SE of Diego Suarez [Antsiranana], Analamerana [Andaramerana?], 800 m. HT ♂ SANC. [6603885]

minuta. Vanuatu [AU].

Dacus minutus Drew 1971[1215]: 29.—Vanuatu. Efate I.: Vila. HT ♂ QMBA. [6600951]

nigrivenata. Kenya [AF].

Dacus nigrivenatus Munro 1937[3480]: 1.—Kenya. Nairobi. HT ♂ BMNH. [6603579]

ochracea. Papua New Guinea (Central) [AU].

Bactrocera ochracea Drew 1989[1232]: 23.—Papua New Guinea. Central: Mt. Lawes, 800 ft. HT ♂ QMBA. [6601053]

Subgenus *ASIADACUS*

Asiadacus Perkins 1937[3783]: 57, *Chaetodacus bakeri* Bezzi (OD). [6600468]

Neodacus: Hardy 1954[1923]: 5, *misid.* [6600926]

REF.—Hardy 1973[1942]: 15 (key to 2 spp.[OR: Thailand]).

absoluta. Indonesia (Maluku) [AU].

Dacus absolutus Walker 1861[4972]: 22.—Indonesia. Maluku: Ceram [Seram Laut]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 162. [6604657]

apicalis. Indonesia (Java) [OR].

Dacus apicalis Meijere 1911[3314]: 376.—Indonesia. Java: Sindanglaja. HT ♂ RNH. [6604906]

bakeri. Philippines [OR].

Chaetodacus bakeri Bezzi 1919[461]: 426.—Philippines. Mindanao, Davao. HT ♂ Baker. HT currently in MCSNM. [6600323]

maculifacies. Thailand [OR].

Dacus maculifacies Hardy 1973[1942]: 15.—Thailand. Chanthaburi: Chanthaburi, near sea level. HT ♂ BBM. [6601556]

melanopsis. Indonesia (Sulawesi) [OR].

Dacus melanopsis Hardy 1982[1952]: 187.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601702]

modica. Thailand, China (Yunnan) [OR].

Dacus modicus Hardy 1973[1942]: 17.—Thailand. Nakornsawan [Nakhon Sawan]. HT ♂ KUB. [6601564]

Dacus dianensis Wang & Zhao 1989[5001]: 215.—China. Yunnan: Yiwubanna (22°30'N, 100°40'E), 650 m. HT ♂ IZAS. [6604694]

nadana. China (Hainan) [OR].

Dacus nadanus Chao & Lin 1993[800]: 139.—China. Hainan: Nada, Da Xian. HT ♂ PQMAB. [6605249]

Subgenus *AUSTRODACUS*

Austrodacus Perkins 1937[3783]: 56, *Dacus cucumis* French (OD). [6600469]

cucumis. Australia (NT, Qld., NSW) [AU].

Dacus tryoni var. *cucumis* French 1907[1575]: 307.—Australia. Queensland: Bowen. ST A MVMA? Type data (Drew 1989: 185). [6601365]

Subgenus *BACTROCERA*

Bactrocera Macquart 1835[3073]: 452, *longicornis* Macquart (MO). Attributed to Guerin-Meneville. [6600470]

Dasyneura Saunders 1842[4282]: 60, *zonata* Saunders (MO). [6600471]

Strumeta Walker 1856[4960]: 33, *conformis* Walker (MO) = *umbrosus* Fabricius. [6600472]

Chaetodacus Bezzi 1913[448]: 93, *Musca ferruginea* Fabricius (OD) = *dorsalis* Hendel. [6600473]

Marquesadacus Malloch 1932[3129]: 145, *Chaetodacus perifuscus* Aubertin (MO). Proposed as a subgenus. [6600474]

Apodacus Perkins 1939[3786]: 26, *cheesmani* Perkins (OD) = *cheesmanae* Perkins. [6600475]

Agladacus Munro 1984[3524]: 18, *nesiotes* Munro (OD). [6600668]

Mauritidacus Munro 1984[3524]: 25, *montyanus* Munro (OD). [6600669]

Bactrocera Guerin-Meneville 1838[1828]: 300, *longicornis* Guerin-Meneville (MO) = *longicornis* Macquart. Preocc. Macquart 1835. [6600988]

Bractrocera Duponchel 1842[1268]: 415, missp. *Bactrocera* Macquart. [6600789]

Dasyneuba Walker 1849[4957]: 1076, missp. *Dasyneura* Saunders. [6600829]

REFS.—Malloch 1931[3127]: 254 (key to 32 spp.[AU: Samoa]); Malloch 1939[3135]: 229 (key to 14 spp.[AU: Solomon Is.]); Hardy 1949[1920]: 204 (key to all stages of 2 spp.[AU: Hawaii]); Hardy 1951[1922]: 118 (key to 36 spp.[AU: Australia]); Drew 1972[1217]: 218 (key to 111 spp. [AU]); Kandybina 1977[2576]: 70 (key to larvae of 7 spp. [PA AF OR AU]); Hardy 1983[1956]: (key to 39 spp.[OR: Indonesia]); Hardy 1983[1952]: 174 (key to 52 spp.[OR: Indonesia: Sulawesi]); Ito 1983[2415]: 21 (key to 3 spp.[PA OR: Japan]); Munro 1984[3524]: 15 (revision of 18 spp. (as *Strumetina*) [AF]); Ibrahim 1987[2352]: 136 (key to larvae of 4 spp.[OR: Malaysia]); Wang & Zhou 1989[5001]: 209 (key to 31 spp.[OR: China]); Kapoor, Grewal & Sharma 1989[2608]: 554 (key to 6 spp.[OR: India]); Drew 1989[1232]: 222 (key to 182 spp. [AU]); Tseng, Chen & Chu 1992[4835]: 15 (revision of 35 spp.[OR: Taiwan]); Drew & Hancock 1994[1238]: 1 (revision of 52 spp. of *dorsalis* complex [PA NT AF]).

abdofuscata. Papua New Guinea (Central) [AU].

Dacus abdofuscatus Drew 1971[1215]: 48.—Papua New Guinea. Central: Aroa River. HT ♂ QMBA. [6600960]

abdolonginqua. New Britain [AU].

Dacus abdolonginqua Drew 1971[1215]: 50.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600961]

abdonigella. Papua New Guinea (widespread in lowlands) [AU].

Dacus abdonigella Drew 1971[1215]: 52.—Papua New Guinea. Morobe: near Lae, Bubia. HT ♂ QMBA. [6600962]

abscondita. Australia (Qld.) [AU].

Dacus absconditus Drew & Hancock 1981[1237]: 54.—Australia. Queensland: Cape York Peninsula, 11 km. N of Bamaga. HT ♂ QMBA. [6601109]

absidata. Papua New Guinea (Morobe) [AU].

Bactrocera absidata Drew 1989[1232]: 101.—Papua New Guinea. Morobe: Bulolo, Mt. Susu. HT ♀ QMBA. [6600998]

abundans. Papua New Guinea (Morobe & Western Highlands, above 1200 m.) [AU].

Bactrocera abundans Drew 1989[1232]: 106.—Papua New Guinea. Morobe: Mt. Missim, 1650 m. HT ♂ QMBA. [6601000]

aculeus. Thailand [OR].

Dacus aculeus Hardy 1973[1942]: 28.—Thailand. Phra Nakhon: Bang Khen [13°52'N 100°36'E]. HT ♀ KUB. [6601603]

aemula. Papua New Guinea (Western Highlands) [AU].

Bactrocera aemula Drew 1989[1232]: 26.—Papua New Guinea. Western Highlands: Mt. Hagen. HT ♂ QMBA. [6601062]

aeroginosa. Australia (Qld.) [AU].

Dacus aeroginosus Drew & Hancock 1981[1237]: 57.—Australia. Queensland: Cape York Peninsula, 4 km. E of Lockerbie. HT ♂ QMBA. [6601110]

aethriobasis. Thailand, w. Malaysia [OR].

Dacus aethriobasis Hardy 1973[1942]: 30.—Thailand. Trang: Trang. HT ♂ KUB. [6601607]

affinidorsalis. Philippines (Luzon), Indonesia (Sulawesi) [OR].

Dacus affinidorsalis Hardy 1982[1952]: 215.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 600 m. HT ♂ MZB. [6601713]

affinis. India (Karnataka, Tamil Nadu) [OR].

Dacus affinis Hardy 1954[1923]: 7.—India. Tamil Nadu: Yercaud. HT ♂ USNM. [6601496]

Dacus oscinae Agarwal & Kapoor 1983[42]: 171.—India. Karnataka: Bangalore, B. T. Farm. HT ♂ INPC. **N. Syn.** [6600067]

aithogaster. Solomon Is. (Guadalcanal I.) [AU].

Bactrocera aithogaster Drew 1989[1232]: 117.—Solomon Is. Guadalcanal I.: Honiara. HT ♂ QMBA. [6601004]

- albistrigata**. India (Andaman Is.), w. Malaysia, Singapore, Indonesia (Java, Sulawesi), Christmas I. [OR].
Dacus albistrigatus Meijere 1911[3314]: 377.—Indonesia. Java: Batavia [Jakarta]. HT ♀ ZMAN? [6604907]
- allwoodi**. Australia (NT) [AU].
Dacus allwoodi Drew 1979[1224]: 79.—Australia. Northern Territory: Cobourg Peninsula, Smith Point. HT ♂ QMBA. [6600997]
- alyxiae**. Papua New Guinea, Australia (Qld.) [AU].
Strumeta alyxiae May 1953[3224]: 335.—Australia. Queensland: Cook Highway, nr. Mossman. HT ♂ QMBA. [6603394]
- ampla**. New Britain [AU].
Dacus amplus Drew 1971[1215]: 55.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600963]
- amplexiseta**. Australia (Qld) [AU].
Strumeta amplexiseta May 1962[3231]: 66.—Australia. Queensland: Atherton. HT ♂ QMBA. [6603410]
- andamanensis**. India (Andaman Islands) [OR].
Dacus andamanensis Kapoor 1971[2595]: 477.—India. Andaman Is.: Stawartsound M. HT ♂ INPC. [6602847]
- anfracta**. Papua New Guinea (Western, Milne Bay), Australia (Torres St.) [AU].
Bactrocera anfracta Drew 1989[1232]: 102.—Papua New Guinea. Milne Bay: D'Entre Casteaux I. HT ♂ QMBA. [6600999]
- angustifasciata**. Bismarck Arch. (Lihir I.) [AU].
Bactrocera angustifasciata Drew 1989[1232]: 119.—Papua New Guinea. New Ireland: Lihir I., Lakakot Plantation. HT ♂ QMBA. [6601005]
- anomala**. Vanuatu [AU].
Dacus anomalus Drew 1971[1215]: 57.—Vanuatu. Efate I.: Vila. HT ♂ QMBA. [6600964]
- anthracina**. New Britain [AU].
Dacus anthracinus Drew 1971[1215]: 59.—Papua New Guinea. New Britain: Upper Warangi Valley. HT ♂ QMBA. [6600965]
- antigone**. Australia (Qld.) [AU].
Dacus antigone Drew & Hancock 1981[1237]: 59.—Australia. Queensland: Cape York Peninsula, Iron Range, Gordon's Mine area. HT ♂ QMBA. [6601111]
- aquilonis**. Australia (WA, NT) [AU].
Strumeta aquilonis May 1965[3234]: 62.—Australia. Northern Territory: Nightcliff. HT ♂ QMBA. [6603418]
- arecae**. s. Thailand, w. Malaysia, Singapore [OR].
Dacus arecae Hardy & Adachi 1954[1969]: 161.—Singapore. HT ♂ USNM. [6601868]
- armillata**. Burma [OR].
Strumeta armillata Hering 1938[2181]: 6.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602394]
- assita**. Papua New Guinea (Morobe, Milne Bay) [AU].
Bactrocera assita Drew 1989[1232]: 36.—Papua New Guinea. Milne Bay: Gurney. HT ♂ QMBA. [6601074]
- aterrima**. Bougainville I., Solomon Is. (Shortland I.) [AU].
Dacus aterrimus Drew 1972[1217]: 204.—Papua New Guinea. North Solomons: Bougainville I., Daru Village, 2-3000 ft. HT ♂ QMBA. [6600992]
- atra**. French Polynesia (Austral Is.) [AU].
Dacus atra Malloch 1938[3133]: 113.—French Polynesia. Austral Is.: Raivavae I., nr. Umurau, 100-200 ft. HT ♀ BBM. Type data (Drew 1989: 120), sex of HT misstated by Malloch. [6603302]
- atrifemur**. w. Malaysia [OR].
Bactrocera atrifemur Drew & Hancock 1994[1238]: 9.—Malaysia. w. Malaysia, Sungai Baging. HT ♂ BMNH. [6605287]
- atriliniellata**. Papua New Guinea (Central, Morobe) [AU].
Bactrocera atriliniellata Drew 1989[1232]: 52.—Papua New Guinea. Morobe: Oomsis Forestry Reserve, Lae-Bulolo Rd. HT ♂ QMBA. [6601084]
- aurantiaca**. Papua New Guinea (E. Sepik), Australia (Qld.) [AU].
Dacus aurantiacus Drew & Hancock 1981[1237]: 62.—Australia. Queensland: 25 km. NE of Bamaga, Lockerbie Scrub. HT ♂ QMBA. [6601112]
- bancroftii**. Australia (Qld.) [AU].
Chaetodacus bancroftii Tryon 1927[4832]: 199.—Australia. Queensland: Gympie District. LT ♂ QMBA. Lectotype designated by Drew 1989: 92. [6604541]
- barringtoniae**. Australia (Qld.) [AU].
Chaetodacus barringtoniae Tryon 1927[4832]: 196.—Australia. Queensland: Cairns. LT ♂ QMBA. Lectotype designated by Drew 1989: 122. [6604537]
- batemani**. Australia (Qld.) [AU].
Bactrocera batemani Drew 1989[1232]: 94.—Australia. se. Queensland: Mt. Glorious. HT ♂ QMBA. [6601105]
- beckerae**. Indonesia (Sulawesi) [OR].
Dacus beckeriae Hardy 1982[1952]: 217.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601714]
- biarcuata**. Papua New Guinea, Bougainville I., Solomon Is. [AU].
Dacus biarcuatus Walker 1865[4974]: 122.—New Guinea. LT ♂ BMNH. Lectotype designated by Perkins 1939: 12 (also see Hardy 1959: 164). [6604668]
- bidentata**. Australia (Qld.) [AU].
Strumeta bidentata May 1963[3233]: 527.—Australia. Queensland: Byfield. HT ♂ QMBA. [6603414]
- bifasciata**. Indonesia (Sulawesi) [OR].
Dacus bifasciatus Hardy 1982[1952]: 219.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 650 m. HT ♂ MZB. [6601715]
- bimaculata**. Indonesia (Lombok) [OR].
Bactrocera bimaculata Drew & Hancock 1994[1238]: 10.—Indonesia. Nusa Tenggara: Lombok, Sasaot, 400-550 m. HT ♂ BBM. [6605288]
- breviaculeus**. Papua New Guinea, Australia (Qld.) [AU].
Dacus breviaculeus Hardy 1951[1922]: 145.—Australia. Queensland: near Atherton. HT ♂ USNM. [6601486]
- brevistriata**. Papua New Guinea (Morobe) [AU].
Strumeta brevistriata Drew 1968[1213]: 77.—Papua New Guinea. Morobe: Wau. HT ♂ QMBA. [6600948]
- bryoniae**. Papua New Guinea, Australia (WA, NT, Qld.), Bismarck Arch. [AU].
Chaetodacus bryoniae Tryon 1927[4832]: 192.—Australia. Queensland: Eidsvold. LT ♀ QMBA. Lectotype designated by Drew 1989: 47. [6604536]
- buinensis**. Bougainville I. [AU].
Bactrocera buinensis Drew 1989[1232]: 123.—Papua New Guinea. North Solomons: Bougainville I., Buin, 0-100 m. HT ♂ QMBA. [6601006]
- buloloensis**. Papua New Guinea (Morobe) [AU].
Bactrocera buloloensis Drew 1989[1232]: 125.—Papua New Guinea. Morobe: Bulolo, Namo Banda logging area. HT ♀ QMBA. [6601008]
- cacuminata**. Australia (Qld., NSW, Vic., Lord Howe I.) [AU].
Strumeta cacuminata Hering 1941[2193]: 46.—Australia. Queensland: Brisbane. LT ♂ BMNH. Lectotype designated by Drew 1989: 64. [6602490]
- Strumeta solani* Perkins & May 1949[3788]: 14.—Australia. Queensland; New South Wales. ST ♂ ♀ QMBA. Specimens reported as *dorsalis* by Tryon 1927: 194 also are ST. [6603982]
- Dacus tryoni* var. *solani* Jarvis 1922[2467]: 247.—*Nomen nudum*. [6602834]

- Chaetodacus dorsalis* var. *major* Tryon 1927[4832]: 195.—*Nomen nudum*. Australia. Queensland or New South Wales. ST ♂ ♀ QMBA. Published without diagnosis or indication. [6605101]
- Chaetodacus dorsalis*: Tryon 1927[4832]: 195.—misid. See Perkins & May 1949: 14, Drew 1989: 63. [6605102]
- caledoniensis**. New Caledonia [AU].
- Bactrocera caledoniensis* Drew 1989[1232]: 76.—New Caledonia. Sarramea. HT ♂ QMBA. [6601095]
- caliginosa**. New Britain [AU].
- Dacus caliginosus* Hardy 1970[1940]: 116.—Papua New Guinea. New Britain: Yalom, 1000 m. HT ♂ UZMC. [6601520]
- carambolae**. Thailand & India (Andaman Is.) SE to Malaysia (Sabah) & Indonesia (E to Sumbawa); introduced Guyana, Surinam, French Guiana [NT, OR].
- Bactrocera carambolae* Drew & Hancock 1994[1238]: 11.—Malaysia. Perak: Kuala Kangsar. HT ♀ BMNH. [6605289]
- carbonaria**. New Britain, New Ireland, Lihir I. [AU].
- Dacus carbonarius* Hendel 1927[2110]: 61.—Papua New Guinea. New Britain. ST ♂ ♀ NMW. ZSZMH ST destroyed (Drew 1989: 126). [6602145]
- Strumeta atramentata* Hering 1941[2196]: 9.—Papua New Guinea. New Britain: Ralum [Kokopo]. ST ♂ ♀ ZMHU. **N. Syn.** [6602529]
- caryeae**. s. India & Sri Lanka [OR].
- Dacus caryeae* Kapoor 1971[2595]: 479.—India. Karnataka: Mysore, Coorg. HT ♂ INPC. [6602849]
- cheesmanae**. Papua New Guinea, Australia (Torres St.) [AU].
- Apodacus cheesmanae* Perkins 1939[3786]: 27.—Papua New Guinea. Kokodo, 1200 ft. HT ♂ BMNH. [6605892]
- Bactrocera cheesmanae* Drew 1989[1232]: 126.—emend. *cheesmani* Perkins. [6605091]
- Apodacus cheesmani* Perkins 1939[3786]: 27.—incosp. *cheesmanae* Perkins. [6603974]
- cibodasae**. Indonesia (Java) [OR].
- Bactrocera cibodasae* Drew & Hancock 1994[1238]: 15.—Indonesia. Java: Cibodas, 1300-1600 m. HT ♂ BBM. [6605290]
- cinnamea**. Papua New Guinea (Morobe) [AU].
- Bactrocera cinnamea* Drew 1989[1232]: 108.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601001]
- circamusae**. Papua New Guinea (Morobe) [AU].
- Bactrocera circamusae* Drew 1989[1232]: 37.—Papua New Guinea. Morobe: Oomsis Forestry Reserve. HT ♂ QMBA. [6601075]
- citima**. Thailand [OR].
- Dacus citimus* Hardy 1973[1942]: 36.—Thailand. Chiang Mai: Chiang Dao, 450 m. HT ♂ BBM. [6601617]
- cognata**. Philippines (Luzon) [OR].
- Dacus cognatus* Hardy & Adachi 1954[1969]: 162.—Philippines. Luzon, Laguna: Los Banos, Forest School. HT ♀ USNM. [6601869]
- collita**. Philippines (Luzon) [OR].
- Bactrocera collita* Drew & Hancock 1994[1238]: 16.—Philippines. Luzon, Laguna: Mt. Makiling, 600 m. HT ♂ BBM. [6605291]
- commina**. Papua New Guinea (Morobe) [AU].
- Bactrocera commina* Drew 1989[1232]: 38.—Papua New Guinea. Morobe: Bulolo, Upper Stony logging area. HT ♀ QMBA. [6601076]
- confluens**. Bougainville I. [AU].
- Dacus confluens* Drew 1971[1215]: 35.—Papua New Guinea. North Solomons: Bougainville I., Daru Village. HT ♂ QMBA. [6600954]
- congener**. Papua New Guinea (Morobe) [AU].
- Bactrocera congener* Drew 1989[1232]: 127.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601009]
- consectorata**. Papua New Guinea (Morobe), New Britain [AU].
- Bactrocera consectorata* Drew 1989[1232]: 27.—Papua New Guinea. Morobe: Bulolo, Upper Stony logging area. HT ♂ QMBA. [6601069]
- contermina**. Papua New Guinea (Morobe) [AU].
- Bactrocera contermina* Drew 1989[1232]: 39.—Papua New Guinea. Morobe: Bulolo, Stony logging area. HT ♀ QMBA. [6601077]
- contigua**. Papua New Guinea (Morobe) [AU].
- Bactrocera contigua* Drew 1989[1232]: 40.—Papua New Guinea. Morobe: Bulolo, Stony logging area, Robbies Creek. HT ♀ QMBA. [6601078]
- continua**. Philippines [OR].
- Chaetodacus continuus* Bezzi 1919[461]: 424.—Philippines. Panay, Antique: Batbatan I. [11°28'N 121°55'E]. HT ♀ MCSNM. [6600321]
- correcta**. Pakistan, India, Nepal, Sri Lanka, Thailand, s. China [OR].
- Chaetodacus correctus* Bezzi 1916[453]: 107.—India. Bihar: Pusa; Tamil Nadu: Coimbatore; Guindy; & Hagari. ST ♂ ♀ ZSI. [6600264]
- Dacus dutti* Kapoor 1971[2595]: 480.—India. Maharashtra: Poona. HT ♂ INPC. [6602850]
- Strumeta paratuberculatus* Philip 1950[3822]: 31.—Burma. Aingyi. HT ♂ ZSI. **N. Syn.** [6603991]
- Dacus bangaloriensis* Agarwal & Kapoor 1983[42]: 169.—India. Karnataka: Bangalore, B. T. Farm. HT ♂ INPC. **N. Syn.** [6600066]
- Bactrocera zonata*: Bezzi 1913[448]: 94.—misid. see Bezzi 1916: 106. [6600236]
- costalis**. Taiwan [OR].
- Chaetodacus costalis* Shiraki 1933[4432]: 66.—Taiwan. Karenko: Pinan; Kaudin. ST ♂ ♀ NTU. [6604329]
- curreyi**. Indonesia (Irian Jaya), Papua New Guinea (Morobe, E. Sepik, W. Highlands, Central, Gulf) [AU].
- Bactrocera curreyi* Drew 1989[1232]: 53.—Papua New Guinea. Western Highlands: Mt. Hagen, Kuk Agricultural Research Station. HT ♂ QMBA. [6601085]
- curvifer**. Indonesia (Irian Jaya), Papua New Guinea, Bismarck Arch. [AU].
- Dacus curvifer* Walker 1864[4973]: 229.—Indonesia. Irian Jaya: Waigiou [Waigeo I.]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 168 (assumes Walker misstated sex of ST, but also see Drew 1989: 128). [6604662]
- Dacus speculifer* Walker 1865[4974]: 122.—New Guinea. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 182. [6604667]
- curvipennis**. Vanuatu, New Caledonia, Fiji [AU].
- Dacus curvipennis* Froggatt 1909[1618]: 93.—Fiji. Viti Levu: Suva. ST ♂ ♀ NSW? Lectotype designated by Drew 1989: 129 invalid, not from type locality. [6601379]
- dapsiles**. Papua New Guinea (Morobe, E. Highlands, W. Highlands, Simbu) [AU].
- Bactrocera dapsiles* Drew 1989[1232]: 64.—Papua New Guinea. Morobe: Mt. Kaindi, 1800 m. HT ♂ QMBA. [6601092]
- daruensis**. Papua New Guinea (Western), Australia (Torres St.) [AU].
- Bactrocera daruensis* Drew 1989[1232]: 129.—Papua New Guinea. Western: Daru I., Wyborn's property. HT ♂ QMBA. [6601010]

- decumana.** Bougainville I., Solomon Is. (Shortland I.) [AU].
Dacus decumanus Drew 1972[1217]: 205.—Papua New Guinea. North Solomons: Bougainville I., Daru Village, 2-3000 ft. HT ♂ QMBA. [6600993]
- decurtans.** Australia (n. WA, NT, Qld.) [AU].
Daculus decurtans May 1965[3234]: 61.—Australia. Northern Territory: Berrimah. HT ♂ QMBA. [6603417]
- diallagma.** Papua New Guinea (Morobe) [AU].
Bactrocera diallagma Drew 1989[1232]: 66.—Papua New Guinea. Morobe: 69 km. from Lae on Lae-Bulolo road, Lae side of escarpment. HT ♂ QMBA. [6601093]
- diaphana.** Indonesia (Irian Jaya) [AU].
Strumeta diaphana Hering 1953[2220]: 508.—Indonesia. Irian Jaya: Indenburg R. plain, Bernhard Camp, 50 m. HT ♀ RNH. [6602691]
- diospyri.** Australia (NT, Torres St.) [AU].
Bactrocera diospyri Drew 1989[1232]: 130.—Australia. Northern Territory: Cobourg Peninsula, Smith Point. HT ♀ QMBA. [6601011]
- dispar.** Indonesia (Sulawesi) [OR].
Dacus dispar Hardy 1982[1952]: 222.—Indonesia. cent. Sulawesi: Wotu. HT ♂ BBM. [6601716]
- distincta.** Fiji, Western & American Samoa, Tonga [AU].
Dacus distinctus Malloch 1931[3127]: 259.—Western Samoa. Upolu. HT ♂ BMNH. [6603270]
- dorsalis.** India & Sri Lanka to Vietnam & Taiwan; introduced Hawaii, Marianas [OR, AU].
Dacus dorsalis Hendel 1912[2097]: 18.—Taiwan. Koshun. LT ♀ BMNH. Lectotype designated by Drew & Hancock 1994:17. [6601910]
Chaetodacus ferrugineus var. *okinawanus* Shiraki 1933[4432]: 62.—Japan. Ryukyu Is.: Okinawa I., Nago, Katena, Mawashi & Nishibaru; Yayeyama Is., Kumejima, Gushikawa, Ishigaki & Taketomi. ST ♂ ♀ NTU. [6604327]
Musca ferruginea Fabricius 1794[1377]: 342.—India orientalis [e. India]. T A UZMC? Preocc. Scopoli 1763; ST apparently lost (Zimsen 1964: 484). [6601211]
- dorsaloides.** Philippines [OR].
Dacus dorsaloides Hardy & Adachi 1954[1969]: 167.—Philippines. Luzon, Laguna: [Mt.] Makiling. HT ♀ USNM. [6601870]
- dyscrita.** New Britain [AU].
Dacus dyscritus Drew 1971[1215]: 63.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600967]
- ebenea.** New Caledonia [AU].
Dacus ebeneus Drew 1971[1215]: 65.—New Caledonia. Noumea. HT ♂ QMBA. [6600968]
- elegantula.** Philippines (Leyte, Mindanao) [OR].
Dacus elegantulus Hardy 1974[1943]: 32.—Philippines. Mindanao, Kalambuge. HT ♂ UZMH. [6601660]
- endiandrae.** New Guinea, Australia (Qld., NSW) [AU].
Strumeta endiandrae Perkins & May 1949[3788]: 9.—Australia. Queensland: Cairns. LT ♀ QMBA. Lectotype designated by Drew 1989: 68. [6603988]
- enigmatica.** Indonesia (Sulawesi) [OR].
Dacus enigmaticus Hardy 1982[1952]: 224.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601717]
- enochra.** Bougainville I., Solomon Is. [AU].
Dacus enochrus Drew 1972[1217]: 207.—Papua New Guinea. North Solomons: Bougainville I., Daru Village. HT ♂ QMBA. [6600994]
- epicharis.** Bismarck Arch. (Mussau I.), Solomon Is. (Shortland I.) [AU].
Dacus epicharis Hardy 1970[1940]: 119.—Papua New Guinea. New Ireland: Mussau I., Malakata. HT ♂ UZMC. [6601521]
- erubescens.** Papua New Guinea (Central), Australia (Qld.) [AU].
Dacus erubescens Drew & Hancock 1981[1237]: 64.—Australia. Queensland: Cape York Peninsula, Weipa. HT ♂ QMBA. [6601113]
- exspoliata.** Papua New Guinea (Central) [AU].
Strumeta exspoliata Hering 1941[2194]: 54.—Papua New Guinea. Central: Kapakapa. HT ♂ MNM. [6602494]
- facialis.** Tonga; New Caledonia? [AU].
Dacus facialis Coquillett 1909[964]: 12.—Tonga I. LT ♂ USNM. Lectotype designation by inference of holotype by Greene in Perkins 1939: 9 (see Drew 1989: 133). [6600808]
Dacus tongensis Froggatt 1911[1621]: 870.—Tonga. ST ♂ ♀ NSW? [6601392]
Strumeta fascialis Perkins 1939[3786]: 9.—missp. *facialis* Coquillett. [6605727]
- fagraea.** Australia (Qld.) [AU].
Chaetodacus fagraea Tryon 1927[4832]: 188.—Australia. Queensland: Babinda. LT ♂ QMBA. Lectotype designated by Drew 1989: 72. [6604533]
- fergussoniensis.** Papua New Guinea (Milne Bay) [AU].
Bactrocera fergussoniensis Drew 1989[1232]: 56.—Papua New Guinea. Milne Bay: Fergusson I. HT ♂ QMBA. [6601086]
- finitima.** Papua New Guinea (Morobe) [AU].
Bactrocera finitima Drew 1989[1232]: 41.—Papua New Guinea. Morobe: Bulolo, Stony logging area, Robbies Creek. HT ♀ QMBA. [6601079]
- flavipennis.** Indonesia (Sulawesi) [OR].
Dacus flavipennis Hardy 1982[1952]: 226.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601718]
- floresiae.** Indonesia (Sumbawa, Flores) [OR].
Bactrocera floresiae Drew & Hancock 1994[1238]: 22.—Indonesia. Nusa Tenggara: Flores, Borong, 200-400 m. HT ♂ BBM. [6605292]
- frauenfeldi.** Belau & Northern Marianas to New Guinea & Gilbert Is.; introduced Australia (Qld.) [AU].
Dacus frauenfeldi Schiner 1868[4296]: 262.—Solomon Is. Stuart I. LT ♀ NMW. Lectotype designated by Hardy 1968: 138. [6604175]
- froggatti.** Indonesia (Maluku), New Guinea, Bougainville I., Solomon Is. [AU].
Chaetodacus froggatti Bezzi 1919[461]: 413.—Solomon Is. Russell Group, Bainka. LT ♂ ANIC. Lectotype designated by Perkins 1939:16. [6600533]
Dacus zonatus: Froggatt 1911[1621]: 868.—misid. [6601389]
- fuliginus.** Papua New Guinea, Australia (Qld.) [AU].
Dacus fuliginus Drew & Hancock 1981[1237]: 66.—Australia. Queensland: Cape York Peninsula, 4 km. E of Lockerbie. HT ♂ QMBA. [6601114]
- fulvicauda.** Papua New Guinea [AU].
Strumeta fulvicauda Perkins 1939[3786]: 13.—Papua New Guinea. Northern: Mt. Lamington. HT ♀ QMBA. [6603968]
- fulvifemur.** Philippines (Luzon) [OR].
Bactrocera fulvifemur Drew & Hancock 1994[1238]: 23.—Philippines. Luzon, Laguna: Mt. Makiling, 100 m. HT ♂ BBM. [6605293]
- furfurosa.** Papua New Guinea (Morobe) [AU].
Bactrocera furfurosa Drew 1989[1232]: 82.—Papua New Guinea. Morobe: Oomsis Forestry Reserve. HT ♂ QMBA. [6601099]
- furvescens.** Papua New Guinea, Solomon Is. [AU].
Bactrocera furvescens Drew 1989[1232]: 135.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601013]

- furvilineata.** Papua New Guinea (Central, Morobe, W. Highlands) [AU].
Bactrocera furvilineata Drew 1989[1232]: 57.—Papua New Guinea. Morobe: Oomsis Forestry Reserve. HT ♂ QMBA. [6601087]
- fuscitibia.** Malaysia (w. & Sabah), Indonesia (Java, Sulawesi) [OR].
Bactrocera fuscitibia Drew & Hancock 1994[1238]: 24.—Indonesia. Java: Pelabuhan Ratu, 0-100 m. HT ♂ BBM. [6605294]
- gombokensis.** w. Malaysia [OR].
Bactrocera gombokensis Drew & Hancock 1994[1238]: 24.—Malaysia. w. Malaysia, Gombok. HT ♂ BMNH. [6605295]
- halfordiae.** Australia (Qld., NSW) [AU].
Chaetodacus halfordiae Tryon 1927[4832]: 190.—Australia. Queensland: Southport. LT ♀ QMBA. Lectotype designated by Drew 1989: 73. [6604535]
Chaetodacus gurneyi Perkins 1934[3782]: 41.—Australia. New South Wales: Narara; Tooloom; & Acacia Creek; & Queensland: Brisbane. ST ♂ ♀ UQIC. [6603952]
- hispidula.** Australia (Qld.) [AU].
Strumeta hispidula May 1958[3229]: 301.—Australia. Queensland: Atherton. HT ♀ QMBA. [6603406]
- holtmanni.** w. Malaysia, Philippines (Palawan) [OR].
Dacus holtmanni Hardy 1974[1943]: 34.—Philippines. Palawan: Busuanga I., 4 km. N San Nicolas. HT ♀ BBM. [6601661]
- honiarae.** Solomon Is. (Guadalcanal) [AU].
Bactrocera honiarae Drew 1989[1232]: 137.—Solomon Is. Guadalcanal I.: Honiara. HT ♂ BMNH. [6601014]
- hsui.** Taiwan [OR].
Dacus hsui Tseng, Chen & Chu 1992[4835]: 34.—Taiwan. Yilan: Taipingshan. HT ♂ NTU. [6605351]
- humilis.** Australia (Qld.) [AU].
Dacus humilis Drew & Hancock 1981[1237]: 68.—Australia. Queensland: Cape York Peninsula, 4 km. E of Lockerbie. HT ♂ QMBA. [6601115]
- hyalina.** Japan (Honshu, Kyushu, Ryukyu Is.), China (Guangdong) [PA, OR].
Chaetodacus hyalinus Shiraki 1933[4432]: 62.—Japan. Kyushu: Kagoshima. HT ♀ NTU. [6604328]
Strumeta asatoi Shiraki 1968[4435]: 26.—Japan. Ryukyu Is. HT ♀ USNM. [6604340]
- impunctata.** Indonesia (Java) [OR].
Dacus impunctatus Meijere 1914[3319]: 188.—Indonesia. Java: Semarang. HT ♂ ZMAN. Type data (Hardy 1983: 14). [6604921]
- incisa.** India, Burma, Thailand [OR].
Dacus incisus Walker 1861[4968]: 323.—Burmah [Burma]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 175. [6604642]
Dacus poonensis Kapoor 1971[2595]: 478.—India. Maharashtra: Poona. HT ♂ INPC. N. Syn. [6602848]
- inconstans.** Papua New Guinea (Morobe, Central) [AU].
Bactrocera inconstans Drew 1989[1232]: 28.—Papua New Guinea. Morobe: Wau Ecology Institute, 1400 m. HT ♂ QMBA. [6601070]
- indecora.** New Britain, New Ireland [AU].
Dacus indecorus Drew 1971[1215]: 37.—Papua New Guinea. New Ireland: Lihir I., Samo Village. HT ♂ QMBA. [6600955]
- indonesiae.** Indonesia (Java) [OR].
Bactrocera indonesiae Drew & Hancock 1994[1238]: 26.—Indonesia. Java: Bogor, Kebun Raya, 300 m. HT ♂ BBM. [6605296]
- infulata.** Indonesia (Sulawesi) [OR].
Bactrocera infulata Drew & Hancock 1994[1238]: 27.—Indonesia. Sulawesi: 5 km. W of Malino, Bententingi, 850-1000 m. HT ♂ BBM. [6605297]
- involuta.** Indonesia (Sulawesi) [OR].
Dacus involutus Hardy 1982[1952]: 229.—Indonesia. s. Sulawesi: Bantimurung via Maros, ca. 50 m. HT ♂ MZB. [6601719]
- irvingiae.** Thailand [OR].
Bactrocera irvingiae Drew & Hancock 1994[1238]: 29.—Thailand. Prachin Buri: Khao Yai. HT ♀ BMNH. [6605298]
- ismayi.** New Ireland [AU].
Bactrocera ismayi Drew 1989[1232]: 138.—Papua New Guinea. New Ireland: Lelet Plateau. HT ♂ QMBA. [6601015]
- kanchanaburi.** Thailand [OR].
Bactrocera kanchanaburi Drew & Hancock 1994[1238]: 30.—Thailand. Kanchanaburi: Saiyoke Yai, Phutonnam. HT ♂ BMNH. [6605299]
- kandiensis.** Sri Lanka [OR].
Bactrocera kandiensis Drew & Hancock 1994[1238]: 31.—Sri Lanka. Central: Peradeniya [7°15'N 80°36'E]. HT ♀ BMNH. [6605300]
Strumeta pedestris: Hering 1956[2226]: 63.—misid. See Drew & Hancock 1994: 31. [6605827]
- kelaena.** Papua New Guinea (Central) [AU].
Bactrocera kelaena Drew 1989[1232]: 95.—Papua New Guinea. Central: Moresby-Bereina road, 88 km. from Port Moresby. HT ♂ QMBA. [6601106]
- kinabalu.** Malaysia (Sabah) [OR].
Bactrocera kinabalu Drew & Hancock 1994[1238]: 33.—Malaysia. Sabah: Mt. Kinabalu. HT ♀ BMNH. [6605301]
- kirki.** American & Western Samoa, Tonga, Niue, Society & Austral Is. [AU].
Dacus kirki Froggatt 1911[1621]: 871.—bred from Island fruit imported into New Zealand. LT ♀ NSW. Lectotype designated by Drew 1989: 140. [6601393]
- kraussi.** Australia (Qld.) [AU].
Dacus kraussi Hardy 1951[1922]: 156.—Australia. Queensland: Deeral. HT ♂ USNM. [6601487]
- lampabilis.** New Britain, Lihir I. [AU].
Dacus lampabilis Drew 1971[1215]: 67.—Papua New Guinea. New Britain: Salelubu. HT ♂ QMBA. [6600969]
- lata.** w. Malaysia, Singapore [OR].
Strumeta nigrotibialis var. *lata* Perkins 1938[3784]: 130.—Malaysia. Kedah: Kedah Peak; & Singapore. ST ♂ ♀ BMNH. ST transferred from SMK. [6603957]
- lateritaenia.** Malaysia (w. & Sabah) [OR].
Bactrocera lateritaenia Drew & Hancock 1994[1238]: 34.—Malaysia. Pahang: Cameron Highlands, Tanah Rata/Ringlet. HT ♂ BMNH. [6605302]
- laticauda.** Australia (Qld.) [AU].
Strumeta fuscatus Perkins & May 1949[3788]: 5.—Australia. Queensland: Cairns. LT ♀ QMBA. Preocc. Wiedemann 1819; Lectotype designated by Drew 1989: 141. [6603986]
- laticaudus.** Australia (n. Qld.) [AU].
Dacus laticaudus Hardy 1950[1921]: 87.—Australia. Queensland: near Deeral. HT ♂ USNM. [6601482]
- laticosta.** Papua New Guinea (Central, Morobe), New Britain [AU].
Bactrocera laticosta Drew 1989[1232]: 30.—Papua New Guinea. Central: Hombrom Bluff [9°23'S 147°20'E]. HT ♂ QMBA. [6601071]
- latifrons.** Pakistan, India, Sri Lanka, s. China, Taiwan, Thailand, Laos, w. Malaysia, Singapore; introduced Hawaii [OR, AU].
Chaetodacus latifrons Hendel 1915[2105]: 425.—Taiwan. Tainan. LT ♂ BMNH. Lectotype designated by White & Liquido

- 1995: 251. Suspension of I.C.Z.N. rules required to validate usage. [6602073]
- Dacus parvulus* Hendel 1912[2098]: 21.—Taiwan. Kanshirei. ST ♂ ♀ DEI, NMW. In interest of stability, authors reject this valid prior name; see White & Liquido (1995); type data (Hardy 1968: 113). [6601914]
- Chaetodacus antennalis* Shiraki 1933[4432]: 56.—Taiwan. Tainan. ST ♂ ♀ NTU. [6604326]
- latilineata.** Papua New Guinea (Morobe, Western Highlands) [AU].
Bactrocera latilineata Drew 1989[1232]: 79.—Papua New Guinea. Western Highlands: Mt. Hagen. HT ♂ QMBA. [6601098]
- latilineola.** w. Malaysia [OR].
Bactrocera latilineola Drew & Hancock 1994[1238]: 35.—Malaysia. Pahang: Cameron Highlands. HT ♂ BMNH. [6605303]
- latissima.** Papua New Guinea (Morobe, Western Highlands) [AU].
Bactrocera latissima Drew 1989[1232]: 47.—Papua New Guinea. Morobe: Wau Ecology Institute, 1230 m. HT ♂ QMBA. [6601082]
- limbifera.** India (Andaman Is.), Philippines, Indonesia (Sumatra, Java, Lombok) [OR].
Chaetodacus ferrugineus var. *limbiferus* Bezzi 1919[461]: 424.—Philippines. Panay, Antique: Batbatan I. [11°28'N 121°55'E]. LT ♂ MCSNM. Lectotype designated by Hardy 1969: 479. [6600322]
- lineata.** Papua New Guinea [AU].
Strumeta lineata Perkins 1939[3786]: 16.—Papua New Guinea. Kokoda, 1200 ft. LT ♀ BMNH. Lectotype designated by Drew 1989: 142. [6603969]
- lombokensis.** Indonesia (Lombok) [OR].
Bactrocera lombokensis Drew & Hancock 1994[1238]: 36.—Indonesia. Nusa Tenggara: Lombok, Santong, 1200-1300 m. HT ♂ BBM. [6605304]
- longicornis.** New Ireland, Lihir I., Bougainville I., Solomon Is. [AU].
Bactrocera longicornis Macquart 1835[3073]: 453.—Solomon Is. Gagi I., Fort Praslin. LT ♂ MNHNP. Attributed to Guerin-Meneville; Lectotype designation by inference of holotype by Hardy 1976: 246. [6603191]
- Dacus denigratus* Drew 1971[1215]: 61.—Papua New Guinea. New Ireland: Namatanai. HT ♂ QMBA. [6600966]
- Bactrocera longicornis* Guerin-Meneville 1838[1828]: 301.—Australia. Port-Jakson [New South Wales: Sydney]. T A MNHNP? Preocc. Macquart 1835; status needs to be checked, probably not synonymous. [6601440]
- luteola.** French Polynesia (Tuamotu Arch., Society Is.) [AU].
Dacus luteola Malloch 1931[3127]: 262.—French Polynesia. Society Is.: Bora Bora. HT ♂ BMNH. [6603272]
- Dacus incertus* Malloch 1938[3133]: 113.—French Polynesia. Tuamotu Arch.: Hao I., Boring Bay. HT ♂ BBM. [6603303]
- luzonae.** Philippines [OR].
Dacus luzonae Hardy & Adachi 1954[1969]: 174.—Philippines. Luzon. HT ♂ USNM. [6601871]
- makilingensis.** Philippines (Luzon) [OR].
Bactrocera makilingensis Drew & Hancock 1994[1238]: 36.—Philippines. Luzon, Laguna: Mt. Makiling, 500 m. HT ♂ BBM. [6605305]
- malaysiensis.** w. Malaysia [OR].
Bactrocera malaysiensis Drew & Hancock 1994[1238]: 37.—Malaysia. w. Malaysia, transect North trap 8 (TN8). HT ♂ BMNH. [6605306]
- manskii.** Australia (Qld.) [AU].
Strumeta manskii Perkins & May 1949[3788]: 3.—Australia. Queensland: Cairns. LT ♀ QMBA. Lectotype designated by Drew 1989: 104. [6603985]
- Dacus recurrens*: Drew 1974[1219]: 78.—misid. Specimens from Queensland; see Drew 1989: 103. [6605093]
- mayi.** Australia (Qld.) [AU].
Dacus mayi Hardy 1951[1922]: 161.—n. n. *bilineata* Perkins & May 1949. [6601488]
- Strumeta bilineata* Perkins & May 1949[3788]: 7.—Australia. Queensland: Cairns. LT ♀ QMBA. Preocc. Walker 1860; Lectotype designated by Drew 1989: 88. [6603987]
- megaspilus.** Indonesia (Sulawesi) [OR].
Dacus megaspilus Hardy 1982[1952]: 232.—Indonesia. cent. Sulawesi: Wotu. HT ♂ MZB. [6601721]
- melanogaster.** Bougainville I., Solomon Is. [AU].
Bactrocera melanogaster Drew 1989[1232]: 143.—Solomon Is. Guadalcanal I.: Lunga. HT ♂ QMBA. [6601016]
- melanotus.** Cook Is. [AU].
Dacus melanotus Coquillett 1909[964]: 13.—Cook Is. LT ♂ USNM. Lectotype designated by Drew 1989: 144. [6600810]
- Dacus rarotongae* Froggatt 1911[1621]: 872.—Cook Is. Rarotonga. ST ♂ ♀ NSW? [6601394]
- melas.** Australia (Qld.) [AU].
Strumeta melas Perkins & May 1949[3788]: 12.—Australia. Queensland: Gayndah. LT ♀ QMBA. Lectotype designated by Drew 1989: 114. [6603981]
- melastomatos.** India (Andaman Is.), s. Thailand, w. Malaysia, Singapore [OR].
Bactrocera melastomatos Drew & Hancock 1994[1238]: 38.—Malaysia. w. Malaysia, Slim R. HT ♀ BMNH. [6605307]
- mendosa.** Australia (Qld., NT) [AU].
Strumeta mendosa May 1958[3229]: 303.—Australia. Queensland: Atherton. HT ♀ QMBA. [6603407]
- merapiensis.** Indonesia (Sumatra, Java) [OR].
Bactrocera merapiensis Drew & Hancock 1994[1238]: 40.—Indonesia. Java: Kaliurang, Mt. Merapi, <600 m. HT ♂ BBM. [6605308]
- mimulus.** Papua New Guinea (Morobe) [AU].
Bactrocera mimulus Drew 1989[1232]: 68.—Papua New Guinea. Morobe: Wau Ecology Institute. HT ♂ QMBA. [6601094]
- miniscula.** Indonesia (Timor) [OR].
Bactrocera miniscula Drew & Hancock 1994[1238]: 41.—Indonesia. Timor: 80 km. SE Kupang, Besi Pae. HT ♂ BBM. [6605309]
- moluccensis.** Indonesia (Java, Maluku), New Guinea, Bismarck Arch., Solomon Is. [OR, AU].
Strumeta moluccensis Perkins 1939[3786]: 17.—Indonesia. Maluku: Buru I. HT ♀ BMNH. [6603970]
- montyana.** Mauritius, Reunion [AF].
Mauritidacus montyanus Munro 1984[3524]: 25.—Mauritius. Rosehill. HT ♂ SANC. [6603886]
- morobiensis.** Papua New Guinea (Morobe, East Sepik) [AU].
Bactrocera morobiensis Drew 1989[1232]: 58.—Papua New Guinea. Morobe: Lae-Bulolo road, Gabensis. HT ♂ QMBA. [6601088]
- morula.** Solomon Is. (Guadalcanal I.) [AU].
Bactrocera morula Drew 1989[1232]: 146.—Solomon Is. Guadalcanal I.: Honiara. HT ♂ QMBA. [6601017]
- mucronis.** New Caledonia [AU].
Dacus mucronis Drew 1971[1215]: 70.—New Caledonia. Noumea. HT ♂ QMBA. [6600970]
- muii.** Indonesia (Kalimantan) [OR].
Dacus muii Hardy & Adachi 1954[1969]: 177.—Indonesia. Kalimantan: Pontianak. HT ♀ BBM. [6601872]
- mulyonoi.** Indonesia (Lombok) [OR].
Dacus mulyonoi Hardy 1983[1956]: 15.—Indonesia. Lombok: SE slope of Mt. Rindjani, 3 km. N Pesugulan, 400 m. HT ♂ MZB. [6601723]

- murrayi**. Papua New Guinea, Australia (Qld.), Solomon Is., Vanuatu [AU].
Daculus murrayi Perkins 1939[3786]: 25.—Australia. Queensland: Torres Strait, Murray I. LT ♂ SAMA. Lectotype designated by Drew 1974. [6603973]
- musae**. New Guinea, Australia (Qld.), Bismarck Arch., Solomon Is. [AU].
Chaetodacus musae Tryon 1927[4832]: 197.—Australia. Queensland: Meringa. LT ♀ QMBA. Lectotype designated by Drew 1989: 93. [6604538]
Chaetodacus musae var. *dorsopicta* Tryon 1927[4832]: 198.—not stated [probably Australia. Queensland]. T A QMBA. [6604539]
Dacus nigrofasciatus Tryon 1927[4832]: 197.—*Nomen nudum*. Fiji. T A NSWA? Published in synonymy, not subsequently validated by usage. Attributed to Froggatt. [6604540]
Chaetodacus tryoni var. *musa* Tryon 1927[4832]: 187.—*Nomen nudum*. Australia. Geraldton; Gympie; Buderim Mountain; & Stanthorpe Districts. ST A QMBA. Published without diagnosis or indication. See Drew (1989: 93). [6604531]
Chaetodacus musae var. *dorso-picta* Tryon 1927[4832]: 198.—in-cosp. *dorsopicta* Tryon. [6605629]
- mutabilis**. Australia (Qld.) [AU].
Strumeta mutabilis May 1952[3223]: 6.—Australia. Queensland: Toowoomba. HT ♂ QMBA. Type data (Drew 1989: 147). [6603392]
- neocheesmanae**. Papua New Guinea (Western Highlands, Central) [AU].
Bactrocera neocheesmanae Drew 1989[1232]: 147.—Papua New Guinea. Western Highlands: Mt. Hagen. HT ♂ QMBA. [6601018]
- neocognata**. Malaysia (Sabah), Indonesia (Kalimantan, Java, Lombok) [OR].
Bactrocera neocognata Drew & Hancock 1994[1238]: 43.—Indonesia. Nusa Tenggara: Lombok, Suranadi, Monkey Forest, 200 m. HT ♂ BBM. [6605310]
- neohumeralis**. Papua New Guinea, Australia (Qld., NSW) [AU].
Dacus tryoni var. *neohumeralis* Hardy 1951[1922]: 169.—n. n. *humeralis* Perkins 1934. [6601489]
Chaetodacus humeralis Perkins 1934[3782]: 42.—Australia. Queensland: Cairns. LT ♀ QMBA. Preocc. Bezzi 1915; Lectotype designated by Drew 1989: 115. [6603953]
Chaetodacus tryoni var. *sarcocephali*: Tryon 1927[4832]: 188.—misid. In part, see Drew 1989: 114. [6605100]
- neonigrita**. New Britain, New Ireland, Bougainville I., Solomon Is. [AU].
Bactrocera neonigrita Drew 1989[1232]: 148.—n. n. *nigritus* Drew 1971. [6601019]
Bactrocera neonigritus Hardy 1989[1966]: 505.—n. n. *nigritus* Drew 1971. Preocc. Drew 1989. [6601864]
Dacus nigritus Drew 1971[1215]: 75.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. Preocc. Hardy 1955. [6600972]
- neopropinqua**. Philippines (Antique) [OR].
Bactrocera neopropinqua Drew & Hancock 1994[1238]: 44.—Philippines. Antique: Batbatan I. [11°28'N 121°55'E]. HT ♀ MCSNM. [6605311]
- nesiotes**. Madagascar [AF].
Aglaodacus nesiotes Munro 1984[3524]: 19.—Madagascar. Toamasina: Moramanga dist., Ankasoka, 1130 m. HT ♀ ISTM. HT currently in SANC. [6603883]
- nigella**. Papua New Guinea (Morobe) [AU].
Strumeta nigella Drew 1968[1213]: 78.—Papua New Guinea. Morobe: Wau. HT ♂ QMBA. [6600949]
- nigrescens**. New Britain, New Ireland, Lihir I., Bougainville I. [AU].
Asiadacus nigrescens Drew 1968[1212]: 23.—Papua New Guinea. New Britain. HT ♂ QMBA. [6600947]
- nigrescentis**. Lihir I., New Britain, Bougainville I. [AU].
Dacus nigrescentis Drew 1971[1215]: 72.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600971]
- nigrotibialis**. India, Sri Lanka, Thailand, Laos, w. Malaysia [OR].
Strumeta nigrotibialis Perkins 1938[3784]: 129.—Malaysia. Perak: Larut Hills; Selangor: Bukit kutu; Kedah: Kedah Peak; & Malay Pen., W coast, Pulan Lighthouse. ST A SMK. ST possibly lost, not in BMNH. [6603956]
- nigrovittata**. Papua New Guinea (Morobe) [AU].
Bactrocera nigrovittata Drew 1989[1232]: 83.—Papua New Guinea. Morobe: Bulolo. HT ♂ QMBA. [6601100]
- notatagena**. Australia (Qld.) [AU].
Strumeta notatagena May 1953[3224]: 337.—Australia. Queensland: Cairns, Kamerunga Experiment Station. HT ♀ QMBA. [6603395]
- obfuscata**. Papua New Guinea (Morobe) [AU].
Bactrocera obfuscata Drew 1989[1232]: 84.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601101]
- oblineata**. Papua New Guinea (Central, Milne Bay, Morobe) [AU].
Bactrocera oblineata Drew 1989[1232]: 59.—Papua New Guinea. Morobe: Oomsis Forestry Reserve. HT ♂ QMBA. [6601089]
- obliqua**. New Britain, Admiralty Is., Bougainville I. [AU].
Dacus obliquus Malloch 1939[3135]: 238.—Papua New Guinea. Bismarck Arch., Admiralty Is. HT ♀ BMNH. [6603313]
- obscura**. Western & American Samoa, Niue, Tonga [AU].
Dacus obscurus Malloch 1931[3127]: 264.—Western Samoa. Upolu: Apia. HT ♂ BMNH. [6603273]
- obscurata**. Indonesia (Java) [OR].
Dacus ferrugineus var. *obscurata* Meijere 1911[3314]: 373.—Indonesia. Java: nr. Batavia [Jakarta], Enkhuizen I., Pulu Njamuk Ketjil [Pulu Nyamuk Kecil]. HT ♀ ZMAN. Unrecognized, HT apparently lost (Hardy 1983: 17). [6604904]
- occipitalis**. Philippines, Borneo [OR].
Chaetodacus ferrugineus var. *occipitalis* Bezzi 1919[461]: 423.—Philippines. Luzon, Laguna: Los Banos; Mt. Maquiling [Mt. Makiling]; Mt. Banahao; Mindanao, Davao. ST ♂ ♀ Baker. Lectotype designated by Hardy 1969:479 invalid, McGregor specimens not ST; ST currently in MCSNM. [6600320]
- ochromarginis**. New Britain [AU].
Dacus ochromarginis Drew 1971[1215]: 40.—Papua New Guinea. New Britain: near Keravat, Vudal. HT ♂ QMBA. [6600956]
- ochrosiae**. Northern Marianas [AU].
Dacus ochrosiae Malloch 1942[3143]: 201.—Guam. Fadian. HT ♂ BBM? [6603371]
- opiliae**. Australia (WA, NT) [AU].
Dacus opiliae Drew & Hardy 1981[1243]: 131.—Australia. Northern Territory: Darwin, ex. CSIRO laboratory culture. HT ♀ QMBA. [6601121]
- osbeckiae**. Thailand, Vietnam [OR].
Bactrocera osbeckiae Drew & Hancock 1994[1238]: 46.—Thailand. Nakhonratsima [Nakhon Ratchasima]. HT ♀ BMNH. [6605312]
- pallida**. Australia (NT, Qld.) [AU].
Strumeta pallidus Perkins & May 1949[3788]: 10.—Australia. Queensland: Cairns. LT ♀ QMBA. Lectotype designated by Drew 1989: 89. [6603980]
- papayae**. s. Thailand SE to Indonesia (Sulawesi & Flores I.), Christmas I.; introduced Australia (Qld.) [OR].
Bactrocera papayae Drew & Hancock 1994[1238]: 48.—Malaysia. Perak: Kuala Kangsar. HT ♀ BMNH. [6605313]
Bactrocera conformis Doleschall 1858[1203]: 122.—Indonesia. Maluku: Amboina [Ambon I.]. T A ZMHU. Preocc. Walker 1859; possibly also ST in NMW (Bezzi 1913: 69). [6600940]

- parafrauenfeldi**. Australia (NT) [AU].
Bactrocera parafrauenfeldi Drew 1989[1232]: 77.—Australia. Northern Territory: Cobourg Peninsula, Smith Point. HT ♂ QMBA. [6601096]
- paramusae**. Papua New Guinea (Morobe, Central, Northern, Western & W. Highlands) [AU].
Bactrocera paramusae Drew 1989[1232]: 48.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601083]
- paratappana**. Taiwan [OR].
Dacus paratappanus Tseng, Chen & Chu 1992[4835]: 38.—Taiwan. Kaohsiung: Paulei. HT ♂ BCIQT. [6605352]
- passiflorae**. Fiji, Tonga, Niue [AU].
Dacus passiflorae Froggatt 1911[1621]: 870.—Fiji. LT ♂ NSW. Lectotype designated by Drew 1989: 151. [6601391]
- pectoralis**. Indonesia (Java, Maluku) [OR, AU].
Dacus pectoralis Walker 1859[4964]: 114.—Indonesia. Maluku: Aru Is. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 179. [6604614]
- pedestris**. Philippines [OR].
Chaetodacus ferrugineus var. *pedestris* Bezzi 1914[450]: 322.—Philippines. Luzon, Laguna: Mt. Makiling. LT ♀ Baker. Lectotype designated by Drew & Hancock 1994: 50, currently in MCSNM; Lectotype designated by Hardy 1969: 41 invalid. [6600244]
- penecognata**. Indonesia (Lombok, Sumbawa) [OR].
Bactrocera penecognata Drew & Hancock 1994[1238]: 51.—Indonesia. Nusa Tenggara: Lombok, Sasaot, 400-550 m. HT ♂ BBM. [6605314]
- peninsularis**. Papua New Guinea (Western), Australia (Qld.) [AU].
Dacus peninsularis Drew & Hancock 1981[1237]: 70.—Australia. Queensland: 25 km. NE of Bamaga, Lockerbie Scrub. HT ♂ QMBA. [6601116]
- pepisalae**. Bougainville I., Solomon Is. [AU].
Dacus pepisalae Froggatt 1911[1621]: 869.—Solomon Is. Russell Group. HT ♂ NSW? [6601390]
- perfusca**. French Polynesia (Marquesas Is.) [AU].
Chaetodacus perfuscus Aubertin 1929[237]: 173.—French Polynesia. Marquesas Is.: Hiva Oa. HT ♂ BMNH. [6600089]
- perkinsi**. Australia (Qld.) [AU].
Dacus perkinsi Drew & Hancock 1981[1237]: 72.—Australia. Queensland: Cape York Peninsula, 3 km. E of Lockerbie. HT ♂ QMBA. [6601117]
- pernigra**. Japan (Honshu, Shikoku, Kyushu) [PA].
Bactrocera pernigra Ito 1983[2415]: 23.—Japan. Kyushu: Hyuga, Aosima, Miyazaki. HT ♂ UOPJ. [6602781]
- phaea**. New Britain, Lihir I. [AU].
Dacus phaeus Drew 1971[1215]: 77.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600973]
- phaleriae**. Australia (Qld.) [AU].
Strumeta phaleriae May 1956[3227]: 158.—Australia. Queensland: Port Douglas. HT ♂ QMBA. [6603401]
- philippinensis**. Philippines (Luzon, Panay, Negros, Cebu, Mindanao) [OR].
Bactrocera philippinensis Drew & Hancock 1994[1238]: 52.—Philippines. Cebu. HT ♀ BBM. [6605315]
- picea**. Bougainville I., Solomon Is. [AU].
Dacus piceus Drew 1972[1217]: 208.—Papua New Guinea. North Solomons: Bougainville I., Buin. HT ♂ QMBA. [6600995]
- pisinna**. Papua New Guinea (Morobe) [AU].
Bactrocera pisinna Drew 1989[1232]: 155.—Papua New Guinea. Morobe: Mt. Kaindi, 1400 m. HT ♂ QMBA. [6601021]
- popondettiensis**. Papua New Guinea (Northern) [AU].
Bactrocera popondettiensis Drew 1989[1232]: 85.—Papua New Guinea. Northern: Popondetta. HT ♂ QMBA. [6601102]
- prolixa**. Papua New Guinea (Western) [AU].
Bactrocera prolixa Drew 1989[1232]: 93.—Papua New Guinea. Western: Nomad. HT ♂ QMBA. [6601104]
- propedistincta**. Papua New Guinea (Morobe) [AU].
Bactrocera propedistincta Drew 1989[1232]: 60.—Papua New Guinea. Morobe: near Lae, Bubia. HT ♂ QMBA. [6601090]
- propinqua**. Cambodia, Malaysia (w. & Sabah), Singapore [OR].
Dacus propinquus Hardy & Adachi 1954[1969]: 182.—Malaysia. Sabah: Tagap, 2000 ft. HT ♀ USNM. Type loc. spelled “Tajap” by Hardy 1977: 52. [6601873]
- pseudodistincta**. New Guinea, New Britain, New Ireland, Australia (Torres St.) [AU].
Dacus pseudodistinctus Drew 1971[1215]: 79.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600974]
- psidii**. New Caledonia, Tonga, Western Samoa [AU].
Tephritis psidii Froggatt 1899[1617]: 500.—New Caledonia. Noumea. ST ♂ ♀ NSW? [6601375]
Dacus ornatissimus Froggatt 1909[1618]: 93.—New Caledonia. ST A NSW? Lectotype designated by Drew 1989: 157 invalid, ex. guava, but ST bred from mandarins. [6601380]
Dacus virgatus Coquillett 1909[964]: 13.—Tonga I. HT ♀ USNM. [6600809]
- pulchra**. Australia (Qld.) [AU].
Bactrocera pulcher Tryon 1927[4832]: 206.—Australia. Queensland: Glass House Mt. HT ♂ QMBA. Type data (Drew 1989: 80). [6604543]
- pusilla**. Indonesia (Java) [OR].
Dacus pusillus Hardy 1983[1956]: 18.—Indonesia. w. Java: ca. 120 km. SE Bogor, Lengkong Forest, 600 m. HT ♂ MZB. [6601724]
- pyrifoliae**. Thailand [OR].
Bactrocera pyrifoliae Drew & Hancock 1994[1238]: 55.—Thailand. Chiang Rai: Wawi. HT ♀ BMNH. [6605316]
- quadrata**. Papua New Guinea, New Britain, Australia (Qld.) [AU].
Strumeta quadrata May 1963[3233]: 530.—Australia. Queensland: Atherton. HT ♂ QMBA. [6603415]
- quadrisetosa**. Vanuatu [AU].
Chaetodacus quadrisetosus Bezzi 1928[478]: 102.—Vanuatu. Santo [Esperitu Santo]. HT ♂ BMNH. [6600534]
- quasipropinqua**. Philippines (Luzon) [OR].
Bactrocera quasipropinqua Drew & Hancock 1994[1238]: 56.—Philippines. Luzon, Laguna: Mt. Makiling. HT ♀ BBM. [6605317]
- quasisilvicola**. Papua New Guinea (Central) [AU].
Bactrocera quasisilvicola Drew 1989[1232]: 109.—Papua New Guinea. Central: Rigo road, 32 km. from Port Moresby. HT ♂ QMBA. [6601002]
- raiensis**. Thailand [OR].
Bactrocera raiensis Drew & Hancock 1994[1238]: 57.—Thailand. Chiang Rai: Phayoa, Doi Luong. HT ♀ BMNH. [6605318]
- reclinata**. Bougainville I. [AU].
Bactrocera reclinata Drew 1989[1232]: 157.—Papua New Guinea. North Solomons: Bougainville I., Daru Village. HT ♂ QMBA. [6601022]
- recurrens**. New Guinea, Australia (Qld.) [AU].
Strumeta recurrens Hering 1941[2193]: 47.—Papua New Guinea. Madang: Friedrich-Wilhelms-Hafen [Madang, 5°13'S 145°48'E]. HT ♂ MNM. [6602491]
- redunda**. Australia (Torres St.), Bougainville I., Solomon Is., Vanuatu [AU].
Dacus redundus Drew 1971[1215]: 82.—Vanuatu. Efate I.: Vila. HT ♂ QMBA. [6600975]

- repanda.** Papua New Guinea (Western, East Sepik) [AU].
Bactrocera repanda Drew 1989[1232]: 33.—Papua New Guinea. Western: 4 mi E. of Morehead. HT ♂ QMBA. [6601072]
- resima.** Papua New Guinea (Sepik), Australia (Torres St.) [AU].
Dacus resimus Drew 1971[1215]: 85.—Papua New Guinea. Sepik: Ambunti. HT ♂ QMBA. [6600976]
- retrorsa.** Papua New Guinea (Morobe, Northern) [AU].
Bactrocera retrorsa Drew 1989[1232]: 158.—Papua New Guinea. Morobe: Bulolo, Upper Stony logging area. HT ♂ QMBA. [6601023]
- rhabdota.** Papua New Guinea (Central, Morobe, W. Highlands, E. Sepik) [AU].
Bactrocera rhabdota Drew 1989[1232]: 61.—Papua New Guinea. Central: Kokoda road, near Kokoda. HT ♂ QMBA. [6601091]
- robertsi.** Papua New Guinea (Morobe, Western Highlands) [AU].
Bactrocera robertsi Drew 1989[1232]: 42.—Papua New Guinea. Morobe: Wau Ecology Institute, 1400 m. HT ♂ QMBA. [6601080]
- robiginosa.** Australia (Qld.) [AU].
Strumeta robiginosa May 1958[3229]: 305.—Australia. Queensland: Cairns district, Stoney Creek. HT ♀ QMBA. [6603408]
- romigae.** Australia (Qld.) [AU].
Dacus romigae Drew & Hancock 1981[1237]: 75.—Australia. Queensland: Iron Range, Gordon's Mine area. HT ♂ QMBA. [6601118]
- rubigina.** China (Hainan, Guangxi) [OR].
Dacus rubiginus Wang & Zhao 1989[5001]: 211.—China. Hainan (20°N, 110°24'E). HT ♂ IZAS. [6604691]
- rufescens.** Australia (Qld.) [AU].
Strumeta rufescens May 1967[3235]: 81.—Australia. Queensland: Kuranda. HT ♂ QMBA. [6603420]
- rufofuscula.** Australia (Qld.) [AU].
Dacus rufofuscus Drew & Hancock 1981[1237]: 77.—Australia. Queensland: 15 km. W of Captain Billy Creek. HT ♂ QMBA. [6601119]
- rufula.** Indonesia (Sulawesi) [OR].
Dacus limbifer ssp. *rufulus* Hardy 1982[1952]: 231.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 650 m. HT ♂ MZB. [6601720]
- russeola.** Australia (Qld.) [AU].
Dacus russeolus Drew & Hancock 1981[1237]: 80.—Australia. Queensland: near Mt. Spec, Paluma. HT ♂ QMBA. [6601120]
- rutila.** Indonesia (Irian Jaya), Papua New Guinea [AU].
Strumeta rutila Hering 1941[2193]: 45.—Papua New Guinea. West Sepik: Berlinhafen [Aitape], Lemien [Lemieng, 3°12'S 142°29'E ?]. HT ♂ MNM. [6602489]
- samoae.** Western Samoa [AU].
Bactrocera samoae Drew 1989[1232]: 161.—Western Samoa. Utumapu. HT ♀ BMNH. [6601024]
- scutellaria.** India (Karnataka) [OR].
Chaetodacus scutellarius Bezzi 1916[453]: 110.—India. s. Karnataka: Goorghalli Estate, 800 ft. HT ♀ BMNH. [6600265]
- seguyi.** New Guinea, New Britain [AU].
Strumeta seguyi Hering 1939[2182]: 165.—Indonesia. Irian Jaya: Bay of Humboldt & Dorey. HT ♀ MNHNP. [6602398]
Dacus peculiaris Malloch 1939[3135]: 235.—Papua New Guinea. New Britain: Rabaul. HT ♂ BMNH. [6603311]
Strumeta séguyi Hering 1939[2182]: 165.—incosp. *seguyi* Hering. Automatic correction under Art. 32(d). [6605718]
- sembaliensis.** Indonesia (Lombok, Sumbawa) [OR].
Bactrocera sembaliensis Drew & Hancock 1994[1238]: 58.—Indonesia. Nusa Tenggara: Lombok, Sembalia & Belanting, 10-50 m. HT ♂ BBM. [6605319]
- semifemoralis.** Taiwan [OR].
Dacus semifemoralis Tseng, Chen & Chu 1992[4835]: 46.—Taiwan. Kaohsiung: Kaohsiung. HT ♂ BCIQT. [6605353]
- setinervis.** Pitcairn Is. [AU].
Dacus setinervis Malloch 1938[3133]: 112.—Pitcairn Is. Henderson I., NW side, 100 ft. HT ♂ BBM. [6603301]
- silvatica.** Indonesia (Sumatra) [OR].
Dacus silvaticus Hardy 1983[1956]: 20.—Indonesia. n. Sumatra: 12 km. NW Bohorok, 200 m. HT ♂ MZB. [6601725]
- silvicola.** Australia (Qld.) [AU].
Strumeta silvicola May 1962[3231]: 68.—Australia. Queensland: Ringrose Nat. Park & Rt. 191 Wongabel, Atherton Tableland. HT ♂ QMBA. [6603411]
- simulata.** Bougainville I., Solomon Is., Vanuatu [AU].
Dacus simulatus Malloch 1939[3135]: 241.—Solomon Is. Nggela Is., Mali Ali Valley. HT ♂ BMNH. [6603316]
- strigata.** Australia (Qld., Vic.) [AU].
Chaetodacus strigatus Perkins 1934[3782]: 43.—Australia. Queensland: Stanthorpe. ST ♂ ♀ UQIC. ST apparently lost (Drew 1989: 162). [6603954]
- sulawesiae.** Indonesia (Sulawesi) [OR].
Bactrocera sulawesiae Drew & Hancock 1994[1238]: 59.—Indonesia. Sulawesi: 5 km. W Malino, Bententingi, 850-100 m. HT ♂ BBM. [6605320]
- sumatrana.** Indonesia (Sumatra) [OR].
Dacus sumatranus Hardy 1983[1956]: 22.—Indonesia. n. Sumatra: 12 km. NW Bohorok, 200 m. HT ♂ MZB. [6601726]
- sumbawaensis.** Indonesia (Sumbawa) [OR].
Bactrocera sumbawaensis Drew & Hancock 1994[1238]: 60.—Indonesia. Nusa Tenggara: Sumbawa, Surading. HT ♂ BBM. [6605321]
- tappanus.** Taiwan [OR].
Chaetodacus tappanus Shiraki 1933[4432]: 76.—Taiwan. Tappan. HT ♂ NTU. [6604330]
- tenuifascia.** Australia (WA, NT) [AU].
Strumeta tenuifascia May 1965[3234]: 64.—Australia. Northern Territory: Nightcliff. HT ♂ QMBA. [6603419]
- tenuivittata.** Taiwan [OR].
Dacus tenuivittatus Tseng, Chen & Chu 1992[4835]: 47.—Taiwan. Taichung: Pashenshan, 600 m. HT ♂ BCIQT. [6605354]
- terminaliae.** Papua New Guinea (Morobe) [AU].
Bactrocera terminaliae Drew 1989[1232]: 35.—Papua New Guinea. Morobe: Oomsis logging area. HT ♀ QMBA. [6601073]
- thailandica.** Thailand [OR].
Bactrocera thailandica Drew & Hancock 1994[1238]: 61.—Thailand. Prachin Buri: Haewnarok. HT ♀ BMNH. [6605322]
- thistletoni.** Papua New Guinea (Central, Western, W. Highlands) [AU].
Bactrocera thistletoni Drew 1989[1232]: 163.—Papua New Guinea. Western Highlands: Mt. Hagen. HT ♂ QMBA. [6601025]
- tillyardi.** w. Malaysia [OR].
Strumeta tillyardi Perkins 1938[3784]: 131.—Malaysia. Selangor: Bukit Kutu; Pahang: Fraser's Hill. ST ♀ SMKM. ST possibly lost, not in BMNH. [6603958]
- tinomiscii.** Papua New Guinea (Central, Sepik, E. Highlands, Morobe) [AU].
Bactrocera tinomiscii Drew 1989[1232]: 43.—Papua New Guinea. Central: near Sogeri, Rouna Power Station No. 2. HT ♂ QMBA. [6601081]
- transtillum.** Indonesia (Java) [OR].
Strumeta transtillum Hering 1952[2218]: 265.—Indonesia. e. Java: Idjen, Ongop-ongop, 1850 m. HT ♀ RNH. [6602670]

- trifaria.** New Britain [AU].
Dacus trifarius Drew 1971[1215]: 87.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600977]
- trifasciata.** Indonesia (Sulawesi) [OR].
Dacus trifasciatus Hardy 1982[1952]: 237.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 650 m. HT ♂ MZB. [6601722]
- trilineola.** Vanuatu (Efate, Malekula, Espiritu Santo) [AU].
Bactrocera trilineola Drew 1989[1232]: 78.—n. n. *triseriatus* Drew 1971. [6601097]
Bactrocera distotriseriata Hardy 1989[1966]: 504.—n. n. *triseriatus* Drew 1971. [6601863]
Dacus triseriatus Drew 1971[1215]: 90.—Vanuatu. Efate I.: Vila. HT ♂ QMBA. Preocc. Curran 1927. [6600978]
- trivialis.** Indonesia (Sulawesi), New Guinea, Australia (Torres St.) [OR, AU].
Dacus trivialis Drew 1971[1215]: 93.—Papua New Guinea. Western: Kiwai I. HT ♂ QMBA. [6600979]
- tryoni.** Australia (n. Qld. to Vic.); introduced New Guinea, New Caledonia, Austral & Society Is. [AU].
Tephritis tryoni Froggatt 1897[1616]: 410.—Australia. New South Wales: Tenterfield; Penrith; Richmond R., Wollongbar Farm; & Inverell. ST ♂ ♀ NSW? [6601374]
Chaetodacus tryoni var. *juglandis* Tryon 1927[4832]: 188.—Australia. Queensland: Stanthorpe. HT ♀ QMBA. [6604534]
Chaetodacus tryoni var. *sarcocephali* Tryon 1927[4832]: 188.—Australia. Queensland: Brisbane. LT ♀ QMBA. Lectotype designated by Drew 1989: 116. [6604532]
- tuberculata.** China (Yunnan), Burma [OR].
Chaetodacus tuberculatus Bezzi 1916[453]: 106.—Burma. s. Shan: Taung-gyi, 4000 ft. or Myitkyima. HT ♂ BMNH. [6600262]
- turneri.** Papua New Guinea, Australia (Torres St.), Solomon Is. [AU].
Bactrocera turneri Drew 1989[1232]: 112.—Australia. Queensland: Torres Strait, Murray I. HT ♂ QMBA. [6601003]
- umbrosa.** w. Malaysia & Philippines to Vanuatu & New Caledonia; Micronesia [OR, AU].
Dacus umbrosus Fabricius 1805[1380]: 274.—Indonesia. Sumatra. LT A UZMC. Lectotype designation by inference of holotype by Hardy 1973: 52; type data (Zimsen 1964: 484). [6601225]
Dacus fascipennis Wiedemann 1819[5132]: 28.—Indonesia. Java. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 146. [6604712]
Bactrocera fasciatipennis Doleschall 1856[1202]: 412.—Indonesia. Javam [Java]. ST A NMW? Type data (Bezzi 1913: 71). [6600935]
Strumeta conformis Walker 1856[4960]: 34.—Singapore. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 167. [6604600]
Dacus diffusus Walker 1860[4966]: 153.—Indonesia. Sulawesi: near Makassar [Ujung Padang]. T ♀ BMNH. Lectotype designated by Hardy 1959: 169 invalid, wrong sex (see Drew 1989: 165). [6604621]
Dacus frenchi Froggatt 1909[1618]: 92.—New Caledonia. HT ♀ NSW? [6601378]
- unifasciata.** Solomon Is. [AU].
Dacus unifasciatus Malloch 1939[3135]: 233.—Solomon Is. Guadalcanal: Kaukau. HT ♂ BMNH. [6603310]
- unilineata.** Papua New Guinea (Morobe, W. Highlands) [AU].
Bactrocera unilineata Drew 1989[1232]: 166.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601026]
- unimacula.** Malaysia (w. & Sabah), Indonesia (Kalimantan) [OR].
Bactrocera unimacula Drew & Hancock 1994[1238]: 62.—Malaysia. w. Malaysia, Transect South trap 7 (TS7). HT ♂ BMNH. [6605323]
- unipunctata.** Solomon Is. (Florida Is.) [AU].
Dacus unipunctatus Malloch 1939[3135]: 245.—Solomon Is. Florida Is., Tulagi. HT ♂ BMNH. [6603319]
- unistriata.** New Britain, New Ireland, Lihir I. [AU].
Dacus unistriatus Drew 1971[1215]: 96.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600980]
Dacus unistraitus Drew 1971[1215]: 96.—missp. *unistriatus* Drew. [6605088]
- usitata.** Malaysia (w. & Sabah), Singapore, Philippines [OR].
Bactrocera usitata Drew & Hancock 1994[1238]: 63.—Malaysia. w. Malaysia, Transect South trap 7 (TS7). HT ♂ BMNH. [6605324]
- ustulata.** Papua New Guinea (Morobe, Central) [AU].
Bactrocera ustulata Drew 1989[1232]: 86.—Papua New Guinea. Morobe: Oomsis Forestry Reserve. HT ♂ QMBA. [6601103]
- varipes.** Solomon Is. (Florida Is., Guadalcanal) [AU].
Dacus varipes Malloch 1939[3135]: 240.—Solomon Is. Florida Is., Tulagi. HT ♂ BMNH. [6603314]
- venefica.** Burma [OR].
Strumeta venefica Hering 1938[2181]: 5.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602386]
- verbascifoliae.** s. India, Thailand [OR].
Bactrocera verbascifoliae Drew & Hancock 1994[1238]: 64.—Thailand. Chiang Mai: Doi Pui. HT ♀ BMNH. [6605325]
- versicolor.** India, Sri Lanka [OR].
Chaetodacus ferrugineus var. *versicolor* Bezzi 1916[453]: 105.—Sri Lanka. Central: Peradeniya; India. Tamil Nadu: Coimbatore. ST ♂ ♀ BMNH. [6600261]
- vishnu.** India (Tamil Nadu) [OR].
Bactrocera vishnu Drew & Hancock 1994[1238]: 65.—India. Tamil Nadu: Palani Hills, E of Kodaikanal, 1400 m. HT ♂ BMNH. [6605326]
- vulgaris.** Papua New Guinea (widespread) [AU].
Dacus vulgaris Drew 1971[1215]: 99.—Papua New Guinea. Eastern Highlands: Kainantu [6°17'S 145°52'E]. HT ♂ QMBA. [6600981]
- yilanensis.** Taiwan [OR].
Dacus yilanensis Tseng, Chen & Chu 1992[4835]: 52.—Taiwan. Yilan: Yilan City. HT ♂ BCIQT. [6605355]
- yoshimotoi.** Vietnam [OR].
Dacus yoshimotoi Hardy 1973[1942]: 53.—Vietnam. 22 km. S of Nha Trang. HT ♂ BBM. [6601618]
- zonata.** Pakistan & Sri Lanka to Vietnam; Indonesia (Maluku); introduced Mauritius [AF, OR, AU].
Dasyneura zonatus Saunders 1842[4282]: 61.—central India. T A UMO? Type depository misstated by Hardy 1973: 54, no ST in BMNH. [6604165]
Bactrocera maculigera Doleschall 1858[1203]: 122.—Indonesia. Maluku: Amboina [Ambon I.]. T A ZMHU. Also possible ST in NMW (Froggatt 1909: 94). [6600939]
Rivellia persicae Bigot 1890[507]: 192.—India. [Bihar: Chota Nagpur, Ranchi]. ST ♂ ♀ ZSI? Type data (Cotes 1890: 195, Bezzi 1916: 106); also possibly ST in UMO. [6600556]
Dacus ferrugineus var. *mangiferae* Cotes 1893[981]: 17.—India. Bihar: Tirhoot. LT ♀ ZSI? Lectotype designated by Drew & Hancock 1994: 20, female in Cotes' figure; type data (Bezzi 1913: 75). [6600822]
- unavailable name.** [AU].
Dacus maculosus Walker 1866[4976]: 26.—*Nomen nudum*. Indonesia. Bachian [Maluku: Bacan I.]; & New Guinea. ST ♂ BMNH. [6605790]

Subgenus BULLADACUS

Bulladacus Drew & Hancock 1995[1240]: 9, *Bactrocera gnetum* Drew & Hancock (OD). Proposed as a subgenus. [6600877]

aenigmatica. Western Samoa [AU].

Dacus aenigmaticus Malloch 1931[3127]: 261.—Western Samoa. Upolu: Malololelei, 2000 ft. HT ♀ BMNH. [6603271]

bullata. Papua New Guinea (East Sepik) [AU].

Bactrocera bullata Drew 1989[1232]: 124.—Papua New Guinea. East Sepik: 8 km. SSW of Maprik, Abelan. HT ♀ QMBA. [6601007]

bullifera. Thailand [OR].

Dacus bulliferus Hardy 1973[1942]: 32.—Thailand. Songkhla: Songkhla. HT ♂ BBM. [6601610]

eximia. Papua New Guinea (Madang, Central) [AU].

Bactrocera eximia Drew 1989[1232]: 132.—Papua New Guinea. Madang: Baku. HT ♀ QMBA. [6601012]

gnetum. Fiji [AU].

Bactrocera gnetum Drew & Hancock 1995[1240]: 9.—Fiji. Vanua Levu: Saivou [16°36'S 179°9'E]. HT ♀ QMBA. [6605413]

mcgregori. Singapore, Philippines [OR].

Chaetodacus mcgregori Bezzi 1919[461]: 426.—Philippines. Panay, Antique: Batbatan I. [11°28'N 121°55'E]. LT ♂ MCSNM. Lectotype designated by Hardy 1969: 479. [6600324]

penefurva. Papua New Guinea, Solomon Is. [AU].

Bactrocera penefurva Drew 1989[1232]: 151.—Papua New Guinea. Central: 20 km. SE Port Moresby. HT ♂ QMBA. [6601020]

peterseni. Philippines (Tawi-Tawi) [OR].

Dacus peterseni Hardy 1970[1940]: 75.—Philippines. Tawi-Tawi: N of Batu Batu, Tarawakan. HT ♂ UZMC. Type data (Hardy 1974: 41). [6601528]

Bactrocera petersoni Hardy 1974[1943]: 41.—missp. *peterseni* Hardy. [6605457]

tigrina. Australia (Qld.) [AU].

Afrodacus tigrinus May 1953[3224]: 339.—Australia. Queensland: Cairns, Kamerunga Experiment Station. HT ♀ QMBA. [6603396]

Afrodacus furvus May 1958[3229]: 294.—Australia. Queensland: Atherton. HT ♂ QMBA. [6603403]

Afrodacus flavinotus May 1958[3229]: 293.—Australia. Queensland: Atherton. HT ♀ QMBA. [6603402]

Subgenus DACULUS

Daculus Speiser 1924[4564]: 140, *Musca oleae* Rossi (OD). [6600490]

oleae. Eritrea, Kenya, South Africa; introduced s. Europe, Canary Is., North Africa, Middle East, Caucasus, Pakistan, nw. India [PA, AF, OR].

Musca oleae Rossi 1790[4221]: 317.—Italy. Tuscany: Provinces of Firenze & Pisa. T A ZMHU? Type data (Thompson & Pont 1993: 103). N. Comb. [6604160]

Dacus oleae var. *funesta* Guercio 1900[1827]: 35.—Not stated [Italy]. T A Unknown. [6601439]

Dacus oleae var. *flaviventris* Guercio 1900[1827]: 35.—Italy. “nella stessa provincia”; & Calabria. ST A Unknown. [6601438]

Dacus oleae var. *asiatica* Silvestri 1916[4461]: 425.—India. Cherat. ST ♂ ♀ IZUSN? [6604361]

Musca oleae Gmelin 1790[1710]: 2844.—Gallia meridionali [s. France]; & Italy. T A Unknown. Preocc. Rossi 1790; type data (Thompson & Pont 1993: 35, 103). [6601411]

Musca oleae Petagna 1792[3810]: 685.—Italy. Calabria. T A Unknown. Preocc. Rossi 1790. [6605453]

Subgenus DIPLODACUS

Diplodacus May 1952[3223]: 12, *Dacus signatifer* Tryon (OD). [6600479]

signatifer. Australia (NT, Qld.) [AU].

Dacus signatifer Tryon 1927[4832]: 210.—Australia. Queensland: Bowen. LT ♀ QMBA. Lectotype designated by Drew 1989: 187. [6604544]

Subgenus GYMNODACUS

Gymnodacus Munro 1938[3482]: 117, *Dacus mesomelas* Bezzi (OD). Proposed as a subgenus. [6600480]

absona. Burma [OR].

Asiadacus absonus Hering 1941[2190]: 1.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602470]

amplexa. Kenya, Tanzania [AF].

Gymnodacus amplexus Munro 1984[3524]: 20.—Kenya. Meru. HT ♂ SANC. [6603884]

calophylli. w. Malaysia, Singapore, Australia (Qld.), Belau [OR, AU].

Asiadacus calophylli Perkins & May 1949[3788]: 16.—Australia. Queensland: Cairns. LT ♀ QMBA. Lectotype designated by Drew 1989: 168. [6603983]

hastigerina. New Britain [AU].

Dacus hastigerina Hardy 1954[1923]: 19.—Papua New Guinea. New Britain: Keravat. HT ♂ USNM. [6601495]

kuniyoshii. Japan (Ryukyu Is.) [OR].

Gymnodacus kuniyoshii Shiraki 1968[4435]: 9.—Japan. Ryukyu Is.: Iriomote I., Funauki. HT ♂ NIAS. [6604357]

mesomelas. Nigeria, Cameroon, Zaire [AF].

Dacus mesomelas Bezzi 1908[441]: 386.—Zaire. Kinshasa. HT ♂ IRSNB. [6600169]

Dacus aethiopicus Munro 1933[3465]: 1.—Zaire. Equateur: Lukolela, left bank Congo River. ST ♂ ♀ AMNH. [6603497]

petila. Papua New Guinea (Morobe) [AU].

Bactrocera petila Drew 1989[1232]: 169.—Papua New Guinea. Morobe: Mt. Kaindi, Nami Creek, 1650 m. HT ♂ QMBA. [6601027]

Subgenus HEMINOTODACUS

Heminotodacus Drew 1989[1232]: 15, *Bactrocera dissidens* Drew (OD). Proposed as a subgenus. [6600722]

dissidens. Papua New Guinea (Morobe) [AU].

Bactrocera dissidens Drew 1989[1232]: 187.—Papua New Guinea. Morobe: Bulolo, Upper Stony logging area. HT ♂ QMBA. [6601032]

Subgenus HEMIPARATRIDACUS

Hemiparatriadacus Drew 1989[1232]: 15, *Bactrocera abdoaurantiaca* Drew (OD). Proposed as a subgenus. [6600723]

abdoaurantiaca. Papua New Guinea (E. Highlands) [AU].

Bactrocera abdoaurantiaca Drew 1989[1232]: 188.—Papua New Guinea. Eastern Highlands: Aiyura, 1650 m. HT ♂ QMBA. [6604991]

Subgenus HEMISURSTYLUS

Hemisurstylus Drew 1989[1232]: 13, *Bactrocera melanoscutata* Drew (OD). Proposed as a subgenus. [6600720]

melanoscutata. New Britain [AU].

Bactrocera melanoscutata Drew 1989[1232]: 178.—Papua New Guinea. New Britain: Keravat, Lowlands Agricultural Experiment Station. HT ♂ QMBA. [6604990]

Subgenus HEMIZEUGODACUS

Hemizeugodacus Hardy 1951[1922]: 131, *Dacus aglaiae* Hardy (OD). Proposed as a subgenus. [6600481]

Neozeugodacus May 1952[3223]: 10, *aureus* May (OD). [6600482]

REF.—Drew 1989[1232]: 222 (key to 3 spp. [AU]).

abdomininigra. Papua New Guinea (Morobe) [AU].

Bactrocera abdomininigra Drew 1989[1232]: 179.—Papua New Guinea. Morobe: Bulolo, Naibata logging area. HT ♂ QMBA. [6605349]

aglaiae. Australia (Qld.) [AU].

Dacus aglaiae Hardy 1951[1922]: 132.—Australia. Queensland: Atherton Tableland. HT ♂ USNM. [6601484]

aurea. Australia (Qld.) [AU].

Neozeugodacus aureus May 1952[3223]: 10.—Australia. Queensland: Ravensbourne. HT ♂ QMBA. [6603391]

Subgenus HETERODACULUS

Heterodaculus Hardy 1951[1922]: 134, *Dacus visendus* Hardy (OD). Proposed as a subgenus. [6600491]

fuscalata. Papua New Guinea (Morobe, Western Highlands) [AU].

Bactrocera fuscalata Drew 1989[1232]: 172.—Papua New Guinea. Morobe: Wau. HT ♂ QMBA. [6601028]

mesonotochra. Papua New Guinea (Morobe) [AU].

Bactrocera mesonotochra Drew 1989[1232]: 172.—Papua New Guinea. Morobe: near Lae, Bubia. HT ♂ QMBA. [6601029]

toxopeusi. Indonesia (Irian Jaya), Papua New Guinea [AU].

Daculus toxopeusi Hering 1953[2220]: 510.—Indonesia. Irian Jaya: Hollandia [Jayapura]. HT ♂ RNH. [6602692]

visenda. Papua New Guinea, Australia (Qld.) [AU].

Dacus visendus Hardy 1951[1922]: 135.—Australia. Queensland: Babinda. HT ♂ USNM. [6601485]

Subgenus JAVADACUS

Javadacus Hardy 1983[1956]: 26, *Dacus montanus* Hardy (OD). Proposed as a subgenus. [6600665]

REF.—Drew 1989[1232]: 222 (key to 3 spp. [AU]).

aberrans. Australia (Qld.) [AU].

Dacus aberrans Hardy 1951[1922]: 118.—Australia. Queensland: Lake Barrine. HT ♂ USNM. [6601483]

Afrodacus mesoniger May 1952[3223]: 8.—Australia. Queensland: Toowoomba. HT ♀ QMBA. [6603393]

javanensis. Indonesia (Java) [OR].

Afrodacus javanensis Perkins 1938[3784]: 132.—Indonesia. e. Java: Mt. Ardjoena, 6000 ft. HT ♀ BMNH. [6603959]

melanothoracica. Australia (Qld.) [AU].

Bactrocera melanothoracica Drew 1989[1232]: 190.—Australia. Queensland: Torres Strait, Yam I. HT ♂ QMBA. [6601033]

montana. Indonesia (Java) [OR].

Dacus montanus Hardy 1983[1956]: 27.—Indonesia. w. Java: Cibodas, on slopes of Gunung Gede, 1400 m. HT ♂ MZB. [6601727]

nigrita. w. Malaysia, Singapore [OR].

Dacus aberrans ssp. *nigritus* Hardy 1955[1925]: 5.—Singapore. HT ♂ USNM. [6601499]

pallescentis. India (Uttar Pradesh) [OR].

Dacus aberrans ssp. *pallescentis* Hardy 1955[1925]: 5.—India. Uttar Pradesh: 22 mi. S of Ranikhet. HT ♂ USNM. [6601498]

trilineata. India (Karnataka, Tamil Nadu), Sri Lanka [OR].

Dacus trilineatus Hardy 1955[1925]: 12.—India. Karnataka: Bangalore, Sarakki Village. HT ♂ BMNH. [6601497]

unirufa. Australia (Qld.) [AU].

Bactrocera unirufa Drew 1989[1232]: 191.—Australia. Queensland: Bellenden Ker Range, 100 m. HT ♂ QMBA. [6601034]

Subgenus MELANODACUS

Melanodacus Perkins 1937[3783]: 57, *Dacus niger* Tryon (OD). [6600487]

REF.—Drew 1989[1232]: 222 (key to 2 spp. [AU]).

nigra. Australia (Qld.) [AU].

Dacus niger Tryon 1927[4832]: 211.—Australia. Queensland: Cleveland or Gympie District. LT ♂ QMBA. Lectotype designated by Drew 1989: 184. [6604545]

satanelus. Papua New Guinea (Central) [AU].

Melanodacus satanelus Hering 1941[2193]: 48.—Papua New Guinea. Central: Kapakapa. ST ♂ ♀ MNM. Lectotype designated by Drew 1989: 184. [6602492]

Subgenus NESODACUS

Nesodacus Perkins 1937[3783]: 57, *Chaetodacus atrichus* Bezzi (OD). [6600349]

REFS.—Hardy & Adachi 1954[1969]: 154 (key to 2 spp. [OR: Philippines]); Hardy 1974[1943]: 17 (key to 2 spp. [OR]).

ablepharus. Philippines [OR].

Chaetodacus ablepharus Bezzi 1919[461]: 422.—Philippines. Luzon, Quezon: Tayabas, Malinao [14°00'N 121°50'E]. LT ♂ Baker. Lectotype designated by Hardy 1969:479; LT currently in MCSNM. [6600318]

Chaetodacus ablepharus var. *mindanaus* Bezzi 1919[461]: 422.—Philippines. Mindanao, Davao. HT ♀ Baker. HT currently in MCSNM. [6600319]

atrichus. Philippines [OR].

Chaetodacus atrichus Bezzi 1919[461]: 420.—Philippines. Panay, Antique: Batbatan I. [11°28'N 121°55'E]. LT ♂ MCSNM. Lectotype designated by Hardy 1969: 479. [6600316]

Chaetodacus atrichus var. *davaoanus* Bezzi 1919[461]: 421.—Philippines. Mindanao, Davao. HT ♀ Baker. HT currently in MCSNM. [6600317]

Subgenus NIUGINIDACUS

Niuginidacus Drew 1989[1232]: 15, *Bactrocera singularis* Drew (OD). Proposed as a subgenus. [6600724]

singularis. Papua New Guinea (Morobe) [AU].

Bactrocera singularis Drew 1989[1232]: 192.—Papua New Guinea. Morobe: Mt. Kaindi, Kunai Creek, 1450 m. HT ♂ QMBA. [6601035]

Subgenus NOTODACUS

Notodacus Perkins 1937[3783]: 56, *Tephrites xanthodes* Broun (OD). [6600483]

- paraxanthodes**. New Caledonia, Vanuatu, Western Samoa [AU].
Bactrocera paraxanthodes Drew & Hancock 1995[1240]: 10.—New Caledonia. Mave. HT ♀ QMBA. [6605418]
- xanthodes**. Fiji, American & Western Samoa, Tonga, Cook Is. [AU].
Tephrites xanthodes Broun 1904[629]: 306.—Tonga; Cook Is. Rarotonga; & Fiji. Viti Levu: Suva. ST ♂ ♀ AMNZ? [6600632]
Tephrites xanthodes Broun 1905[631]: 3.—Tonga; Cook Is. Rarotonga; & Fiji. Viti Levu: Suva. ST ♂ ♀ AMNZ? Preocc. Broun 1904. [6605841]
Dacus xanthodes Broun 1905[630]: 327.—Tonga; Cook Is. Rarotonga; & Fiji. Viti Levu: Suva. ST ♂ ♀ AMNZ? Preocc. Broun 1904. [6605080]

Subgenus **PAPUODACUS**

- Papuodacus* Drew 1972[1216]: 13, *Dacus pallescentis* Drew (OD) = *neopallescentis* Drew. Proposed as a subgenus. [6600484]
- neopallescentis**. Papua New Guinea (Central) [AU].
Bactrocera neopallescentis Drew 1989[1232]: 193.—n. n. *pallescentis* Drew 1971. [6601036]
Bactrocera neopallescentis Hardy 1989[1966]: 507.—n. n. *pallescentis* Drew 1971. Preocc. Drew 1989. [6601865]
Dacus pallescentis Drew 1971[1215]: 44.—Papua New Guinea. Central: Konedobu. HT ♂ QMBA. Preocc. Hardy 1955. [6600958]

Subgenus **PARADACUS**

- Paradacus* Perkins 1938[3784]: 143, *fulvipes* Perkins (OD). [6600485]
- REFS.—Hardy & Adachi 1954[1969]: 155 (key to 3 spp. [OR AU]); Hardy 1974[1943]: 20 (key to 4 spp. [PA OR]); Drew 1989[1232]: 222 (key to 4 spp. [AU]).
- angustifinis**. Indonesia (Sulawesi) [OR].
Dacus angustifinis Hardy 1982[1952]: 197.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601706]
- areolata**. Indonesia (Maluku) [AU].
Dacus areolatus Walker 1861[4971]: 295.—Indonesia. Maluku: Batchian [Bacan I.]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 163. [6604650]
- aurantiventer**. Papua New Guinea (Morobe) [AU].
Bactrocera aurantiventer Drew 1989[1232]: 194.—Papua New Guinea. Morobe: Mt. Missim, 1200 m. HT ♂ QMBA. [6601037]
- citroides**. Papua New Guinea (Central) [AU].
Bactrocera citroides Drew 1989[1232]: 195.—Papua New Guinea. Central: 51 km. NW of Port Moresby on Moresby-Bereina road. HT ♂ QMBA. [6601038]
- decepiens**. New Britain [AU].
Dacus decepiens Drew 1972[1216]: 13.—Papua New Guinea. New Britain: Keravat. HT ♀ QMBA. [6600982]
- depressa**. Korea, Japan (Hokkaido, Honshu, Sikoku, Kyushu), Taiwan [PA, OR].
Zeugodacus depressus Shiraki 1933[4432]: 90.—Taiwan. Tattaka; Japan. Nagano-ken, Kiso-fukushima; Yamanashi-ken; Gigu-ken; & Shiga-ken. ST ♂ ♀ NTU? [6604333]
- fulvipes**. Philippines (Luzon), Malaysia (Sabah) [OR].
Paradacus fulvipes Perkins 1938[3784]: 143.—Malaysia. Sabah: near Sandakan [Sandakan], Bettotan. HT ♂ SMK. HT possibly lost, not in BMNH. [6603965]

longicaudata. Malaysia (Sabah) [OR].

Nesodacus longicaudatus Perkins 1938[3784]: 134.—Malaysia. Sabah: Bettotan, near Sandakan. HT ♀ SMK. HT possibly lost, not in BMNH. [6603960]

minima. Indonesia (Nusa Tenggara) [OR].

Paradacus minimus Hering 1952[2217]: 42.—Indonesia. Nusa Tenggara: w. Flores I., Reo. HT ♀ NMB. [6602666]

perplexa. Indonesia (Maluku) [AU].

Dacus perplexus Walker 1861[4972]: 14.—Indonesia. Maluku: Gilolo [Djailolo]. LT ♀ MVMA. Lectotype designation by inference of holotype by Hardy 1959: 180; also see Perkins 1939: 33. [6604654]

Dacus implexus Perkins 1939[3786]: 34.—*Nomen nudum*. [6603979]

watersi. India (Tamil Nadu) [OR].

Dacus watersi Hardy 1954[1923]: 12.—India. Tamil Nadu: Kodaikanal. HT ♂ USNM. [6601494]

Subgenus **PARATRIDACUS**

- Paratridacus* Shiraki 1933[4432]: 109, *Dacus yayeyamanus* Matsumura (OD) = *garciniae* Bezzi. [6600486]
Hemigymnodacus Hardy 1973[1942]: 19, *Dacus diversus* Coquillett (OD). Proposed as a subgenus. [6600348]
Hemigymnodacus Agarwal 1986[37]: 259, missp. *Hemigymnodacus* Hardy. [6600813]

REF.—Drew 1989[1232]: 222 (key to 6 spp. [AU]).

alampeta. Papua New Guinea (Western Highlands) [AU].

Bactrocera alampeta Drew 1989[1232]: 196.—Papua New Guinea. Western Highlands: Mt. Hagen, Kuk Agriculture Research Station. HT ♂ QMBA. [6601039]

atrisetosus. Papua New Guinea [AU].

Zeugodacus atrisetosus Perkins 1939[3786]: 29.—Papua New Guinea. Mafula, 4000 ft.; Mondo, 5000 ft.; Northern: Mt. Lamington. ST ♀ BMNH. [6603975]

Dacus papuaensis Malloch 1939[3137]: 412.—Papua New Guinea. Morobe: Bulolo. HT ♂ AMS? [6603340]

Melanodacus rubidus May 1958[3229]: 297.—Papua New Guinea. Eastern Highlands: Goroka [6°05'S 145°23'E]. HT ♂ QMBA. [6603404]

Dacus cucumis: Malloch 1939[3137]: 412.—misid. see Drew 1989: 197. [6605184]

coracina. Papua New Guinea (Sepik) [AU].

Dacus coracinus Drew 1971[1215]: 46.—Papua New Guinea. Sepik: Bainyik. HT ♂ QMBA. [6600959]

diversa. India, Nepal, Sri Lanka, China (Sichuan, Yunnan), Thailand [OR].

Dacus diversus Coquillett 1904[961]: 139.—Sri Lanka. Western: Colombo; India. Karnataka: Bangalore. ST ♂ ♀ USNM. [6600800]

Dacus quadrifidus Hendel 1928[2111]: 343.—Ceylon [Sri Lanka]. HT ♂ DEI. **N. Syn.** [6602174]

Dacus citronellae Kapoor & Katiyar 1969[2610]: 123.—India. Bihar: Pusa. HT ♂ INPC. **N. Syn.** [6602854]

expandens. Indonesia (Maluku), Papua New Guinea, Australia (Qld.) [AU].

Dacus expandens Walker 1859[4964]: 114.—Indonesia. Maluku: Aru Is. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 171 (assumes Walker misstated sex of ST, but also see Drew 1989: 199). [6604613]

garciniae. India, Sri Lanka, Japan (Ryukyu Is.), China (Yunnan), w. Malaysia, Singapore [OR].

Bactrocera garciniae Bezzi 1913[448]: 97.—Sri Lanka. Central: Peradeniya [7°15'N 80°36'E]. ST ♂ ♀ ZSI. [6600237]

Dacus yayeyamanus Matsumura 1916[3220]: 412.—Japan. Ryukyu Is.: Okinawa, Yayeyama I. T ♀ HUS. [6603383]
Dacus expandens ssp. *melanius* Hardy & Adachi 1954[1969]: 157.—Singapore. HT ♂ USNM. **N. Syn.** [6601867]
Dacus aptatus Hardy 1973[1942]: 57.—Thailand. Phu Kae. HT ♀ KUB. **N. Syn.** [6601619]
Dacus yayeyamanus Hendel 1927[2108]: 221.—missp. *yayeyamanus* Matsumura. [6605628]

latifae. Pakistan [OR].

Dacus latifae Anwar Cheema 1964[206]: 302.—Pakistan. Lyallpur. HT ♂ PACL. [6605496]

mesonotaita. Papua New Guinea (Sepik) [AU].

Bactrocera mesonotaita Drew 1989[1232]: 199.—Papua New Guinea. Sepik: Bainyik. HT ♀ QMBA. [6601040]

unichromata. Papua New Guinea (Central, Morobe) [AU].

Bactrocera unichromata Drew 1989[1232]: 200.—Papua New Guinea. Central: 20 km. SE of Port Moresby. HT ♂ QMBA. [6601042]

Subgenus *PARAZEUGODACUS*

Parazeugodacus Shiraki 1933[4432]: 107, *matsumurai* Shiraki (OD). [6600488]

matsumurai. Japan (Bonin Is.) [AU].

Parazeugodacus matsumurai Shiraki 1933[4432]: 107.—Japan. Ogasawara [Bonin Is.]. ST ♂ ♀ NTU. [6604259]

Dacus boninensis Hardy & Adachi 1956[1970]: 12.—Japan. Bonin Is.: ChiChi Jima. HT ♂ USNM. **N. Syn.** [6601875]

Subgenus *QUEENSLANDACUS*

Queenslandacus Drew 1989[1232]: 14, *Psilodacus exiguus* May (OD). Proposed as a subgenus. [6600721]

exigua. Australia (Qld.) [AU].

Psilodacus exiguus May 1958[3229]: 300.—Australia. Queensland: Atherton. HT ♂ QMBA. [6603405]

Subgenus *SEMICALLANTRA*

Semicallantra Drew 1989[1232]: 17, *Dacus aquilus* Drew (OD). Proposed as a subgenus. [6600725]

REF.—Drew 1989[1232]: 267 (key to 3 spp. [AU]).

aquila. Papua New Guinea (Morobe) [AU].

Dacus aquilus Drew 1989[1232]: 264.—Papua New Guinea. Morobe: Mt. Kaindi, 1200 m. HT ♂ QMBA. [6601066]

memnonia. Papua New Guinea (Central) [AU].

Dacus memnonius Drew 1989[1232]: 265.—Papua New Guinea. Central: Hombrom Bluff [9°23'S 147°20'E]. HT ♂ QMBA. [6601067]

nigricula. Papua New Guinea (Morobe) [AU].

Dacus nigriculus Drew 1989[1232]: 266.—Papua New Guinea. Morobe: Bulolo, Stony logging area, Robbies Creek. HT ♂ QMBA. [6601068]

Subgenus *SINODACUS*

Sinodacus Zia 1936[5307]: 157, *hochii* Zia (MO). [6600347]

Pacifodacus Drew 1972[1216]: 12, *Asiadacus triangularis* Drew (OD). Proposed as a subgenus. [6600350]

REFS.—Wang 1988[4988]: 1 (key to 3 spp.[OR: China]); Drew 1989[1232]: 222 (key to 13 spp. [AU]).

abdopallescens. Papua New Guinea (Central, Sepik, Morobe) [AU].
Dacus abdopallescens Drew 1971[1215]: 31.—Papua New Guinea. Sepik: Lumi. HT ♂ QMBA. [6600952]

aneuvittata. New Caledonia [AU].

Dacus aneuvittatus Drew 1971[1215]: 33.—New Caledonia. Sarramea. HT ♂ QMBA. [6600953]

angusticostata. Papua New Guinea (Eastern & Western Highlands, Morobe) [AU].

Bactrocera angusticostata Drew 1989[1232]: 202.—Papua New Guinea. Eastern Highlands: Kassam Pass. HT ♂ QMBA. [6601043]

buvittata. Papua New Guinea (Central) [AU].

Bactrocera buvittata Drew 1989[1232]: 203.—Papua New Guinea. Central: 51 km. NW of Port Moresby on Moresby-Bereina road. HT ♂ QMBA. [6601044]

chonglui. China (Guangxi) [OR].

Sinodacus chonglui Chao & Lin 1996[801]: 131.—China. Guangxi: Luzhai. HT ♂ PQMAB. **N. Comb.** [6605997]

drewi. Indonesia (Sumatra) [OR].

Dacus drewi Hardy 1983[1956]: 29.—Indonesia. n. Sumatra: 12 km. NW Bohorok, 200 m. HT ♂ MZB. [6601728]

emarginata. Papua New Guinea (Central) [AU].

Neodacus emarginatus Perkins 1939[3786]: 24.—Papua New Guinea. Central: Mondo [8°33'S 147°7'E], 5000 ft. HT ♂ BMNH. [6603972]

eurylomata. Indonesia (Sulawesi) [OR].

Dacus eurylomatus Hardy 1982[1952]: 191.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601704]

fuscans. China (Yunnan) [OR].

Sinodacus fuscans Wang 1988[4988]: 292.—China. Yunnan: Xiaomengyang, 850 m. HT ♂ IZAS. [6604681]

hochii. China (Yunnan, Hainan), Thailand, Malaysia, Indonesia (Nusa Tenggara) [OR].

Sinodacus hochii Zia 1936[5307]: 159.—China. Hainan. HT ♂ IZAS. [6604828]

Sinodacus hainanus Chao & Lin 1996[801]: 126.—China. Hainan: Baoting. HT ♂ PQMAB. **N. syn.** [6605992]

infesta. Thailand, Indonesia (Sumatra, Java) [OR].

Polistomimetes infestus Enderlein 1920[1330]: 359.—Indonesia. Sumatra: Deli. HT ♀ ZMHU. [6601199]

jiannanus. China (Guizhou) [OR].

Sinodacus jiannanus Chao & Lin 1996[801]: 130.—China. Guizhou: Luodian. HT ♂ PQMAB. **N. Comb.** [6605996]

laterum. China (Yunnan) [OR].

Sinodacus laterum Wang 1988[4988]: 294.—China. Yunnan: Hongtupo. HT ♀ IZAS. [6604683]

paulula. Papua New Guinea (Morobe) [AU].

Bactrocera paulula Drew 1989[1232]: 204.—Papua New Guinea. Morobe: Gumi - Watut. HT ♂ QMBA. [6601045]

perpusilla. New Caledonia [AU].

Dacus perpusillus Drew 1971[1215]: 42.—New Caledonia. Noumea. HT ♂ QMBA. [6600957]

qionganus. China (Hainan) [OR].

Sinodacus qionganus Chao & Lin 1996[801]: 127.—China. Hainan: Baoting. HT ♂ PQMAB. **N. Comb.** [6605993]

quaterna. China (Yunnan, Guangxi) [OR].

Sinodacus quaternum Wang 1988[4988]: 293.—China. Yunnan: Fohai. HT ♂ IZAS. [6604682]

Sinodacus jinreni Chao & Lin 1996[801]: 128.—China. Guangxi: Tiandeng. HT ♂ PQMAB. **N. Syn.** [6605994]

Sinodacus rubzovi Chao & Lin 1996[801]: 129.—China. Guangxi: Tiandeng. HT ♂ PQMAB. **N. Syn.** [6605995]

- salamander.** Australia (Qld.) [AU].
Dacus salamander Drew & Hancock 1981[1237]: 51.—Australia. Queensland: Cape York Peninsula, Bamaga. HT ♂ QMBA. [6601048]
- sepikae.** Papua New Guinea (West Sepik) [AU].
Bactrocera sepikae Drew 1989[1232]: 206.—Papua New Guinea. West Sepik: Eliptamin (5°03'S 141°4'E), 1500 m. HT ♂ QMBA. [6601046]
- strigifinis.** Indonesia (Maluku), Papua New Guinea, Australia (Qld.); Solomon Is.? [AU].
Dacus strigifinis Walker 1861[4971]: 295.—Indonesia. Maluku: Batchian [Bacan I.]. T ♀ BMNH. ST lost (Drew 1989: 208), or sex misstated by Walker, only male in BMNH (see Hardy 1959: 183). [6604649]
Neodacus lanceolatus Perkins 1939[3786]: 22.—Papua New Guinea. Kokodo, 1200 ft.; Ishurava, 3000 ft.; Central: Mondo [8°33'S 147°7'E], 5000 ft.; & Northern: Mt. Lamington Dist. ST ♂ ♀ BMNH. Also ST in UQIC (possibly now in QMBA). [6603971]
Dacus albolateralis Malloch 1939[3137]: 413.—Papua New Guinea. Morobe: Upper Watut. HT ♀ AMS. [6603341]
Neodacus strigifinis ssp. *atratus* May 1962[3231]: 65.—Papua New Guinea. Eastern Highlands: Aiyura. HT ♂ QMBA. [6603409]
- surrufula.** Papua New Guinea (Morobe) [AU].
Bactrocera surrufula Drew 1989[1232]: 208.—Papua New Guinea. Morobe: Wau Ecology Institute, 1400 m. HT ♂ QMBA. [6601047]
- transversa.** Indonesia (Sulawesi) [OR].
Dacus transversus Hardy 1982[1952]: 192.—Indonesia. cent. Sulawesi: Lindu Valley, 960 m. HT ♂ MZB. [6601705]
- triangularis.** New Britain, New Ireland, Bougainville I. [AU].
Asiadacus triangularis Drew 1968[1212]: 21.—Papua New Guinea. New Britain. HT ♂ QMBA. [6600946]
- univittata.** Bougainville I. [AU].
Dacus univittatus Drew 1972[1217]: 189.—Papua New Guinea. North Solomons: Bougainville I., Kieta, Wabirong. HT ♂ QMBA. [6600985]
- vinnula.** Thailand [OR].
Dacus vinnulus Hardy 1973[1942]: 23.—Thailand. Yala: Yala. HT ♂ KUB. [6601582]

Subgenus *TETRADACUS*

- Tetradacus* Miyake 1919[3391]: 95, *Dacus tsuneonis* Miyake (OD). Proposed as a subgenus. [6600237]
Polistomimetes Enderlein 1920[1330]: 358, *minax* Enderlein (OD). [6600489]
Polistomimetes Foote 1984[1517]: 82, missp. *Polistomimetes* Enderlein. Attributed to "authors". [6600942]

REF.—White & Wang 1992[5119]: 276 (key to 2 spp.[OR: China]).

- brachycera.** India (Uttar Pradesh) [OR].
Mellesis brachycera Bezzi 1916[453]: 116.—India. Uttar Pradesh: Dehra Dun, Bhimtal Kumtal. HT ♀ BMNH. [6600270]
- discipennis.** Indonesia (Maluku) [AU].
Dacus discipennis Walker 1861[4971]: 294.—Indonesia. Maluku: Batchian [Bacan I.]. T ♀ BMNH. ST lost or Walker misstated sex, only male in BMNH (Hardy 1959: 170). [6604648]
- minax.** e. India, Bhutan, China (Sichuan, Hubei, Hunan, Guangxi) [PA, OR].
Polistomimetes minax Enderlein 1920[1330]: 358.—India. Sikkim. LT ♂ BMNH. Lectotype designated by White & Wang 1992: 277. [6601197]

- Mellesis citri* Chen 1940[812]: 133.—China. Sichuan: Chengtu [Chengdu]; & Kiangtsin. ST ♂ ♀ IZAS. Inference of HT by White & Wang 1992: 277 invalid. [6600703]
- neopagdeni.** Papua New Guinea (Central) [AU].
Bactrocera neopagdeni Drew 1989[1232]: 175.—Papua New Guinea. Central: 20 km. SE Port Moresby. HT ♀ QMBA. [6601030]
- pagdeni.** Solomon Is. (Florida Is.) [AU].
Dacus pagdeni Malloch 1939[3135]: 243.—Solomon Is. Florida I., Tulagi, ridge. HT ♀ BMNH. [6603318]
- splendida.** Indonesia (Java) [OR].
Callantra splendida Perkins 1938[3784]: 136.—Indonesia. w. Java: Preanger, Djampang Tengah. ST A BMNH. [6603961]
- tsuneonis.** Japan (Kyushu, Ryukyu Is.), China (Sichuan, Hunan, Jiangsu, Guangxi) [PA, OR].
Dacus tsuneonis Miyake 1919[3391]: 92.—Japan. Kyushu: Oita Pref., Tsugumi. ST ♂ ♀ Unknown. ST presumed lost (Shiraki 1933: 116). [6603461]
Dacus cheni Chao 1987[798]: 4.—China. Guangxi: Pingxiang. HT ♂ PQMAB. [6605281]
Dacus ferrugineus: Kuwana 1910[2800]: 23.—misid. See Miyake 1919: 88. [6605574]

Subgenus *TRYPETIDACUS*

Trypetidacus Drew 1989[1232]: 13, *Bactrocera invisitata* Drew (OD). Proposed as a subgenus. [6600719]

- invisitata.** Papua New Guinea (Morobe, Eastern Highlands) [AU].
Bactrocera invisitata Drew 1989[1232]: 177.—Papua New Guinea. Morobe: Mt. Kaindi, 1450 m. HT ♂ QMBA. [6601031]

Subgenus *ZEUGODACUS*

Zeugodacus Hendel 1927[2107]: 26, *Dacus caudatus* Fabricius (OD). Proposed as a subgenus. [6600492]

REFS.—Shiraki 1933[4432]: 79 (key to 10 spp.[PA OR: Japan, Korea & Taiwan]); Hardy & Adachi 1954[1969]: 185 (key to 14 spp.[OR: Philippines & Indonesia]); Hardy 1974[1943]: 43 (key to 13 spp.[OR: Philippines]); Ito 1983[2415]: 15 (key to 3 spp.[PA OR: Japan]); Drew 1989[1232]: 222 (key to 20 spp. [AU]); Kapoor 1993[2600]: 28 (key to 6 spp.[OR: India]).

- abbreviata.** China (Yunnan), Philippines (Luzon) [OR].
Dacus abbreviatus Hardy 1974[1943]: 44.—Philippines. Luzon, Laguna: Los Banos. HT ♂ BBM. [6601663]
- abdoangusta.** Indonesia (Sulawesi), Bougainville I. [OR, AU].
Dacus abdoangustus Drew 1972[1217]: 191.—Papua New Guinea. North Solomons: Bougainville I., Daru Village. HT ♂ QMBA. [6600986]
- abnormis.** Indonesia (Sulawesi) [OR].
Dacus abnormis Hardy 1982[1952]: 201.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunata [Sadaunta], 650 m. HT ♂ MZB. [6601707]
- adusta.** China (Sichuan) [PA].
Dacus adustus Wang & Zhao 1989[5001]: 212.—China. Sichuan: Mt. Emei [Emei Shan] (29°30'N, 103°18'E). HT ♂ IZAS. [6604692]
- ambigua.** Taiwan [OR].
Zeugodacus ambiguus Shiraki 1933[4432]: 85.—Taiwan. Koshun. HT ♂ NTU. [6604332]
- amoenus.** Bougainville I. [AU].
Dacus amoenus Drew 1972[1217]: 192.—Papua New Guinea. North Solomons: Bougainville I., Kieta. HT ♂ QMBA. [6600987]

- anchitrichota.** Papua New Guinea (East Sepik) [AU].
Bactrocera anchitrichota Drew 1989[1232]: 211.—Papua New Guinea. East Sepik: Maprik. HT ♂ QMBA. [6601048]
- arisanica.** Taiwan [OR].
Zeugodacus arisanicus Shiraki 1933[4432]: 81.—Taiwan. Arisan. HT ♂ NTU. [6604331]
- ascita.** Indonesia (Sumatra) [OR].
Dacus ascitus Hardy 1983[1956]: 32.—Indonesia. w. Sumatra: 63 km. N Padang, Lembah Anai. HT ♂ MZB. [6601729]
- atrifacies.** India (Arunachal Pradesh), w. Malaysia [OR].
Zeugodacus atrifacies Perkins 1938[3784]: 140.—Malaysia. Selangor: Bukit Kutu. HT ♂ SMKM. Proposed conditionally prior to 1961 (Art. 15); HT in UQIC, to be deposited in QMBA. [6603963]
- biguttata.** India (W. Bengal) [OR].
Chaetodacus biguttatus Bezzi 1916[453]: 111.—India. W. Bengal: Darjeeling, 7000 ft. HT ♂ ZSI. [6600266]
- bipustulata.** India (Karnataka), Sri Lanka [OR].
Bactrocera bipustulata Bezzi 1914[451]: 153.—India. Karnataka: “Arabidacool, Estate”. HT ♂ BMNH. [6600252]
- bogorensis.** Indonesia (Java, Lombok) [OR].
Dacus bogorensis Hardy 1983[1956]: 34.—Indonesia. w. Java: Bogor, Kebun Raya botanical gardens. HT ♂ MZB. [6601730]
- brachus.** Papua New Guinea (Central) [AU].
Dacus brachus Drew 1972[1217]: 194.—Papua New Guinea. Central: Mt. Lawes, 800 ft. HT ♂ QMBA. [6600988]
- calumniata.** Philippines (Tawi-Tawi) [OR].
Dacus calumniatus Hardy 1970[1940]: 77.—Philippines. Tawi-Tawi: Tarawakan. HT ♂ UZMC. [6601529]
- caudata.** India, Sri Lanka, Burma to Vietnam, China (Hainan), Taiwan, Malaysia, Brunei, Indonesia (Sumatra, Java) [PA, OR].
Dacus caudatus Fabricius 1805[1380]: 276.—Indonesia. Java. LT ♀ UZMC. Lectotype designation by inference of holotype by Hardy 1973: 60; type data (Zimsen 1964: 485). [6601229]
Bactrocera maculipennis Döleschall 1856[1202]: 412.—Indonesia. Javam [Java]. T A NMW? Type data (Bezzi 1913: 75). [6600937]
- chorista.** Papua New Guinea, Australia (Qld.) [AU].
Zeugodacus choristus May 1962[3231]: 72.—Australia. Queensland: Atherton. HT ♂ QMBA. [6603412]
- cilifera.** China (Guangxi), Taiwan, Thailand, Laos, Vietnam [OR].
Dacus cilifer Hendel 1912[2098]: 15.—Taiwan. Koshun; Alikang. ST ♂ ♀ DEI, NMW. Type data (Hardy 1968: 112). [6601911]
- connexa.** Indonesia (Sulawesi) [OR].
Dacus connexus Hardy 1982[1952]: 203.—Indonesia. n. Sulawesi: Minahassa, Tomohon. HT ♀ BMNH. [6601708]
- cucurbitae.** Pakistan to s. China & Japan (Ryukyu Is.) SE to Bougaville I.; introduced e. Africa, Egypt, Iran, Indian & Pacific Ocean Is. [PA, AF, OR, AU].
Dacus cucurbitae Coquillett 1899[952]: 129.—USA. Hawaii: Oahu, Honolulu. LT ♀ USNM. Lectotype designated by Drew 1989: 213. [6600769]
Dacus yuiliensis Tseng & Chu 1992[4839]: 84.—n. n. *aureus* Tseng & Chu 1982. [6605361]
Dacus aureus Tseng & Chu 1982[4837]: 85.—Taiwan. Hualien: Yuili. HT ♂ BCIQT? Preocc. May 1952. [6604548]
P. cucurbitae Kamasaki 1970[2556]: 1354.—missp. *cucurbitae* Coquillett. [6605551]
Dasyneura caudatus: Walker 1849[4957]: 1073.—misid. [6605627]
- curta.** New Britain [AU].
Dacus curtus Drew 1972[1217]: 195.—Papua New Guinea. New Britain: near Keravat, Vudal. HT ♂ QMBA. [6600989]
- daula.** Papua New Guinea (Western Highlands) [AU].
Bactrocera daula Drew 1989[1232]: 214.—Papua New Guinea. Western Highlands: Mt. Hagen. HT ♂ QMBA. [6601049]
- decepta.** Philippines (Mindanao) [OR].
Dacus deceptus Hardy 1974[1943]: 46.—Philippines. Mindanao, Zamboanga del Norte: 11 km. E of Sindangan. HT ♀ BBM. [6601662]
- diaphora.** India & Sri Lanka to China (Sichuan), Taiwan, Vietnam & w. Malaysia [OR].
Chaetodacus diaphorus Hendel 1915[2105]: 425.—Taiwan. Tapani; Suisharyo. ST ♂ ♀ MNM, NMW. [6602072]
Dacus siciens Chao & Lin 1993[800]: 139.—n. n. *ater* Chen 1940. [6605246]
Chaetodacus ater Chen 1940[812]: 131.—China. Sichuan: Pehpei. HT ♂ IZAS. Preocc. Malloch 1938. [6600702]
- diaphoropsis.** Laos, Borneo [OR].
Zeugodacus diaphoropsis Hering 1952[2218]: 268.—Indonesia. Kalimantan: Samarinda, Muara Kama, 50 m. HT ♂ RNH. [6602671]
- dubiosa.** Indonesia (Sulawesi) [OR].
Dacus dubiosus Hardy 1982[1952]: 205.—Indonesia. cent. Sulawesi: Sadaunta, 650 m. HT ♂ MZB. [6601709]
- duplicata.** India (Madhya Pradesh) [OR].
Chaetodacus duplicatus Bezzi 1916[453]: 107.—India. Madhya Pradesh: Pachmarhi, 3500 ft. ST ♂ ♀ BMNH. [6600263]
- elegantis.** Taiwan [OR].
Dacus elegantis Tseng, Chen & Chu 1992[4835]: 61.—Taiwan. Taichung: Lishan. HT ♂ BCIQT. [6605356]
- emittens.** Indonesia (Sulawesi, Nusa Tenggara, Maluku) [OR, AU].
Dacus emittens Walker 1860[4966]: 152.—Indonesia. Sulawesi: near Makassar [Ujung Padang]. ST ♂ ♀ MVMA. Also ST in BMNH; type data (Perkins 1939: 29, Hardy 1959: 171). [6604620]
Dacus chrysotoxus Hendel 1912[2098]: 24.—Indonesia. Maluku: Key Is. [Kai Is.]. HT ♀ DEI. [6601915]
Dacus chrysotoxus Perkins 1939[3786]: 29.—missp. *chrysotoxus* Hendel. [6605762]
- exornata.** Indonesia (Sumatra, Sulawesi, Maluku) [OR, AU].
Zeugodacus exornatus Hering 1941[2194]: 55.—Indonesia. Maluku: Dammer I. [Damar I.]. HT ♂ MNM. [6602495]
- fallacis.** Australia (Qld.) [AU].
Dacus fallacis Drew 1972[1217]: 196.—Australia. Queensland: Cape York, Rocky River. HT ♂ QMBA. [6600990]
- flava.** Taiwan [OR].
Dacus flavus Tseng, Chen & Chu 1992[4835]: 63.—Taiwan. Taichung: Wufeng. HT ♂ BCIQT. [6605357]
- flavipilosa.** Indonesia (Sulawesi) [OR].
Dacus flavipilosus Hardy 1982[1952]: 208.—Indonesia. cent. Sulawesi: Tolewonu R., Tolai, 133 m. HT ♂ MZB. [6601710]
- flavopectoralis.** Indonesia (Nusa Tenggara) [OR].
Zeugodacus flavopectoralis Hering 1953[2222]: 77.—Indonesia. Nusa Tenggara: e. Sumba I., Prai Jawang. HT ♀ NMB. [6602717]
- fulvifacies.** New Caledonia [AU].
Zeugodacus fulvifacies Perkins 1939[3786]: 32.—New Caledonia. New Caledonia: Dumbea. HT ♂ BMNH. [6603978]
- gavisia.** India (Orissa) [OR].
Dacus gavisus Munro 1935[3473]: 15.—India. Orissa: Ganjam dist., Chilka Lake, Barkuda I. HT ♂ ZSI. [6603533]
- gracilis.** Vanuatu [AU].
Dacus gracilis Drew 1972[1217]: 198.—Vanuatu. Malekula I. HT ♂ QMBA. [6600991]
- guangxiana.** China (Guangxi) [OR].
Dacus guangxianus Chao & Lin 1993[800]: 137.—China. Guangxi: Napo. HT ♂ PQMAB. [6605248]

- icelus**. Philippines (Luzon) [OR].
Dacus icelus Hardy 1974[1943]: 47.—Philippines. Luzon, Rizal: Muntinlupa [Muntinglupa, 14°23'N 121°03'E]. HT ♀ BPM. [6601664]
- indentus**. Philippines (Luzon) [OR].
Dacus indentus Hardy 1974[1943]: 49.—Philippines. Luzon, Laguna: Los Banos. HT ♀ BBM. [6601665]
- ishigakiensis**. Japan (Ryukyu Is.) [OR].
Zeugodacus ishigakiensis Shiraki 1968[4435]: 20.—Japan. Ryukyu Is.: Ishigaki I. HT ♂ USNM. [6604339]
- isolata**. China (Yunnan, Hainan), Thailand, Laos [OR].
Dacus isolatus Hardy 1973[1942]: 61.—Thailand. Nan: Nan. HT ♂ KUB. [6601620]
- katoi**. Philippines (Luzon, Negros) [OR].
Dacus katoi Hardy 1974[1943]: 50.—Philippines. Negros, La Granja. HT ♂ NIAS. [6601666]
- lipsanus**. Taiwan [OR].
Chaetodacus lipsanus Hendel 1915[2105]: 427.—Taiwan. Tapani: Tainan; Kankau. ST ♂ ♀ MNM. [6602074]
- lunulata**. Taiwan [OR].
Dacus lunulatus Tseng, Chen & Chu 1992[4835]: 66.—Taiwan. Taipei City. HT ♀ BCIQT. [6605358]
- macrovittata**. Papua New Guinea (Central) [AU].
Bactrocera macrovittata Drew 1989[1232]: 217.—Papua New Guinea. Central: Moresby-Bereina road, 88 km. NW Port Moresby. HT ♂ QMBA. [6601050]
- maculata**. w. Malaysia; Thailand? [OR].
Zeugodacus caudatus var. *maculatus* Perkins 1938[3784]: 139.—Malaysia. Selangor: Bukit Kutu, 3000 ft. HT ♀ SMK. HT possibly lost, not in BMNH. [6603962]
- maculifemur**. Burma [OR].
Zeugodacus maculifemur Hering 1938[2181]: 3.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602357]
- munda**. Taiwan, Philippines [OR].
Chaetodacus mundus Bezzi 1919[461]: 429.—Philippines. Luzon, Laguna: Los Banos [14°11'N 121°11'E]; Mindanao, Davao. ST ♂ ♀ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM. [6600325]
Zeugodacus tibialis Shiraki 1933[4432]: 96.—Taiwan. Kashoto; & Taito. ST ♂ ♀ NTU. [6604335]
- nigrifacies**. Taiwan [OR].
Zeugodacus nigrifacies Shiraki 1933[4432]: 99.—Taiwan. Arisan; & Tamaru. ST ♂ ♀ NTU. [6604336]
- okunii**. Taiwan [OR].
Zeugodacus okunii Shiraki 1933[4432]: 104.—Taiwan. Kotosho. ST ♂ ♀ NTU. [6604258]
- paratra**. China (Guangxi) [OR].
Dacus parater Chao & Lin 1993[800]: 138.—China. Guangxi: Bose. HT ♂ PQMAB. [6605247]
- parvifoliacea**. Taiwan [OR].
Bactrocera parvifoliacea Tseng, Chen & Chu 1992[4835]: 71.—Taiwan. Yilan: Nantou. HT ♂ BCIQT. [6605419]
- paulei**. Taiwan [OR].
Dacus paulei Tseng, Chen & Chu 1992[4835]: 72.—Taiwan. Kaohsiung: Paulei. HT ♂ BCIQT. [6605359]
- pendleburyi**. Thailand, w. Malaysia; Indonesia (Java)? [OR].
Zeugodacus pendleburyi Perkins 1938[3784]: 141.—Malaysia. Selangor: Bukit Butu [Bukit Kutu?]; & Perak: Larut Hills. ST ♀ SMK. ST possibly lost, not in BMNH. [6603964]
- persignata**. Indonesia (Sulawesi, Nusa Tenggara) [OR].
Strumeta persignata Hering 1941[2192]: 27.—Indonesia. Nusa Tenggara: Flores I., Ende. ST ♂ ♀ MLUH, DEI. [6602475]
Dacus goughi Hardy 1982[1952]: 210.—Indonesia. cent. Sulawesi: 65 km. SW [SE] Palu, Sadaunta, 650 m. HT ♂ MZB. [6601711]
- personata**. Indonesia (Java) [OR].
Dacus personatus Hardy 1983[1956]: 38.—Indonesia. w. Java: Palabuhanratu, lowland rainforest near seacoast. HT ♂ MZB. [6601731]
- platamus**. Thailand, Indonesia (Sumatra, Java) [OR].
Dacus platamus Hardy 1973[1942]: 65.—Thailand. Yala: Yala. HT ♂ KUB. [6601621]
- pseudoscutellata**. Taiwan [OR].
Dacus pseudoscutellatus Tseng, Chen & Chu 1992[4835]: 74.—Taiwan. Kaohsiung: Paulei. HT ♂ BCIQT. [6605360]
- pubescens**. Philippines [OR].
Chaetodacus pubescens Bezzi 1919[461]: 434.—Philippines. Luzon, Laguna: Los Banos [14°11'N 121°11'E]. LT ♂ Baker. Lectotype designated by Hardy 1969: 479, currently in MCSNM. [6600327]
Chaetodacus scutellatus: Bezzi 1916[453]: 114.—misid. [6605630]
- reflexa**. New Britain [AU].
Dacus reflexus Drew 1971[1215]: 101.—Papua New Guinea. New Britain: Keravat. HT ♂ QMBA. [6600950]
- rubella**. Thailand [OR].
Dacus rubellus Hardy 1973[1942]: 66.—Thailand. Bangkok. HT ♂ KUB. [6601622]
- sandaracina**. Papua New Guinea (East Sepik) [AU].
Bactrocera sandaracina Drew 1989[1232]: 218.—Papua New Guinea. East Sepik: Maprik. HT ♂ QMBA. [6601051]
- scutellaris**. India, Nepal, Burma, Thailand, s. China [OR].
Bactrocera scutellaris Bezzi 1913[448]: 98.—India. Meghalaya: Shillong; W. Bengal: Siliguri; Kurseong, 5000 ft.; Uttar Pradesh: Bhowali, Kuamon, 5700 ft. ST ♂ ♀ ZSI. [6600238]
Zeugodacus malaisei Hering 1938[2181]: 4.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. **N. Syn.** [6602372]
Dacus pusaensis Kapoor & Katiyar 1970[2611]: 252.—India. Bihar: Pusa. HT ♂ INPC. **N. Syn.** [6602855]
- scutellata**. Japan (Honshu to Ryukyu Is.), s. China, Taiwan [PA, OR].
Dacus scutellatus Hendel 1912[2098]: 20.—Taiwan. Koshun. HT ♂ DEI. [6601913]
Dacus bezzii Miyake 1919[3391]: 146.—Japan. Kyushu: Oita, Tsugumi; Miyazaki; & Kagoshima; Honshu: Kyoto. ST ♂ ♀ Unknown. ST probably destroyed (Shiraki 1933: 85). [6603456]
Dacus trivittatus: Matsumura 1916[3220]: 411.—misid. See Shiraki 1933: 82. [6605568]
- scutellina**. Philippines [OR].
Chaetodacus scutellinus Bezzi 1916[453]: 113.—Philippines. Luzon, Laguna: Mt. Makiling; Palawan: Puerto Princesa. ST ♂ ♀ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM; type data (Bezi 1919: 432). [6600267]
- stenoma**. China (Yunnan) [OR].
Dacus stenomus Wang & Zhao 1989[5001]: 213.—China. Yunnan: Mengmengde (22°48'N, 100°50'E). HT ♂ IZAS. [6604693]
- sumbensis**. Indonesia (Nusa Tenggara) [OR].
Zeugodacus nubilus ssp. *sumbensis* Hering 1953[2222]: 75.—Indonesia. Nusa Tenggara: e. Sumba I., Wai Rara, Baing. HT ♀ NMB. [6602716]
- synnephes**. Taiwan [OR].
Dacus synnephes Hendel 1913[2099]: 40.—Taiwan. Fuhosho. HT ♀ DEI. [6601921]
Zeugodacus synnephes var. *dobaensis* Shiraki 1933[4432]: 95.—Taiwan. Doba. ST ♂ ♀ NTU. [6604334]
Dacus synnepthes Hardy 1968[1937]: 113.—missp. *synnephes* Hendel. [6605389]

- tau.** India & Sri Lanka E to s. China & Taiwan, SE to Indonesia (to Java & Sulawesi) [OR].
Dasyneura tau Walker 1849[4957]: 1074.—China. Jiangxi: Foochow [Fuzhou]; & unknown locality. ST ♂ BMNH. Type data (Hardy 1959: 185). [6604583]
Dacus hageni Meijere 1911[3314]: 375.—Indonesia. Sumatra: Serdang, Tandjong Morawa. ST ♀ RNH. [6604905]
Dacus caudatus var. *nubilus* Hendel 1912[2098]: 16.—Taiwan. Tainan. LT ♀ NMW. Lectotype designated by Hardy 1968: 113. [6601912]
Dacus nubilus ssp. *femoralis* Hendel 1934[2115]: 11.—China. ne. Sichuan. HT ♀ NRS? [6602202]
Zeugodacus bezzianus f. *signata* Hering 1941[2196]: 10.—India. Sikkim. ST ♂ ♀ ZMHU. [6602506]
Zeugodacus nubilus ssp. *heinrichi* Hering 1941[2196]: 11.—Indonesia. Sulawesi: Bantimoeroeng. HT ♀ ZMHU. [6602507]
Zeugodacus bezzianus Hering 1941[2192]: 26.—China. Sichuan: Mou Pin [Pao Hing]. HT ♀ BMNH. [6602474]
Bactrocera caudatus: Bezzi 1913[448]: 97.—misid. see Hering 1941: 25. [6605631]
tenuifinis. Indonesia (Sumatra) [OR].
Dacus tenuifinis Hardy 1983[1956]: 42.—Indonesia. n. Sumatra: Panti Forest Reserve, Pasaman, 280 m. HT ♂ MZB. [6601732]
tetrachaeta. Philippines [OR].
Chaetodacus tetrachaetus Bezzi 1919[461]: 431.—Philippines. Panay, Antique: Batbatan I. [11°28'N 121°55'E]. LT ♂ MCSNM. Lectotype designated by Hardy 1969: 479. [6600326]
timorensis. Indonesia (Nusa Tenggara, Timor) [OR].
Zeugodacus timorensis Perkins 1939[3786]: 30.—Indonesia. Timor: Koepang. HT ♀ ANIC. [6603977]
trichota. Papua New Guinea (Eastern Highlands, Central), New Britain [AU].
Zeugodacus trichotus May 1962[3231]: 74.—Papua New Guinea. Eastern Highlands: Kerowaghi. HT ♂ QMBA. [6603413]
trimaculata. Philippines (Mindanao) [OR].
Dacus trimaculatus Hardy & Adachi 1954[1969]: 196.—Philippines. Mindanao, Davao, Penal Colony. HT ♀ USNM. [6601874]
ubiquita. Thailand, Philippines, Indonesia (Java), New Ireland [OR, AU].
Dacus ubiquitous Hardy 1973[1942]: 71.—Philippines. Luzon, Camarines Sur: Mt. Isarog, Pili, 800-900 m. HT ♂ BBM. [6601623]
unilateralis. Papua New Guinea (Central) [AU].
Bactrocera unilateralis Drew 1989[1232]: 221.—Papua New Guinea. Central: 20 km. SE Port Moresby. HT ♂ QMBA. [6601052]
vargus. Indonesia (Sulawesi) [OR].
Dacus vargus Hardy 1982[1952]: 213.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 650 m. HT ♂ MZB. [6601712]
vultus. Thailand [OR].
Dacus vultus Hardy 1973[1942]: 74.—Thailand. Yala: Yala. HT ♂ KUB. [6601624]

BACTROCERA Incertae Sedis

- ritsemae.** Indonesia (Java) [OR].
Dacus ritsemae Weyenbergh 1869[5084]: 360.—Indonesia. Java: Soerabaija [Surabaya]. HT ♀ ZMAN? Unrecognized, HT presumed lost by Hardy 1983: 20; type data (Bezzi1913: 78). [6604699]

terminifera. Indonesia (Sulawesi) [OR].

- Dacus terminifer* Walker 1860[4966]: 152.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Perkins 1939: 28; also see Hardy 1959: 183 for type data. [6604619]

Genus BACTROPOTA

- Bactropota* Bezzi 1924[469]: 81, *woodi* Bezzi, Bezzi 1924[472]: 153 (SM). [6600199]
woodi. Angola, Malawi, Namibia [AF].
Bactropota woodi Bezzi 1924[472]: 154.—Malawi. Ruo, 200 ft. ST ♂ ♀ BMNH. [6600508]

Genus BARYGLOSSA

- Baryglossa* Bezzi 1918[455]: 244, *histrion* Bezzi (OD). [6600123]
 REFS—Bezzi 1924[469]: 109 (key to 2 spp. [AF]); Munro 1957[3510]: 882 (key to 7 spp. [AF]).

bequaerti. Zaire [AF].

- Baryglossa bequaerti* Bezzi 1924[468]: 14.—Zaire. Kivu: Kibombo. HT ♀ IRSNB. [6600516]

emorsa. Uganda [AF].

- Baryglossa emorsa* Munro 1957[3510]: 885.—Uganda. Ruwenzori Range, Kilembe, 4500 ft. HT ♂ BMNH. [6603763]

histrion. Zaire, Uganda [AF].

- Baryglossa histrion* Bezzi 1918[455]: 245.—Zaire. Mayumbe. HT ♂ BMNH. [6600291]

mimella. Uganda, Kenya [AF].

- Baryglossa mimella* Munro 1957[3510]: 886.—Uganda. Ruwenzori Range, Kilembe, 4500 ft. HT ♂ BMNH. [6603764]

oldroydi. Cameroon [AF].

- Baryglossa oldroydi* Munro 1957[3510]: 882.—Cameroon. Southwest: Kumba. HT ♀ BMNH. [6603761]

tersa. Kenya [AF].

- Baryglossa tersa* Munro 1939[3489]: 8.—Kenya. Chyulu Hills, Kibwezi, 3000 ft. HT ♂ BMNH. [6603639]

trulla. Eritrea, Uganda, Burundi [AF].

- Baryglossa trulla* Munro 1957[3510]: 883.—Uganda. Ruwenzori Range, Mobuku Valley, 7300 ft. HT ♂ BMNH. [6603762]
Baryglossa trulla Munro 1956[3508]: 467.—*Nomen nudum*. Burundi. Urundi, Bururi, 1900 m. HT ♀ MRAC? Published after 1930 without a description. [6603732]

Genus BARYPLEGMA

- Baryplegma* Wulp 1899[5217]: 416, *gilva* Wulp (MO). [6600008]
Pseudacrotænia Hendel 1914[2102]: 98, *Carphotricha vespillo* Schiner (OD). Proposed as a subgenus. [6600061]
Baryplegma Williston 1908[5158]: 287, missp. *Baryplegma* Wulp. [6600886]

- REFS—Hendel 1914[2103]: 58 ((*Pseudacrotænia*) key to 5 spp. [NT]); Hering 1941[2202]: 150 ((*Pseudacrotænia*) key to 2 spp. [NT: Peru]).

apiata. Mexico (Durango, Nayarit, Morelos, Guerrero) [NE, NT].

- Acrotænia apiata* Wulp 1899[5217]: 415.—Mexico. Guerrero: Amula, 6000 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 242. **N. Comb.** [6604797]

breviradiata. Peru [NT].

- Acrotænia breviradiata* Hendel 1914[2103]: 61.—Peru. Cuzco: Vilcanota. HT ♂ MNM. **N. Comb.** [6602023]

- coelestis*. Bolivia, Paraguay, Brazil (Mato Grosso, Sao Paulo) [NT].
Acrotaenia coelestis Hendel 1914[2103]: 61.—Bolivia. La Paz: Mapiri, San Carlos, 800 m. HT ♀ SMT. **N. Comb.** [6602024]
- forsteri*. Bolivia [NT].
Pseudacrotaenia forsteri Hering 1961[2233]: 4.—Bolivia. Santa Cruz: Chiquitos, Mutun, 150 m. HT ♂ ZSBS. **N. Comb.** [6602752]
- gilva*. Mexico (Nayarit) [NT].
Baryplegma gilva Wulp 1899[5217]: 416.—Mexico. Jalisco: Santiago Ixcuintla [Nayarit: Santiago Ixcuintla, 21°49'N 105°13'W]. HT ♀ BMNH. Type data (Foote 1965: 243, Selander & Vaurie 1962: 56). [6604798]
- incisa*. Mexico (Guerrero & Veracruz to Chiapas) [NE, NT].
Acrotaenia incisa Wulp 1899[5217]: 415.—Mexico. Guerrero: Omilteme, 8000 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 242. **N. Comb.** [6604796]
- pertusa*. Mexico (Jalisco, Veracruz), Belize, Guatemala, Nicaragua, Costa Rica, Panama, Colombia, Venezuela [NT].
Pseudacrotaenia pertusa Bates 1934[352]: 14.—Costa Rica. San Mateo, Higuito. HT ♂ USNM. **N. Comb.** [6600104]
- pseudovespillo*. Peru, Bolivia [NT].
Acrotaenia pseudovespillo Hendel 1914[2103]: 60.—Bolivia. La Paz: Mapiri, San Carlos, 800 m. & Sarampiuni, 700 m. Peru. mouth of Pachitea River. ST ♂ ♀ SMT, NMW. Type locality data from labels of STs. **N. Comb.** [6602022]
- ricavelata*. Peru [NT].
Acrotaenia ricavelata Hendel 1914[2103]: 60.—Peru. Callanga. LT ♂ NMW. Lectotype designated by Hardy 1968: 121. **N. Comb.** [6602021]
- Acrotaenia rica-velata* Hendel 1914[2103]: 60.—incosp. *ricavelata* Hendel. Automatic correction under Art. 32(d). [6605728]
- rustica*. Ecuador [NT].
Pseudacrotaenia rustica Bates 1934[352]: 13.—Ecuador. HT ♂ USNM. **N. Comb.** [6600103]
- vespillo*. Venezuela, Peru, Bolivia [NT].
Carphotricha vespillo Schiner 1868[4296]: 275.—South America [Venezuela]. LT ♀ NMW. Lectotype designated by Hardy 1968: 139. **N. Comb.** [6604197]
- vulpiana*. Costa Rica [NT].
Baryplegma vulpiana Enderlein 1911[1326]: 431.—Costa Rica. HT ♀ PAN. [6601151]
- Baryplegma vulpiana* Hendel 1914[2103]: 62.—missp. *vulpiana* Enderlein. [6605604]

Genus *BEVISMYIA*

- Bevismyia* Munro 1957[3511]: 48, *basuto* Munro (OD). [6600184]
- basuto*. Lesotho [AF].
Bevismyia basuto Munro 1957[3511]: 49.—Lesotho. Little Bokong River. HT ♂ SANC. [6603811]

Genus *BEZZINA*

- Bezzina* Munro 1957[3510]: 893, n. n. *Bezziella* Munro. [6600364]
- Bezziella* Munro 1937[3481]: 19, *Oxyna maragaritifera* Bezzi (OD). Preocc. Enderlein 1937. [6600142]
- REF.—Munro 1937[3481]: 12 ((*Bezziella*) key to 2 spp. [AF]).
- margaritifera*. Eritrea, e. Africa, Zimbabwe, South Africa [AF].
Oxyna margaritifera Bezzi 1908[443]: 160.—Eritrea. vic. Adi Ugri. HT ♀ MZLS. [6600178]
- Spathulina munroi* var. *majuscula* Bezzi 1924[470]: 534.—East Africa. ST A SAMCT? [6600415]

- Spathulina munroi* Bezzi 1924[470]: 535.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC, MNM. [6600417]
- nigrapex*. South Africa [AF].

- Bezziella nigrapex* Munro 1937[3481]: 20.—South Africa. Transvaal: Tshakoma, Zoutpansberg. HT ♀ SANC. HT transferred from TMP. [6605416]

Genus *BISTRISPINARIA*

- Bistrispinaria* Speiser 1913[4562]: 145, *Ceratitis fortis* Speiser (OD). Proposed as a subgenus. [6600112]
- REF.—Bezzi 1924[469]: 98 ((*Chelyophora*) key to 2 spp. [AF]).

- fortis*. Ivory Coast, Cameroon, Zaire, Uganda [AF].
Ceratitis fortis Speiser 1913[4562]: 145.—Cameroon. Mt. Cameroon, Soppo. HT ♂ Unknown. [6604384]
- Pardalaspis aglaspis* Seguy 1941[4348]: 117.—Ivory Coast. Kouibly. T ♂ MNHNP. [6604238]

- frigida*. Cameroon [AF].
Chelyophora frigida Hering 1942[2206]: 281.—Cameroon. Jaunde [Yaounde] region. HT ♂ ZMHU. [6602589]

- magniceps*. Sudan, Uganda, Kenya, Tanzania, Mozambique [AF].
Chelyophora magniceps Bezzi 1918[455]: 229.—Sudan. HT ♀ BMNH. [6600283]

- Chelyophora lemniscata* Enderlein 1920[1330]: 355.—Kenya. Mombassa; & Tanzania. Mtoashimu; & Kwasengiwa. ST ♂ ♀ ZMHU. [6601194]

- uranos*. Cameroon [AF].
Chelyophora uranos Hering 1942[2206]: 280.—Cameroon. Uam region, Bosum. ST ♂ ♀ ZMHU. [6602588]

- woodi*. Zaire, Malawi [AF].
Chelyophora woodi Bezzi 1924[468]: 14.—“Congo da Lemba”. HT ♂ MRAC. [6605074]
- Chelyophora woodi* Bezzi 1924[469]: 98.—Malawi. Cholo. ST ♂ ♀ BMNH. Preocc. Bezzi 1924: 14. [6600470]

Genus *BLEPHARONEURA*

- Blepharoneura* Loew 1873[3042]: 272, *Trypeta poecilogastra* Loew (OD). [6600009]
- Blepharoneura* Hardy 1968[1937]: 110, missp. *Blepharoneura* Loew. [6600791]

- REFS—Wulp 1899[5216]: 402, 411 ((*Blepharoneura* & *Hexachaeta*) keys to 7 spp. [NE, NT: Mexico & Central America]); Hendel 1914[2103]: 20 (key to 15 spp. [NT]); Hering 1941[2202]: 132 (key to 3 spp. [NT: Peru]).

- amazonensis*. Brazil (Amazonas) [NT].
Blepharoneura amazonensis Lima & Leite 1952[2975]: 308.—Brazil. Amazonas: Rio Negro, Sao Gabriel [Uaupes]. HT ♂ IOC. [6602986]

- atomaria*. Venezuela, Trinidad, Guyana [NT].
Dictya atomaria Fabricius 1805[1380]: 329.—America meridionali [Guyana]. LT ♂ UZMC. Lectotype designated by Condon & Norrbom 1994: 295; type data (Zimsen 1964: 494). [6601235]

- biseriata*. Mexico (Sinaloa, Guerrero) [NE, NT].
Blepharoneura biseriata Wulp 1899[5217]: 413.—Mexico. Guerrero: Sierra de las Aguas Escondidas, 7000 ft. HT ♀ BMNH. Type data (Foote 1965: 241). [6604793]
- Blepharoneura btseriata* Aczel 1950[14]: 195.—missp. *biseriata* Wulp. [6605729]

diva. Mexico (Jalisco, Morelos, San Luis Potosi) S to Venezuela [NT].
Blepharoneura diva Giglio-Tos 1893[1685]: 10.—Mexico. Veracruz: Tuxpango. HT ♀ IMZ. Type data (Giglio-Tos 1895: 57). [6601402]
Blepharoneura fulvicollis Wulp 1899[5217]: 411.—Mexico. Veracruz. LT ♀ BMNH. Lectotype designated by Foote 1965: 240. **N. Syn.** [6604790]
femoralis. Mexico (Distrito Federal & Veracruz) SE to Guatemala [NE, NT].
Blepharoneura femoralis Wulp 1899[5217]: 412.—Mexico. Guerrero: Omilteme, 8000 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 241. [6604791]
furcifer. Guyana, Colombia, Ecuador, Peru. Bolivia [NT].
Blepharoneura furcifer Hendel 1914[2103]: 23.—Bolivia. La Paz: Mapiro, San Carlos, 800 m.; Peru. mouth of Pachitea R., 150 m. ST ♂ ♀ SMT, NMW. [6601971]
hirsuta. Venezuela (Yaracuy, Miranda), Guyana, Brazil (Amazonas, Rio de Janeiro) [NT].
Blepharoneura hirsuta Bates 1933[349]: 48.—Venezuela. Yaracuy: Aroa. HT ♀ AMNH. [6600095]
Trypeta platypteria Foote 1964[1501]: 325.—*Nomen nudum*. Brazil. ST ♂ ♀ BMNH. Attributed to Walker. [6605406]
impunctata. [NT].
Blepharoneura poecilosoma var. *impunctata* Hendel 1914[2103]: 22.—Not stated [South America]. ST A NMW. **N. Status** [6601967]
io. Mexico (Veracruz) [NT].
Blepharoneura io Giglio-Tos 1893[1685]: 10.—Mexico. Veracruz: Tuxpango. HT ♂ IMZ. Type data (Giglio-Tos 1895: 57). [6601405]
longicauda. Peru [NT].
Blepharoneura poecilosoma var. *longicauda* Hendel 1914[2103]: 22.—Peru. Callanga. HT ♀ MNM. [6601968]
manchesteri. Venezuela, Trinidad [NT].
Blepharoneura manchesteri Condon & Norrbom 1994[933]: 286.—Venezuela. Miranda: Parque Nacional Guatopo, Agua Blanca recreation area (10°03'N 66°28'W), 350 m. HT ♀ IZAM. [6605366]
nigripilosa. Ecuador [NT].
Blepharoneura poecilosoma f. *nigripilosa* Hering 1935[2161]: 226.—Ecuador. Santa Inez. HT ♀ PAN. [6602226]
parva. Peru [NT].
Blepharoneura poecilosoma var. *parva* Hendel 1914[2103]: 22.—Peru. Callanga. HT ♀ MNM. [6601966]
perkinsi. Venezuela, Trinidad [NT].
Blepharoneura perkinsi Condon & Norrbom 1994[933]: 295.—Venezuela. Miranda: Parque Nacional Guatopo, near El Lucero (10°03'N 66°28'W), past Helicopter port, 700 m. HT ♂ IZAM. [6605365]
poecilogastra. Cuba [NT].
Trypeta poecilogastra Loew 1873[3042]: 270.—Cuba. T ♂ MCZ. [6603171]
poecilosoma. Mexico (N to Sinaloa, Morelos & Tamaulipas) S to Venezuela [NT].
Oxyphora poecilosoma Schiner 1868[4296]: 274.—South America [Venezuela]. LT ♂ NMW. Lectotype designated by Hardy 1968: 136. [6604195]
Blepharoneura saga Giglio-Tos 1893[1685]: 10.—Mexico. Veracruz: Cordova [Cordoba]. ST ♂ IMZ. Type data (Giglio-Tos 1985: 57). [6601404]
pulchella. Mexico (Veracruz, Tabasco), Costa Rica [NT].
Hexachaeta pulchella Wulp 1899[5216]: 403.—Mexico. Tabasco: Teapa. HT ♀ BMNH. [6604779]

quadristriata. Mexico (Veracruz, Tabasco) [NT].
Blepharoneura quadristriata Wulp 1899[5217]: 413.—Mexico. Tabasco: Teapa. HT ♂ BMNH. Type data (Foote 1965: 241). **N. Status** [6604792]
regina. Mexico (Mexico, Morelos) [NE].
Blepharoneura regina Giglio-Tos 1893[1685]: 9.—Mexico. HT ♂ IMZ. Type data (Giglio-Tos 1895: 56). [6601409]
rupta. Mexico (Tabasco), Belize [NT].
Hexachaeta rupta Wulp 1899[5216]: 404.—Mexico. Tabasco: Teapa. LT ♀ BMNH. Lectotype designated by Foote 1965: 237. [6604780]
splendida. Mexico (Nayarit, e. San Luis Potosi, Veracruz, Chiapas), Guatemala, Costa Rica, Venezuela [NT].
Blepharoneura splendida Giglio-Tos 1893[1685]: 10.—Mexico. HT ♂ IMZ. Type data (Giglio-Tos 1895: 58). [6601406]
thetis. Brazil (Rio Grande do Sul) [NT].
Blepharoneura thetis Hendel 1914[2103]: 22.—Brazil. Rio Grande do Sul. HT ♂ NMW. [6601969]

Genus BRACHIOPTERNA

Brachiopterna Bezzi 1924[469]: 81, *katonae* Bezzi, Bezzi 1924[472]: 153 (SM). [6600200]
Cyanodesmops Munro 1931[3462]: 124, *ornithomorpha* Munro (OD). [6600201]
katonae. Tanzania [AF].
Brachiopterna katonae Bezzi 1924[472]: 153.—East Africa [Tanzania. Arusha-Ju. T A MNM. Type data (Munro 1935: 163). [6600506]
Brachiopterna katonai Munro 1935[3474]: 163.—Tanzania. Arusha-Ju. HT ♀ MNM. [6603545]
ornithomorpha. Zimbabwe, South Africa [AF].
Cyanodesmops ornithomorpha Munro 1931[3462]: 124.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6603493]

Genus BRACHYACIURA

Brachyaciura Bezzi 1924[469]: 78, *kovacsi* Bezzi, Bezzi 1924[472]: 121 (SM). [6600143]
 REF.—Munro 1947[3496]: 166 (key to 3 spp. [AF]).
kovacsi. Ethiopia [AF].
Brachyaciura kovacsi Bezzi 1924[472]: 121.—Abyssinia [Ethiopia. Ulamo]. T A MNM. Type data (see Munro 1935: 139). [6600472]
Brachyaciura kovacsi Munro 1935[3474]: 139.—Ethiopia. Ulamo. HT ♂ MNM. Preocc. Bezzi 1924: 121. [6603543]
Brachyaciura kovácsi Bezzi 1924[472]: 121.—incosp. *kovacsi* Bezzi. Automatic correction under Art. 32(d). [6605716]
Brachyaciura kovácsi Munro 1935[3474]: 139.—incosp. *kovacsi* Munro. Automatic correction under Art. 32(d). [6605813]
limbata. Uganda [AF].
Tephrella limbata Bezzi 1924[472]: 126.—Uganda. Mujenje. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 146. [6600480]
rufiventris. Sudan, Eritrea [AF].
Tephrella rufiventris Bezzi 1918[456]: 23.—Eritrea. Ghinda. HT ♀ MCSNM. [6600297]

Genus BRACHYDESIS

Brachydesis Hancock 1986[1891]: 26, *Trypanea rivularis* Bezzi (OD). [6600635]

rivularis. South Africa [AF].

Trypanea rivularis Bezzi 1924[470]: 561.—South Africa. Cape: Matroosberg, Ceres division. Gt. Winterhoek, Tulbagh division. ST ♂ ♀ SAMCT. [6600438]

Genus *BRACHYTRUPANEA*

Brachytrupanea Hancock 1986[1891]: 26, *Trypanea brachystigma* Bezzi (OD). [6600636]

brachystigma. Malawi, South Africa [AF].

Trypanea brachystigma Bezzi 1924[472]: 143.—Malawi. Cholo. ST ♂ ♀ BMNH. [6600496]

semiatrata. Tanzania [AF].

Trypanea semiatrata Hering 1942[2207]: 26.—Tanzania. Lake Nyassa, Langenburg. HT ♀ ZMHU. [6602615]

Genus *BRANDTOMYIA*

Brandtomyia Hardy 1986[1961]: 68, *spuria* Hardy (OD). [6600563]

spuria. New Ireland [AU].

Brandtomyia spuria Hardy 1986[1961]: 69.—Papua New Guinea. New Ireland: Kandan. HT ♀ BBM. [6601755]

Genus *BREVICULALA*

Breviculala Ito 1984[2419]: 193, *fuliginosa* Ito (OD) = *hemileoides* Munro. [6600461]

Breviculala Ito 1956[2407]: 25, *Nomen nudum*. [6600804]

hemileoides. Japan (Kyushu, Shikoku), Taiwan [PA, OR].

Pseudacidia hemileoides Munro 1935[3477]: 257.—Formosa [Taiwan]. HT ♂ DEL. [6603556]

Breviculala fuliginosa Ito 1984[2419]: 193.—Japan. Kyushu: Osumi, Sata. HT ♂ UOPJ. [6602819]

Genus *BULOLOA*

Buloloa Hardy 1986[1962]: 32, *spinicosta* Hardy (OD). [6600497]

spinicosta. Papua New Guinea (Morobe) [AU].

Buloloa spinicosta Hardy 1986[1962]: 33.—Papua New Guinea. Morobe: Bulolo, Manki logging area. HT ♂ BBM. [6601794]

Genus *CAENORIATA*

Caenoriata Foote 1978[1510]: 31, *Acrotaenia pertinax* Bates (OD). [6600641]

pertinax. Brazil (Mato Grosso, Goias, Minas Gerais) [NT].

Acrotaenia pertinax Bates 1934[352]: 12.—Brazil. Mato Grosso: Chapada. HT ♀ AMNH. [6600102]

Genus *CALLISTOMYIA*

Callistomyia Bezzi 1913[448]: 124, *pavonina* Bezzi (OD). [6600542]

REFS—Hardy 1951[1922]: 173 (key to 4 spp. [OR, AU]); Hardy 1974[1943]: 160 (key to 5 spp. [OR]); Hardy 1988[1964]: 87 (key to 3 spp. [OR, AU: Indonesia & New Guinea]); Kapoor 1993[2600]: 41 (key to 2 spp. [OR: India]).

flavilabris. Indonesia (Maluku, Irian Jaya) [AU].

Callistomyia flavilabris Hering 1953[2220]: 513.—Indonesia. Irian Jaya: Misool, Fakal, 75 m. HT ♂ RNH. [6602694]

horni. Papua New Guinea, Australia (NT, n. Qld.) [AU].

Callistomyia horni Hendel 1928[2111]: 361.—Australia. Northern Territory: Palmerston [Darwin]. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 110; type data (Permkam & Hancock 1995: 1187). [6602190]

icarus. Philippines (Luzon) [OR].

Dacus icarus Osten Sacken 1882[3722]: 224.—Philippines. HT ♂ DEI? Type data (Hardy 1984: 32). [6603946]

klugii. India [OR].

Dacus klugii Wiedemann 1824[5133]: 56.—India orient. [e. India]. T ♀ UZMC. Type data (Zimsen 1954: 28). [6604721]

pavonina. India & Sri Lanka E to s. China & Taiwan, Vietnam & Indonesia [OR].

Callistomyia pavonina Bezzi 1913[448]: 125.—India. W. Bengal: Calcutta; Orissa: Chilka Lake, Gopkuda I.; “Bengal, Rajmahal”; Uttar Pradesh: Naini Tal; Gangapur; & Bindukhera. ST ♂ ♀ ZSI. [6600209]

Genus *CALOSPHEINISCA*

Calosphenisca Hendel 1914[2102]: 88, *volucris* Hendel (OD). [6600418]

REF.—Shiraki 1933[4432]: 160 (revision of 2 spp. [OR: Taiwan]).

quinquemaculata. Taiwan [OR].

Calosphenisca quinquemaculata Shiraki 1933[4432]: 162.—Taiwan. Kotosho. HT ♂ NTU. [6604265]

Calosphenisca 5-maculata Shiraki 1933[4432]: 162.—incosp. *quinquemaculata* Shiraki. Automatic correction under Art. 32(d). [6605507]

volucris. Taiwan [OR].

Calosphenisca volucris Hendel 1914[2102]: 88.—Formosa [Taiwan]. T A DEI. [6601945]

Calosphenisca volucris Hendel 1915[2105]: 454.—Taiwan. Kankau. ST ♂ ♀ DEI. Preocc. Hendel 1914. [6602097]

Genus *CAMPIGLOSSA*

Campiglossa Rondani 1870[4206]: 121, *Tephritis irrorata* Fallen (OD). [6600613]

Gonioxyna Hendel 1927[2107]: 23, *magniceps* Hendel, Hendel 1927[2108]: 160 (SD). [6600249]

Paroxyna Hendel 1927[2107]: 23, *Trypeta tessellata* Loew, Hendel 1927[2108]: 146 (SD). Type species misidentified, action by ICZN required to validate designation of *Trypeta producta* Loew by White 1986: 150. [6600305]

Sinotephritis Chen 1938[811]: 148, *propria* Chen (OD). [6600320]

Aliniana Hering 1951[2214]: 12, *aliena* Hering (OD) = *quadriguttata* Hendel. [6600217]

Whiteina Korneyev 1990[2736]: 460, *Paroxyna loewiana* Hendel (OD). [6600788]

Pseudacinia Korneyev 1990[2736]: 458, *Euaresta aliniana* Hering (OD). [6600787]

Gonioxyna Foote 1984[1517]: 90, missp. *Gonioxyna* Hendel. Attributed to “authors”. [6600943]

Paroxyna Foote 1984[1517]: 112, missp. *Paroxyna* Hendel. Attributed to “authors”. [6600944]

Paroxyna Palmer & Bennett 1988[3740]: 222, missp. *Paroxyna* Hendel. [6600916]

Stylia: Hering 1954[2224]: 167, misid. See Foote & Blanc 1979: 172; also see Hardy 1973: 325, Cogan & Munro 1980: 548. [6600883]

REFS—Wulp 1899[5217]: 411 ((*Ensina*) key to 5 spp. [NE, NT: Mexico & Central America]); Hendel 1927[2108]: 143, 147 ((*Campiglossa* & *Paroxyna*) keys to 29 spp. [PA]); Shiraki 1932[4432]: 406, 414 ((*Campiglossa* & *Paroxyna*) keys to 4 spp. [OR, PA: Japan, Korea & Taiwan]); Hering 1934[2159]: 262 ((*Paroxyna*) key to 2 spp. (supplement to Hendel 1927) [PA]); Hering 1934[2156]: 250 ((*Paroxyna*) key to 3 spp. (supplement to Hendel 1927) [PA]); Munro 1935[3477]: 262 ((*Paroxyna*) key to 5 spp. [OR: Taiwan]); Hering 1935[2160]: 173 ((*Paroxyn*) key to 4 spp. (supplement to Hendel 1927) [PA]); Hering 1937[2173]: 253 ((*Paroxyna*) key to 4 spp. (supplement to Hendel 1927) [PA]); Hering 1937[2174]: 59 ((*Paroxyna*) key to 13 spp. (*loewiana-plantaginis* group) [PA]); Hering 1937[2175]: 111 ((*Paroxyna*) keys to 4 spp. (supplements to Hendel 1927) [PA]); Hering 1938[2177]: 247 ((*Paroxyna*) key to 2 spp. (supplement to Hendel 1927) [PA]); Hering 1941[2202]: 158 ((*Paroxyna*) key to 7 spp. [NT: Peru]); Kwon 1985[2802]: 95 ((*Paroxyna*) key to 4 spp. [PA: Korea]); Hering 1951[2215]: 83 ((*Paroxyna*) key to 4 spp. (supplement to Hendel 1927) [PA]); Munro 1957[1560]: 924 ((*Paroxyna*) key to 29 spp. [AF]); Foote & Blanc 1963[1521]: 46 ((*Paroxyna*) key to 7 spp. [NE: USA: California]); Richter 1970[4087]: 156, 157 ((*Campiglossa* & *Paroxyna*) keys to 23 spp. [PA: e. Europe]); Hardy 1973[1942]: 326 ((*Stylia*) key to 5 spp. [OR: Southeast Asia]); Novak 1974[3671]: 9 ((*Paroxyna*) revision of 23 spp. [NE: USA & Canada]); Hardy 1974[1943]: 248 ((*Stylia*) key to 5 spp. (4 undescribed) [OR: Philippines]); Foote & Blanc 1979[1522]: 165 ((*Gonioxyina*) key to 3 spp. [NE, NT]); Ito 1984[2420]: 260, 273 ((*Campiglossa* & *Paroxyna*) keys to 11 spp. [PA: Japan]); Hardy 1988[1965]: 36 ((*Paroxyna*) key to 5 spp. [OR, AU: Indonesia & New Guinea]); Freidberg & Kugler 1989[1571]: 110 ((*Paroxyna*) key to 2 spp. [PA: Israel & Sinai]); White 1988[4235]: 48 ((*Campiglossa* & *Paroxyna*) key to 9 spp. [PA: Britain]); Korneyev 1990[2736]: 430, 459 ((*Campiglossa* & *Pseudacinia*) keys to 30 spp. [PA: e. Palearctic]); Kapoor 1993[2600]: 60, 64 ((*Campiglossa* & *Paroxyna*) keys to 6 spp. [OR: India]); Foote, Blanc & Norrbom 1993[1523]: 276 ((*Paroxyna*) key to 21 spp. [NE: USA & Canada]); Merz 1994[3343]: 43 (key to 13 spp. [PA: cent. Europe]); Hardy & Drew 1996[1972]: 220 (key to 5 spp. [AU: Australia]).

absinthii. n. & cent. Europe to Siberia; Israel, Iran, India, China, Taiwan [PA, OR].

Tephritis absinthii Fabricius 1805[1380]: 322.—Daniae [Denmark] e Siellandia [Sjaelland?]. LT ♂ UZMC. Lectotype designated by White 1986: 151. [6601233]

Musca cinereus Harris 1780[1999]: 75.—England. T A Unknown. [6601900]

Tephritis alethe Newman 1833[3596]: 506.—England. Birch-Wood; & Southgate. ST A Unknown. [6603918]

Oxya parvula Loew 1862[3038]: 89.—n. Germany. LT ♀ ZMHU. Lectotype designated by White 1986: 151. [6603121]

Oxya dracunculi Rondani 1870[4206]: 124.—Gallicum [France]. HT ♂ MZLS. [6604137]

Musca cinerius Harris 1780[1999]: 74.—incosp. *cinereus* Harris. Thompson & Pont 1993: 62 (FR). [6605433]

Oxya absinthii Rondani 1870[4206]: 124.—missp. *absinthii* Fabricius. [6605508]

Paroxyna absynthii Hendel 1934[2115]: 12.—missp. *absinthii* Fabricius. [6605804]

Paroxyna absintii Persson 1958[3797]: 119.—missp. *absinthii* Fabricius. [6605763]

achyrophori. cent. & e. Europe to Caucasus & Central Asia [PA].

Oxya achyrophori Loew 1869[3041]: 7.—not stated. ST ♂ ♀ ZMHU. [6603147]

Paroxyna archyrophori Foote 1984[1517]: 113.—missp. *achyrophori* Loew. Attributed to “authors”. [6605764]

aeneostriata. Sri Lanka, Taiwan [OR].

Paroxyna aeneostriata Munro 1935[3477]: 264.—Taiwan. Hokuto. HT ♂ DEI. **N. Comb.** [6603559]

aesia. Galapagos Is. [NT].

Trypeta aesia Walker 1849[4957]: 1006.—Ecuador. Galapagos Is.: St. James I. [San Salvador]. LT ♀ BMNH. Lectotype designation by inference of holotype by Foote 1982: 50. **N. Comb.** [6604553]

agatha. Sri Lanka [OR].

Stylia agatha Hering 1956[2226]: 73.—Sri Lanka. Uva: Welimada, Uva Ben Head [6°53'N 80°54'E]. HT ♀ NMB. **N. Comb.** [6602730]

albiceps. Canada & USA (Alaska, Yukon E to Newfoundland, S to n. California, Colorado & n. Georgia) [NE].

Trypeta albiceps Loew 1873[3042]: 302.—Canada. English River; & unnamed locality; USA. Maine. ST ♂ ♀ MCZ. **N. Comb.** [6603176]

Trypeta euryptera Loew 1873[3042]: 304.—USA. New York: West Point. HT ♀ MCZ. [6603177]

Trypeta duplex Foote 1964[1501]: 325.—*Nomen nudum*. N. America? HT ♂ BMNH. Attributed to Walker. [6605405]

aliniana. e. Russia, China (Manchuria) [PA].

Euaresta aliniana Hering 1937[2174]: 60.—China. Manchuria, Erzendjanzs. HT ♀ BMNH. [6602262]

amurensis. Kazakstan to e. Russia, Mongolia, Japan [PA].

Campiglossa amurensis Hendel 1927[2108]: 144.—Russia. Amur Region. LT ♀ NMW. Lectotype designated by Hardy 1968: 110. [6602156]

anchorata. South Africa [AF].

Paroxyna anchorata Munro 1957[3510]: 972.—South Africa. Natal: Durban, Bluff. HT ♂ SANC. **N. Comb.** [6603790]

angustipennis. French Polynesia (Austral Is.) [AU].

Paroxyna angustipennis Malloch 1938[3133]: 115.—French Polynesia. Austral Is.: Rapa, Mt. Tepiahu, 400-600 ft. T ♂ BBM. **N. Comb.** [6603304]

anomalina. Ethiopia, Burundi, Tanzania, Lesotho, South Africa [AF].

Spathulina anomalina Bezzi 1924[470]: 536.—South Africa. Transvaal: Pretoria. HT ♂ SANC. **N. Comb.** [6600418]

Paroxyna munroi f. *apiceguttata* Hering 1941[2199]: 202.—Tanzania. ST ♂ NMW. [6602557]

aragonensis. Spain [PA].

Paroxyna aragonensis Hering 1934[2156]: 250.—Spain. Treuel: Albarracin. HT ♀ BMNH. **N. Comb.** [6602211]

argentata. Uganda, Kenya, Tanzania [AF].

Paroxyna argentata Munro 1957[3510]: 954.—Uganda. Kigezi: Mt. Muhavura, 10000-12000 ft. HT ♂ BMNH. **N. Comb.** [6603783]

Paroxyna argentata f. *dispertita* Munro 1957[3510]: 957.—Kenya. Mt. Elgon, 10500-12500 ft. HT ♂ BMNH. [6603784]

argyrocephala. Britain & Scandinavia S to France, Austria, Ukraine & Kazakstan [PA].

Trypeta argyrocephala Loew 1844[3020]: 372.—Deutschland [Germany or Poland]. ST ♂ ♀ ZMHU. Described from females or both sexes; ST male in ZMHU (B. Merz, pers. comm.). [6603009]

astuta. Ethiopia, Uganda, Kenya [AF].

Paroxyna astuta Munro 1957[3510]: 984.—Uganda. Ruwenzori Range, Nyamgasani Valley, 6400 ft. HT ♂ BMNH. **N. Comb.** [6603795]

basalis. China (Shanxi) [PA].

Paroxyna basalis Chen 1938[811]: 136.—China. s. Shanxi: Tchao-yinn-tchenn. HT ♀ IZAS. **N. Comb.** [6600677]

basifasciata. Peru [NT].

Paroxyna basifasciata Hering 1941[2202]: 159.—Peru. Ayacucho: Sachabamba, 1700 m. ST ♂ ♀ ZSZMH. **N. Comb.** [6602568]

berlandi. s. France [PA].

Campiglossa berlandi Seguy 1932[4341]: 167.—France. Var: Callian. HT ♂ MNHNP. [6604222]

bigutta. Peru [NT].

Paroxyna bigutta Hering 1941[2202]: 160.—Peru. Ica: Hac. Huamuri [Hacienda Huayuri]. HT ♀ ZSZMH. **N. Comb.** [6602569]

binotata. China (Nei Mongol) [PA].

Paroxyna binotata Wang 1990[4994]: 292.—China. Nei Mongol: Hulun Buir L. HT ♀ IZAS. **N. Comb.** [6605023]

biplagiata. Switzerland [PA].

Paroxyna biplagiata Hering 1934[2159]: 261.—Switzerland. St. Moritz. HT ♀ DEI. **N. Comb.** [6602214]

brunalata. Kenya [AF].

Paroxyna brunalata Munro 1957[3510]: 967.—Kenya. Mt. Elgon, 10000-12500 ft. HT ♂ BMNH. **N. Comb.** [6603788]

brunneimacula. Papua New Guinea [AU].

Paroxyna brunneimacula Hardy 1988[1965]: 37.—Papua New Guinea. Sepik: Angora, 80-300 m. HT ♀ BBM. **N. Comb.** [6601858]

cain. Ethiopia [AF].

Paroxyna cain Hering 1937[2173]: 262.—Ethiopia. Harrar [Harar: Harar]. ST ♂ ♀ ZMHU. **N. Comb.** [6602283]

Paroxyna cain Hering 1937[2173]: 262.—incosp. *cain* Hering. Automatic correction under Art. 32(d). [6605901]

californica. USA (California, Utah, Arizona) [NE].

Paroxyna californica Novak 1974[3671]: 16.—USA. California: El Dorado Co., Luther Pass, Grass L. HT ♀ UCD. **N. Comb.** [6603927]

cassara. Peru [NT].

Trypeta cassara Walker 1849[4957]: 1026.—Peru. LT ♀ BMNH. Lectotype designation by inference of holotype by Foote 1964: 319. **N. Comb.** [6604565]

cicerbitae. Sweden [PA].

Paroxyna cicerbitae Hering 1951[2215]: 82.—Sweden. Jamtland: Are. HT ♀ BMNH. [6602665]

clathrata. Canada to Mexico (Alaska & Northwest Terr. S to California, Guerrero & Kansas) [NE].

Trypeta clathrata Loew 1862[3033]: 80.—USA. “Middle States”. T ♀ MCZ. **N. Comb.** [6603097]

Tephritis despecta: Cresson 1907[1009]: 105.—misid. [6605583]

coei. Nepal [OR].

Tephritis coei Hardy 1964[1934]: 164.—Nepal. Taplejung Dist., N of Sangu, above river bank, c. 5000 ft. HT ♂ BMNH. [6601507]

coloradensis. USA (Washington, Oregon, California, Idaho, Montana, Wyoming, Colorado) [NE].

Paroxyna coloradensis Quisenberry 1949[3992]: 85.—USA. Colorado: Gould, near Cameron Pass. HT ♂ USNM. HT transferred from CSUFC to USNM. **N. Comb.** [6604012]

communis. China (Nei Mongol, Gansu, Shaanxi, Shanxi, Hebei, Jilin) [PA].

Paroxyna communis Chen 1938[811]: 140.—China. Nei Mongol: Ordos, You-tsi-keou; Jilin: Kiao-ho; Gansu: Sin-long-shan; Hai-wang-kia-tcha; Shaanxi: Tsin-ling; Hebei: Tung-ling; Pai-hoa-shan, 1685 m; Hai-teou-shan; Shanxi: Tsi-li-yu, 1600m; Tsien-ou; Kiao-cheu; Tong-ting-shan; Mao-eull-ting, 2935 m; Tsai-tchang; “E. Mongolia:” Ma-hoang-yu; Sina-wan-wan-keou & Ala-yingze. ST ♂ ♀ IZAS. **N. Comb.** [6600679]

compta. Kenya [AF].

Paroxyna compta Munro 1957[3510]: 985.—Kenya. Chyulu Hills. HT ♂ SANC. **N. Comb.** [6603796]

confinis. China (Gansu) [PA].

Paroxyna confinis Chen 1938[811]: 143.—China. w. Gansu: Mahoshan. HT ♀ IZAS. **N. Comb.** [6600681]

consersa. Mexico (Guerrero) [NE].

Ensina consersa Wulp 1900[5219]: 417.—Mexico. Guerrero: Chilpancingo, 4600 ft. HT ♂ BMNH. Type data (Foote 1965: 243). **N. Comb.** [6604799]

Ensina mediana Wulp 1900[5219]: 418.—Mexico. Guerrero: Chilpancingo, 4600 ft. HT ♂ BMNH. Type data (Foote 1965: 244). [6604803]

contingens. Mongolia, China [PA].

Oxya contingens Becker 1908[373]: 288.—China. ne. Xizang: E Zaidam, Kurlyk on Baingol R. & Chabirga Spring on s. “Fusse” W of “S.-Kukunor-Kette”. ST ♂ ZISP. Also ST in ZMHU. **N. Comb.** [6600121]

Oxya evanescens Becker 1908[373]: 289.—China. ne. Xizang: E. Zaidam, Kurlyk, Baingol; & Turkestan, Gaschun-Gobi, Danche R., S of Satschou. ST ♂ ♀ ZISP. Also ST in ZMHU. [6600123]

Paroxyna lederi Hendel 1927[2108]: 153.—n. Mongolia. HT ♂ NMW. Type data (Hardy 1968: 120). [6602132]

cribellata. India (W. Bengal), Nepal [OR].

Campiglossa cribellata Bezzi 1913[448]: 161.—India. W. Bengal: e. Himalayas, Kurseong, 4700-5000 ft. HT ♂ ZSI. [6600228]

crockeri. Galapagos Is. [NT].

Paroxyna crockeri Curran 1934[1044]: 157.—Ecuador. Galapagos Is.: Indefatigable I. [Santa Cruz], Conway Bay. HT ♂ CAS. Type data (Arnaud 1979: 330). **N. Comb.** [6600866]

defasciata. China [PA].

Paroxyna defasciata Hering 1936[2168]: 185.—China. Heilongjiang: Charbin [Harbin]. HT ♀ BMNH. **N. Comb.** [6602247]

deserta. China (Heilongjiang) [PA].

Paroxyna deserta Hering 1939[2182]: 183.—China. Heilongjiang: Charbin [Harbin], Maershan. HT ♀ BMNH. **N. Comb.** [6602416]

despecta. Mexico (Guerrero) [NE].

Ensina despecta Wulp 1900[5219]: 418.—Mexico. Guerrero: [2 mi. N Omilteme], Xucumanatlan, 7000 ft. HT ♀ BMNH. Type data (Foote 1965: 243, Selander & Vaurie 1962: 66). **N. Comb.** [6604801]

Paroxyna depecta Aczel 1950[14]: 287.—missp. *despecta* Wulp. [6605730]

difficilis. Scandinavia, Pyrenees, Alps & Carpathian Mts., Bulgaria, Kirghizia, Mongolia [PA].

Paroxyna difficilis Hendel 1927[2108]: 152.—s. Lappland. LT ♀ NMW. Lectotype designated by Hardy 1968: 120. [6602138]

dirlbekorum. Mongolia [PA].

Campiglossa dirlbekorum Norrbom 1997[This publication].—n. n. *dispertita* Dirlbek & Dirlbek. **N. Name** [6605527]

Campiglossa dispertita Dirlbek & Dirlbek 1971[1147]: 11.—Mongolia. Hovsgol: Chadchal [Hatgal], Lok. Nr. 27 [Hovsgol Nuur, near Hatgal]. HT ♀ NMPC. Preocc. Munro 1957. [6600894]

distichera. China (Yunnan) [OR].

Paroxyna distichera Wang 1990[4996]: 490.—China. Yunnan: Hengduan Mts., Weixi (27.20°N 99.24°E), 2400 m. HT ♀ IZAS. **N. Comb.** [6605014]

- distincta*. Canada & USA (British Columbia S to California, w. Northwest Terr., Utah, Colorado, Arizona) [NE].
Paroxyyna distincta Quisenberry 1949[3992]: 85.—USA. Colorado: between Cerro Summit & Cimarron. HT ♀ USNM. HT transferred from CSUFC to USNM. **N. Comb.** [6604011]
- dorema*. China [PA].
Paroxyyna dorema Hering 1941[2197]: 29.—China. Manchuria, Sjaolin. HT ♂ BMNH. [6602533]
- doronici*. Poland, Austria, Czechoslovakia, Romania, Ukraine [PA].
Trypeta doronici Loew 1856[3029]: 53.—Austria. Karnten [Carinthia]. ST ♂ ♀ ZMHU. [6603059]
- dreisbachorum*. USA (Washington, Colorado, Arizona, New Mexico) [NE].
Paroxyyna dreisbachorum Novak 1974[3671]: 23.—USA. Colorado: 10 mi. N of junction of Routes 14 & 20. HT ♀ UMSP. **N. Comb.** [6603928]
- dupla*. Canada & USA (Alaska & Northwest Terr. S to n. California & New Mexico) [NE].
Tephritis dupla Cresson 1907[1009]: 102.—USA. New Mexico: Beulah. LT ♂ ANSP. Lectotype designated by Foote 1962: 174. **N. Comb.** [6600823]
- duplex*. Canary Is. [PA].
Tephritis duplex Becker 1908[374]: 143.—Canary Is. Tenerife. LT ♂ ZMHU. Lectotype designation by inference of holotype by Merz 1992: 224. [6600140]
Paroxyyna aequalis Hering 1937[2173]: 253.—Canary Is. Tenerife, Orotava. LT ♂ ZMHU. Lectotype designated by Merz 1992: 224. [6602273]
- edwardsi*. Uganda [AF].
Paroxyyna edwardsi Munro 1957[3510]: 966.—Uganda. Kigezi district, Mt. Muhavura, 10000-12000 ft. HT ♂ BMNH. **N. Comb.** [6603787]
- eflorata*. Kenya [AF].
Paroxyyna eflorata Munro 1957[3510]: 981.—Kenya. Aberdare Range, Nyeri Track. HT ♂ BMNH. **N. Comb.** [6603793]
- enigma*. Uruguay [NT].
Paroxyyna enigma Hering 1941[2202]: 161.—Uruguay. Buschental. HT ♂ BMNH. **N. Comb.** [6602570]
- exigua*. China (Shanxi) [PA].
Paroxyyna exigua Chen 1938[811]: 134.—China. Shanxi: Tsai-tchang. HT ♀ IZAS. **N. Comb.** [6600675]
- extincta*. Peru [NT].
Paroxyyna extincta Hering 1944[2210]: 11.—Peru. Mamara. ST ♂ ♀ SMT. **N. Comb.** [6602628]
- farinata*. Canada & USA (Alaska & Yukon E to w. Ontario, S to California & w. Texas) [NE].
Paroxyyna farinata Novak 1974[3671]: 24.—USA. Idaho: Craters of the Moon National Monument. HT ♂ CAS. Type data (Arnaud 1979: 330). **N. Comb.** [6603929]
- fenestrata*. Kenya [AF].
Paroxyyna fenestrata Munro 1957[3510]: 951.—Kenya. Mt. Elgon, Alpine Zone, 12000-13000 ft. HT ♂ BMNH. **N. Comb.** [6603781]
- festiva*. China (Shaanxi, Shanxi) [PA].
Gonioxyyna festiva Chen 1938[811]: 114.—China. cent. Shaanxi: Tsin-ling; se. Shanxi: Choei-mouo-pouo. ST ♂ IZAS. [6600662]
- fibulata*. Mexico (Veracruz) [NT].
Tephritis fibulata Wulp 1900[5219]: 421.—Mexico. Veracruz: Orizaba. LT ♂ BMNH. Lectotype designated by Foote 1965: 245. **N. Comb.** [6604808]
- flavescens*. China (Shanxi) [PA].
Paroxyyna flavescens Chen 1938[811]: 132.—China. s. Shanxi: Kiao-cheu. ST ♀ IZAS. **N. Comb.** [6600672]
- floccosa*. Virgin Is. [NT].
Tephritis floccosa Curran 1928[1038]: 73.—Virgin Is. St. John I. HT ♂ AMNH. **N. Comb.** [6600842]
- footei*. Canada & USA (s. British Columbia S to n. California & Wyoming) [NE].
Campiglossa footei Thompson 1997[This publication].—n. n. *fuscata* Foote 1979. **N. Name** [6605384]
Gonioxyyna fuscata Foote 1979[1512]: 166.—USA. California: Lassen Co., 1 mi. E Doyle. HT ♂ USNM. Preocc. Macquart 1851. [6601283]
- footeorum*. Canada & USA (British Columbia, Alberta, Washington, Idaho, Montana, Wyoming) [NE].
Paroxyyna footeorum Novak 1974[3671]: 27.—USA. Montana: 18 mi. E of Polson. HT ♂ WSU. **N. Comb.** [6603930]
- fouica*. Tonga [AU].
Paroxyyna fouica Hering 1951[2214]: 14.—n. n. *longirostris* Thomson 1869. **N. Comb.** [6602654]
Trypeta longirostris Thomson 1869[4809]: 586.—Tonga. Foua. T A NRS. Preocc. Loew 1846. [6604527]
- freyae*. Argentina (Cordoba) [NT].
Trypanea freyae Lindner 1928[2980]: 32.—Argentina. Cordoba: Sierra de Cordoba, mountain near La Falda. ST ♂ ♀ SMN. **N. Comb.** [6602989]
- frolica*. Korea [PA].
Paroxyyna frolica Dirlbek & Dirlbekova 1974[1155]: 1.—North Korea. Kymgansang. HT ♀ Dirlbek. **N. Comb.** [6600907]
- fuscata*. Australia (Qld., NSW, ACT, SA, Vic., Tas.) [AU].
Acinia fuscata Macquart 1851[3085]: 266.—Australia. Tasmania. LT ♀ MNHNP. Lectotype designation by inference of holotype by Hardy & Drew 1996: 220. [6603247]
- gansuica*. China (Gansu) [PA].
Paroxyyna gansuica Chen 1938[811]: 143.—China. w. Gansu: Mahoshan. HT ♀ IZAS. **N. Comb.** [6600682]
- gemma*. India (Tamil Nadu) [OR].
Paroxyyna gemma Hering 1939[2182]: 183.—India. Tamil Nadu: Kodaikanal. HT ♀ MNHNP. **N. Comb.** [6602417]
- genalis*. Canada & USA (Alaska & Northwest Terr., S to California & New Mexico; n. Ontario) [NE].
Trypeta genalis Thomson 1869[4809]: 585.—USA. California. LT ♂ NRS. Lectotype designated by Novak 1974: 28. **N. Comb.** [6604526]
Tephritis corpulenta Cresson 1907[1009]: 103.—USA. New Mexico: Cloudcroft. HT ♂ ANSP. [6600825]
Paroxyyna difficilis ssp. *americana* Hering 1944[2210]: 11.—USA. Colorado: Rio Grande R., south fork, 8500 ft. HT ♂ BMNH. [6602629]
Paroxyyna franciscana Hering 1947[2213]: 5.—USA. California: San Franzisko [San Francisco]. HT ♀ BMNH. [6602647]
- gilversa*. China (Sichuan) [PA].
Paroxyyna gilversa Wang 1990[4996]: 491.—China. Sichuan: Hengduan Mts., Maerkang (31.49°N 102.19°E), 2500 m. HT ♀ IZAS. **N. Comb.** [6605015]
- grandinata*. n. & cent. Europe, n. & cent. Russia, Kazakstan, Mongolia [PA].
Oxyyna grandinata Rondani 1870[4206]: 131.—Italy. Apennine Mts. or Piemonte. LT ♀ MZLS. Lectotype designated by Korneyev 1990: 450. [6604141]
Oxyyna borealis Portschinsky 1875[3875]: 35.—Russia. St. Petersburg. LT ♀ ZISP. Lectotype designation by inference of holotype by Korneyev 1990: 450. [6603999]
Tephritis beckeri Rubsaamen 1910[4234]: 129.—Germany. btw. Brodenbach on Mosel R., Ehrenburg & Boppard. ST ♂ ♀ ZMHU. ST apparently lost except for 1 wing slide. [6604163]

- Campiglossa effingenda* Dirlbek & Dirlbek 1971[**1147**]: 10.—Mongolia. Nucht, Lok. Nr. 22 [error?, Bulgan: 65 km. NW of Bulgan, Unt?]. HT ♂ NMPC. [6600892]
Campiglossa effingenda Korneyev 1990[**2736**]: 450.—missp. *effingenda* Dirlbek & Dirlbek. [6602904]
- granulata.** Zimbabwe, Lesotho, South Africa [AF].
Paroxyna granulata Munro 1957[**3510**]: 962.—South Africa. Transvaal: Pretoria. HT ♂ SANC. **N. Comb.** [6603785]
Ensina ignobilis var. *plebeja*: Munro 1926[**3457**]: 29.—misid. See Munro 1957: 962. [6605819]
- guttata.** South Africa [AF].
Coenosia guttata Wiedemann 1830[**5136**]: 442.—Kap [South Africa. Cape Province or Cape of Good Hope]. LT ♂ ZMHU. Lectotype designation by inference of holotype by Hering 1942: 12. **N. Comb.** [6604723]
- guttella.** Norway, France, Switzerland, Austria, Italy, Bulgaria, Ukraine [PA].
Oxyna guttella Rondani 1870[**4206**]: 126.—Italy. Apennino parmense [Apennine Mts., near Parma]. HT ♀ MZLS. [6604138]
- guttularis.** Mexico (Guerrero) [NE].
Ensina guttularis Wulp 1900[**5219**]: 418.—Mexico. Guerrero: Chilpancingo, 4600 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 244. **N. Comb.** [6604802]
- helveola.** Japan (Honshu) [PA].
Paroxyna helveola Ito 1984[**2420**]: 265.—Japan. Honshu: Sinano, Yatugatake, 1260 m. HT ♀ UOPJ. **N. Comb.** [6602828]
Stylia helveola Ito 1956[**2407**]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604988]
- hirayamae.** e. Russia, Mongolia, China, Korea, Japan, Taiwan [PA, OR].
Tephritis hirayamae Matsumura 1916[**3220**]: 423.—Japan. Honshu: Tokyo. T ♀ HUS. [6603390]
Campiglossa conformis Zia 1937[**5308**]: 197.—China. Jiangsu: Zi-Ka-Wei. HT ♀ IZAS. [6604839]
Campiglossa hensanica Zia 1939[**5310**]: 9.—China. Hunan: Nanyoh [Nanyoe]. HT ♀ IZAS. [6604866]
Campiglossa hirayamae Hendel 1927[**2108**]: 145.—missp. *hirayamae* Matsumura. [6605541]
- hofferi.** Algeria [PA].
Paroxyna hofferi Dirlbek & Dirlbekova 1976[**1159**]: 479.—Algeria. Hamman-Salihine. HT ♀ NMPC. **N. Comb.** [6600912]
- hyalina.** Mexico (Chiapas) [NT].
Gonioxyna hyalina Foote 1979[**1512**]: 167.—Mexico. Chiapas: near San Cristobal, Tzontehuitz, 9600 ft. HT ♂ CNC. **N. Comb.** [6601284]
- ignobilis.** Yemen, ne. to s. Africa; Taiwan? [AF].
Trypeta ignobilis Loew 1861[**3031**]: 293.—Vorgebirge der guten Hoffnung [South Africa. Cape: Cape of Good Hope]. ST ♂ ♀ ZMHU. Possibly also ST in NRS. **N. Comb.** [6603079]
Ensina ignobilis var. *plebeja* Bezzi 1924[**470**]: 551.—South Africa. Cape Town; Table Mountain; Cedarbergen; & East London. ST A SAMCT. Probably also ST in SANC. [6600432]
Campiglossa ignobilis Loew 1862[**3037**]: 6.—Cap Bon. Sp. [South Africa. Cape: Cape of Good Hope]. ST ♂ ♀ ZMHU. Preocc. Loew 1861; possibly also ST in NRS. [6605271]
- igori.** Kirghizia, Mongolia [PA].
Campiglossa igori Korneyev 1990[**2736**]: 438.—Kirghizia. Kaingdy-Katta Range, 7 km. above mouth of Kaingdy R., 2100-2500 m. HT ♂ UASK. [6602900]
- infrequens.** Australia (Qld., NSW) [AU].
Paroxyna infrequens Hardy & Drew 1996[**1972**]: 310.—Australia. New South Wales: Branxton. HT ♂ NSW. **N. Comb.** [6605933]
- intermedia.** e. Russia, China (Jiangxi) [PA].
Ictericia intermedia Zia 1937[**5308**]: 190.—China. Jiangxi: Kuling [Guling]. HT ♀ IZAS. [6604838]
- iracunda.** India, Burma, Thailand, Vietnam [OR].
Paroxyna iracunda Hering 1938[**2181**]: 55.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. **N. Comb.** [6602393]
- iriomotensis.** Japan (Ryukyu Is.) [OR].
Paroxyna iriomotensis Shiraki 1968[**4435**]: 70.—Japan. Ryukyu Is.: Iriomote I. HT ♀ NIAS. **N. Comb.** [6604353]
- irrorata.** Sweden, Finland, cent. Europe, Ukraine, Kazakstan [PA].
Tephritis irrorata Fallen 1814[**1382**]: 170.—Sweden. Skane, Bohvetefalten near Gyllebo. LT A NRS. Lectotype designated by Persson 1958: 116, sex of LT not stated. [6601242]
Tephritis irrorata Fallen 1820[**1383**]: 11.—Sweden. Gyllebo, Scaniae & “in aridis Raflundae”. ST ♂ ♀ NRS. Preocc. Fallen 1814. [6605170]
- jamesi.** Canada & USA (Alaska & Yukon S to California & Colorado) [NE].
Paroxyna jamesi Novak 1974[**3671**]: 29.—USA. Washington: Nahcotta. HT ♂ WSU. **N. Comb.** [6603931]
- japonica.** Russia (Kurile Is.), Japan (Hokkaido, Honshu) [PA].
Euaresta japonica Ito 1984[**2420**]: 244.—Japan. Honshu: Sinano, near Nagano, Nagaokamura. HT ♂ UOPJ. [6602826]
Stylia aliniana ssp. *japonica* Ito 1956[**2407**]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604986]
- jugosa.** Japan (Honshu) [PA].
Paroxyna jugosa Ito 1984[**2420**]: 268.—Japan. Honshu: Sinano, Ontakesan, Hakkaisan, 1740 m. HT ♂ UOPJ. **N. Comb.** [6602829]
Stylia jugosa Ito 1956[**2407**]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604987]
- kanabaina.** Uganda [AF].
Paroxyna kanabaina Munro 1957[**3510**]: 982.—Uganda. Kigezi district, Kanaba, 7800 ft. HT ♂ BMNH. **N. Comb.** [6603794]
- kaszabi.** Mongolia, Russia (Yakutsk) [PA].
Campiglossa kaszabi Korneyev 1990[**2736**]: 436.—Mongolia. Hovsgol: Hatgal, sw. shore of Hovsgol Nuur, 1650 m. HT ♂ MNM. [6602899]
- kumaonesis.** India (Uttar Pradesh) [OR].
Campiglossa kumaonesis Agarwal, Grewal et al. 1989[**39**]: 90.—India. Uttar Pradesh: between Naini Tal & Ranikhet. HT ♀ INPC. [6604992]
- lhommei.** Britain, France, sw. Russia [PA].
Paroxyna lhommei Hering 1936[**2166**]: 59.—France. Lot: Boisvieres. HT ♀ BMNH. **N. Comb.** [6602232]
- lingens.** Austria [PA].
Oxyna lingens Loew 1869[**3041**]: 20.—Austria. Karnten [Carinthia]. ST ♀ ZMHU. **N. Comb.** [6603140]
- loewiana.** British Is. & Scandinavia S to France, Albania & Ukraine, E to Mongolia, China & e. Russia [PA].
Paroxyna loewiana Hendel 1927[**2108**]: 154.—Austria. Schneeberg, Alpl. LT ♀ NMW. Suspension of I.C.Z.N. rules required to validate usage. Lectotype designated by White 1986: 152. [6602134]
Tephritis theora Newman 1833[**3596**]: 506.—Scotland; England. Cambridgeshire; Oxfordshire; nr. London; Birch; Camberwell; Coombe; Darent; Deptford; Hampstead; & Southgate. ST A Unknown. Has priority over *loewiana*, but synonymy uncertain. [6603919]
Trypeta argyrocephala: Frauenfeld 1857[**1537**]: 543.—misid. See Hendel 1927: 154. [6605581]
- longistigma.** China (Sichuan) [PA].
Paroxyna longistigma Wang 1990[**4996**]: 491.—China. Sichuan: Hengduan Mts., Kangding (30.12°N 101.48°E), 2600 m. HT ♀ IZAS. **N. Comb.** [6605016]

- lubrica.** Kazakstan, Mongolia [PA].
Gonioxya lubrica Dirlbek & Dirlbek 1971[1147]: 13.—Mongolia. Bulgan: Bulgan, Lok. Nr. 15-16. HT ♂ NMPC. [6600895]
- luculenta.** Mexico (Guerrero) [NE].
Ensina luculenta Wulp 1900[5219]: 417.—Mexico. Guerrero: Omilteme, 8000 ft. [17°30'N 99°40'W]. HT ♂ BMNH. Type data (Foote 1965: 243). **N. Comb.** [6604800]
- luxorientis.** Mongolia, China, e. Russia [PA].
Paroxya luxorientis Hering 1940[2186]: 16.—n. n. *oxynoides* Hering 1936. [6602439]
Paroxya melanochoa Hering 1941[2197]: 30.—China. Heilongjiang: Charbin [Harbin]. HT ♀ BMNH. [6602534]
Paroxya oxynoides Hering 1936[2168]: 186.—China. Heilongjiang: Charbin [Harbin]. ST ♂ ♀ BMNH. Preocc. Bezzi 1924. [6602248]
- lyncea.** India (Himachal Pradesh, W. Bengal), Vietnam [OR].
Tephritis lyncea Bezzi 1913[448]: 165.—India. W. Bengal: e. Himalayas, Darjeeling. ST ♂ ♀ ZSI. **N. Comb.** [6600232]
- magniceps.** Mongolia, China [PA].
Gonioxya magniceps Hendel 1927[2108]: 161.—China. Qinghai: Kuku-noor [Qinghai Hu]. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 117. [6602139]
- malaris.** Britain, Netherlands, Belgium, France, Switzerland [PA].
Paroxya malaris Seguy 1934[4346]: 143.—France. Somme: Amiens. HT A MNHNP. Described from both sexes, but sex of HT, designated on pl. XI, not specified. [6604230]
- martii.** Canary Is. [PA].
Oxya martii Becker 1908[374]: 144.—Canary Is. Tenerife: Guimar. ST ♂ ♀ ZMHU. **N. Comb.** [6600142]
- matsumotoi.** Japan (Ryukyu Is.) [OR].
Paroxya matsumotoi Shiraki 1968[4435]: 67.—Japan. Ryukyu Is.: Okinawa I. HT ♀ NIAS. [6604352]
- media.** French Polynesia (Austral Is.) [AU].
Paroxya media Malloch 1938[3133]: 116.—French Polynesia. Austral Is.: Rapa, Morongota, 700-800 ft. HT ♀ BBM. **N. Comb.** [6603305]
- medora.** China [PA].
Paroxya medora Hering 1936[2168]: 186.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. **N. Comb.** [6602249]
- melaena.** e. Russia, ne. China [PA].
Sinotephritis melaena Hering 1941[2197]: 27.—China. Manchuria, Sjaolin. HT ♂ BMNH. [6602531]
- messalina.** e. Russia, n. China, Korea, Japan [PA].
Paroxya messalina Hering 1937[2174]: 58.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602261]
Campiglossa ziae Hering 1953[2221]: 11.—China. Manchuria, Chandaochezsy. HT ♀ BMNH. [6602704]
Paroxya cleopatra Hering 1937[2174]: 60.—China. Manchuria, Erzendjan. HT ♀ BMNH. [6602263]
Paroxya babajaga Hering 1938[2180]: 401.—China. Heilongjiang: Maershan. HT ♀ BMNH. [6602301]
- misella.** Britain & Spain to Central Asia, China (Yunnan) [PA, OR].
Oxya misella Loew 1869[3041]: 19.—Russia. Sarepta region. ST ♂ ♀ ZMHU. Inference of HT by White 1986: 152 invalid. [6603139]
Tephritis lusoria Nowicky 1869[3677]: 145.—Ukraine. “Podolu, Sinkowie”; & Skale [Skala Podolskaya?]. ST ♂ ZMHU. 1 ST in ZMHU, inference of HT by White 1986: 152 invalid; depository of other ST unknown. [6603936]
- mitrata.** Kenya [AF].
Paroxya mitrata Munro 1957[3510]: 985.—Kenya. Mt. Kinangop. HT ♂ SANC. **N. Comb.** [6603797]
- montana.** Kirghizia [PA].
Campiglossa montana Korneyev 1990[2736]: 440.—Kirghizia. Kaingdy-Katta Range, 5 km. SW of Tashkoroo, 2500 m. HT ♂ UASK. [6602902]
- multimaculosa.** Canary Is. [PA].
Paroxya reticulata ssp. *multimaculosa* Dirlbek & Dirlbek 1969[1145]: 9.—Canary Is. Gomera: nr. Tamargada. HT ♂ Kirchbg. [6600890]
- munroi.** Ethiopia [AF].
Paroxya munroi Hering 1937[2173]: 262.—Ethiopia. Harrar [Harar: Harar]. ST ♂ ♀ ZMHU. **N. Comb.** [6602284]
- murina.** Canada & USA (Alaska, Yukon & Northwest Terr. S to California & New Mexico) [NE].
Tephritis murina Doane 1899[1189]: 189.—USA. Washington: Whidby I. LT ♂ WSU. Lectotype designated by Foote 1966: 123; type data (Zack 1984: 32). **N. Comb.** [6600928]
Paroxya maculifemorata Hering 1947[2213]: 6.—USA. Washington: Wen. [Wenatchee] Mts. HT ♂ BMNH. [6602648]
Paroxya maculifermorta Novak 1974[3671]: 9.—missp. *maculifemorata* Hering. [6605526]
- nacta.** Kenya [AF].
Paroxya nacta Munro 1957[3510]: 973.—Kenya. Mt. Kenya, Nanyuki. HT ♂ SANC. **N. Comb.** [6603791]
- nigricauda.** Mongolia, China (Gansu, Shanxi), Russia (Amurskaya) [PA].
Acinia nigricauda Chen 1938[811]: 108.—China. w. Gansu: Sin-long-chan; & Shanxi: Mao-eull-ting. ST ♀ IZAS. [6600659]
- nigrilonga.** Mongolia [PA].
Paroxya nigrilonga Dirlbek & Dirlbekova 1972[1153]: 2.—Mongolia. Bulgan: Unt, Lok. Nr. 21 [65 km. NW of Bulgan]. HT ♀ NMPC. **N. Comb.** [6600904]
- obscuripennis.** Russia (Siberia), Mongolia [PA].
Trypeta obscuripennis Loew 1850[3025]: 56.—Russia. Sibirien [Siberia]. LT ♂ ZMHU. Lectotype designation by inference of holotype by Korneyev 1990: 448. [6603049]
Campiglossa hebea Dirlbek & Dirlbekova 1971[1151]: 165.—Mongolia. Bulgan: Bulgan, Lok. Nr. 15-16. HT ♂ NMPC. [6600898]
- obsoleta.** Mexico (Veracruz) [NT].
Tephritis obsoleta Wulp 1900[5219]: 421.—Mexico. Veracruz: Orizaba. HT ♀ BMNH. Type data (Foote 1965: 245). **N. Comb.** [6604807]
- occidentalis.** Canada & USA (British Columbia & Alberta S to California & New Mexico) [NE].
Paroxya occidentalis Novak 1974[3671]: 32.—USA. Oregon: 5 mi. E of Boardman. HT ♂ USNM. **N. Comb.** [6603932]
- occultella.** China (Gansu) [PA].
Paroxya occultella Chen 1938[811]: 134.—China. se. Gansu: Koan-shan. HT ♀ IZAS. **N. Comb.** [6600676]
- ochracea.** cent. Europe, sw. Russia [PA].
Paroxya ochracea Hendel 1927[2108]: 156.—Russia. Astrakhan. T ♀ ZSZMH. **N. Comb.** [6602157]
- opacipennis.** USA (Oregon, California, Utah) [NE].
Tephritis opacipennis Foote 1960[1488]: 74.—USA. California: Modoc Co., Cedar Pass. HT ♂ USNM. **N. Comb.** [6601263]
- ophelia.** Mexico [NE].
Paroxya ophelia Hering 1944[2210]: 12.—Mexico. HT ♀ ZMHU. **N. Comb.** [6602630]
Paroxya ophelta Aczel 1950[14]: 288.—missp. *ophelia* Hering. [6605731]
- orientalis.** Sri Lanka, Vietnam, Indonesia (Java), Australia (Qld.) [OR, AU].
Tephritis orientalis Meijere 1908[3313]: 130.—Indonesia. Java: Semarang. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1988: 38 invalid. **N. Comb.** [6604903]

- Stylyla apiciclara* Hardy 1973[1942]: 326.—Vietnam. 18 km. N of Dalat, 1300 m. HT ♂ BBM. [6601611]
- ornalibera*. China (Nei Mongol) [PA].
- Paroxyna ornalibera* Wang 1990[4994]: 291.—China. Nei Mongol: Ulanqab L., Wuchuan B. HT ♀ IZAS. **N. Comb.** [6605022]
- pallidipennis*. USA (California, Utah, Colorado, Arizona, New Mexico) [NE].
- Tephritis pallidipennis* Cresson 1907[1009]: 104.—USA. Colorado: Maiton [error, Manitou], 6029 ft. LT ♂ ANSP. Lectotype designated by Novak 1974: 33. **N. Comb.** [6600826]
- paula*. Indonesia (Maluku), Papua New Guinea [AU].
- Paroxyna paula* Hering 1941[2194]: 64.—Papua New Guinea. West Sepik: Berlinhafen [Aitape], Sele0 [3°8'S 142°29'E]. HT ♀ MNM. **N. Comb.** [6602505]
- peringueyi*. Uganda, Kenya, South Africa [AF].
- Euribia peringueyi* Bezzi 1924[470]: 555.—South Africa. Cape: Cape Town. HT ♂ SAMCT. Sex of HT misstated by Bezzi (Munro 1957: 958). **N. Comb.** [6600435]
- perspicillata*. South Africa [AF].
- Campiglossa perspicillata* Bezzi 1918[456]: 38.—South Africa. Natal: Durban, Umbilo. HT ♀ BMNH. [6600306]
- petulans*. Kenya [AF].
- Paroxyna petulans* Munro 1957[3510]: 974.—Kenya. Mt. Elgon, Heath Zone, 10500-11500 ft. HT ♀ BMNH. **N. Comb.** [6603792]
- philippinensis*. Philippines (Luzon) [OR].
- Stylyla philippinensis* Hardy 1974[1943]: 248.—Philippines. Luzon, Mountain: 60 km. S of Bontoc, Abatan, Buguias. HT ♂ BBM. **N. Comb.** [6601659]
- plantaginis*. Coasts of North & Baltic Seas & Atlantic Ocean; saline areas of n., cent. & e. Europe E to Ukraine [PA].
- Tephritis plantaginis* Haliday 1833[1859]: 170.—Ireland. County Down, near Holywood, on sea coast. T A NMI. Described from at least female ST, probably both sexes. [6601443]
- Tephritis pura* Boheman 1864[546]: 84.—Sweden. Malmo. ST ♂ ♀ NRS. Type data (Foote, Blanc & Norrbom 1993: 406). [6600623]
- producta*. Britain & Finland to Mediterranean, Turkey & Central Asia [PA].
- Trypeta producta* Loew 1844[3020]: 399.—Turkey. Kleinasien [Asia Minor]; & Greece. Rhodus [Rhodes]; & Greek Is. ST ♂ ♀ ZMHU. Described from females or both sexes; ST of both sexes in ZMHU (B.Merz, pers. comm.). [6603026]
- Paroxyna confluens* Hering 1935[2160]: 173.—Germany. Brandenburg: Strausberg. ST ♂ ♀ BMNH. [6602222]
- Oxyna absinthii*: Becker 1908[374]: 144.—misid. See Merz 1992: 226. [6605425]
- Paroxyna tessellata*: Hendel 1927[2108]: 159.—misid. see White 1986: 150. [6605466]
- propria*. China (Gansu) [PA].
- Sinotephritis propria* Chen 1938[811]: 149.—China. se. Gansu: Mi-tching-ngai. HT ♂ IZAS. [6600683]
- pseudodiluta*. Kirghizia [PA].
- Campiglossa pseudodiluta* Korneyev 1990[2736]: 440.—Kirghizia. Engelchek-Too Range, mouth of Kaingdy R. HT ♂ UASK. [6602901]
- punctata*. Taiwan [OR].
- Tephritis punctata* Shiraki 1933[4432]: 424.—Taiwan. Musha or Kanko. HT ♀ NTU. **N. Comb.** [6604311]
- punctella*. Scandinavia, Germany, Switzerland, Ukraine [PA].
- Tephritis punctella* Fallen 1814[1382]: 172.—Sweden. Kristianstads: near Kivik, Beckaskog; or Skane, other places. LT ♂ NRS. Lectotype designated by Persson 1958: 115 (& see White 1986: 151), restricted type locality not stated. [6601245]
- Tephritis punctella* Fallen 1820[1384]: 13.—Sweden. Beckaskog, & “Pascuis aridis, ad montem Stenshufvud Scaniae”. ST ♂ ♀ NRS? Preocc. Fallen 1814. [6605172]
- pusilla*. China (Gansu, Hebei) [PA].
- Paroxyna pusilla* Chen 1938[811]: 142.—China. Hebei: Tien-eull-ling; Gansu: Ma-ho-shan. ST ♂ ♀ IZAS. **N. Comb.** [6600680]
- putrida*. Indonesia (Nusa Tenggara), New Guinea [OR, AU].
- Paroxyna putrida* Hering 1941[2192]: 39.—Indonesia. Nusa Tenggara: Lombok, Sembaloen. ST ♂ ♀ MLUH, DEI. [6602482]
- pygmaea*. Canada & USA (British Columbia & Saskatchewan, S to California & Colorado) [NE].
- Paroxyna pygmaea* Novak 1974[3671]: 33.—USA. Idaho: Craters of the Moon National Monument. HT ♂ CAS. Type data (Arnaud 1979: 331). **N. Comb.** [6603933]
- quadriguttata*. Russia (e. Siberia), Mongolia [PA].
- Paroxyna quadriguttata* Hendel 1927[2108]: 158.—Russia. Chitinskaya: near Tschita [Chita], “Piestschanka”. HT ♀ NMW. Type data (Hardy 1968: 120). [6602133]
- Aliniana aliena* Hering 1951[2214]: 12.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602652]
- Gonioxyna conopea* Dirlbek & Dirlbekova 1972[1153]: 3.—Mongolia. Ulaanbaatar, Lok. Nr. 1. HT ♂ NMPC. [6600905]
- Gonioxyna magniceps*: Chen 1938[811]: 116.—misid. [6600663]
- quelpartensis*. Korea [PA].
- Paroxyna quelpartensis* Kwon 1985[2802]: 96.—South Korea. Cheju: Mt. Hallasan. HT ♂ KUTK. **N. Comb.** [6602922]
- reticulata*. Madeira Is., Canary Is. [PA].
- Tephritis reticulata* Becker 1908[374]: 143.—Canary Is. Tenerife. LT ♂ ZMHU. Lectotype designated by Merz 1992: 224. [6600141]
- Acinia insularis* Wollaston 1858[5174]: 116.—Madeira Is. Madeira; & “the northern Dezerta”. ST A BMNH. [6604761]
- Tephritis occulta* Becker 1908[374]: 143.—Canary Is. Tenerife. HT ♂ ZMHU. [6600139]
- rufula*. China (Hebei) [PA].
- Paroxyna rufula* Chen 1938[811]: 133.—China. n. Hebei: Paita. HT ♀ IZAS. **N. Comb.** [6600674]
- sabroskyi*. Canada & USA (Yukon E to Manitoba, S to California & New Mexico) [NE].
- Paroxyna sabroskyi* Novak 1974[3671]: 35.—USA. Colorado: Pingree Park, 11000 ft. HT ♂ USNM. **N. Comb.** [6603934]
- sada*. Korea [PA].
- Paroxyna sada* Dirlbek & Dirlbekova 1974[1155]: 2.—North Korea. Kymgansang. HT ♀ Dirlbek. **N. Comb.** [6600908]
- salina*. Kenya, Tanzania [AF].
- Paroxyna salina* Munro 1951[3502]: 710.—Tanzania. Kilimanjaro, Shira Plateau, Camp 2, 12450 ft. HT ♂ SANC. **N. Comb.** [6603708]
- saltoria*. Kenya, Tanzania [AF].
- Paroxyna saltoria* Munro 1951[3502]: 711.—Tanzania. Kilimanjaro, Shira Plateau, Camp 2, 12450 ft. HT ♂ SANC. **N. Comb.** [6603709]
- scedelloides*. Kazakstan, Kirgizia, Uzbekistan, Mongolia [PA].
- Campiglossa scedelloides* Korneyev 1990[2736]: 444.—Kazakstan. Semipalatinsk: s. slope Mt. Zhalauly, Tarbagata Range. HT ♂ ZISP. [6602903]
- separabilis*. China [PA].
- Paroxyna separabilis* Hering 1941[2197]: 31.—China. Yunnan: “Alulaka-Rucken a.” Salween [Nu Jiang R.], 2900 m. HT ♂ NMW. **N. Comb.** [6602535]
- shensiana*. China (Shaanxi) [PA].
- Paroxyna shensiana* Chen 1938[811]: 139.—China. Shaanxi: Tsin-ling. HT ♀ IZAS. **N. Comb.** [6600678]

- Paroxyna shansiana* Wang 1990[4994]: 293.—missp. *shensiana* Chen. [6605348]
- shiraensis**. Tanzania [AF].
Paroxyna shiraensis Munro 1951[3502]: 712.—Tanzania. Kilimanjaro, Shira Plateau, Camp 2, 12450 ft. HT ♂ SANC. **N. Comb.** [6603710]
- siamensis**. Thailand [OR].
Stylia siamensis Hardy 1973[1942]: 329.—Thailand. Chiang Mai: near Chiang Mai, Doi Angka, 2436 m. HT ♂ BBM. **N. Comb.** [6601612]
- sigillata**. South Africa [AF].
Paroxyna sigillata Munro 1957[3510]: 964.—South Africa. Natal: Port Shepstone. HT ♂ SANC. **N. Comb.** [6603786]
- simplex**. China (Gansu) [PA].
Paroxyna simplex Chen 1938[811]: 130.—China. w. Gansu: Sin-long-shan. HT ♀ IZAS. **N. Comb.** [6600670]
- sinensis**. China [PA].
Campiglossa sinensis Chen 1938[811]: 123.—China. cent. Mongolia, Ma-hoany-yu. HT ♂ IZAS. [6600668]
- siphonina**. Ethiopia, Uganda, Kenya, Tanzania, Zimbabwe, South Africa [AF].
Ensina siphonina Bezzi 1918[456]: 33.—Kenya. Embu. HT ♀ BMNH. **N. Comb.** [6600302]
- snowi**. Canada & USA (British Columbia & Montana S to California & Colorado) [NE].
Paroxyna snowi Hering 1944[2210]: 8.—n. n. *obscuripennis* Snow 1894. **N. Comb.** [6602639]
Tephritis obscuripennis Snow 1894[4527]: 174.—USA. Oregon: Mt. Hood. LT ♂ UKaL. Preocc. Loew 1850. Lectotype designation by inference of holotype by Foote 1962: 176. [6604380]
- solidaginis**. England, Norway, Sweden, Switzerland, Serbia [PA].
Paroxyna solidaginis White 1986[5101]: 153.—England. Herefordshire: Haugh Wood. HT ♂ BMNH. [6604702]
- spenceri**. Vietnam [OR].
Stylia spenceri Hardy 1973[1942]: 330.—Vietnam. Mount Lang Bian, 1500-2000 m. HT ♂ BBM. **N. Comb.** [6601613]
- spinata**. Uganda, South Africa [AF].
Paroxyna spinata Munro 1957[3510]: 953.—South Africa. Natal: Kloof. HT ♂ SANC. **N. Comb.** [6603782]
- stenoptera**. Italy [PA].
Oxya stenoptera Loew 1862[3038]: 94.—Italy. Sicily. T ♂ ZMHU. **N. Comb.** [6603122]
- steyskali**. Canada & USA (British Columbia E to Wyoming S to California & New Mexico) [NE].
Paroxyna steyskali Novak 1974[3671]: 36.—USA. Oregon: Lake Co., 9 mi. SE of Fort Rock. HT ♂ USNM. **N. Comb.** [6603935]
- stigmosa**. Indonesia (Sumatra, Timor), Papua New Guinea [OR, AU].
Tephritis stigmosa Meijere 1916[3322]: 83.—Indonesia. Sumatra. LT ♂ ZMAN. Lectotype designated by Hardy 1969: 477. **N. Comb.** [6604943]
Paroxyna timorensis Hering 1940[2185]: 8.—Indonesia. Timor. ST ♂ ♀ ZSBS. [6602438]
- subochracea**. France [PA].
Paroxyna subochracea Seguy 1934[4346]: 144.—France. Somme: Ault. T ♀ MNHNP. **N. Comb.** [6604231]
- suboculata**. Ethiopia [AF].
Paroxyna suboculata Seguy 1939[4347]: 140.—Ethiopia. Sidamo: Mega. HT ♀ MNHNP? **N. Comb.** [6604236]
- taenipennis**. Peru [NT].
Paroxyna taenipennis Hering 1941[2202]: 162.—Peru. Cuzco: Cuzco. HT ♂ SMT. **N. Comb.** [6602571]
- tamerlan**. Uzbekistan [PA].
Paroxyna tamerlan Hering 1938[2177]: 247.—Uzbekistan. Tashkent. HT ♀ BMNH. **N. Comb.** [6602322]
- tenebrosa**. USA (Nevada, Utah, Colorado, New Mexico) [NE].
Tephritis tenebrosa Coquillett 1899[953]: 264.—USA. Colorado: Custer Co. HT ♂ USNM. **N. Comb.** [6600779]
- tessellata**. Europe to cent. & s. Russia & Caucasus, Afghanistan, China [PA].
Trypeta tessellata Loew 1844[3020]: 396.—Deutschland [Germany or Poland]. ST A ZMHU. Described from females or both sexes; ST apparently lost. [6603024]
Paroxyna tessellata Persson 1958[3797]: 115.—missp. *tessellata* Loew. [6605765]
Tephritis praecox: Efflatoun 1924[1292]: 108.—misid. [6605484]
- tolli**. Ukraine [PA].
Paroxyna tolli Hering 1937[2175]: 110.—Ukraine. “Podolien”, Wolczkow. ST ♂ ♀ BMNH. **N. Comb.** [6602287]
- transversa**. Australia (ACT, NSW, Vic.) [AU].
Campiglossa transversa Hardy & Drew 1996[1972]: 223.—Australia. Victoria: Mt. Baw Baw, nr. Tanjilbren. HT ♂ ANIC. [6605906]
- trassaerti**. China (Hebei, Shanxi) [PA].
Paroxyna trassaerti Chen 1938[811]: 129.—China. Hebei: Tielingssu; Shanxi: Tsi-li-yu [Tsiliyu], 1600-2100 m. ST ♀ IZAS. [6600669]
- trinotata**. Guatemala [NT].
Gonioxya trinotata Foote 1979[1512]: 168.—Guatemala. 11.5 km. NW San Marcos (15°1'N 91°48'W), 3000 m. HT ♂ USNM. **N. Comb.** [6601285]
- trochlina**. China (Nei Mongol) [PA].
Campiglossa trochlina Wang 1990[4994]: 297.—China. Nei Mongol: Xilin Gol L., Xilin Hot T. HT ♀ IZAS. [6605159]
- turneri**. Australia (WA) [AU].
Campiglossa turneri Hardy & Drew 1996[1972]: 226.—Australia. Western Australia: Dongarra. HT ♂ BMNH. [6605907]
- umbrata**. Mexico (Jalisco) [NE].
Tephritis umbrata Cresson 1907[1009]: 102.—Mexico. Jalisco: Guadalajara. HT ♂ ANSP. **N. Comb.** [6600824]
- umbratica**. South Africa [AF].
Paroxyna umbratica Munro 1957[3510]: 971.—South Africa. Transvaal: Pretoria, Rietvlei. HT ♂ SANC. **N. Comb.** [6603789]
- undata**. China (Shanxi) [PA].
Paroxyna undata Chen 1938[811]: 133.—China. Shanxi: Mao-eull-ting. HT ♂ IZAS. **N. Comb.** [6600673]
- vaga**. Australia (Qld.) [AU].
Campiglossa vaga Hardy & Drew 1996[1972]: 228.—Australia. Queensland: 27 km. NW of Tambo. HT ♂ ANIC. [6605908]
- varia**. China (Shanxi) [PA].
Paroxyna varia Chen 1938[811]: 131.—China. s. Shanxi: Ta-ping-ti. ST ♂ ♀ IZAS. **N. Comb.** [6600671]
- variabilis**. Canada & USA (British Columbia & Montana S to California & Colorado) [NE].
Tephritis variabilis Doane 1899[1189]: 188.—USA. Washington: Pullman. LT ♀ WSU. Lectotype designated by Foote 1962: 178; Lectotype designated by Foote 1966: 125 invalid (see Zack 1984:33). **N. Comb.** [6600927]
- venezolensis**. Venezuela [NT].
Paroxyna venezolensis Hering 1939[2182]: 184.—Venezuela. HT ♀ NMW. **N. Comb.** [6602418]
- venusta**. Mongolia [PA].
Campiglossa venusta Dirlbek & Dirlbekova 1971[1151]: 166.—Mongolia. Hovsgol: Tarialang [Tarialan], Lok. Nr. 24 [btw. Bulgan & Moron]. HT ♂ NMPC. [6600899]
- virgata**. China (Heilongjiang) [PA].
Paroxyna virgata Hering 1940[2189]: 13.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. **N. Comb.** [6602444]

whitei. Australia (Tas.) [AU].

Campiglossa whitei Hardy & Drew 1996[1972]: 229.—Australia. Tasmania: Bagdad. HT ♂ BMNH. [6605909]

zavattarii. Ethiopia [AF].

Paroxyena zavattarii Seguy 1939[4347]: 140.—Ethiopia. Borana, Javello. HT ♀ MNHNP? N. Comb. [6604237]

Genus *CAPITITES*

Capitites Foote & Freidberg 1981[1524]: 29, *Trypeta ramulosa* Loew (OD). [6600220]

REF.—Bezzi 1924[472]: 140 ((*Trypanea*) key to 3 spp. [AF]).

albicans. South Africa [AF].

Trypanea albicans Munro 1935[3475]: 43.—South Africa. Natal: Durban, Umbilo. ST ♂ ♀ SANC. [6603564]

aurea. Ethiopia, Tanzania, Malawi, Zimbabwe [AF].

Trypanea aurea Bezzi 1924[472]: 144.—Malawi. Cholo. ST ♂ ♀ BMNH. [6600497]

dentiens. Zimbabwe, South Africa [AF].

Trypanea dentiens Bezzi 1924[470]: 565.—South Africa. Transvaal: Pretoria. ST ♂ SANC. [6600443]

dicomala. South Africa [AF].

Trypanea dicomala Munro 1935[3475]: 46.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6603566]

goliath. South Africa [AF].

Trypanea goliath Bezzi 1924[472]: 141.—Arabia [error, South Africa. Transvaal: Zoutpansberg, Haenertzberg]. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 156. [6600493]

Trypanea haemorrhoea Bezzi 1926[476]: 299.—South Africa. Transvaal: Pretoria. HT ♂ SANC. [6600530]

kloofensis. South Africa [AF].

Trypanea goliath var. *kloofensis* Munro 1935[3475]: 45.—South Africa. Natal: Kloof. ST ♂ ♀ SANC. [6603565]

ramulosa. s. Europe, North Africa, Syria, Israel, Canary Is. [PA].

Trypeta ramulosa Loew 1844[3020]: 407.—Portugal. HT ♀ ZMHU. [6603030]

Urophora radiata Macquart 1849[3083]: 496.—Algeria. Kouba. HT ♀ MNHNP. [6605185]

Urellia perfecta Becker 1908[374]: 140.—Canary Is. Tenerife: Guimar. HT ♀ ZMHU. [6600133]

Genus *CAPPARIMYIA*

Capparimya Bezzi 1920[463]: 232, *Ceratitidis savastani* Martelli (OD). [6600221]

REF.—Hancock 1987[1892]: 50 (key to 2 spp. [AF]).

bipustulata. Chad, Zambia, Malawi, Zimbabwe, South Africa [AF].

Pardalaspis bipustulata Bezzi 1923[466]: 528.—Chad. Mandjaffa, banks of lower Chari R., mission Chari-Tchad. HT ♂ MNHNP. [6600366]

Pardalaspis bipustulata Bezzi 1924[469]: 104.—Malawi. Ruo, 200 ft. ST ♀ BMNH. Preocc. Bezzi 1923: 528. [6605067]

melanaspis. Zimbabwe, Namibia, South Africa [AF].

Pardalaspis melanaspis Bezzi 1920[463]: 229.—South Africa. Cape: Grahamstown. ST ♂ ♀ BMNH. [6600337]

savastani. France, Italy, Tunisia, Israel, Pakistan [PA, OR].

Ceratitidis savastani Martelli 1911[3192]: 20.—Italy. Sicily: Acireale. ST ♂ ♀ SAFAI? [6603381]

Genus *CARPOMYIA*

Carpomyia Costa 1854[972]: 87, *vesuviana* Costa (MO). Designation of *Trypeta signata* Meigen by Rondani 1870: 6 invalid, not an originally included species. [6600113]

Goniglossum Rondani 1856[4195]: 110, *Trypeta wiedemanni* Meigen (OD). [6600248]

Myiopardalis Bezzi 1910[445]: 10, *Carpomyia pardalina* Bigot (OD). [6600427]

Carpomyia Rondani 1870[4205]: 22, missp. *Carpomyia* Costa. [6600419]

Gonyglossum Efflatoun 1924[1292]: 19, missp. *Goniglossum* Rondani. [6600910]

Corpomyia Foote 1984[1517]: 76, missp. *Carpomyia* Costa. Attributed to “authors”. [6600945]

Gonioglossum Foote 1984[1517]: 90, missp. *Goniglossum* Rondani. Attributed to “authors”. [6600959]

REFS—Hendel 1927[2107]: 91 ((*Carpomyia*) key to 3 spp. [PA]); Kandybina 1965[2569]: 390 ((*Carpomyia*) key to larvae of 4 spp. [PA]); Richter 1970[4087]: 148 ((*Carpomyia*) key to 2 spp. [PA: e. Europe]); Kandybina 1977[2576]: 111 ((*Carpomyia*) key to larvae of 4 spp. [PA]); Freidberg & Kugler 1989[1571]: 176 (key to 2 spp. [PA: Israel & Sinai]); White & Elson-Harris 1992[5111]: 92, 122 (keys to adults & larvae of 2 spp. [PA, OR]).

incompleta. s. Europe, Israel, Iraq, Egypt, Sudan, Ethiopia [PA, AF].

Trypeta incompleta Becker 1903[369]: 135.—Egypt. Suez. HT ♂ ZMHU. [6600111]

pardalina. Egypt & Caucasus to w. India [PA, OR].

Carpomyia pardalina Bigot 1891[508]: 51.—Belouchistan [Iran or Pakistan. Baluchistan]. ST ♂ ♀ UMO. [6600559]

Carpomyia caucasica Zaitzev 1919[5276]: 64.—East Transcaucasia [Azerbaijan?], Dzhevanshir region, Areshsk territory, Elisavetn region & North Mugan. ST ♂ ♀ ZIL? [6605904]

Myiopardalis carpalina Fletcher 1920[1468]: 45.—missp. *pardalina* Bigot. [6601256]

schineri. cent. Europe to Kazakhstan & Israel [PA].

Trypeta schineri Loew 1856[3029]: 52.—Austria. T ♂ ZMHU. [6603055]

vesuviana. Italy, Bosnia, Caucasus, Central Asia, Pakistan, India, Thailand [PA, OR].

Carpomyia vesuviana Costa 1854[972]: 87.—Italy. Sicily: agro Neapolitano [Naples countryside]. ST A IZUSN? [6600818]

Orellia buchichii Frauenfeld 1867[1545]: 500.—Lesina [Bosnia. Hvar]. HT ♀ NMW. [6601316]

Carpomyia zizyphae Agarwal & Kapoor 1985[43]: 60.—India. Punjab: Ludhiana Distr., Seikhupura. HT ♀ INPC? [6600068]

Carpomyia buchichii Rondani 1870[4205]: 23.—missp. *buchichii* Frauenfeld. [6605470]

wiedemanni. Europe, except Scandinavia, Mediterranean & Balkans; Israel [PA].

Trypeta wiedemanni Meigen 1826[3306]: 320.—England; Austria. ST ♂ ♀ MNHNP. NMW ST from Megerle probably destroyed (Pont 1986). [6603431]

Tephritis bryoniae Meigen 1826[3306]: 321.—*Nomen nudum*. Austria. HT A NMW. Published in synonymy, not subsequently validated by usage. Attributed to Megerle; HT probably destroyed (Pont 1986). [6603433]

Goniglossum wiedemanni Rondani 1856[4195]: 110.—missp. *wiedemanni* Meigen. [6605792]

Goniglossum wiedemanni Foote 1984[1517]: 90.—missp. *wiedemanni* Meigen. Attributed to “authors”. [6605771]

Genus CARPOPHTHORACIDIA

Carpophthoracidia Shiraki 1968[4435]: 31, *matsumotoi* Shiraki (OD). [6600420]
Satacola Ito 1956[2407]: 25, *Nomen nudum*. [6600803]

matsumotoi. Japan (Kyushu, Ryukyu Is.), China (Guangdong) [PA, OR].

Carpophthoracidia matsumotoi Shiraki 1968[4435]: 32.—Japan. Ryukyu Is.: Okinawa. HT ♀ NIAS. [6604342]
Satacola pacalis Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604975]

Genus CARPOPHTHORELLA

Carpophthorella Hendel 1914[2102]: 80, *magnifica* Hendel (OD). [6600543]
Carpophthorella Hardy 1974[1943]: 155, missp. *Carpophthorella* Hendel. [6601015]

REFS—Bezzi 1926[474]: 260 (key to 4 spp. [OR]); Malloch 1939[3135]: 263 (key to 2 spp. [OR, AU]); Hardy 1988[1964]: 88 (key to 5 spp. [OR, AU]).

bivittata. Malaysia (Sarawak, Sabah) [OR].

Carpophthorella bivittata Hardy 1988[1964]: 89.—Malaysia. Sabah: 19 km. N of Kalabakan, forest camp, 60 m. HT ♀ BBM. [6601852]

capillata. Philippines, Borneo [OR].

Gastrozona capillata Bezzi 1914[450]: 324.—Philippines. Luzon, Laguna: Los Banos. ST ♀ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM. [6600246]

luteiseta. Philippines [OR].

Gastrozona luteiseta Bezzi 1914[450]: 325.—Philippines. Luzon, Laguna: Los Banos. ST ♂ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM. [6600247]

magnifica. Taiwan [OR].

Carpophthorella magnifica Hendel 1914[2102]: 80.—Formosa [Taiwan]. T A MNM. [6601929]

Carpophthorella magnifica Hendel 1915[2105]: 449.—Taiwan. Kankau. ST ♂ ♀ MNM. Preocc. Hendel 1914. [6602093]

nigrifascia. Indonesia (Sumatra) & Malaysia (Sarawak) E to Solomon Is. & Australia (Qld.) [OR, AU].

Trypeta nigrifascia Walker 1860[4966]: 158.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 218. [6604629]

Trypeta retorta Walker 1861[4972]: 16.—Indonesia. Maluku: Gilolo [Djailolo]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 220. [6604656]

Gastrozona bifasciata Meijere 1916[3321]: 48.—Indonesia. Sumatra: Simalur I., Labuan Badjau. HT ♀ ZMAN. Type data (Hardy 1988: 90). [6604941]

Gastrozona albiscutellata Enderlein 1920[1330]: 354.—Indonesia. Sumatra: Padang, “Bungus-Bucht”. HT ♀ ZMHU. Type data (Hardy 1988: 90). [6601192]

Carpophthorella setifrons Malloch 1939[3135]: 263.—Solomon Is. Guadalcanal. HT ♀ BMNH. [6603330]

semipennata. Burma [OR].

Carpophthorella semipennata Hering 1938[2181]: 9.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602396]

Genus CARPOPHTHOROMYIA

Carpophthoromyia Austen 1910[239]: 71, *Musca vittata* Fabricius (OD). [6600114]

Carpophthoromyia Hardy 1977[1946]: 91, missp. *Carpophthoromyia* Austin. Attributed to “authors”. [6600947]

Carpophthoromyia Hardy 1977[1946]: 91, missp. *Carpophthoromyia* Austin. Attributed to “authors”. [6600946]

Carpophthoromyia Hardy 1977[1946]: 91, missp. *Carpophthoromyia* Austin. Attributed to “authors”. [6600948]

REFS—Bezzi 1924[469]: 95 (key to 12 spp. [AF]); Bezzi 1924[470]: 474 (key to 2 spp. [AF: South Africa]); Hancock 1987[1892]: 55 (key to 3 spp. [AF: Zimbabwe]).

amoena. Cameroon, Zaire [AF].

Carpophthoromyia amoena Enderlein 1920[1330]: 356.—Cameroon. Southwest: Buea. HT ♀ ZMHU. [6601195]

angusticeps. Chad [AF].

Carpophthoromyia angusticeps Bezzi 1923[466]: 525.—Chad. Dar Banda, Ndelle, Mission Chari-Tchad. HT ♀ MNHNP. [6600364]

Carpophthoromyia angusticeps Bezzi 1924[469]: 97.—Central Africa [Chad. Dar Banda, Ndelle]. T A MNHNP. Preocc. Bezzi 1923: 525. [6605064]

dimidiata. Kenya, Zimbabwe, South Africa [AF].

Carpophthoromyia dimidiata Bezzi 1924[470]: 474.—South Africa. Natal: Durban. HT ♀ SAMCT. [6600385]

litterata. South Africa [AF].

Trirhithrum litteratum Munro 1933[3464]: 33.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603509]

nigrbasis. Equatorial Guinea [AF].

Ceratitits nigrbasis Enderlein 1920[1330]: 346.—Equatorial Guinea. Uelleburg. HT ♀ ZMHU. [6601183]

procera. Cameroon, Equatorial Guinea [AF].

Ceratitits procera Enderlein 1920[1330]: 345.—Cameroon. Lolodorf; Johann-Albrechtshoehe; Equatorial Guinea. Uelleburg, Benito region. ST ♂ ♀ ZMHU. [6601181]

pseudotrítea. Ghana, Nigeria, Equatorial Guinea, Uganda [AF].

Carpophthoromyia pseudotrítea Bezzi 1918[455]: 225.—Ghana. Aburi. ST ♂ ♀ BMNH. [6600280]

scutellata. Sierra Leone; Senegal? [AF].

Trypeta scutellata Walker 1853[4959]: 384.—Senegal? LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 663. [6604596]

speciosa. Madagascar [AF].

Carpophthoromyia speciosa Hancock 1984[1884]: 291.—Madagascar. Toamasina: Moramanga district, Sandrangato. HT ♂ SANC. [6601450]

superba. Malawi [AF].

Carpophthoromyia superba Bezzi 1918[455]: 226.—Malawi. Limbe, Chiromo, Ruo R. HT ♀ BMNH. [6600281]

tessmanni. Equatorial Guinea, Zaire [AF].

Ceratitits tessmanni Enderlein 1920[1330]: 345.—Equatorial Guinea. Uelleburg; & Nkolentangan. ST ♂ ♀ ZMHU. [6601182]

trítea. Sierra Leone, Ivory Coast, Nigeria [AF].

Trypeta trítea Walker 1849[4957]: 1034.—Sierra Leone. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 663 (assumes Walker misstated sex of ST). [6604575]

vittata. Senegal, Mozambique, Zimbabwe [AF].

Musca vittata Fabricius 1794[1377]: 355.—Guinea [“Danish Guinea”]. T A UZMC. ST apparently lost, not in UZMC (Zimsen 1964: 495). [6601216]

Genus CECIDOCHARELLA

Cecidocharella Hendel 1936[2118]: 74, *elegans* Hendel (MO). [6600010]

REFS—Aczel 1953[24]: 114 (revision of 2 spp. [NT]); Bush & Huettel 1970[690]: 89 (key to 3 spp. [NE, NT]).

borrichia. USA (coastal Texas) [NE].

Cecidocharella borrichia Bush & Huettel 1970[690]: 89.—USA. Texas: Cameron Co., Port Isabel. HT ♂ USNM. [6600648]

elegans. Brazil (Rio de Janeiro, Parana) [NT].

Cecidocharella elegans Hendel 1936[2118]: 75.—Brazil. Rio de Janeiro: Serra do Itatiaia, s. side, 2000–2700 m. LT ♀ NMW. Lectotype designated by Hardy 1968: 110. [6602205]

Cecidocharella ogloblini Aczel 1953[24]: 118.—*Nomen nudum*. T ♀ IPV? Attributed to Blanchard. [6605799]

tucumana. Argentina (Tucuman) [NT].

Cecidocharella tucumana Aczel 1953[24]: 118.—Argentina. Tucuman: Tafi del Valle. HT ♂ IML. [6600018]

Genus *CECIDOCHARES*

Cecidochares Bezzi 1910[445]: 22, *Trypeta nigerrima* Loew (OD) = *connexa* Macquart. Type species misidentified, nominal species here recognized as type. [6600011]

Eucecidochares Bezzi & Tavares 1916[480]: 157, *Urophora connexa* Macquart (OD). Proposed as a subgenus. [6600012]

Costalimaia Hering 1947[2213]: 4, *Procecidochares fluminensis* Lima (OD). [6600013]

REFS—Bezzi & Tavares 1916[480]: 159 (key to 6 spp. [NT]); Hering 1941[2202]: 146 (*Eucecidochares*) key to 2 spp. [NT: Peru]; Aczel 1953[24]: 126 (key to 12 spp. [NT]).

braziliensis. Brazil (Sao Paulo) [NT].

Cecidochares braziliensis Aczel 1953[24]: 130.—Brazil. Sao Paulo: Campo do Jordao. HT ♂ USP. [6600020]

caliginosa. USA (New Mexico, Texas), Mexico (Mexico) [NE].

Procecidocharoides caliginosa Foote 1960[1492]: 674.—USA. New Mexico: Socorro Co., Magdalena Mts. HT ♀ CAS. Type data (Arnaud 1979: 331). **N. Comb.** [6601274]

connexa. Venezuela, Argentina, Brazil [NT].

Urophora connexa Macquart 1848[3081]: 224.—Brazil. ST ♂ ♀ UMO. [6603236]

Trypeta nigerrima Loew 1862[3036]: 219.—Brazil. T ♀ NMW. [6603110]

Oedaspis leucotricha Schiner 1868[4296]: 266.—South America [Venezuela]. LT ♂ NMW. Lectotype designated by Hardy 1968: 137. [6604182]

delta. Ecuador, Peru, Chile [NT].

Procecidochares delta Hendel 1914[2103]: 43.—Peru. Cuzco, 3600 m.; & Mamara. ST ♂ ♀ SMT, NMW. [6602002]

eupatorii. Bolivia, Argentina [NT].

Acidia eupatorii Kieffer & Jorgensen 1910[2670]: 387.—Argentina. Mendoza: cordilleras. ST ♂ ♀ Kieffer (destroyed). [6602870]

fluminensis. Mexico (Veracruz), Guatemala, Costa Rica, Panama, Venezuela, Guyana, Trinidad, Brazil (Amapa, Roraima, Rio de Janeiro, Sao Paulo) [NT].

Procecidochares fluminensis Lima 1934[2956]: 124.—Brazil. Rio de Janeiro: Angra dos Reis; Paineiras; & Pinheiro. ST ♀ IOC, ENA. [6602929]

frauenfeldi. Brazil (Rio de Janeiro) [NT].

Oedaspis frauenfeldi Schiner 1868[4296]: 266.—Brazil. Rio de Janeiro: Petropolis. LT ♀ NMW. Lectotype designated by Hardy 1968: 136. [6604181]

ianthina. Argentina (Tucuman) [NT].

Cecidochares ianthina Aczel 1953[24]: 142.—Argentina. Tucuman: Lacavera. HT ♂ IML. [6600021]

latigenis. Bolivia [NT].

Cecidochares latigenis Hendel 1914[2103]: 41.—Bolivia. La Paz: Mapiiri, Lorenzopata. HT ♂ SMT. [6601999]

quinquefasciata. Peru, Bolivia [NT].

Procecidochares quinquefasciata Hendel 1914[2103]: 43.—Peru. Cuzco: Cuzco, 3600 m.; & Junin: La Oroya, 4000 m. ST ♂ ♀ SMT, NMW. [6602001]

quinquevittata. Ecuador [NT].

Cecidochares quinquevittata Norrbom 1997[This publication].—n. n. *quinquefasciata* Becker 1919. **N. Name** [6605423]

Oedaspis quinquefasciata Becker 1919[379]: 192.—Ecuador. Danas; & Casitagua. ST ♂ ♀ MNHNP. Preocc. Hendel 1914. [6600153]

rufescens. Brazil [NT].

Cecidochares rufescens Bezzi 1913[449]: 155.—Brazil. Sao Paulo. ST ♂ ♀ MCSNM. Also possibly ST in USP. [6600243]

Cecidochares nigrimana Aczel 1953[24]: 188.—missp. *nigerrima* Loew. [6605524]

Cecidochares nigerrima: Bezzi 1910[445]: 23.—misid. [6605050]

violacea. Argentina (Cordoba) [NT].

Cecidochares violacea Aczel 1953[24]: 145.—Argentina. Cordoba: Enredadera. HT ♀ IPV. Attributed to Blanchard. [6600022]

Genus *CELIDODACUS*

Celidodacus Hendel 1914[2102]: 75, *apicalis* Hendel (OD) = *obnubila* Karsch. [6600102]

REFS—Bezzi 1924[469]: 94 (key to 6 spp. (obsolete) [AF]); Hering 1956[2228]: 264 (key to 8 spp. (obsolete) [AF]); Hancock 1986[1890]: 298 (key to 4 spp. [AF]).

coloniarium. widespread w. & e. Africa, Congo basin, Zimbabwe [AF].

Acidia coloniarium Speiser 1915[4563]: 102.—Cameroon. Southwest: Tiko, nr. Victoria [Limbe]; Tanzania. Sigitale. ST ♀ Unknown. [6604386]

Conradtina conjuncta Enderlein 1920[1330]: 344.—Equatorial Guinea. Nkolentangan. HT ♂ ZMHU. [6601180]

Celidodacus coloniarium ssp. *mendax* Hering 1940[2185]: 1.—Tanzania. Manow. ST ♂ BMNH. [6602429]

madagascariensis. Madagascar [AF].

Celidodacus madagascariensis Hering 1956[2228]: 264.—Madagascar. Hera, Ankazoabo. HT ♂ ISTM. HT now in MNHNP. [6602735]

obnubilis. Nigeria, Zaire & Kenya S to Angola, Zimbabwe & Malawi [AF].

Acidia obnubila Karsch 1887[2618]: 6.—Angola. Pungo Andongo. HT A ZMHU. [6602858]

Celidodacus apicalis Hendel 1914[2102]: 75.—s. Nigeria. T A NMW? [6601922]

Conradtina fenestrata Enderlein 1920[1330]: 343.—Equatorial Guinea. Uelleburg. HT ♂ ZMHU. [6601179]

Celidodacus fenestratus var. *oculatus* Bezzi 1924[468]: 13.—Zaire. Maluku. HT ♂ MRAC. [6600515]

Celidodacus obnubilis var. *ornatus* Bezzi 1924[469]: 94.—Tanzania. Iringa: Ukami [8°30'S 35°44'E]. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 135. [6600468]

zambeziensis. Zimbabwe [AF].

Celidodacus zambeziensis Hancock 1986[1890]: 299.—Zimbabwe. Sapi/Zambezi confluence, Sapi C.H.A., 15°12'S 29°35'E. HT ♂ NMBZ. [6601481]

Genus *CELIDOSPHENELLA*

Celidosphenella Hendel 1914[2102]: 86, *maculata* Hendel (OD). [6600014]

Melanotrypana Hering 1944[2210]: 14, *Acanthiophilus benoisti* Seguy (OD). [6600045]

Celidosphenella Hendel 1914[2103]: 48, *maculata* Hendel (OD). Preocc. Hendel 1914: 86. [6600770]

REF.—Aczel 1953[22]: 276 ((*Trupanea*) key to 4 spp. (as *diespasmene* group) [NT]).

bella. n. Chile [NT].

Acinia bella Blanchard 1852[525]: 460.—Chile. cordilleras of the north. T A MNHNP. 1 female ST in MNHNP. N. Comb. [6600577]

benoisti. Ecuador [NT].

Acanthiophilus benoisti Seguy 1933[4343]: 256.—Ecuador. El Napo. T ♂ MNHNP. [6604227]

diespasmene. Chile, Argentina (Chubut, Rio Negro, Neuquen) [NT].

Tephritis diespasmene Schiner 1868[4296]: 271.—Chile. ST ♀ NMW. Type data (Hardy 1968: 142). [6604190]

Trypanea birabeni Havrylenko & Winterhalter 1949[2038]: 42.—*Nomen nudum*. Attributed to Blanchard; see Aczel 1953: 281. [6605502]

Trypanea diespasmene Aczel 1950[14]: 302.—missp. *diespasmene* Schiner. [6605732]

Trypanea diespasmene Aczel 1950[14]: 302.—missp. *diespasmene* Schiner. [6605733]

maculata. Chile [NT].

Celidosphenella maculata Hendel 1914[2102]: 86.—Chile. T A SMT. [6602059]

Celidosphenella maculata Hendel 1914[2103]: 48.—Chile. Magallanes: Punta Arenas. HT ♀ SMT. Preocc. Hendel 1914: 86. [6602009]

poecila. Chile [NT].

Sphenella poecila Schiner 1868[4296]: 268.—Chile. HT ♂ NMW. Type data (Hardy 1968: 137). [6604186]

Celidosphenella poecilla Stuardo 1946[4705]: 133.—missp. *poecila* Schiner. [6605632]

simulata. Argentina (Rio Negro) [NT].

Trypanea simulata Malloch 1933[3130]: 295.—Argentina. Rio Negro: L. Gutierrez. HT ♂ BMNH. [6603298]

stonei. Chile (Llanquihue, Los Lagos), Argentina (Rio Negro) [NT].

Trypanea stonei Stuardo 1946[4705]: 136.—n. n. *diversa* Malloch 1933. [6604504]

Trypanea diversa Malloch 1933[3130]: 296.—Chile. Los Lagos: Chiloe I., Puntra. HT ♂ BMNH. Preocc. Wiedemann 1830. [6603299]

vidua. Chile [NT].

Trypanea vidua Hering 1942[2207]: 30.—Chile. “Mittel-Chile”, Cortaderal. HT ♀ ZMHU. [6602621]

Genus *CEPHALOPHYSA*

Cephalophysa Hering 1940[2189]: 6, *Platyparea terebratula* Portschinsky (OD). [6600224]

terebratula. e. Russia [PA].

Platyparea terebratula Portschinsky 1892[3876]: 216.—Russia. Amur, Wladiwostok [Primorskiy: Vladivostok]. ST ♂ ♀ ZISP. [6604002]

Genus *CERATITELLA*

Ceratitella Malloch 1939[3137]: 452, *Ceratititis loranthi* Froggatt (OD). [6600568]

REFS.—Hardy 1967[1936]: 130 (revision of 4 spp. [OR, AU]); Hardy 1987[1963]: 264 (key to 4 spp. [OR, AU]); Hancock & Drew 1994[1242]: 873 (key to 3 spp. [OR]); Permkam & Hancock 1995[3794]: 1330 (key to 8 spp. [OR, AU]).

amyemae. Australia (NT, Qld.) [PA].

Ceratitella amyemae Permkam & Hancock 1995[3794]: 1330.—Australia. Northern Territory: 20 km. S Ti-tree (22°08'S, 133°16'E). HT ♂ QMBA. [6605412]

bifasciata. Australia (Qld., NSW) [AU].

Ceratitella bifasciata Hardy 1967[1936]: 133.—Australia. Queensland: Ravensbourne Nat. Park. HT ♀ QMBA. [6601510]

loranthi. Australia (WA, NT, NSW, ACT, SA, Vic.) [AU].

Ceratititis loranthi Froggatt 1911[1621]: 863.—Australia. Western Australia: Perth. ST A ANIC. [6601387]

nitida. Thailand [OR].

Paratrirhithrum nitidum Hardy 1973[1942]: 263.—Thailand. Chiang Mai: Fang, 500 m. HT ♀ BBM. [6601595]

recondita. Australia (NSW, Qld.) [AU].

Ceratitella recondita Permkam & Hancock 1995[3794]: 1334.—Australia. Queensland: Stanthorpe (28°37'S, 151°52'E). HT ♀ QMBA. [6605421]

sobrina. China (Sichuan), Japan (Ryukyu Is.) [PA, OR].

Ceratititis sobrina Zia 1937[5308]: 177.—China. Szechuan [Sichuan]. HT ♂ IZAS. [6604837]

Paratrirhithrum amamioshimaensis Shiraki 1968[4435]: 54.—Japan. Ryukyu Is.: Amami-Oshima I. HT ♂ USNM. [6604349]

tomentosa. Pakistan, Indonesia (Java, Flores I.) [OR, AU].

Carpophthoromyia tomentosa Meijere 1914[3319]: 207.—Indonesia. Java: Semarang. ST ♂ ♀ ZMAN, MZB. Inference of HT by Hardy 1987: 266 invalid. [6604928]

Ceratitella asiatica Hardy 1967[1936]: 130.—Pakistan. Kahuta. HT ♂ BMNH. [6601509]

unifasciata. Australia (Qld., NSW) [AU].

Ceratitella unifasciata Hardy 1967[1936]: 137.—Australia. Queensland: Eungella Nat. Park, via Mackay. HT ♂ QMBA. [6601511]

Genus *CERATITIS*

REFS.—Bezzi 1924[469]: 98 (key to 2 spp. [AF]); Hancock 1987[1892]: 48 (keys to 5 subgenera & 19 spp. [AF: Zimbabwe]); Hancock 1984[1885]: 280 (key 9 spp. [AF: Malagasy subregion]); White & Elson-Harris 1992[5111]: 94, 122 (keys to adults of 11 spp. & larvae of 7 spp. of economic importance [AF]).

Subgenus *CERATALASPIS*

Ceratalaspis Hancock 1984[1884]: 279, *Trypeta cosyra* Walker (OD). Proposed as a subgenus. [6600631]

REFS.—Munro 1935[3472]: 302 (key to 12 spp. [AF]); Hancock 1987[1892]: 54 (key to 8 spp. [AF: Zimbabwe]).

aliena. Ethiopia, Malawi, Zimbabwe, South Africa [AF].

Pardalaspis aliena Bezzi 1920[463]: 231.—South Africa. Cape: Grahamstown. HT ♀ BMNH. [6600338]

andranotobaka. Madagascar [AF].

Ceratititis andranotobaka Hancock 1984[1884]: 285.—Madagascar. Antananarivo: Ambatolampy district, Andranotobaka, 1400 m. HT ♂ SANC. [6601448]

argenteobrunnea. Uganda [AF].

Ceratititis argenteobrunnea Munro 1935[3472]: 312.—Uganda. HT ♀ BMNH. [6603553]

- brucei**. Uganda [AF].
Ceratitits brucei Munro 1935[3472]: 308.—Uganda. HT ♀ BMNH. [6603549]
- connexa**. Zimbabwe, South Africa [AF].
Hoplotophomyia connexa Bezzi 1926[476]: 283.—South Africa. Transvaal: Barberton, Stentor. HT A SANC. Described from both sexes, but sex of HT not stated. [6600519]
- contramedia**. Kenya [AF].
Pardalaspis contramedia Munro 1937[3480]: 2.—Kenya. Nairobi. HT ♂ BMNH. [6603583]
- cosyra**. Zaire & Tanzania S to South Africa, Madagascar [AF].
Trypeta cosyra Walker 1849[4957]: 1042.—Congo [Congo or Zaire]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 660. [6604582]
Pardalaspis parinari Hering 1935[2162]: 156.—Zaire. Shaba: Elisabethville [Lubumbashi]. ST ♂ ♀ BMNH. ST at ZSZMH destroyed. [6602218]
- discussa**. Malawi, Zimbabwe, Mozambique, South Africa [AF].
Ceratitits discussa Munro 1935[3472]: 307.—South Africa. Nelspruit; & Valencia. ST ♂ ♀ SANC. [6603548]
- divaricata**. Zimbabwe, South Africa [AF].
Hoplotophomyia divaricata Munro 1933[3464]: 31.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603507]
- dumeti**. Ethiopia, South Africa [AF].
Ceratitits dumeti Munro 1933[3464]: 35.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603511]
- epixantha**. Tanzania [AF].
Pardalaspis epixantha Hering 1941[2195]: 69.—Tanzania. Kimamba. HT ♂ MNM. [6602543]
- giffardi**. Senegal, Benin, Guinea, Nigeria, Uganda [AF].
Ceratitits giffardi Bezzi 1912[446]: 8.—Senegal. Dakar. ST ♂ ♀ MCSNM. [6600190]
- grahami**. Ghana [AF].
Ceratitits grahami Munro 1935[3472]: 303.—Ghana. Ashanti: Obuasi. HT ♂ BMNH. [6603546]
- guttiformis**. Ghana [AF].
Ceratitits guttiformis Munro 1935[3472]: 309.—Ghana. Ashanti: Obuasi. HT ♀ BMNH. [6603550]
- lentigera**. Liberia [AF].
Ceratitits lentigera Munro 1933[3465]: 8.—Liberia. Suahkoko. ST ♂ ♀ AMNH. [6603501]
- lineata**. Cameroon [AF].
Pardalaspis lineata Hering 1938[2180]: 406.—Cameroon. Mukonje-Farm, near Mundame on Mungo River. HT ♂ ZSZMH. [6602306]
- lunata**. Sierra Leone [AF].
Ceratitits lunata Munro 1935[3472]: 305.—Sierra Leone. Njala; & unknown locality. ST ♂ ♀ BMNH. [6603547]
- marriotti**. South Africa [AF].
Ceratitits marriotti Munro 1933[3464]: 36.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603512]
- melanopus**. Ghana or Togo, Equatorial Guinea [AF].
Pardalaspis melanopus Hering 1942[2206]: 282.—Ghana or Togo. Accra - Lome. ST ♂ ♀ ZMHU. [6602590]
- morstatti**. Ghana, Cameroon, Equatorial Guinea [AF].
Ceratitits morstatti Bezzi 1912[446]: 12.—Cameroon. Southwest: Victoria [Limbe]. ST ♂ ♀ ZSZMH. Also ST in MCSNM. [6600189]
- nana**. Liberia [AF].
Ceratitits nana Munro 1933[3465]: 9.—Liberia. Suahkoko. HT ♂ AMNH. [6603502]
- ovalis**. Sierra Leone [AF].
Ceratitits ovalis Munro 1935[3472]: 310.—Sierra Leone. Makobbe. HT ♂ BMNH. [6603551]
- pycnanthi**. Zaire [AF].
Pardalaspis pycnanthi Ghesquiere 1942[1675]: 91.—Zaire. Equateur: Eala [0°04'N 18°17'E]. HT ♀ IRSNB. [6601401]
- quinaria**. Namibia, Zimbabwe [AF].
Pardalaspis quinaria Bezzi 1918[455]: 235.—Zimbabwe. Salisbury [Harare]. ST ♂ ♀ BMNH. [6600286]
- roubaudi**. Congo [AF].
Pardalaspis roubaudi Bezzi 1923[466]: 527.—Congo. near Brazzaville. HT ♂ MNHNP. [6600365]
Pardalaspis roubaudi Bezzi 1924[469]: 101.—Congo [environs of Brazzaville]. T A MNHNP. Preocc. Bezzi 1923. [6605065]
- sarcocephali**. Nigeria [AF].
Pardalaspis giffardi var. *sarcocephali* Bezzi 1924[469]: 103.—Nigeria. Lagos. ST A MCSNM? Probably also ST in IZUSN. [6600451]
- scaevolae**. South Africa [AF].
Pardalaspis scaevolae Munro 1929[3460]: 394.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603466]
- silvestrii**. Senegal, Niger [AF].
Ceratitits silvestrii Bezzi 1912[446]: 10.—Senegal. Dakar. ST ♂ ♀ MCSNM. [6600188]
- simi**. Kenya, Zimbabwe, South Africa [AF].
Ceratitits simi Munro 1933[3464]: 37.—South Africa. Transvaal: Rosslyn. ST ♂ ♀ SANC. [6603513]
- stictica**. Ghana, Cameroon, Zaire, Zambia, Zimbabwe [AF].
Ceratitits stictica Bezzi 1909[444]: 277.—Zaire. ST ♀ IRSNB. [6600183]
- striatella**. Uganda [AF].
Ceratitits striatella Munro 1935[3472]: 310.—Uganda. HT ♀ BMNH. [6603552]
- turneri**. Uganda, Kenya [AF].
Pardalaspis turneri Munro 1937[3480]: 5.—Kenya. Naivasha. HT ♂ BMNH. [6603584]
- venusta**. Zaire, Burundi, Kenya, Zimbabwe [AF].
Hoplotophomyia venusta Munro 1956[3508]: 466.—Kenya. Kipkabus, 8200 ft. HT ♂ SANC. [6603731]

Subgenus *CERATITIS*

- Ceratitits* MacLeay 1829[3072]: 482, *citriperda* MacLeay (MO) = *capitata* Wiedemann. [6600569]
Petalophora Macquart 1835[3073]: 454, *Tephritis capitata* Wiedemann (MO). Designation of *Ceratitits hispanica* Breme by Rondani 1870: 7 invalid, not an originally included species. [6600227]
Pinacochaeta Munro 1933[3464]: 34, *Ceratitits pinax* Munro (OD). Proposed as a subgenus. [6600115]
Halterophora Rondani 1861[4196]: 10, n. n. *Ceratitits* MacLeay. Preocc. Endlicher 1836; replaced name misspelled as *Ceratites*. [6600228]
Ceratites Agassiz 1846[52]: 7, missp. *Ceratitits* MacLeay. [6600906]

Refs—Bezzi 1909[444]: 278 (key to 18 species (obsolete) [AF]); Freidberg 1991[1564]: (key to males of 7 spp. [AF]).

- antistictica**. Nigeria [AF].
Ceratitits stictica var. *antistictica* Bezzi 1913[447]: 20.—Nigeria. Lagos. ST ♂ ♀ IZUSN? [6600191]
- brachychaeta**. Tanzania [AF].
Ceratitits brachychaeta Freidberg 1991[1564]: 169.—Tanzania. Amani. HT ♂ BBM. [6605183]
- caetrata**. Kenya [AF].
Ceratitits caetrata Munro 1949[3499]: 499.—Kenya. Nairobi. HT ♂ USNM. [6603702]

- capitata*. tropical Africa, Madagascar, Mauritius, Reunion; introduced North Africa, s. Europe, Middle East, Neotropics, w. Australia, Hawaii [NT, PA, AF, AU].
Tephritis capitata Wiedemann 1824[5133]: 55.—India orient., mare indico [probably Is. of Indian Ocean]. T ♂ UZMC. Type data (Wiedemann 1830: 496, Zimsen 1954: 28). [6604719]
Ceratitis citriperda MacLeay 1829[3072]: 482.—Azores. St. Michael [Sao Miguel]. ST ♂ ♀ MMS. [6603189]
Ceratitis hispanica Breme 1842[597]: 188.—Spain. Malaga: environs of Malaga. ST ♂ ♀ IMZ? [6600624]
Pardalaspis asparagi Bezzi 1924[470]: 480.—South Africa. Cape: East London. HT ♀ SANC. [6600388]
Ceratitis citripeda Efflatoun 1924[1292]: 47.—missp. *citriperda* MacLeay. [6605483]
catoirii. Mauritius, Rodriguez I.; Seychelles? [AF].
Ceratitis catoirii Guerin-Meneville 1843[1829]: 197.—l'île Maurice [Mauritius]. ST ♂ ♀ MNHNP? [6601441]
Ceratitis catoirei Froggatt 1911[1621]: 864.—missp. *catoirii* Guerin-Meneville. [6605797]
Ceratitis catoiri Bezzi 1918[455]: 230.—missp. *catoirii* Guerin-Meneville. [6605052]
cornuta. Zimbabwe, South Africa [AF].
Pterandrus cornutus Bezzi 1924[470]: 478.—South Africa. Natal: Durban. HT ♂ SAMCT. [6600387]
malgassa. Madagascar [AF].
Ceratitis malgassa Munro 1939[3490]: 141.—Madagascar. Antananarivo: Tananarive [Antananarivo]. HT ♂ SANC. [6603641]
manjakatampo. Madagascar [AF].
Ceratitis manjakatampo Hancock 1984[1884]: 283.—Madagascar. Central, Manjakatampo. HT ♀ NMB. [6601447]
pinax. South Africa [AF].
Ceratitis pinax Munro 1933[3464]: 34.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603510]

Subgenus *HOPLOLOPHOMYIA*

- Hoplolophomyia* Bezzi 1926[476]: 282, n. n. *Hoplolopha* Bezzi. [6600629]
Hoplolopha Bezzi 1920[463]: 233, *cristata* Bezzi (OD). Preocc. Stael 1876. [6600118]
Haplolopha Bezzi 1924[469]: 104, missp. *Hoplolopha* Bezzi. [6600821]
cristata. Uganda? [AF].
Hoplolopha cristata Bezzi 1920[463]: 234.—“British East Africa, Kabete” [Uganda. Kabale?]. ST ♂ ♀ BMNH. [6600339]

Subgenus *PARDALASPIS*

- Pardalaspis* Bezzi 1918[455]: 233, *Tephritis punctata* Wiedemann (OD). [6600121]
 REFS.—Bezzi 1918[455]: 233 (key to 10 spp. (obsolete) [AF]); Bezzi 1920[463]: 228 (key to 11 spp. (obsolete) [AF]); Bezzi 1924[469]: 100 (key to 18 spp. (obsolete) [AF]); Bezzi 1924[470]: 479 (key to 7 spp. (obsolete) [AF: South Africa]); Hancock 1987[1892]: 52 (key to 5 spp. [AF: Zimbabwe]); De Meyer 1996[1090]: 15 (revision of 10 spp. [AF]).
bremii. Senegal, Togo, Nigeria, Cameroon, Uganda, Kenya, Zambia, Malawi, Zimbabwe [AF].
Ceratitis bremii Guerin-Meneville 1843[1829]: 199.—Senegal. HT ♀ MNHNP. [6601442]

- cuthbertsoni*. Uganda, Kenya, Tanzania, Zimbabwe [AF].
Pardalaspis cuthbertsoni Munro 1936[3478]: 42.—Zimbabwe. Vumba Mountains, Umtali. LT ♀ SANC. Lectotype designated by De Meyer 1996: 18. [6603576]
Pardalaspis cuthbertsoni var. *nigroterti* Munro 1939[3489]: 4.—Kenya. Chyulu Hills, 6000 ft. HT ♂ BMNH. [6603636]
ditissima. Ivory Coast, Ghana, Nigeria, Cameroon, Zaire, Uganda, Mozambique, Zimbabwe [AF].
Pardalaspis ditissima Munro 1938[3485]: 164.—Zaire. Shaba: Kapanga. HT ♂ SANC. [6603596]
edwardsi. Ghana, Cameroon, Zaire, Uganda, Tanzania, Zimbabwe, Mozambique, South Africa [AF].
Pardalaspis edwardsi Munro 1957[3510]: 868.—Uganda. Entebbe. HT ♀ BMNH. [6603753]
hamata. Zaire, Tanzania [AF].
Ceratitis hamata De Meyer 1996[1090]: 21.—Tanzania. Amani. HT ♀ SANC. [6605960]
munroi. South Africa [AF].
Ceratitis munroi De Meyer 1996[1090]: 22.—South Africa. Valencia. HT ♀ SANC. [6605961]
punctata. Senegal to Cameroon, Congo, Zaire, Uganda, Kenya, Tanzania, Zambia, Zimbabwe, South Africa [AF].
Tephritis punctata Wiedemann 1824[5133]: 55.—“Guinea”. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 147, but also see Zimsen 1954: 28. [6604718]
Tephritis senegalensis Macquart 1835[3073]: 468.—Senegal. T ♀ MNHNP? [6603205]
semipunctata. Zaire [AF].
Ceratitis semipunctata De Meyer 1996[1090]: 24.—Zaire. Tumba Lake, Mabali. HT ♀ MRAC. [6605962]
serrata. Zaire [AF].
Ceratitis serrata De Meyer 1996[1090]: 24.—Zaire. Yangambi. HT ♀ TAUI. [6605963]
zairensis. Zaire [AF].
Ceratitis zairensis De Meyer 1996[1090]: 24.—Zaire. Shaba: Sandoa. HT ♂ SANC. [6605964]

Subgenus *PTERANDRUS*

- Pterandrus* Bezzi 1918[455]: 231, *Ceratitis rosa* Karsch (OD). [6600133]
 REFS.—Bezzi 1918[455]: 231 (key to 4 spp. [AF]); Bezzi 1924[469]: 99 (key to 11 spp. [AF]); Bezzi 1924[470]: 476 (key to 3 spp. [AF: South Africa]); Hancock 1987[1892]: 52 (key to 3 spp. [AF: Zimbabwe]); Freidberg 1991[1564]: 167 (key to males of 17 spp. [AF]).
acicularis. Ivory Coast [AF].
Pterandrus acicularis Munro 1969[3523]: 420.—Ivory Coast. Bingerville. HT ♂ MRAC. [6603852]
ananae. Ivory Coast, Ghana, Nigeria, Cameroon, Congo, Zaire, Tanzania [AF].
Ceratitis ananae Graham 1908[1781]: 114.—Ghana. S. Ashanti. ST ♂ ♀ BMNH. [6601412]
Ceratitis pemipis Bezzi 1908[441]: 387.—Zaire. Kinshasa; & Boma. ST ♂ ♀ IRSNB. [6600170]
colae. Sierra Leone, Ivory Coast, Ghana, Cameroon, Zaire [AF].
Ceratitis colae Silvestri 1913[4459]: 63.—Ghana. Gold Coast, Aburi. LT ♂ SANC. Lectotype designated by Munro 1969: 419. [6604359]
curvata. Kenya [AF].
Pterandrus curvatus Munro 1937[3480]: 6.—Kenya. Nairobi. HT ♂ BMNH. [6603585]

flexuosa. Ivory Coast, Ghana, Uganda [AF].

Trypeta flexuosa Walker 1853[4959]: 382.—Ghana. Cape Coast. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 661; locality data (Crosskey 1980: 31). [6604595]

Pterandrus pauper Bezzi 1924[469]: 99.—Ghana. Oblogo. HT ♂ BMNH. [6600471]

fulcoides. Zaire [AF].

Pterandrus fulcoides Munro 1943[3493]: 137.—Zaire. Kivu: near Costermannsville [Bukavu], Mulungu. HT ♂ SANC. [6603649]

gravinotata. Kenya [AF].

Pterandrus gravinotatus Munro 1937[3480]: 9.—Kenya. Nairobi. HT ♂ BMNH. [6603586]

lepida. Ghana [AF].

Pterandrus lepidus Munro 1969[3523]: 420.—Ghana. Gold Coast, Aburi. HT ♂ SANC. [6603851]

lobata. South Africa [AF].

Ceratitidis lobata Munro 1933[3464]: 38.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603514]

pedestris. Angola, Zambia, Zimbabwe, South Africa, Madagascar [AF].

Pardalaspis pedestris Bezzi 1924[470]: 480.—South Africa. Natal: Durban; & Transvaal: Pretoria. ST ♂ ♀ SANC. [6600389]

penicillata. Ivory Coast, Zaire [AF].

Ceratitidis penicillata Bigot 1891[509]: 381.—Ivory Coast. Assinie. HT ♂ UMO. Type data (Munro 1969: 424). [6600557]

Pterandrus fumitactus Munro 1938[3485]: 166.—Zaire. Shaba: Sandoa. HT ♂ SANC. [6603602]

pinnatifemur. Equatorial Guinea [AF].

Ceratitidis pinnatifemur Enderlein 1920[1330]: 353.—Equatorial Guinea. Uelleburg. HT ♂ ZMHU. [6601191]

podocarpus. South Africa [AF].

Pterandrus podocarpus Bezzi 1924[470]: 476.—South Africa. Cape: Uitenhage; & East London. ST ♂ ♀ SANC. Also ST in SAMCT. [6600386]

rosa. Zaire & Uganda to South Africa, Reunion, Mauritius [AF].

Ceratitidis rosa Karsch 1887[2619]: 22.—Mozambique. Delagoa Bay. HT ♂ ZMHU. [6602861]

Pterandrus rosa var. *fasciventris* Bezzi 1920[463]: 228.—Uganda. Entebbe. ST ♂ ♀ BMNH. [6600336]

Pterandrus flavotibialis Hering 1935[2162]: 158.—Zaire. Kivu: Rutshura [Rutshuru]. ST ♂ ♀ BMNH. ZSZMH ST destroyed. [6602219]

rubivora. Uganda, Kenya, Malawi, Zimbabwe, South Africa [AF].

Ceratitidis rubivora Coquillett 1901[955]: 29.—South Africa. Cape: Wynberg. HT ♂ USNM. Sex of HT not stated by Coquillett. [6600797]

Pterandrus volucris Bezzi 1918[455]: 232.—Kenya. Embu. HT ♂ BMNH. [6600285]

tanalarivana. Madagascar [AF].

Ceratitidis tanalarivana Hancock 1984[1884]: 287.—Madagascar. Antananarivo: Tananarive [Antananarivo]. HT ♂ SANC. [6601449]

tripteris. Sierra Leone, Nigeria [AF].

Pterandrus tripteris Munro 1957[3510]: 869.—Sierra Leone. HT ♂ BMNH. [6603754]

Genus CERATITOIDES

Ceratitoides Hendel 1928[2111]: 365, *nigromaculata* Hendel (OD). [6600116]

nigromaculatus. Uganda [AF].

Ceratitoides nigromaculata Hendel 1928[2111]: 366.—Uganda. HT ♀ DEI. [6602193]

Genus CERATODACUS

Ceratodacus Hendel 1914[2102]: 81, *longicornis* Hendel (OD). [6600016]

Ceratodacus Hendel 1914[2103]: 10, *longicornis* Hendel (OD). Preocc. Hendel 1914: 81. [6600767]

longicornis. Guyana, Peru, Brazil (Mato Grosso) [NT].

Ceratodacus longicornis Hendel 1914[2102]: 81.—Peru. T A NMW. [6601931]

Ceratodacus longicornis Hendel 1914[2103]: 11.—Peru. HT ♂ NMW. Preocc. Hendel 1914: 81 Type data (Hardy 1968: 111). [6601953]

Genus CERVARITA

Cervarita Tseng, Chu & Chen 1992[4840]: 18, *picta* Tseng, Chu & Chen (OD). [6600839]

Cervarita Tseng, Chu & Chen 1992[4840]: 19, incosp. *Cervarita* Tseng, Chu & Chen, by present revision. [6600840]

picta. Taiwan [OR].

Cervarita picta Tseng, Chu & Chen 1992[4840]: 18.—Taiwan. Nantou: Tongpu, 1200 m. HT ♂ BCIT. [6605201]

Genus CHAETELLIPSIS

Chaetellipsis Bezzi 1913[448]: 126, *paradoxa* Bezzi (OD). [6600394]

Poecillis Bezzi 1913[448]: 128, *judicanda* Bezzi (OD) = *paradoxa* Bezzi. [6600395]

Podophysa Hering 1938[2181]: 8, *pretiosa* Hering (OD). [6600387]

REFS—Hardy 1973[1942]: 179 (key to 3 spp. [OR]); Kapoor 1993[2600]: 41 (key to 3 spp. [OR: India]).

alternata. China (Yunnan), Thailand [OR].

Podophysa alternata Zia 1963[5312]: 457.—China. Yunnan: Xi-Sang-Ban-Na [Xishuangbanna]. HT ♂ IZAS. [6605367]

Chaetellipsis dispilota Hardy 1973[1942]: 180.—misid. (Thai specimens). [6605965]

atrata. India (Arunachal Pradesh), Laos [OR].

Chaetellipsis atrata Hardy 1973[1942]: 179.—Laos. Vientiane: Ban Van Eue. HT ♀ BBM. [6601565]

dispilota. India (Uttar Pradesh) [OR].

Chaetellipsis dispilota Hardy 1973[1942]: 180.—India. Uttar Pradesh: Ranikhet. HT ♂ BBM. [6601566]

paradoxa. Pakistan, India, China (Yunnan), Burma, Thailand [OR].

Chaetellipsis paradoxa Bezzi 1913[448]: 127.—India. Bihar: Paresnath, 4400 ft. HT ♂ ZSI. [6600210]

Poecillis judicanda Bezzi 1913[448]: 128.—India. Bihar: Paresnath, 4300 ft. ST ♀ ZSI. [6600211]

Gastrozona flavostriata Hering 1938[2181]: 12.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602337]

Podophysa occipitalis Zia 1963[5312]: 459.—China. Yunnan: Xi-Sang-Ban-Na [Xishuangbanna]. HT ♂ IZAS. [6605368]

pretiosa. Burma [OR].

Podophysa pretiosa Hering 1938[2181]: 9.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602397]

Genus CHAETORELLIA

Chaetorellia Hendel 1927[2107]: 121, *Tephrytis jaceae* Robineau-Desvoidy (OD). [6600230]

REFS—Hendel 1927[2107]: 121 (key to 7 spp. (obsolete) [PA]); Hering 1937[2173]: 250 (key to 13 spp. (obsolete) [PA]); Richter

1970[**4087**]: 151 (key to 8 spp. [PA: e. Europe]); Dirlbek & Dirlbek-ova 1974[**1156**]: 83 (key to 13 spp. (obsolete) [PA]); White 1988[**4235**]: 42 (key to 2 spp. [PA: Britain]); White & Marquardt 1989[**5116**]: 453 (revision of 9 spp. [PA]); Friedberg & Kugler 1989[**1571**]: 150 (key to 2 spp. [PA: Israel & Sinai]); Merz 1994[**3343**]: 82 (key to 3 spp. [PA: cent. Europe]).

acrolophi. France & Spain E to Belarus & Turkey; introduced North America [NE, PA].

Chaetorellia acrolophi White & Marquardt 1989[**5116**]: 472.—Switzerland. Valais: Lalden. HT ♀ BMNH. [6604706]

ampliata. China (Nei Mongol) [PA].

Chaetorellia ampliata Wang 1990[**4994**]: 297.—China. Nei Mongol: Xilin Gol L. HT ♂ IZAS. [6605032]

australis. Poland to Greece & Turkey; introduced North America [NE, PA].

Chaetorellia hexachaeta ssp. *australis* Hering 1940[**2189**]: 12.—Moldova. Tighina [Bendery]. ST ♂ ♀ BMNH. Suspension of I.C.Z.N. rules required to validate usage. [6602442]

Trypeta hexachaeta Loew 1862[**3038**]: 53.—Poland. Schlesien [Silesia]; & Posen [Poznan]. ST ♀ ZMHU. Has priority over *australis*, but synonymy uncertain; inference of HT by White & Marquardt 1989: 474 invalid. [6603118]

Chaetorellia jaceae: Leclercq 1967[**2891**]: 95.—misid. See White & Marquardt 1989: 475. [6605896]

carthami. s. Europe E to Central Asia, S to Israel & Iraq [PA].

Chaetorellia carthami Stackelberg 1929[**4573**]: 225.—Uzbekistan. Tashkent distr.: near Jaroslavskoe. HT ♀ ZISP. [6604393]

conjuncta. Albania & Kazakstan S to Egypt & Pakistan [PA, OR].

Terellia conjuncta Becker 1913[**378**]: 642.—Iran. Baluchestan: Makran coast, vicinity of Tschachbar [Chah Bahar]. HT ♂ ZISP. Type data (White & Marquardt 1989: 475). [6600145]

Chaetorellia succinea: Hendel 1927[**2107**]: 123.—misid. See White & Marquardt 1989: 475. [6605899]

Chaetorellia jaceae: Freidberg 1974[**1550**]: 136.—misid. See White & Marquardt 1989: 475. [6605898]

Chaetorellia hexachaeta: Petney & Zwolfer 1985[**3816**]: 150.—misid. See White & Marquardt 1989: 475. [6605897]

hestia. coastal areas of France, Spain, Italy, Algeria [PA].

Chaetorellia hestia Hering 1937[**2173**]: 252.—Spain. Barcelona: Montserrat. ST ♂ ♀ BMNH. Suspension of I.C.Z.N. rules required to validate usage. [6602270]

Chaetorellia nigropicta Hering 1937[**2173**]: 251.—Algeria. Algiers. ST ♂ ♀ ZMHU. [6602269]

Trypeta vittata Rondani 1870[**4206**]: 111.—Italy. collibus agri parmensis [hills of Parma countryside]. ST ♀ MZLS. Has priority over *hestia*, but synonymy uncertain; type data White & Marquardt (1989: 476). [6604133]

Trypeta exacheta Rondani 1870[**4206**]: 111.—missp. *hexachaeta* Loew; misid. See White & Marquardt 1989: 476. [6605509]

isais. Lebanon, sw. Russia, Kazakstan; China? [PA].

Chaetorellia isais Hering 1937[**2173**]: 253.—Russia. Sarepta. HT ♀ SMN. Type data (White & Marquardt 1989: 478). [6602274]

jaceae. Europe S to France, n. Italy, Hungary, Ukraine & Caucasus [PA].

Tephrytis jaceae Robineau-Desvoidy 1830[**4148**]: 766.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604073]

Tephrytis pusilla Robineau-Desvoidy 1830[**4148**]: 766.—not stated [probably France]. T A MNHNP (destroyed). [6604072]

Tephrytis dorsalis Robineau-Desvoidy 1830[**4148**]: 766.—not stated [probably France]. T A MNHNP (destroyed). [6604071]

Trypeta punctata: Loew 1844[**3020**]: 328.—misid. See White & Marquardt 1989: 477. [6603005]

loricata. Britain, Germany, Ukraine & Kazakstan S to Spain, Italy & Turkey [PA].

Tripetta loricata Rondani 1870[**4206**]: 111.—Italy. collibus agri parmensis [hills of Parma countryside]. ST ♂ MZLS. Type data (White & Marquardt 1989: 478). [6604132]

Chaetorellia holosericea Hendel 1927[**2107**]: 122.—Sudrussland [sw. Russia]. LT ♀ NMW. Lectotype designation by inference of holotype by White & Marquardt 1989: 478. [6602122]

Chaetorellia loricata ssp. *septentrionalis* Hering 1937[**2173**]: 253.—Germany. Naumburg, Saale R. ST ♂ ♀ BMNH. [6602272]

Chaetorellia mara Hering 1937[**2173**]: 252.—Moldova. Tighina [Bendery]. HT ♂ BMNH. Type data (White & Marquardt 1989: 478). [6602271]

Chaetorellia caradjai Hering 1937[**2176**]: 126.—Moldova. Tighina [Bendery] - Borisovka. ST ♂ ♀ BMNH. White & Marquardt 1989: 478 type data partly erroneous, both ST in BMNH. [6602254]

succinea. Italy, Greece, Turkey, Caucasus & Kazakstan, S to Egypt, Jordan & Iran; introduced USA (Oregon & California) [NE, PA].

Trypeta succinea Costa 1844[**977**]: 93.—Italy. Apulia: Foggia. T ♀ IZUSN? Published simultaneously with *mellea* in separate papers, has priority by present revision. [6600815]

Trypeta mellea Costa 1844[**978**]: 118.—Italy. “L. d. S. Giusta prope Ecanam.”. T ♀ IZUSN? Made available by indication (Taf. II, Fig. 5 & p. 120). [6600816]

Terellia jaceae: Efflatoun 1924[**1292**]: 82.—misid. [6605485]

Genus *CHAETOSTOMELLA*

Chaetostomella Hendel 1927[**2107**]: 124, *Trypeta onotrophes* Loew (OD) = *cylindrica* Robineau-Desvoidy. [6600323]

Chaetostomella Foote 1984[**1517**]: 123, missp. *Chaetostomella* Hendel. Attributed to “authors”. [6600950]

Chaetostomella Foote 1984[**1517**]: 123, missp. *Chaetostomella* Hendel. Attributed to “authors”. [6600949]

REFS—Hendel 1927[**2107**]: 124 (key to 4 spp. [PA: w. Palearctic]); Shiraki 1933[**4432**]: 381 (key to 2 spp. [PA, OR: Japan & Taiwan]); Richter 1970[**4087**]: 152 (key to 2 spp. [PA: e. Europe]); Ito 1984[**2419**]: 213 (key to 2 spp. [PA: Japan]).

alini. China [PA].

Chaetostomella alini Hering 1936[**2168**]: 184.—China. Heilongjiang: Charbin [Harbin]. ST ♂ ♀ BMNH. [6602246]

completa. India (Jammu & Kashmir, Himachal Pradesh), Nepal [OR].

Chetostoma completum Kapoor, Malla & Ghosh 1979[**2615**]: 83.—Nepal. Kirtipur. HT ♂ TUKN. [6602856]

cylindrica. British Is. & Scandinavia E to Kazakstan, S to North Africa, Turkey & Afghanistan [PA].

Tephrytis cylindrica Robineau-Desvoidy 1830[**4148**]: 767.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604075]

Tephritis algira Macquart 1843[**3076**]: 380.—Algeria. ST ♂ MHNLI. Type data (White & Marquardt 1989: 480). [6603215]

Trypeta lurida Loew 1844[**3020**]: 331.—Turkey. south coast of Asia Minor, ruins of Patara. HT ♀ ZMHU? [6603006]

Trypeta onotrophes Loew 1846[**3021**]: 498.—Italy. Sicily: near Syrakus [Syracuse]; & unstated locality [Denmark?]. ST A ZMHU. [6603036]

Tephritis dorsalis Macquart 1835[**3073**]: 467.—France. ST ♂ ♀ MHNLI. Preocc. Robineau-Desvoidy 1830. [6603203]

Trypeta arctii: Meigen 1826[**3306**]: 317.—misid. [6605567]

erdenezuu. Mongolia [PA].

Orellia erdenezuu Diribekova 1982[1178]: 41.—Mongolia. Overhangay: near Karakorum [Har Horin], Erdenezuu [Erdene-dzuu]. HT ♀ NMPC. N. Comb. [6600913]

lenta. Mongolia [PA].

Chaetostomella lenta Richter 1975[4093]: 591.—Mongolia. Tov: Zaisan Area, n. slope of Bogdo Ula Mt. HT ♀ ZISP. [6604033]

nigripunctata. Taiwan [OR].

Chaetostomella nigripunctata Shiraki 1933[4432]: 383.—Taiwan. Musha; Roeichi; Horisha; Kanko; Niitaka Prefecture. ST ♂ ♀ NTU. [6604305]

rossica. Russia [PA].

Chaetostomella onotrophes f. *rossica* Hendel 1927[2107]: 125.—Russia. Sarepta [Krasnoarmeysk]. LT ♀ NMW. Lectotype designated by Hardy 1968: 111. [6602123]

similis. China (Nei Mongol) [PA].

Chaetostomella similis Chen 1938[811]: 82.—China. Nei Mongol: Ordos, Tchao-kunn-tsounn. HT ♀ IZAS. [6600695]

sphenellina. China (Gansu, Heilongjiang) [PA].

Chaetostomella sphenellina Hering 1939[2182]: 177.—China. Gansu: “Nan-Chan, de Kan Tcheou a Lan Tcheou,” 2000-4000 m. HT ♀ MNHNP. [6602409]

steropea. Italy, Greece (Crete) [PA].

Tripeta steropea Rondani 1870[4206]: 109.—s. Italy. HT ♀ MZLS? [6604131]

stigmataspis. e. Russia, n. China, Korea, Japan [PA].

Trypeta stigmataspis Wiedemann 1830[5136]: 478.—sudlichen Russland [s. Russia]. LT ♀ NMW. Lectotype designation by inference of holotype by Hardy 1968: 145. [6604727]

trimacula. Mongolia, China [PA].

Orellia trimacula Hering 1939[2182]: 179.—China. Gansu: “Cha Tcheou, Nan-Chan,” 1000-2000 m. ST ♂ ♀ MNHNP. [6602411]

undosa. USA (Oregon & Wyoming S to California & Colorado) [NE].

Trypeta undosa Coquillett 1899[953]: 262.—USA. Colorado. HT ♀ USNM. [6600774]

vibrissata. e. Russia, China (Jiangxi), Japan (Honshu) [PA].

Trypeta vibrissata Coquillett 1898[950]: 338.—Japan. ST ♂ ♀ USNM. [6600767]

Genus CHEESMANOMYIA

Cheesmanomyia Malloch 1939[3137]: 419, *unica* Malloch (OD) = *nigra* Meijere. [6600498]

nigra. Indonesia (Irian Jaya), Papua New Guinea [AU].

Rioxa nigra Meijere 1906[3312]: 95.—Indonesia. Irian Jaya: Lake Sentani. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1986: 34 invalid. [6604902]

Cheesmanomyia unica Malloch 1939[3137]: 420.—Indonesia. Irian Jaya: Jutefa Bay Pim., 0-100 ft. HT ♀ BMNH. [6603343]

Genus CHEJUPARIA

Chejuparia Kwon 1985[2802]: 86, *pibari* Kwon (OD). [6600714]

pibari. Korea [PA].

Chejuparia pibari Kwon 1985[2802]: 86.—South Korea. Cheju: Mt. Hallasan. HT ♂ KUTK. [6602918]

Genus CHELYOPHORA

Chelyophora Rondani 1875[4210]: 433, *borneana* Rondani (MO). [6600396]

borneana. Malaysia (Sarawak) [OR].

Chelyophora borneana Rondani 1875[4210]: 434.—Malaysia. Sarawak. LT ♀ MCSNG. Lectotype designation by inference of holotype by Hardy 1988: 92. [6604151]

Genus CHENACIDIELLA

Chenacidiella Shiraki 1968[4435]: 34, *Acidiella purpureiseta* Chen (OD). [6600231]

Umibenowotome Ito 1956[2407]: 25, *Nomen nudum*. [6600808]

aureiseta. China (Zhejiang) [PA].

Acidiella aureiseta Chen 1948[814]: 116.—China. Zhejiang: Tianmushan. HT ♂ IZAS. [6605084]

bangaloriensis. India (Karnataka) [OR].

Chenacidiella bangaloriensis Kapoor & Agarwal 1978[2601]: 197.—India. Karnataka: Bangalore, B.T. Farm. HT ♀ INPC. [6602852]

purpureiseta. Japan (Honshu, Shikoku, Kyushu), Taiwan [PA, OR].

Acidiella purpureiseta Chen 1948[814]: 115.—Formosa [Taiwan]. HT A IZAS. Described from both sexes, but sex of HT not specified. [6600716]

Genus CHETOSTOMA

Chetostoma Rondani 1856[4195]: 112, *curvinerve* Rondani (OD). [6600232]

Euchaetostoma Chen 1948[814]: 104, *mirabilis* Chen (OD). [6600244]

Chaetostoma Loew 1873[3042]: 332, emend. *Chetostoma* Rondani. [6600873]

Chaetostoma Costa 1884[975]: 63, emend. *Chetostoma* Rondani. [6600864]

REFS—Korneyev 1990[2733]: 20 (key to 7 spp. [PA]); Foote, Blanc & Norrbom 1993[1523]: 129 (key to 2 spp. [NE, NT]); Merz 1994[3343]: 101 (key to 2 spp. [PA: cent. Europe]).

admirandum. China (Fujian) [OR].

Chaetostoma admirandum Hering 1953[2223]: 346.—China. Fujian: Kuantun (70°40'N, 117°40'E), 2300 m. HT ♂ ZFMK. [6602719]

californicum. Canada & USA (British Columbia E to Ontario & Illinois, Oregon, California, Arizona), Mexico (Chiapas) [NE, NT].

Chaetostoma californica Blanc 1959[519]: 202.—USA. California: San Diego Co., La Mesa. HT ♂ CAS. Type data (Arnaud 1979: 329). [6600562]

Chetostoma californica Foote & Blanc 1963[1521]: 13.—missp. *californicum* Blanc. [6605545]

continuans. e. Russia, Korea, China (Shanxi) [PA].

Chaetostoma continuans Zia 1938[5309]: 31.—China. sw. Shanxi: Tsi-li-yu [Tsiliyu], 2100 m. HT ♂ IZAS. [6604850]

curvinerve. Britain, Spain, Switzerland, Austria, Italy, North Africa, Israel, Uzbekistan [PA].

Chetostoma curvinerve Rondani 1856[4195]: 112.—not stated [Italy. “montuosus Apennini Parmensis”]. T ♂ MZLS? Type data (Rondani 1869: 201). [6604115]

Spilographa giraudi Frauenfeld 1864[1543]: 382.—Probably Austria. Vienna, botanical garden. HT ♀ NMW. [6601313]

Chaetostoma princeps Costa 1884[975]: 63.—Italy. Sardinia: woods of Aritzo; & Valle Sa Minda. ST ♀ IZUSN? Type data on p. 46. [6600821]

dilutum. China (Shanxi) [PA].

Chaetostoma diluta Zia 1938[5309]: 28.—China. Shanxi: Tsi-en-ou. HT ♂ IZAS. [6604849]

ermolenkoi. Armenia [PA].

Chetostoma ermolenkoi Korneyev 1990[2733]: 21.—Armenia. Khosrov Nature Preserve, 1700 m. HT ♀ UASK. [6605189]

interruptum. Nepal [OR].

Chetostoma interrupta Hardy 1964[1934]: 157.—Nepal. Taplejung Dist., evergreen oak forest above Sangu, c. 9200 ft. HT ♂ BMNH. [6601505]

japonicum. Japan (Honshu, Shikoku, Kyushu) [PA].

Euchaetostoma mirabilis ssp. *japonica* Ito 1949[2402]: 56.—Japan. Kyushu: Hukuoka [Fukuoka]. HT ♀ KU. [6602762]

melliculum. e. Russia (Primorskiy) [PA].

Chaetostoma melliculum Richter 1965[4085]: 136.—Russia. Primorskiy: Suptinsk Reservation. HT ♀ ZISP. [6604022]

mirabile. China (Fujian) [OR].

Euchaetostoma mirabilis Chen 1948[814]: 105.—China. Fujian: Shao-Woo [Shaowu]. HT ♂ IZAS. [6600709]

miraculosum. Burma [OR].

Chaetostoma miraculosum Hering 1938[2181]: 44.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602380]

mundum. Japan (Honshu) [PA].

Chaetostoma mundum Ito 1953[2406]: 19.—Japan. Honshu: Ugo, Tamagawa, near Tazawako. HT ♂ UOPJ. [6602774]

rubidum. Canada & USA (British Columbia, Manitoba & South Dakota S to California & Arizona) [NE].

Epochra rubida Coquillett 1899[953]: 260.—USA. Colorado. ST ♂ ♀ USNM. [6600771]

Chetostoma elizabethae Quisenberry 1949[3992]: 81.—USA. n. Colorado. HT ♂ USNM. HT transferred from CSUFC to USNM. [6604009]

stackelbergi. Norway, Sweden, nw. Russia, Netherlands, Switzerland, Austria, Hungary [PA].

Chaetostoma stackelbergi Rohdendorf 1955[4171]: 325.—Russia. Leningrad [St. Petersburg] vicinity, Sablino station. HT ♂ ZISP. [6604104]

Genus CHIPINGOMYIA

Chipingomyia Hancock 1986[1891]: 19, *manica* Hancock (OD). [6600633]

manica. Tanzania, Zimbabwe [AF].

Chipingomyia manica Hancock 1986[1891]: 19.—Zimbabwe. Manicaland: Chipinge. HT ♂ NMBZ. [6601476]

Genus CLEITAMIPHANES

Cleitamiphanes Hering 1941[2196]: 12, *heinrichi* Hering (OD). [6600352]

heinrichi. Indonesia (Sulawesi) [OR].

Cleitamiphanes heinrichi Hering 1941[2196]: 12.—Indonesia. Sulawesi: Kalabat, 250 m. HT ♂ ZMHU. [6602509]

Genus CLEMATOCOAETA

Clematochaeta Hering 1941[2199]: 205, *Euribia perpallida* Bezzi (OD). [6600202]

REF.—Bezzi 1924[472]: 137 ((*Euribia*) key to 2 spp. [AF]).

acrophthalma. Malawi, Zimbabwe [AF].

Camaromyia acrophthalma Bezzi 1918[456]: 40.—Malawi. Chiromo, Ruo R. HT ♀ BMNH. [6600307]

discipulchra. Malawi, Zimbabwe [AF].

Euribia discipulchra Bezzi 1918[456]: 36.—Malawi. Chiromo, Ruo R. HT ♀ BMNH. [6600304]

euopis. Uganda [AF].

Clematochaeta euopis Munro 1957[3510]: 1048.—Uganda. Ruwenzori Range, Mt. Karangora, 9900 ft. HT ♀ BMNH. [6603750]

pacifera. Ethiopia [AF].

Clematochaeta pacifer Munro 1968[3522]: 5.—Ethiopia. Ilubabor: Gore, 35°34'E 8°8'N, 2007 m. HT ♂ SMN. [6603850]

perpallida. Malawi, Zimbabwe [AF].

Euribia perpallida Bezzi 1918[456]: 35.—Malawi. Chiromo, Ruo R. ST ♂ ♀ BMNH. [6600303]

Genus CLINOTAENIA

Clinotaenia Bezzi 1920[463]: 225, *anastrephina* Bezzi (OD). [6600117]

REF.—Hancock 1985[1889]: 61 (key to 9 spp. [AF]).

anastrephina. Zaire, Malawi [AF].

Clinotaenia anastrephina Bezzi 1920[463]: 226.—Malawi. Mlanje: Mt. Mlanje [Sapitwa]. HT ♀ BMNH. [6600335]

atlas. Uganda, Kenya [AF].

Clinotaenia atlas Munro 1957[3510]: 866.—Uganda. Ruwenzori Range, Namwamba Valley, 6500 ft. HT ♂ BMNH. [6603752]
Clinotaenia atlas Munro 1956[3508]: 465.—*Nomen nudum*. Burundi. Urundi, Bururi, 1800-2000 m. HT ♀ MRAC? Published after 1930 without a description. [6603730]

cedarensis. South Africa [AF].

Clinotaenia cedarensis Munro 1933[3464]: 30.—South Africa. Natal: Cedara. HT ♀ SANC. [6603506]

grata. South Africa [AF].

Trypeta grata Wiedemann 1830[5136]: 498.—Kap [South Africa. Cape Province or Cape of Good Hope]. T ♀ ZMHU. [6604740]

inyanga. Zimbabwe [AF].

Clinotaenia inyanga Hancock 1985[1889]: 62.—Zimbabwe. Nyanga, Rhodes Inyanga Orchard. HT ♀ NMBZ. [6601464]

Genus CLUSIOSOMA

REFS.—Malloch 1939[3137]: 424 (key to 11 spp. [AU]); Hardy 1986[1962]: 37 (key to 14 spp. [OR AU]); Permkam & Hancock 1995[3795]: 1072 (revision of 4 spp. [AU: Australia]).

Subgenus CLUSIOSOMA

Clusiosoma Malloch 1926[3124]: 547, *semifusca* Malloch (OD). [6600499]

centrale. Papua New Guinea [AU].

Clusiosoma centrale Malloch 1939[3137]: 426.—Papua New Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♂ AMS. [6603349]

dami. New Britain; New Guinea? [AU].

Clusiosoma dami Hardy 1986[1962]: 40.—Papua New Guinea. New Britain: Dami. HT ♂ BBM. [6601795]

daruense. Papua New Guinea (Western) [AU].

Clusiosoma daruense Hardy 1986[1962]: 41.—Papua New Guinea. Western: Daru I., T. Wyborn property. HT ♂ BBM. [6601796]

laterale. Indonesia (Irian Jaya), Papua New Guinea, Australia (n. Qld.) [AU].

Dacus lateralis Walker 1865[4974]: 123.—New Guinea. T ♂ BMNH. Walker probably misstated sex of ST, only 1 female in BMNH (Hardy 959: 177). [6604669]

- Clusiosoma biseriata* Malloch 1939[3137]: 426.—Papua New Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♂ AMS. Type data (Permkam & Hancock 1995: 1072). [6603347]
- macalpinei*. Australia (n. Qld.) [AU].
- Clusiosoma macalpinei* Permkam & Hancock 1995[3795]: 1074.—Australia. Queensland: Cape York Peninsula, Claudie R. nr. Mt. Lamond, 12°46'S 143°17'E. HT ♂ AMS. [6605846]
- melanthe*. New Britain, New Ireland [AU].
- Clusiosoma melanthes* Hering 1947[2213]: 2.—Papua New Guinea. New Britain: Kokope. HT ♀ BMNH. [6602642]
- minutum*. Indonesia (Maluku, Irian Jaya), Papua New Guinea [AU].
- Acanthoneura minuta* Meijere 1913[3315]: 62.—Indonesia. Irian Jaya: S of Waigeo, Saonek I. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1986: 44 invalid. [6604913]
- nigricorne*. Papua New Guinea (Central) [AU].
- Clusiosoma nigricorne* Hardy 1986[1962]: 45.—Papua New Guinea. Central: 20 km. SE of Port Moresby. HT ♂ BBM. [6601797]
- nigripenne*. Papua New Guinea (Western Highlands, Morobe) [AU].
- Clusiosoma nigripenne* Hardy 1986[1962]: 46.—Papua New Guinea. Western Highlands: Kuk. HT ♂ BBM. [6601798]
- partitum*. Papua New Guinea [AU].
- Clusiosoma partita* Malloch 1939[3137]: 425.—Papua New Guinea. West Sepik: Vanimo [2°41'S 141°18'E]. HT ♂ AMS. [6603346]
- pleurale*. Solomon Is. [AU].
- Clusiosoma pleuralis* Malloch 1939[3135]: 259.—Solomon Is. Guadalcanal: Kukum. HT ♂ BMNH. [6603328]
- pullatum*. Papua New Guinea [AU].
- Clusiosoma pullatum* Hering 1941[2194]: 60.—Papua New Guinea. Morobe: Huon Gulf, Simbang [6°35'S 147°50'E]. ST ♂ ♀ MNM. [6602500]
- semifuscum*. Australia (NT, Qld.) [AU].
- Clusiosoma semifusca* Malloch 1926[3124]: 548.—Australia. Queensland: Cairns. HT ♂ USNM. [6603253]
- subpullatum*. Papua New Guinea (Central) [AU].
- Clusiosoma subpullatum* Hardy 1986[1962]: 50.—Papua New Guinea. Central: 20 km. SE of Port Moresby. HT ♂ BBM. [6601799]
- vittiferum*. New Guinea [AU].
- Psila vittifera* Walker 1865[4974]: 126.—New Guinea. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 666. [6604673]

Subgenus *PARACLUSIOSOMA*

- Paraclusiosoma* Hardy 1986[1962]: 52, *Clusiosoma papuaense* Hardy (OD). Proposed as a subgenus. [6600500]
- papuaense*. Papua New Guinea (Morobe, Central), Australia (n. Qld.) [AU].
- Clusiosoma papuaense* Hardy 1986[1962]: 52.—Papua New Guinea. Central: 23 km. SE of Swikila. HT ♂ BBM. [6601800]

Genus *CLUSIOSOMINA*

- Clusiosomina* Malloch 1939[3137]: 426, *Clusiosoma puncticeps* Malloch (MO). Proposed as a subgenus. [6600501]
- puncticeps*. Australia (Qld., NSW) [AU].
- Clusiosoma puncticeps* Malloch 1939[3137]: 426.—Australia. New South Wales: Gosford. HT ♂ AMS. Type data (Permkam & Hancock 1995: 1080). [6603348]

Genus *COELOPACIDIA*

- Coelopacidia* Enderlein 1911[1326]: 442, *madagascariensis* Enderlein (OD). [6600095]
- Stenotrypeta* Enderlein 1920[1330]: 338, *torrida* Enderlein (OD). [6600096]
- REFS—Bezzi 1920[463]: 218 (key to 3 spp. [AF]); Hendel 1928[2111]: 348 (key to 5 spp. [AF]).
- apicalis*. Tanzania [AF].
- Coelopacidia apicalis* Hendel 1928[2111]: 349.—Tanzania. Shirati. HT ♂ NMW. Type data (Hardy 1968: 111), Katona collector, not locality. [6602181]
- carinata*. Kenya [AF].
- Coelopacidia carinata* Hendel 1928[2111]: 349.—Kenya. Nairobi. HT ♂ NMW. Type data (Hardy 1968: 111). [6602180]
- madagascariensis*. Madagascar [AF].
- Coelopacidia madagascariensis* Enderlein 1911[1326]: 442.—Madagascar. Ambodimanga. HT ♂ PAN. [6601160]
- marriotti*. South Africa [AF].
- Stenotrypeta marriotti* Munro 1935[3475]: 24.—South Africa. Natal: Drakensberg, Rockeries Section. HT ♀ SANC. [6603540]
- melanostigma*. Malawi [AF].
- Coelopacidia melanostigma* Bezzi 1920[463]: 219.—Malawi. Limbe, Chiromo, Ruo R. HT ♂ BMNH. [6600333]
- punctum*. Equatorial Guinea [AF].
- Stenotrypeta punctum* Enderlein 1920[1330]: 339.—Equatorial Guinea. Uelleburg. HT ♂ ZMHU. [6601173]
- strigata*. Ghana, Uganda, Malawi, Zimbabwe, South Africa [AF].
- Coelopacidia strigata* Bezzi 1920[463]: 218.—Malawi. Limbe, Chiromo, Ruo R. ST ♂ ♀ BMNH. [6600332]
- torrida*. Tanzania [AF].
- Stenotrypeta torrida* Enderlein 1920[1330]: 339.—Tanzania. Lake Nyassa, Langenburg. HT ♂ ZMHU. [6601174]
- vivax*. South Africa [AF].
- Stenotrypeta vivax* Munro 1933[3464]: 27.—South Africa. Cape: East London. ST ♂ ♀ SANC. [6603504]

Genus *COELOTRYPES*

- Coelotrypes* Bezzi 1924[470]: 494, *vittatus* Bezzi (OD). [6600097]
- Euphrantochlaena* Hering 1940[2189]: 3, *pulchellina* Hering (OD). [6600104]
- Staurocneros* Hering 1944[2210]: 2, *Staurella circumscripta* Hering (OD). [6600382]
- REFS—Bezzi 1920[463]: 238 ((*Rhacochlaena*) key to 3 spp. [AF]); Bezzi 1924[469]: 109, 114 ((*Coelotrypes* & *Rhacochlaena*) keys to 8 spp. [AF]); Bezzi 1924[470]: 487 ((*Rhacochlaena*) key to 3 spp. [AF: South Africa]); Frey 1958[1587]: 20 (key to 5 spp. [AF]); Hancock 1986[1890]: 301 (key to 12 spp. [AF]).

- circumscriptus*. Philippines, Indonesia (Nusa Tenggara), Australia (NT, n. Qld.) [OR, AU].
- Staurella circumscripta* Hering 1941[2192]: 28.—Indonesia. Nusa Tenggara: Flores I., Rana Mese. HT ♀ MLUH. Type depositary mistated by Hardy 1983: 183, only PT in DEI. [6602476]
- Staurocneros imitator* Hardy 1970[1940]: 99.—Philippines. Palawan: Balabac I., Dalawan Bay. HT ♂ UZMC. [6601538]
- fasciolatus*. Namibia, South Africa [AF].
- Trypeta fasciolata* Loew 1863[3039]: 16.—South Africa [Bloemfontein?]. ST ♂ ♀ Tollin. [6603127]
- flavina*. Papua New Guinea; Niue? [AU].
- Staurella flavina* Hering 1941[2194]: 56.—Papua New Guinea. Central: Kapakapa. ST ♂ ♀ MNM. [6602496]

hammersteini. Madagascar [AF].

Euphranta hammersteini Enderlein 1911[1326]: 440.—Madagascar. Ambodimanga. HT ♂ PAN. [6601159]

inumbratus. Uganda [AF].

Rhacoclaena inumbrata Munro 1957[3510]: 879.—Uganda. Budongo Forest. HT ♂ BMNH. [6603759]

latilimbata. Philippines, Indonesia (Sumatra) [OR].

Euphranta latilimbata Enderlein 1911[1326]: 438.—Indonesia. Sumatra: Soekaranda. HT ♀ PAN. Type data (Hardy 1983: 187). [6601157]

major. Uganda, Zambia, Zimbabwe, South Africa [AF].

Rhacochlaena major Bezzi 1924[469]: 110.—Zambia. Chilanga. HT ♂ BMNH. [6600456]

Rhacochlaena permagna Munro 1929[3459]: 5.—South Africa. Natal: Zululand, M'Fongosi. ST ♂ ♀ SAMCT. [6603483]

Rhacochlaena major Bezzi 1924[470]: 487.—nw. Rhodesia [Zambia]; & South Africa. Cape: East London. ST ♂ ♀ SANC? Preocc. Bezzi 1924: 110. [6605055]

nigricornutus. Equatorial Guinea [AF].

Coelotrypes nigricornutus Hering 1942[2206]: 274.—Equatorial Guinea. Uelleburg. HT ♀ ZMHU. [6602581]

nigriventris. Sudan, Uganda [AF].

Coelotrypes nigriventris Bezzi 1924[469]: 114.—Sudan. Bundle. HT ♀ BMNH. [6600457]

pallidus. Mozambique [AF].

Coelotrypes pallidus Bezzi 1924[469]: 114.—Mozambique. ST ♂ ♀ BMNH. [6600458]

pulchellinus. Kenya [AF].

Euphrantochlaena pulchellina Hering 1940[2189]: 4.—Kenya. Nairobi. ST ♂ ♀ ZSZMH. [6602449]

pulchellus. Ghana, Rwanda & Ethiopia to South Africa [AF].

Rhacochlaena pulchella Bezzi 1920[463]: 239.—Ghana. Accra. HT ♂ BMNH. [6600341]

Rhacoclaena pulchella var. *deleta* Munro 1933[3464]: 31.—South Africa. Transvaal: Rosslyn. ST ♂ ♀ SANC. [6603508]

punctilabris. Fiji, Western Samoa, Tonga [AU].

Ocneros punctilabris Bezzi 1928[478]: 107.—Fiji. Ovalau. HT ♂ BMNH. [6600535]

ripleyi. South Africa [AF].

Coelotrypes ripleyi Munro 1933[3464]: 29.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603505]

simplex. Tanzania, Malawi [AF].

Rhacochlaena simplex Bezzi 1924[469]: 110.—Malawi. Limbe. HT ♂ BMNH. [6600455]

vittatus. Gabon, Zaire & Ethiopia S to Namibia & Mozambique, Madagascar [AF].

Coelotrypes vittatus Bezzi 1923[467]: 579.—Gabon. Libreville; Madagascar. Ranomafona, Anjorajora, Foret Tanala. ST ♂ ♀ MNHNP. ST of *vittatus* Bezzi 1924 also are ST. [6600370]

Coelotrypes vittatus ssp. *secata* Munro 1953[3505]: 221.—Zambia. Barotzeland: Shangombo. HT ♂ SANC. [6603716]

Coelotrypes vittatus ssp. *setiger* Hering 1958[2230]: 20.—Cape Verde Is. Sao Tiago: Rib. Charco. HT ♀ BMNH. [6602738]

Coelotrypes vittatus Bezzi 1924[470]: 495.—Namibia. Tsumeb; Zimbabwe. Salisbury [Harare]. ST ♀ SAMCT. Preocc. Bezzi 1923: 579. [6605056]

Genus COLLESSOMYIA

Collessomyia Hardy & Drew 1996[1972]: 231, *setiger* Hardy & Drew (OD). [6601006]

setiger. Australia (WA, NT, Qld.) [AU].

Collessomyia setiger Hardy & Drew 1996[1972]: 231.—Australia. Western Australia: 4 mi. SSE of Minilya. HT ♂ ANIC. [6605910]

Genus COLOBOSTROTHER

Colobostroter Enderlein 1911[1326]: 445, *pulchralis* Enderlein (OD). [6600370]

pulchralis. Malaysia (w., Sabah, Sarawak), Indonesia (Sumatra); Philippines? [OR].

Colobostroter pulchralis Enderlein 1911[1326]: 445.—Indonesia. Sumatra: Soekaranda. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601162]

Genus CONRADTINA

Conradtina Enderlein 1911[1326]: 443, *longicornis* Enderlein (OD). [6600103]

REFS—Bezzi 1918[455]: 222 (key to 4 spp. [AF]); Bezzi 1924[469]: 93 (key to 7 spp. (obsolete) [AF]); Hancock 1986[1890]: 297 (key to 3 spp. [AF]).

acroleuca. Sierra Leone, Cameroon, Kenya, Zimbabwe, Angola [AF].

Dacus acroleucus Wiedemann 1830[5136]: 520.—Unknown [probably Africa]. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 145. [6604751]

Acidia tristriata Karsch 1887[2618]: 7.—Angola. Pungo Andongo. HT A ZMHU. [6602859]

Conradtina limbata Enderlein 1920[1330]: 343.—Cameroon. Bibundi. HT ♀ ZMHU. [6601178]

longicornis. Equatorial Guinea, Cameroon, Zaire [AF].

Conradtina longicornis Enderlein 1911[1326]: 443.—Equatorial Guinea. Fernando Po [Bioko]. HT ♂ PAN. [6601161]

Conradtina acrodiauges Speiser 1913[4562]: 145.—Cameroon. Duala. ST A Unknown. [6604385]

Conradtina limbatella Enderlein 1920[1330]: 342.—Cameroon. Johann-Albrechtshoehe. HT ♂ ZMHU. [6601177]

suspensa. “Congo”, Uganda [AF].

Conradtina suspensa Bezzi 1918[455]: 223.—“Congo”. HT ♀ MCSNM. [6600279]

Genus COORONGA

Cooronga Hardy & Drew 1996[1972]: 233, *mcalpinei* Hardy & Drew (OD). [6601007]

mcalpinei. Australia (SA) [AU].

Cooronga mcalpinei Hardy & Drew 1996[1972]: 234.—Australia. South Australia: The Coorong, 30 km. S of Meningie. HT ♂ ANIC. [6605911]

Genus COPIOLEPIS

Copiolepis Enderlein 1920[1330]: 341, *quadrisquamosa* Enderlein (OD). [6600544]

colpopteris. Australia (n. Qld.) [AU].

Copiolepis colpopteris Permkam & Hancock 1995[3795]: 1081.—Australia. Queensland: Cape York Peninsula, Claudie R., 1 mi. W Mt. Lamond. HT ♂ AMS. [6605847]

quadrisquamosa. Indonesia (Irian Jaya), Papua New Guinea, New Britain [AU].

Copiolepis quadrisquamosa Enderlein 1920[1330]: 341.—Papua New Guinea. New Britain: Mioko. HT ♂ ZMHU. Sex of HT misstated by Enderlein (Hardy 1988: 95). [6601176]

Genus CORDYLOPTERYX

Cordylopteryx Hering 1941[2199]: 205, *Rhabdochaeta marshalli* Bezzi (OD). [6600203]

lesneae. Mozambique, Zimbabwe [AF].

Perirhithrum lesneae Seguy 1933[4342]: 24.—Mozambique. Vila-Pery. T ♂ MNHNP. [6604225]

marshalli. Zimbabwe, South Africa [AF].

Rhabdochaeta marshalli Bezzi 1924[470]: 522.—South Africa. Natal. ST A BMNH. [6605060]

Rhabdochaeta marshalli Bezzi 1924[472]: 152.—Zimbabwe. Chirinda Forest. ST ♂ ♀ BMNH. Preocc. Bezzi 1924: 522. [6600505]

Genus CORNUTRYPETA

Cornutrypeta Han & Wang 1993[1874]: 169, *Trypeta superciliata* Frey (OD). [6600843]

REF.—Han, Wang & Kim 1993[1877]: 167 (revision of 8 spp. [PA, OR]).

gigantocornuta. China (Sichuan) [PA].

Cornutrypeta gigantocornuta Han & Wang 1993[1874]: 172.—China. Sichuan: Mt. Omei [Emei Shan]. HT ♂ USNM. [6605238]

melanonotum. India (Himachal Pradesh, Uttar Pradesh) [OR].

Vidalia melanonotum Brunetti 1917[640]: 96.—India. Himachal Pradesh: Simla District, Phagu. HT ♀ ZSI. [6600635]

nigrifemur. China (Xizang) [PA].

Cornutrypeta nigrifemur Han & Wang 1993[1874]: 173.—China. Xizang: Nyalam. HT ♂ IZAS. [6605239]

nigritata. China (Qinghai, Sichuan) [PA].

Vidalia nigritata Wang 1991[4998]: 465.—China. Sichuan: Xiangcheng (28°N 99°E), 3950 m. HT ♂ IZAS. [6605161]

omeishana. China (Sichuan) [PA].

Cornutrypeta omeishana Han & Wang 1993[1874]: 178.—China. Sichuan: Mt. Omei [Emei Shan]. HT ♂ IZAS. [6605240]

spinifrons. Britain, Scandinavia & nw. Russia S to France, Switzerland & Hungary; Korea [PA].

Spilographa spinifrons Schroeder 1913[4319]: 178.—Poland. Silesia, Riesengebirge [Krkonoše Mts.], Schreiberhau. HT ♂ PAN. [6604213]

Spilographa virgata Collin 1946[899]: 17.—England. Lancashire: Grange-over-Sands. ST ♀ UMO. Type data (Pont 1995: 173). [6600756]

Vidalia diddiba Dirlbek & Dirlbekova 1975[1158]: 2.—North Korea. coast of Yellow Sea, Nampho [Namp'o]. HT ♂ Dirlbek. [6600911]

superciliata. Norway, Sweden, Finland, nw. Russia, Korea [PA].

Trypeta superciliata Frey 1935[1584]: 98.—Finland. Sortavala, near Rytty. LT ♂ UZMH. Lectotype designated by Han, Wang & Kim 1993: 181. [6601367]

Vidalia jibadava Dirlbek & Dirlbekova 1975[1158]: 1.—North Korea. coast of Yellow Sea, Nampho [Namp'o]. HT ♂ Dirlbek. [6600910]

Vidalia jibidau Foote 1984[1517]: 146.—missp. *jibadava* Dirlbek & Dirlbekova. [6605039]

taiwanensis. Taiwan [OR].

Cornutrypeta taiwanensis Han 1996[1870]: 114.—Taiwan. Kaohsiung Hsien, Kuanshan trail at Kuanshanchi River, 2,400 m. HT ♂ CMP.

triceratops. India (W. Bengal), China (Sichuan) [PA, OR].

Vidalia triceratops Bezzi 1913[448]: 137.—India. W. Bengal: Darjeeling, 7000 ft. HT ♂ ZSI. [6600215]

yushunia. China (Qinghai, Sichuan) [PA].

Cornutrypeta yushunia Han & Wang 1993[1874]: 183.—China. Qinghai: Yushu. HT ♂ IZAS. [6605241]

Genus COSMETOTHRIX

Cosmetothrix Munro 1952[3503]: 224, *Afreutreta discoidalis* Bezzi (OD). [6600162]

discoidalis. South Africa [AF].

Afreutreta discoidalis Bezzi 1924[470]: 528.—South Africa. Cape: East London. LT ♂ SANC. Lectotype designated by Freidberg & Kaplan 1993: 216. [6600411]

Genus CRASPEDOXANTHA

Craspedoxantha Bezzi 1913[448]: 156, *octopunctata* Bezzi (OD). [6600198]

Graspedoxantha Hancock 1986[1922]: 276, missp. *Craspedoxantha* Bezzi. [6601005]

REFS—Bezzi 1924[469]: 117 (key to 4 spp. [AF]); Freidberg 1985[1560]: 186 (revision of 9 spp. [AF, OR]); Freidberg & Mathis 1990[1574]: 325 (phylogeny [AF, OR]); Kapoor 1993[2600]: 47 (key to 2 spp. [OR: India]).

bafut. Nigeria, Cameroon [AF].

Craspedoxantha bafut Freidberg & Mathis 1990[1574]: 325.—Cameroon. Northwest: Rt. N6 Bali-Batibo, W of Bamenda. HT ♀ TAUI. [6601364]

indica. Pakistan, India [OR].

Craspedoxantha indica Zaka-ur-Rab 1960[5279]: 684.—India. Uttar Pradesh: Aligarh, University Campus. HT ♂ Zaka-Rab. [6604822]

manengubae. Cameroon [AF].

Craspedoxantha manengubae Speiser 1915[4563]: 104.—Cameroon. West: Dshang. HT ♂ Unknown. [6604388]

marginalis. Gambia; Sudan & Ethiopia S to Angola & South Africa [AF].

Tephritis marginalis Wiedemann 1818[5131]: 47.—Vorgebirge der gutten Hoffnung [South Africa. Cape: Cape of Good Hope]. LT ♀ NMW. Lectotype designation by inference of holotype by Hardy 1968: 146 (also see Freidberg 1985: 193). [6604709]

milleri. South Africa [AF].

Craspedoxantha milleri Freidberg 1985[1560]: 195.—South Africa. Natal: Giants Castle Game Reserve. HT ♂ NMP. [6601338]

octopunctata. India (Dehli, Uttar Pradesh, Maharashtra), Burma, Vietnam [OR].

Craspedoxantha octopunctata Bezzi 1913[448]: 156.—Burma. Karen: Dawna Hills, 2000-3000 ft. HT ♀ ZSI. Type data (Freidberg 1985: 198). [6600226]

polyspila. Gambia, Zaire, Kenya, Malawi, Zimbabwe [AF].

Craspedoxantha polyspila Bezzi 1924[470]: 505.—Zimbabwe. Salisbury [Harare]. HT ♀ SAMCT. [6600400]

unimaculata. South Africa [AF].

Craspedoxantha marginalis var. *unimaculata* Bezzi 1924[470]: 505.—South Africa. Cape: Gt. Winterhoek Mt., Tulbagh. HT ♂ SAMCT. [6600399]

vernoniae. Ethiopia, Kenya, Tanzania, Malawi, Zimbabwe [AF].

Craspedoxantha vernoniae Freidberg 1985[1560]: 199.—Kenya. Eldoret. HT ♀ TAUI. [6601339]

yaromi. Kenya, Tanzania [AF].

Craspedoxantha yaromi Freidberg 1985[1560]: 201.—Kenya. E of Kakamega, Chepsonoi. HT ♀ TAUI. [6601340]

Genus CRASPEDOXANTHITA

Craspedoxanthitea Hardy 1987[1963]: 285, *flaviseta* Hardy (OD). [6600592]

flaviseta. Papua New Guinea (Morobe) [AU].

Craspedoxanthitea flaviseta Hardy 1987[1963]: 286.—Papua New Guinea. Morobe: Wau, 1200 m. HT ♂ BBM. [6601819]

indistincta. Indonesia (Irian Jaya) [AU].

Trypeta indistincta Meijere 1913[3316]: 364.—Indonesia. Irian Jaya: Lorentz R., Alkmaar. HT ♂ ZMAN. Type data (Hardy 1987: 287). [6604915]

Genus CRIBRORIOXA

Cribrorioxa Hering 1952[2217]: 44, *perforata* Hering (OD). [6600354]

perforata. Indonesia (Nusa Tenggara) [OR].

Cribrorioxa perforata Hering 1952[2217]: 44.—Indonesia. Nusa Tenggara: w. Sumba I., Waimangura. HT ♂ NMB. [6602667]

Genus CRINITISOPHIRA

Crinitisophira Hardy 1986[1961]: 69, *bicolor* Hardy (OD). [6600564]

bicolor. Indonesia (Maluku), Papua New Guinea [AU].

Crinitisophira bicolor Hardy 1986[1961]: 70.—Indonesia. Maluku: s. Batjan [Bacan I.], 0 m. HT ♀ BBM. [6601756]

Genus CRISTOBALIA

Cristobalia Malloch 1939[3135]: 265, *lutea* Malloch (OD). [6600593]

lutea. Solomon Is. [AU].

Cristobalia lutea Malloch 1939[3135]: 265.—Solomon Is. San Cristobal: Kirakira. HT ♀ BMNH. [6603331]

Genus CRYPTODACUS

Cryptodacus Hendel 1914[2102]: 84, *obliquus* Hendel (OD). [6600018]

Lezca Foote 1978[1510]: 27, *tau* Foote (OD). [6600639]

Cryptodacus Hendel 1914[2103]: 12, *obliquus* Hendel (OD). Pre-occ. Hendel 1914: 84. [6600768]

REF.—Norrbon 1994[3663]: 38 (revision of 8 spp. [NE, NT]).

lopezi. Guatemala [NT].

Cryptodacus lopezi Norrbom 1994[3663]: 40.—Guatemala. Sacatepequez: Finca Capetillo. HT ♀ USNM. [6605334]

obliquus. Peru, Bolivia [NT].

Cryptodacus obliquus Hendel 1914[2102]: 84.—Bolivia. Songo. LT ♂ MNM. Lectotype designated by Norrbom 1994: 41. [6601938]

Cryptodacus obliquus Hendel 1914[2103]: 12.—Bolivia. Songo. HT ♂ MNM. Preocc. Hendel 1914: 84. [6601954]

ornatus. Colombia, Brazil (Amazonas) [NT].

Cryptodacus ornatus Norrbom 1994[3663]: 41.—Colombia. “Cordill., terra caliente”. HT ♀ ZMHU. [6605335]

parkeri. Costa Rica [NT].

Cryptodacus parkeri Norrbom 1994[3663]: 43.—Costa Rica. Guanacaste: 3 km. SE Rio Naranjo. HT ♂ USU. [6605336]

quirozi. Mexico (Veracruz) [NT].

Cryptodacus quirozi Norrbom 1994[3663]: 44.—Mexico. Veracruz: Apazapan. HT ♀ IEXV. [6605337]

silvai. Brazil (Rio Grande do Sul) [NT].

Cryptodacus silvai Lima 1947[2968]: 153.—Brazil. Rio Grande do Sul: Rio Grande. HT ♀ ENA. [6602970]

tau. Mexico (Sonora, Sinaloa, Morelos), Guatemala [NE, NT].

Lezca tau Foote 1978[1510]: 27.—Mexico. Morelos: Cuernavaca. HT ♀ USNM. [6601281]

tigreroi. Ecuador [NT].

Cryptodacus tigreroi Norrbom 1994[3663]: 46.—Ecuador. Pichincha: Valle de Tumbaco. HT ♀ USNM. [6605338]

Genus CRYPTOPHORELLIA

Cryptophorellia Freidberg & Hancock 1989[1567]: 18, *Trypeta peringueyi* Bezzi (OD). [6600784]

REF.—Freidberg & Hancock 1989[1567]: 15 (revision of 16 spp. [AF]).

elongatula. Madagascar [AF].

Cryptophorellia elongatula Freidberg & Hancock 1989[1567]: 39.—Madagascar. Fianarantsoa: Plateau Soaindrana, Andringitra-Ambalavao, 2060 m. HT ♂ NMP. [6601350]

flava. Uganda, Kenya [AF].

Cryptophorellia flava Freidberg & Hancock 1989[1567]: 33.—Kenya. 8 km. NE Kericho. HT ♂ TAUI. [6601345]

longicauda. Nigeria, Cameroon, Uganda, Kenya [AF].

Cryptophorellia longicauda Freidberg & Hancock 1989[1567]: 34.—Kenya. E of Kakamega, Chepsonoi. HT ♂ TAUI. [6601346]

madagascariensis. Madagascar [AF].

Cryptophorellia madagascariensis Freidberg & Hancock 1989[1567]: 40.—Madagascar. Ankaratra Massif, Tsiafajavona Peak. HT ♂ NMP. [6601351]

minuta. Madagascar [AF].

Cryptophorellia minuta Freidberg & Hancock 1989[1567]: 42.—Madagascar. Fianarantsoa: Plateau Soaindrana, Andringitra-Ambalavao, 2060 m. HT ♂ NMP. [6601352]

montana. Kenya [AF].

Cryptophorellia montana Freidberg & Hancock 1989[1567]: 36.—Kenya. Uplands. HT ♂ TAUI. [6601347]

munroi. South Africa [AF].

Cryptophorellia munroi Freidberg & Hancock 1989[1567]: 30.—South Africa. Transvaal: Zoutpansberg, Entabeni. HT ♂ SANC. [6601342]

peringueyi. Uganda, Kenya, Zimbabwe, South Africa [AF].

Phorellia peringueyi Bezzi 1924[470]: 488.—South Africa. Cape: Cape Town. HT ♀ SAMCT. [6600392]

Trypeta doris Munro 1939[3487]: 41.—South Africa. Transvaal: Pretoria. HT ♂ SANC. [6603626]

phaeoptera. South Africa [AF].

Phorellia phaeoptera Bezzi 1926[476]: 284.—South Africa. Cape: East London. HT ♀ SANC. [6600520]

prairiensis. Madagascar [AF].

Cryptophorellia prairiensis Freidberg & Hancock 1989[1567]: 44.—Madagascar. Antsiranana: Diego Suarez [Antsiranana], Joffreville, Prairie de lisieres, 840 m. HT ♂ NMP. [6601353]

stenoptera. Madagascar [AF].

Cryptophorellia stenoptera Freidberg & Hancock 1989[1567]: 45.—Madagascar. Andringitra S., Andrianony, Manjarivolo basin, 1650 m. HT ♂ MNHNP. [6601354]

stuckenbergi. Madagascar [AF].

Cryptophorellia stuckenbergi Freidberg & Hancock 1989[1567]: 46.—Madagascar. Antananarivo: Ambatolampy dct., Lac Froid, 1620 m. HT ♂ NMP. [6601355]

tarsata. Uganda [AF].

Cryptophorellia tarsata Freidberg & Hancock 1989[1567]: 37.—Uganda. Ruwenzori Range, Balirungi River, 11200 ft. HT ♂ BMNH. [6601348]

trivittata. Kenya, Zambia, Malawi [AF].

Cryptophorellia trivittata Freidberg & Hancock 1989[1567]: 37.—Kenya. Kipkelion. HT ♂ TAU. [6601349]

vumbaensis. Malawi, Zimbabwe [AF].

Cryptophorellia vumbaensis Freidberg & Hancock 1989[1567]: 31.—Zimbabwe. N. Vumba. HT ♂ NMP. [6601343]

zombaensis. Kenya, Malawi [AF].

Cryptophorellia zombaensis Freidberg & Hancock 1989[1567]: 32.—Malawi. Zomba Plateau, Emperor's View. HT ♂ TAU. [6601344]

Genus *CRYPTOTRETA*

Cryptotreta Blanc & Foote 1961[522]: 82, *Eurosta pallida* Cole (OD). [6600020]

cislimitensis. USA (California) [NE].

Cryptotreta cislimitensis Steyskal 1977[4644]: 147.—USA. California: San Diego Co., Chula Vista. HT ♂ USNM. [6604399]

Cryptotreta pallida: Foote & Blanc 1963[1521]: 14.—misid. See Steyskal & Foote 1977: 147. [6605607]

pallida. Mexico (Baja California) [NE].

Eurosta pallida Cole 1923[887]: 472.—Mexico. Baja California: San Franciscuito Bay. HT ♂ CAS. Type data (Arnaud 1979: 330). [6600733]

Genus *CURTICELLA*

Curticella Hardy 1959[1933]: 209, *Trypeta approximans* Walker (OD). [6600560]

approximans. Indonesia (Sulawesi, Irian Jaya), Papua New Guinea, Bismarck Arch. [OR, AU].

Trypeta approximans Walker 1860[4966]: 160.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 210. [6604633]

Genus *CYAFORMA*

Cyaforma Wang 1989[4989]: 358, *shenonica* Wang (OD). [6600785]

REF.—Norrbon 1994[3662]: 10 (key to 3 spp. [OR]).

macula. China (Yunnan) [OR].

Ortalotrypeta macula Wang 1988[4987]: 220.—China. Yunnan: Lushui, 2300 m. HT ♀ IZAS. [6604680]

shenonica. China (Hubei, Sichuan) [PA].

Cyaforma shenonica Wang 1989[4989]: 359.—China. Hubei: Shennongjia (31°24'N, 110°24'E). HT ♂ IZAS. [6604688]

tonkinensis. Vietnam [OR].

Ortalotrypeta tonkinensis Zia 1955[5311]: 66.—Vietnam. Tonkin. HT ♀ IZAS. [6605188]

Genus *CYCLOPSIA*

Cyclopsia Malloch 1939[3137]: 444, *inaequalis* Malloch (OD) = *inscriptus* Walker. [6600571]

REF.—Hardy 1983[1958]: 155 (key to 2 spp. [OR, AU]).

inscripta. Indonesia (Maluku, Irian Jaya), Papua New Guinea [AU].

Dacus inscriptus Walker 1860[4967]: 162.—Indonesia. Maluku: Amboyna [Ambon I.]. T ♀ BMNH. ST lost or Walker misstated sex, only male in BMNH (Hardy 1959:176). [6604636]

Cyclopsia inaequalis Malloch 1939[3137]: 445.—Indonesia. Irian Jaya: Cyclops Mts., Sabron, Camp 2, 2000 ft. HT ♂ BMNH. [6603357]

univittata. Philippines (Luzon, Palawan, Leyte) [OR].

Cyclopsia univittata Hardy 1970[1940]: 87.—Philippines. Luzon, Laguna: Mount Makiling, Mud Spring, 1000 m. HT ♀ BBM. [6601533]

Genus *DACOPSIS*

Dacopsis Hering 1944[2210]: 2, *dacina* Hering (OD) = *signata* Walker. [6600502]

Sophira: Malloch 1939[3137]: 430, misid. See Hardy 1980: 123. [6600927]

REFS.—Hardy 1958[1931]: 367 ((*Sophira*) key to 5 spp. [OR, AU]); Hardy 1974[1943]: 80 ((*Sophira*) key to 3 spp. [OR: Philippines]); Hardy 1980[1949]: 151 (key to 7 spp. [OR, AU: Indonesia to Solomon Is.]).

apicalis. New Britain [AU].

Dacopsis apicalis Hardy 1980[1949]: 151.—Papua New Guinea. New Britain: Gazelle Peninsula, Warongoi Valley, 100 m. HT ♂ BBM. [6601684]

caeca. Philippines (Luzon) [OR].

Rioxa caeca Bezzi 1914[450]: 326.—Philippines. Luzon, Laguna: Los Banos. ST ♀ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM. [6600248]

flava. Indonesia (Irian Jaya), Papua New Guinea, Australia (n. Qld.) [AU].

Rioxa flava Edwards 1915[1290]: 421.—Indonesia. Irian Jaya: Mimika River. HT ♀ BMNH. [6601127]

Dacopsis picturata Hardy 1980[1949]: 155.—Papua New Guinea. Northern: Kokoda, 366 m. HT ♂ BMNH. [6601685]

holoxantha. Malaysia (Sarawak), New Guinea, New Ireland, New Britain [OR, AU].

Sophira holoxantha Hering 1941[2196]: 21.—Papua New Guinea. New Britain: Ralum [Kokopo]. HT ♀ ZMHU. [6602516]

mantissa. Malaysia, Indonesia (Sumatra) [OR].

Sophira mantissa Hering 1952[2218]: 275.—Indonesia. e. Sumatra: Pangkalan Kasai, Inderagiri, Riouw Residency. HT ♀ RNH. [6602677]

medioflava. Philippines (Samar, Mindanao) [OR].

Sophira medioflava Hardy 1974[1943]: 83.—Philippines. Mindanao, Zamboanga del Norte: 8 km. S Manucan, 420 m. HT ♂ BBM. [6601672]

quadripunctata. Solomon Is. [AU].

Sophira quadripunctata Malloch 1939[3135]: 255.—Solomon Is. Guadalcanal: Lunga. HT ♀ BMNH. [6603325]

signata. Philippines, Indonesia (Sulawesi, Maluku) [OR, AU].

Seraca signata Walker 1860[4966]: 165.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 196. [6604635]

Psila bipunctifera Walker 1860[4966]: 165.—Indonesia. Sulawesi: Makassar [Ujung Padang]. T ♂ BMNH. Sex of ST misstated by Walker, only male in BMNH. N. Syn. [6605883]

Dacopsis dacina Hering 1944[2210]: 3.—Indonesia. Maluku: Amboina [Ambon I.]. HT ♀ NMW. [6602635]

Genus *DACUS*

REFS.—Bezzi 1909[444]: 295 (key to 67 spp. (obsolete) [AF OR AU]); Bezzi 1915[452]: 87 (key to 20 spp. [AF]); Bezzi

1924[470]: 452, 458 (keys to 35 spp.[AF: South Africa]); Bezzi 1924[469]: 81, 85 (keys to 66 spp. [AF]); Hendel 1927[2107]: 25 (key to 13 spp. (obsolete) [PA]); Hering 1937[2173]: 257 (keys to 5 spp. (supplement to Bezzi 1924) [AF]); Collart 1935[891]: 2 (keys to 6 subgenera & 35 spp.[AF: Zaire]); Munro 1984[3524]: 29 (revision of 163 spp. [AF]); White & Elson-Harris 1992[5111]: 72, 125 (keys to adults of 11 spp. & larvae of 2 spp. of economic importance [PA AF OR AU]); Kapoor 1993[2600]: 21 (key to 3 subgenera & 10 spp.[OR: India]).

Subgenus *CALLANTRA*

Callantra Walker 1860[4966]: 153, *smieroides* Walker (MO). [6600466]
Mellessis Bezzi 1916[453]: 114, *Monacrostichus crabroniformis* Bezzi (OD). [6600816]
Paracallantra Hendel 1927[2110]: 59, *vespiformis* Hendel (OD). [6600493]
Calantra Scudder 1882[4334]: 53, missp. *Callantra* Walker. Attributed to Loew 1862 by Verrall. [6600951]

REFS.—Hardy 1973[1942]: 9 (key to 4 spp.[OR: Southeast Asia]); Hardy 1974[1943]: 6 (key to 7 spp.[OR: Philippines]); Hardy 1983[1952]: 181 (key to 3 spp.[OR: Indonesia: Sulawesi]); Ito 1983[2415]: 6 (key to 2 spp.[PA OR: Japan]); Drew 1989[1232]: 249 (key to 10 spp. [AU]); Wang 1990[4991]: 67 (key to 10 spp.[PA OR: China]); Kapoor 1993[2600]: 21 (key to 8 spp.[OR: India])

apicalis. India (W. Bengal), Burma, Taiwan [OR].

Mellessis apicalis Shiraki 1933[4432]: 117.—Taiwan. Koshun, Shijyukei. ST ♂ ♀ NTU. [6604260]

axanus. Indonesia (Nusa Tenggara & Maluku) to Bismarck Arch. & ne. & nw. Australia [OR, AU].

Callantra axana Hering 1938[2180]: 410.—Indonesia. Maluku: Key Is. [Kai Is.]. HT ♂ BMNH. [6602311]

Callantra auricoma May 1956[3227]: 153.—Australia. Queensland: Ayr. HT ♂ QMBA. [6603398]

Callantra smieroides: Drew 1972[1217]: 189.—misid. See Drew 1989: 241. [6605090]

bannatus. China (Yunnan) [OR].

Callantra bannata Wang 1990[4991]: 69.—China. Yunnan: Xishuangbanna (22°N 100°8'E), 650 m. HT ♂ IZAS. [6605000]

bioculatus. Philippines [OR].

Mellessis bioculata Bezzi 1919[461]: 437.—Philippines. Luzon, Laguna: Mt. Makiling. LT ♂ Baker. Lectotype designated by Hardy 1969: 479, currently in MCSNM. [6600329]

bispinosus. China (Jiangsu, Yunnan) [PA, OR].

Callantra bispinosa Wang 1990[4991]: 71.—China. Yunnan: Kunming (25°N 102°7'E). HT ♀ IZAS. [6605003]

capillaris. Bougainville I. [AU].

Callantra capillaris Drew 1972[1217]: 185.—Papua New Guinea. North Solomons: Bougainville I., Kieta, Wabirong Village. HT ♂ QMBA. [6600983]

conopsoides. Indonesia (Java) [OR].

Dacus conopsoides Meijere 1911[3314]: 378.—Indonesia. Java: Depok; & nr. Batavia [Jakarta], Muara Antjol. ST ♂ ♀ ZMAN? [6604908]

crabroniformis. India (Karnataka, Tamil Nadu) [OR].

Monacrostichus crabroniformis Bezzi 1914[451]: 153.—India. Tamil Nadu: Shevaroy Hills, Yerkaud, 4500 ft. HT ♂ BMNH. [6600251]

destillatorius. China (Yunnan), Burma, Thailand, Laos [OR].

Mellessis destillatoria Bezzi 1916[453]: 118.—Burma. Kachin: Bhamo [24°16'N 97°14'E]. HT ♀ MCSNM. [6600271]

Callantra variegata Wang 1990[4991]: 73.—China. Yunnan: Daimonglong [Damenglong] (23°N 99°E). HT ♂ IZAS. [6605004]

discophorus. India (Himachal Pradesh), Sri Lanka [OR].

Callantra discophora Hering 1956[2226]: 64.—Sri Lanka. Central: Teldeniya [7°18'N 80°46'E]. HT ♂ NMB. [6602723]

discors. Papua New Guinea (Morobe) [AU].

Dacus discors Drew 1989[1232]: 242.—Papua New Guinea. Morobe: Bulolo, Upper Manki logging area. HT ♂ QMBA. [6601054]

esakii. Japan (Kyushu), Taiwan [PA, OR].

Mellessis esakii Shiraki 1939[4433]: 410.—Japan. Kyushu: Buzen, Hikosan; Nagasaki-ken, Ikiriki; & Taiwan. Taihoku. ST ♂ ♀ NTU. [6604337]

eumenoides. India (Bihar, Andaman Is.), Burma, Thailand [OR].

Mellessis eumenoides Bezzi 1916[453]: 119.—Burma. Takton. LT ♂ BMNH. Lectotype designated by Hardy 1969: 478. [6600272]

formosanus. Taiwan [OR].

Callantra formosana Tseng & Chu 1983[4838]: 119.—Taiwan. Kaoshiung: Paulei, ca. 350 m. HT ♂ BCIQT. [6604549]

icariiformis. India (Sikkim), Burma [OR].

Callantra icariiformis Enderlein 1920[1330]: 358.—India. Sikkim; & Burma. Salween [R.]. ST ♂ ♀ ZMHU. [6601198]

ihai. Japan (Ryukyu Is.) [OR].

Callantra ihai Shiraki 1968[4435]: 4.—Japan. Ryukyu Is.: Okinawa, near Nago, Asahikawa. HT ♀ NIAS. [6604343]

impar. Papua New Guinea (Morobe, Western Highlands) [AU].

Dacus impar Drew 1989[1232]: 243.—Papua New Guinea. Morobe: Bulolo, Mt. Susu. HT ♂ QMBA. [6601055]

indecorus. Philippines (Luzon) [OR].

Callantra indecora Hardy 1974[1943]: 7.—Philippines. Luzon, Mountain: Ifugao, Mayoyao, 1200-1500 m. HT ♂ BBM. [6601669]

infernus. Thailand [OR].

Callantra inferna Hardy 1973[1942]: 13.—Thailand. Tak: W side of Ping R. opposite Tak, 110 m. HT ♀ BBM. [6601547]

longicornis. Indonesia (Java, Maluku) [OR, AU].

Dacus longicornis Wiedemann 1830[5136]: 524.—Indonesia. Java. T ♀ UZMC. Type data (Zimsen 1954: 28). [6604754]

mayi. Papua New Guinea (Morobe) [AU].

Callantra mayi Drew 1972[1217]: 187.—Papua New Guinea. Morobe: Wau, 3800 ft. HT ♂ QMBA. [6600984]

melanohumeralis. Papua New Guinea (Central) [AU].

Dacus melanohumeralis Drew 1989[1232]: 244.—Papua New Guinea. Central: Hombrom Bluff [9°23'S 147°20'E]. HT ♂ QMBA. [6601056]

munroi. India (Uttar Pradesh) [OR].

Callantra munroi Zaka-ur-Rab 1961[5280]: 538.—India. Uttar Pradesh: Aligarh. HT ♀ AMUZ. [6604823]

Callantra munroi Agarwal 1986[37]: 259.—missp. *munroi* Zaka-ur-Rab. [6600065]

nepalensis. Nepal, China (Yunnan) [OR].

Callantra nepalensis Hardy 1964[1934]: 149.—Nepal. River Arun, rocky ravine on E shore, c. 2000 ft. HT ♀ BMNH. [6601504]

nummularius. Philippines [OR].

Mellessis nummularia Bezzi 1916[453]: 115.—Philippines. Luzon, Laguna: Mt. Banahao [14°04'N 121°29'E]. LT ♂ Baker. Lectotype designated by Hardy 1969: 479, currently in MCSNM; type data (Bezzi 1919: 44). [6600268]

pedunculatus. Philippines [OR].

Mellessis pedunculata Bezzi 1916[453]: 115.—Philippines. Luzon, Laguna: Mt. Makiling. LT ♂ Baker. Lectotype designated by Hardy 1969: 479, currently in MCSNM; type data (Bezzi 1919: 43). [6600330]

petioliformus. Australia (Qld.) [AU].

Callantra petioliforma May 1956[3227]: 151.—Australia. Queensland: Rockhampton. HT ♂ QMBA. [6603397]

pictus. Philippines (Palawan) [OR].

Callantra picta Hardy 1970[1940]: 72.—Philippines. Palawan: Uring Uring, Brooke's Point. HT ♂ UZMC. Type data (Hardy 1974: 12). [6601527]

polistiformis. Bangladesh [OR].

Mellesis polistiformis Senior-White 1922[4359]: 156.—Bangladesh. base of e. Himalayas, Khasia Hills, Sukna, 500 ft. HT ♂ BMNH. [6604244]

pullus. Indonesia (Sulawesi) [OR].

Callantra pullus Hardy 1982[1952]: 181.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 650 m. HT ♂ MZB. [6601700]

pusillus. Australia (Qld.) [AU].

Callantra pusilla May 1965[3234]: 58.—Australia. Queensland: Kuranda. HT ♂ QMBA. [6603416]

quadristriatus. India (Bihar) [OR].

Callantra quadristriata Munro 1984[3524]: 155.—India. Bihar: Pusa. ST ♂ ♀ SANC. [6603879]

satanas. China (Yunnan), n. Vietnam [OR].

Callantra satanas Hering 1939[2182]: 166.—Vietnam. Ha Son Binh: Hoa Binh. HT ♂ MNHNP. [6602399]

Callantra ziae Wang 1990[4991]: 71.—China. Yunnan: Xiaomengyang (22°N 100°8'E), 850 m. HT ♂ IZAS. [6605002]

sinensis. China (Yunnan) [OR].

Callantra sinensis Wang 1990[4991]: 70.—China. Yunnan: Daimenglong [Damenglong] (23°N 99°E), 650 m. HT ♂ IZAS. [6605001]

smieroides. w. Malaysia, Borneo, Indonesia (Sulawesi) [OR].

Callantra smieroides Walker 1860[4966]: 154.—Indonesia. Sulawesi: Makassar [Ujung Padang]. T ♂ BMNH. Sex of ST probably misstated by Walker, only male in BMNH (Hardy 1959: 162), but also see Drew (1989: 248). [6604622]

Callantra smicroides Bezzi 1913[448]: 84.—emend. *smieroides* Walker. [6600235]

solomonensis. Bougainville I., Solomon Is. [AU].

Dacus solomonensis Malloch 1939[3135]: 236.—Solomon Is. Guadalcanal: Lunga. HT ♀ BMNH. [6603312]

sphaeroidalis. Pakistan, India, Thailand, China (Fujian), Vietnam [OR].

Mellesis sphaeroidalis Bezzi 1916[453]: 115.—India. Uttar Pradesh: Dehra Dun. HT ♂ BMNH. [6600269]

subsessilis. Philippines [OR].

Mellesis subsessilis Bezzi 1919[461]: 435.—Philippines. Panay, Antique: Culasi. HT ♀ MCSNM. [6600328]

trimacula. China (Shandong, Yunnan, Guizhou, Fujian) [PA, OR].

Callantra trimacula Wang 1990[4991]: 68.—China. Yunnan: Kunming (25°N 102°7'E). HT ♂ IZAS. [6604999]

unicolor. New Britain [AU].

Callantra unicolor Hendel 1927[2110]: 58.—Papua New Guinea. New Britain. HT ♂ ZSZMH. HT destroyed (Drew 1989: 249). [6602143]

unifasciatus. Indonesia (Sulawesi) [OR].

Callantra unifasciatus Hardy 1982[1952]: 184.—Indonesia. cent. Sulawesi: Wotu, near sealevel. HT ♂ MZB. [6601701]

vespiformis. New Britain [AU].

Paracallantra vespiformis Hendel 1927[2110]: 60.—Papua New Guinea. New Britain. HT ♂ ZSZMH. HT destroyed (Drew 1989: 267). [6602144]

vespoides. Indonesia (Maluku) [AU].

Bactrocera vespoides Doleschall 1858[1203]: 123.—Indonesia. Maluku: Amboina [Ambon I.]. T A ZMHU. Possibly also ST in NMW (Bezzi 1913: 81). [6600941]

vittatus. Philippines (Mindanao) [OR].

Callantra vittata Hardy 1974[1943]: 13.—Philippines. Mindanao, Agusan: 10 km. SE of San Francisco. HT ♂ BBM. [6601633]

Subgenus DACUS

Dacus Fabricius 1805[1380]: 272, *armatus* Fabricius, Speiser 1924[4564]: 140 (SD). Designation of *Musca oleae* Rossi by Duponchel 1844: 574 invalid, not an originally included species. [6600089]

Tridacus Bezzi 1915[452]: 88, *Dacus armatus* Fabricius, Collart 1935[891]: 9 (SD). Proposed as a subgenus. [6600476]

Neodacus Perkins 1937[3783]: 58, *newmani* Perkins (OD). [6600477]

Ancylodacus Munro 1984[3524]: 66, *Dacus collarti* Munro (OD). [6600674]

Tythocalama Munro 1984[3524]: 157, *xanthaspis* Munro (OD). [6600700]

Dorylodacus Munro 1984[3524]: 65, *Leptoxyda fuscinervis* Malloch (OD). [6600673]

Desmodacus Munro 1984[3524]: 56, *claricognatus* Munro (OD). [6600670]

Rhamphodacus Munro 1984[3524]: 62, *Dacus adustus* Munro (OD). [6600672]

REFS.—Munro 1984[3524]: 30 (revision of 47 spp. (divided into 5 genera, not accepted) [AF]).

absonifacies. Australia (Qld.) [AU].

Polistomimetes absonifacies May 1956[3227]: 156.—Australia. Queensland: Stanthorpe. HT ♂ QMBA. [6603400]

adustus. Malawi [AF].

Dacus adustus Munro 1948[3498]: 14.—Malawi. Ruo. HT ♂ BMNH. [6603688]

alarifumidus. Papua New Guinea (Morobe) [AU].

Dacus alarifumidus Drew 1989[1232]: 251.—Papua New Guinea. Morobe: Wau Ecology Institute. HT ♂ QMBA. [6601057]

alulapictus. Papua New Guinea (Morobe) [AU].

Dacus alulapictus Drew 1989[1232]: 252.—Papua New Guinea. Morobe: Bulolo, Stony logging area. HT ♂ QMBA. [6601058]

ambliquis. Kenya [AF].

Dacus ambliquis Munro 1938[3484]: 162.—Kenya. Rabai. HT ♂ BMNH. [6603594]

armatus. Sierra Leone, Ghana, Nigeria, Zaire, Uganda, Malawi [AF].

Dacus armatus Fabricius 1805[1380]: 273.—“Guinea”. LT ♀ UZMC. Lectotype designation by inference of holotype by Drew 1979: 72; type data (Zimsen 1964: 484). [6601224]

Dacus limbipennis Macquart 1843[3076]: 374.—Indonesia. Java [error, Africa]. LT ♂ MNHNP. Lectotype designation by inference of holotype by Drew, Hancock & White 1994: 376. [6603210]

Dacus lulongaensis Collart 1935[891]: 20.—Zaire. Sankuru district, Lulonga, Isekumbaka. HT ♂ MRAC. [6600740]

badius. Papua New Guinea (Morobe, East Sepik) [AU].

Dacus badius Drew 1989[1232]: 253.—Papua New Guinea. Morobe: Wau Ecology Institute, 1150 m. HT ♂ QMBA. [6601059]

bakingiliensis. Cameroon [AF].

Dacus bakingiliensis Hancock 1985[1888]: 303.—Cameroon. Southwest: Bakingili. HT ♂ USNM. HT transferred from Texas A&M Univ. [6601459]

bellulus. Papua New Guinea, Australia (NT, Qld.) [AU].

Dacus bellulus Drew & Hancock 1981[1237]: 50.—Australia. Queensland: 34 km. S of Laura. HT ♂ QMBA. [6601107]

- bequaerti**. Zaire [AF].
Dacus bequaerti Collart 1935[891]: 26.—Zaire. Kivu: Walikale. HT ♂ MRAC. [6600742]
- bivittatus**. Senegal E to Kenya, S to South Africa [AF].
Leptoxyx bivittatus Bigot 1858[495]: 374.—Gabon. T ♀ MNHNP. [6600548]
Dacus cucumarius Sack 1908[4247]: 10.—Tanzania. Usambara. ST ♂ ♀ SMF. [6604164]
Dacus bipartitus Graham 1910[1782]: 167.—Nigeria. Lagos, Yaba. LT ♂ BMNH. Lectotype designated by Munro 1984: 34. [6601415]
Dacus rubiginosus Hendel 1928[2111]: 347.—Tanzania. Amani. ST ♂ ♀ DEI, NMW. Type data (Hardy 1968: 112). [6602179]
Dacus armatus var. *hulstaerti* Collart 1935[891]: 29.—Zaire. Equateur: Boende. HT ♀ MRAC. [6600743]
Dacus pectoralis Walker 1861[4968]: 322.—South Africa. Natal. LT A BMNH. Preocc. Walker 1859; Lectotype designation by inference of holotype by Hardy 1959: 180. [6604640]
Dacus bivittatus cucumarius f. *atrescens* Munro 1948[3497]: 622.—*Nomen nudum*. Kenya [error, Uganda]. Bwamba. HT ♂ SANC. Infrasubspecific name (see Art. 45f(iii)). [6603686]
Dacus hulstaedi Munro 1984[3524]: 34.—missp. *hulstaerti* Collart. [6603887]
Tridacus armatus: Silvestri 1913[4459]: 89.—misid. [6605075]
- bombastus**. Kenya [AF].
Dacus bombastus Hering 1941[2196]: 5.—Kenya. Mombassa. HT ♂ ZMHU. [6602524]
- chrysomphalus**. Ethiopia, South Africa [AF].
Tridacus chrysomphalus Bezzi 1924[470]: 453.—South Africa. Natal: Zululand, M'fongosi. HT ♀ SAMCT. [6600374]
- claricognatus**. Zaire [AF].
Desmodacus claricognatus Munro 1984[3524]: 56.—Zaire. Haut-Zaire: Yangambi. HT ♀ SANC. [6603896]
- clinophleps**. Tanzania [AF].
Dacus clinophleps Hendel 1928[2111]: 344.—Tanzania. Amani. ST ♂ ♀ DEI. Also ST in ZMHU & NMW (Hardy 1968: 111, Munro 1984: 36) & SANC. [6602175]
- collarti**. Zaire [AF].
Dacus collarti Munro 1938[3485]: 163.—Zaire. Shaba: Kapanga. HT ♂ SANC. [6603601]
- concolor**. Australia (Qld.) [AU].
Dacus concolor Drew 1989[1232]: 255.—Australia. Queensland: Cape York, Bamaga airstrip. HT ♂ QMBA. [6601060]
- croceus**. Zaire, Uganda [AF].
Dacus croceus Munro 1957[3510]: 863.—Uganda. Ruwenzori Range, Kilembe, 4500 ft. HT ♀ BMNH. [6603751]
- cyathus**. Zaire [AF].
Desmodacus cyathus Munro 1984[3524]: 57.—Zaire. Haut-Zaire: Yangambi. HT ♀ SANC. [6603897]
- demmerezi**. Madagascar, Reunion, Mauritius [AF].
Tridacus demmerezi Bezzi 1917[454]: 63.—Mauritius. Redit. ST ♂ ♀ BMNH. [6600273]
Tridacus d'emmerezi Bezzi 1917[454]: 63.—incosp. *demmerezi* Bezzi. Automatic correction under Art. 32(d). [6605703]
Dacus emmerezi Orian & Moutia 1960[3710]: 144.—missp. *demmerezi* Bezzi. [6603937]
- diastatus**. Nigeria, Cameroon, Zaire [AF].
Dacus diastatus Munro 1984[3524]: 53.—Nigeria. Western, Owena. HT ♂ SANC. [6603895]
- disjunctus**. Nigeria, Zaire, Uganda [AF].
Tridacus disjunctus Bezzi 1915[452]: 96.—Uganda. Entebbe. HT ♀ BMNH. [6600259]
- dubisitatus**. Zaire? [AF].
Dacus dubisitatus Munro 1984[3524]: 47.—Zaire? HT ♂ MRAC. [6603892]
- durbanensis**. Malawi, Zimbabwe, South Africa [AF].
Dacus durbanensis Munro 1935[3475]: 18.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603561]
- eclipsis**. Malawi, Zimbabwe, South Africa [AF].
Tridacus eclipsis Bezzi 1924[469]: 83.—South Africa. Natal: Durban, Botanical Gardens. HT ♀ BMNH. [6600461]
- etiennellus**. Comoro Is. [AF].
Dacus etiennellus Munro 1984[3524]: 42.—Comoro Is. Grand Comoro I. or Mayotte I. HT ♂ MNHNP. [6603890]
- flavivrus**. Nigeria [AF].
Dacus flavivrus Graham 1910[1782]: 168.—Nigeria. Lagos, Yaba. HT ♀ BMNH. [6601416]
Dacus flavicans Graham 1910[1782]: 166.—incosp. *flavivrus* Graham. Bezzi 1924: 83 (FR). [6605180]
- fumosus**. Zaire [AF].
Dacus fumosus Collart 1935[891]: 17.—Zaire. Sankuru district, Lulonga, Befale. HT ♂ MRAC. [6600739]
- fuscinervis**. Mozambique, South Africa [AF].
Leptoxyda fuscinervis Malloch 1932[3128]: 301.—Mozambique. Lorenzo Marquez [Maputo]. HT ♀ USNM. [6603275]
Dacus doryloides Munro 1939[3487]: 32.—South Africa. Cape: Mossel Bay. HT ♀ BMNH. [6603621]
- ghesquierei**. Zaire [AF].
Dacus ghesquierei Collart 1935[891]: 31.—Zaire. Sankuru, Komi. HT ♂ MRAC. [6600744]
- guineensis**. Guinea [AF].
Dacus guineensis Hering 1944[2210]: 1.—Guinea [Guinea]. HT ♂ ZSZMH. [6602627]
- hargreavesi**. Uganda [AF].
Dacus hargreavesi Munro 1939[3490]: 139.—Uganda. Nawandala. HT ♂ BMNH. [6603640]
- humeralis**. Nigeria, Cameroon, Zaire [AF].
Tridacus humeralis Bezzi 1915[452]: 95.—Nigeria. Oshogbo. HT ♂ BMNH. [6600258]
- ikelenge**. Zambia [AF].
Dacus ikelenge Hancock 1985[1888]: 300.—Zambia. Ikelenge, Sakeji School. HT ♂ NMBZ. [6601457]
- kampalensis**. Uganda [AF].
Rhaphodacus kampalensis Munro 1984[3524]: 63.—Uganda. Kampala. HT ♀ SANC. [6603900]
- linearis**. Zaire [AF].
Dacus linearis Collart 1935[891]: 14.—Zaire. Stanleyville district, Lubutu. HT ♂ MRAC. [6600738]
- melanaspis**. Madagascar [AF].
Tythocalama melanaspis Munro 1984[3524]: 157.—Madagascar. Toamasina: Perinet, Foret Cote Est. HT ♂ MNHNP. [6603880]
- momordicae**. Ghana, Nigeria, Cameroon, Zaire, Kenya, Uganda [AF].
Tridacus momordicae Bezzi 1915[452]: 93.—Cameroon. Southwest: Victoria [Limbe]. ST ♂ ♀ IZUSN. Type data (Munro 1984:38); also 1 ST in SANC. [6600256]
Tridacus eburneus Bezzi 1915[452]: 93.—Uganda. Entebbe. HT ♂ BMNH. [6600255]
Dacus bipartitus: Bezzi 1913[4459]: 90.—misid. See Bezzi 1915: 93. [6604360]
- newmani**. Australia (WA, NT) [AU].
Neodacus newmani Perkins 1937[3783]: 58.—Australia. Western Australia: Carnarvon. LT ♀ QMBA. Lectotype designated by Drew 1989: 257. [6603955]
- notalaxus**. Uganda [AF].
Dacus notalaxus Munro 1984[3524]: 39.—Uganda. Mpanga Forest, Tora. HT ♂ SANC. [6603889]
- pecropsis**. Zimbabwe [AF].
Dacus pecropsis Munro 1984[3524]: 44.—Zimbabwe. North Vumba. HT ♂ NMP. [6603891]

- phantoma**. Cameroon [AF].
Dacus phantoma Hering 1941[2196]: 6.—Cameroon. Lolodorf. HT ♀ ZMHU. [6602525]
- pleuralis**. Zaire, Kenya, Malawi, Zimbabwe [AF].
Dacus sphaeristicus var. *pleuralis* Collart 1935[891]: 11.—Zaire. Beni a Lesse. HT ♀ MRAC. [6600737]
Dacus masaicus Munro 1937[3479]: 42.—Kenya. Narok; & Zimbabwe. Chirinda Forest. ST ♂ ♀ BMNH. [6603577]
Dacus illotus Collart 1940[893]: 3.—Zaire. Usumbura. HT ♂ MRAC. [6600754]
- punctatifrons**. Sierra Leone E to Kenya, S to South Africa, Yemen [AF].
Dacus punctatifrons Karsch 1887[2618]: 8.—Angola. Pungo Andongo. ST ♀ ZMHU. Karsch misstated sex of 1 ST, both are female; designation of HT by Munro 1984: 51 invalid. [6602860]
Dacus furcatus Hendel 1928[2111]: 345.—Tanzania. Amani. ST A DEI, NMW. Preocc. Wiedemann 1830; Type data (Hardy 1968: 112, Munro 1984: 53), also ST in BMNH & SANC. [6602177]
- sakeji**. Zambia [AF].
Dacus sakeji Hancock 1985[1888]: 301.—Zambia. Ikelenge, Sakeji School. HT ♂ NMBZ. [6601458]
- schoutedeni**. Zaire, Uganda, Tanzania [AF].
Dacus schoutedeni Collart 1935[891]: 11.—Zaire. Haut-Zaire: Mauda. HT ♀ MRAC. [6600736]
- secamoneae**. Australia (NT) [AU].
Dacus secamoneae Drew 1989[1232]: 257.—Australia. Northern Territory: Fogg Dam. HT ♂ QMBA. [6601061]
- setilatens**. Cameroon, Zaire [AF].
Dacus setilatens Munro 1984[3524]: 35.—Zaire. Equateur: Tsuapa [Tshuapa R.], Ikela. HT ♂ MRAC. [6603888]
- signatifrons**. Australia (Qld.) [AU].
Neodacus signatifrons May 1956[3227]: 155.—Australia. Queensland: near Brisbane, Pinkenba. HT ♂ QMBA. [6603399]
- sphaerostigma**. Zaire, South Africa [AF].
Tridacus sphaerostigma Bezzi 1924[470]: 457.—South Africa. Cape: East London. ST ♂ ♀ SANC. [6600376]
Dacus labeculatus Collart 1940[893]: 5.—Zaire. Kivu: Rutshuru. HT ♂ MRAC. [6600753]
- spissus**. Uganda [AF].
Dacus spissus Munro 1984[3524]: 49.—Uganda. Kabale Forest, Toro. HT ♂ BMNH. [6603893]
- stentor**. South Africa [AF].
Dacus stentor Munro 1929[3460]: 391.—South Africa. Transvaal: Barberton, Stentor farm. HT ♂ SANC. [6603464]
- taurus**. Nigeria [AF].
Dacus taurus Munro 1937[3479]: 43.—Nigeria. Ibadan. HT ♀ BMNH. [6603578]
- telfaireae**. Kenya, Tanzania, Malawi, Zimbabwe [AF].
Tridacus telfaireae Bezzi 1924[469]: 84.—Tanzania. Amani. ST ♂ ♀ BMNH. [6600462]
Dacus zimmermanni Hendel 1928[2111]: 346.—Tanzania. Amani. ST ♂ ♀ DEI. Also ST in NMW, ZMHU, BMNH (Hardy 1968: 112, Munro 1984: 53, White & Elson-Harris 1992:325) & SANC. [6602178]
- theophrastus**. Togo, Zaire [AF].
Dacus armatus f. *theophrastus* Hering 1941[2196]: 5.—Togo. Bismarckburg. HT ♂ ZMHU. [6602523]
- transitorius**. Zaire [AF].
Dacus transitorius Collart 1935[891]: 23.—Zaire. Shaba: Elisabethville [Lubumbashi]. HT ♂ MRAC. [6600741]
- verecundus**. Zaire [AF].
Dacus verecundus Collart 1940[893]: 10.—Zaire. Kivu: Rutshuru. HT ♂ MRAC. [6600748]
- xanthaspis**. Madagascar [AF].
Tythocalama xanthaspis Munro 1984[3524]: 157.—Madagascar. Toliara: Bepily [Bekily]. HT ♀ MNHNP. [6603881]
- xanthopterus**. Zambia, Malawi [AF].
Tridacus xanthopterus Bezzi 1915[452]: 94.—Malawi. Mlanje: Mt. Mlanje [Sapitwa]. HT ♀ BMNH. [6600257]
- yangambinus**. Zaire [AF].
Dacus yangambinus Munro 1984[3524]: 51.—Zaire. Haut-Zaire: Yangambi. HT ♂ SANC. [6603894]

Subgenus *DIDACUS*

- Didacus* Collart 1935[891]: 33, *Dacus ciliatus* Loew (OD). Proposed as a subgenus. [6600478]
Blaxodacus Munro 1984[3524]: 107, *Dacus aspilus* Bezzi (OD). [6600681]
Dixoodacus Munro 1984[3524]: 88, *Dacus ficicola* Bezzi (OD). [6600678]
Fusodacus Munro 1984[3524]: 118, *Dacus trigonus* Bezzi (OD). [6600684]
Abebaiodacus Munro 1984[3524]: 108, *Dacus fuscatus* Wiedemann (OD). [6600682]
Mictodacus Munro 1984[3524]: 101, *Dacus lounsburyi* Coquillett (OD). [6600680]
Ectopodacus Munro 1984[3524]: 83, *Dacus eminus* Munro (OD). [6600677]
Baucidacus Munro 1984[3524]: 120, *elegans* Munro (OD). [6600687]
Ambitidacus Munro 1984[3524]: 120, *Dacus brevistriga* Walker (OD). [6600688]
Acanodacus Munro 1984[3524]: 110, *Dacus brevis* Coquillett (OD). [6600683]
Myrmecodacus Munro 1984[3524]: 119, *mirificus* Munro (OD). [6600686]
Karphodacus Munro 1984[3524]: 118, *Dacus elutissimus* Bezzi (OD). [6600685]
Lactodacus Munro 1984[3524]: 94, *Dacus mulgens* Munro (OD). [6600679]

REFS.—Munro 1932[3463]: 151 (key to 8 spp. [AF]); Drew 1989[1232]: 264 (key to 5 spp. [AU]); Munro 1984[3524]: 73 (revision of 61 spp. (divided into 13 genera, not accepted) [AF]).

- abbabae**. Ethiopia [AF].
Dacus abbabae Munro 1933[3465]: 5.—Ethiopia. Addis Abbaba. ST ♂ ♀ AMNH. [6603499]
- abditus**. Angola [AF].
Didacus abditus Munro 1984[3524]: 78.—Angola. Chianga. HT ♂ SANC. [6603905]
- adenionis**. Kenya, Tanzania [AF].
Lactodacus adenionis Munro 1984[3524]: 99.—Kenya. Pare. HT ♂ SANC. [6603915]
- aequalis**. Australia (Qld., NSW) [AU].
Dacus aequalis Coquillett 1909[963]: 794.—Australia. New South Wales: Tuggerah Lakes, near Gosford. HT ♀ USNM. Lectotype designated by Drew 1989: 260 invalid, HT designated by Coquillett 1909: 794 in introduction. [6600807]
- africanus**. Zimbabwe, South Africa [AF].
Dacus africanus Adams 1905[33]: 169.—Zimbabwe. near Salisbury [Harare]. HT ♂ UKaL. Type data (Byers et al. 1962: 180). [6600063]
- amphoratus**. Mozambique, Zimbabwe [AF].
Dixoodacus amphoratus Munro 1984[3524]: 90.—Mozambique. Umbeluzi. HT ♂ SANC. [6603910]

- ancisus.** Angola [AF].
Mictodacus ancisus Munro 1984[3524]: 107.—Angola. Alto Capaca. HT ♂ SANC. [6603857]
- andriae.** Madagascar [AF].
Ectopodacus andriae Munro 1984[3524]: 86.—Madagascar. Antsiranana: 80 km. SE of Diego Suarez [Antsiranana], Andaramerana. HT ♀ ISTM. HT currently in SANC. [6603909]
- arcuatus.** Kenya, South Africa [AF].
Dacus arcuatus Munro 1939[3489]: 1.—Kenya. Chyulu Hills. HT ♂ BMNH. [6603634]
- aspilus.** Zaire, Uganda [AF].
Dacus aspilus Bezzi 1924[468]: 10.—Zaire. “K.245” from Kindu. HT ♀ MRAC. [6600513]
- attenuatus.** Zaire [AF].
Dacus attenuatus Collart 1935[891]: 36.—Zaire. Beni a Lesse. HT ♀ MRAC. [6600745]
Didacus attentuatus Cogan & Munro 1980[882]: 521.—missp. *attenuatus* Collart. [6600730]
- binotatus.** Zimbabwe, Mozambique, Lesotho, South Africa [AF].
Dacus binotatus Loew 1862[3037]: 7.—South Africa. Cape: Cap. Bon. Sp. [Cape of Good Hope]. T ♂ NRS? [6603124]
Dacus immaculatus Coquillett 1901[955]: 29.—South Africa. Cape: East London [error, Stellenbosch]. HT ♂ USNM. Sex of HT not stated by Coquillett, locality data from HT label. [6600795]
- bistrigulatus.** Namibia, South Africa, Lesotho [AF].
Dacus bistrigulatus Bezzi 1908[442]: 193.—South Africa. Cape: Kamaggas, “Klein Namaland”. HT ♀ ZMHU. [6600181]
- blepharogaster.** Eritrea [AF].
Dacus blepharogaster Bezzi 1917[454]: 68.—Eritrea. near Ghinda. HT ♂ MCSNM. [6600277]
- botianus.** Nigeria, Kenya, Angola, Zimbabwe, South Africa [AF].
Acanodacus botianus Munro 1984[3524]: 116.—South Africa. Transvaal: Pretoria, Roodeplaat. HT ♂ SANC. [6603864]
- brevis.** Kenya, Angola, Zimbabwe, Mozambique, South Africa [AF].
Dacus brevis Coquillett 1901[955]: 28.—South Africa. Cape: Bathurst. HT ♂ USNM. Sex of HT not stated by Coquillett. [6600794]
- brevistriga.** Kenya, South Africa [AF].
Dacus brevistriga Walker 1861[4968]: 322.—South Africa. Natal. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 166. [6604641]
Dacus katonae Bezzi 1924[469]: 86.—Kenya. Mto-ja-Kifaru. ST ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 134. [6600463]
Dacus katonai Munro 1935[3474]: 134.—emend. *katonae* Bezzi. [6605818]
- carnesi.** Nigeria [AF].
Ectopodacus carnesi Munro 1984[3524]: 85.—Nigeria. Lagos: 4 mi. NW of Agege. HT ♂ BMNH. [6603908]
- carvalhoi.** Angola [AF].
Lactodacus carvalhoi Munro 1984[3524]: 97.—Angola. Chianga. HT ♂ SANC. [6603913]
- ceropegiae.** Kenya [AF].
Acanodacus ceropegiae Munro 1984[3524]: 113.—Kenya. Ngong. HT ♂ SANC. [6603861]
- chiwira.** Malawi, Zimbabwe [AF].
Dacus chiwira Hancock 1985[1888]: 310.—Zimbabwe. near Umvukwes (Mvurwi), Chiwira Farm. HT ♂ NMBZ. [6601462]
- ciliatus.** Senegal E to Somalia, S to South Africa, Madagascar; introduced Mauritius, Reunion, Israel & Egypt E to Burma [PA, AF, OR].
Dacus ciliatus Loew 1862[3037]: 7.—Guinea; & South Africa. Cape: Cap. Bon. Sp. [Cape of Good Hope]. ST ♂ ♀ NRS, UZMC. Type data (Munro 1932: 152). [6603123]
- Dacus sigmoides* Coquillett 1901[955]: 29.—Mauritius. HT ♀ USNM. [6600796]
Dacus brevistylus Bezzi 1908[443]: 149.—Eritrea. Cheren; & vic. Adi Ugri. ST ♂ ♀ MZLS. Possibly also ST in MCSNM. [6600172]
Dacus apoxanthus var. *decolor* Bezzi 1924[470]: 467.—South Africa. Cape: Grahamstown. ST ♀ SANC. [6600383]
Dacus insistens Curran 1927[1037]: 85.—Zaire. Bas-Zaire: Boma (30°N 13°E). HT ♀ AMNH. [6600834]
Dacus cocciniae Premlata & Singh 1988[3885]: 401.—India. Punjab: Chandigarh. HT ♂ PUCP. N. Syn. [6604362]
Tridacus mallyi Munro 1925[3456]: 42.—*Nomen nudum*. Published without diagnosis or indication. Attributed to Bezzi. [6603463]
- cuspidatus.** Kenya [AF].
Acanodacus cuspidatus Munro 1984[3524]: 114.—Kenya. Nairobi, 1600 m. HT ♂ SANC. [6603862]
- devure.** Zimbabwe [AF].
Dacus devure Hancock 1985[1888]: 304.—Zimbabwe. Devure R., Devuli Bridge. HT ♂ NMBZ. [6601460]
- dissimilis.** Papua New Guinea (Morobe, Central, Northern) [AU].
Dacus dissimilis Drew 1989[1232]: 260.—Papua New Guinea. Morobe: Oomsis Forestry Reserve, Lae-Bulolo Rd. HT ♂ QMBA. [6601063]
- elegans.** Kenya [AF].
Baucidacus elegans Munro 1984[3524]: 120.—Not stated [Kenya. Kipkabas, 8200 ft.]. ST ♂ ♀ SANC. Type data reported from labels of ST (D.L. Hancock, pers. comm.). [6603867]
- elutissimus.** Togo [AF].
Dacus elutissimus Bezzi 1924[469]: 90.—Togo. Lome, 80 mi. W Cotonou. HT ♂ BMNH. [6600466]
- eminus.** Angola, Zimbabwe, Namibia, South Africa [AF].
Dacus eminus Munro 1939[3487]: 29.—South Africa. Transvaal: Rosslyn. HT ♂ SANC. [6603618]
- engoninus.** Tanzania, Zimbabwe, Swaziland, South Africa [AF].
Didacus engoninus Munro 1984[3524]: 82.—South Africa. Natal: Durban. HT ♂ SANC? [6603906]
- famona.** Malawi, Zimbabwe [AF].
Dacus famona Hancock 1985[1888]: 311.—Zimbabwe. Bulawayo, Famona. HT ♂ NMBZ. [6601463]
- fasciolatus.** Zaire, Uganda [AF].
Dacus fasciolatus Collart 1940[893]: 12.—Zaire. Kivu: near Rutshuru, Sinda. HT ♂ MRAC. [6600750]
- ficicola.** Zambia, Mozambique, Lesotho, South Africa [AF].
Dacus ficicola Bezzi 1915[452]: 100.—South Africa. Natal: Willow Grange. HT ♂ BMNH. [6600254]
- fonsicanus.** Angola [AF].
Didacus fonsicanus Munro 1984[3524]: 77.—Angola. Chianga. HT ♂ SANC. [6603904]
- frontalis.** Cape Verde Is., Egypt, Sudan, Yemen, Kenya to Namibia & South Africa [PA, AF].
Dacus frontalis Becker 1922[381]: 74.—Sudan. Bara. HT ♂ ZMHU. [6600159]
Dacus ciliatus var. *duplex* Munro 1932[3463]: 155.—South Africa. Transvaal: Rosslyn. ST ♂ ♀ SANC. [6603494]
Dacus scopatus Munro 1948[3498]: 22.—Kenya. Mbololo. HT ♂ SANC. [6603694]
- fuscatus.** Kenya, Tanzania, Angola, Zimbabwe, Lesotho, South Africa [AF].
Dacus fuscatus Wiedemann 1819[5132]: 28.—Prom. bon. sp. [South Africa. Cape: Cape of Good Hope]. ST ♂ UZMC, NMW. Type data (Wiedemann 1830: 519, Zimsen 1954: 28). [6604711]
Dasyneuba nebulosa Walker 1849[4957]: 1076.—Unknown [South Africa. Cape Colony]. LT ♂ BMNH. Lectotype

- designation by inference of holotype by Hardy 1959: 184. [6604584]
- Dacus asclepiadens* Bezzi 1924[470]: 468.—South Africa. Uniondale. ST ♀ SANC. [6600384]
- Dacus fuscatus* var. *subfuscatus* Bezzi 1924[470]: 460.—South Africa. Transvaal: Pretoria; Barberton; & Cape: East London. ST ♂ ♀ SANC. [6600377]
- Dacus furcatus* Wiedemann 1830[5136]: 683.—emend. *fuscatus* Wiedemann. [6605438]
- Dacus rufipes* Munro 1929[3459]: 3.—*Nomen nudum*. Attributed to Bigot. [6605503]
- Abebaiodacus fuscatus* f. *angolanus* Munro 1984[3524]: 110.—*Nomen nudum*. Angola. Chianga. HT ♀ SANC? Form or variety proposed after 1960. [6603858]
- Abebaiodacus fuscatus* f. *euchlorus* Munro 1984[3524]: 110.—*Nomen nudum*. South Africa. Umkomaas. ST ♂ ♀ SANC. Form or variety proposed after 1960. [6603859]
- Abebaiodacus fuscatus* f. *restrictus* Munro 1984[3524]: 110.—*Nomen nudum*. South Africa. Cape: East London. HT ♂ SANC. Form or variety proposed after 1960. [6603860]
- fuscovittatus*. Nigeria [AF].
- Dacus fuscovittatus* Graham 1910[1782]: 169.—Nigeria. Lagos, Yaba. HT ♀ BMNH. [6601417]
- gypsoides*. Zaire [AF].
- Dacus gypsoides* Munro 1933[3465]: 4.—Zaire. Equateur: Lukolela, left bank Congo River. HT ♂ AMNH. [6603498]
- hainanus*. China (Hainan) [OR].
- Dacus hainanus* Wang & Zhao 1989[5001]: 216.—China. Hainan (20°N, 110°24'E). HT ♂ IZAS. [6604695]
- hardyi*. Australia (NT, Qld.) [AU].
- Dacus hardyi* Drew 1979[1224]: 74.—Australia. Northern Territory: Fogg Dam. HT ♂ QMBA. [6600996]
- inopinus*. South Africa, Lesotho [AF].
- Dacus inopinus* Munro 1948[3498]: 24.—South Africa. Natal: Cedara. HT ♂ SANC. [6603696]
- jubatus*. Angola [AF].
- Didacus jubatus* Munro 1984[3524]: 77.—Angola. Chianga. HT ♀ SANC. [6603903]
- kariba*. Zimbabwe [AF].
- Dacus kariba* Hancock 1985[1888]: 309.—Zimbabwe. Kariba. HT ♂ NMBZ. [6601461]
- keiseri*. Sri Lanka [OR].
- Daculus keiseri* Hering 1956[2226]: 66.—Sri Lanka. North Central: Hingurakgoda [8°02'N 80°57'E]. HT ♂ NMB. [6602724]
- langi*. Cameroon, Zaire [AF].
- Dacus langi* Curran 1927[1037]: 85.—Zaire. Haut-Zaire: Stanleyville [Kisangani] (1°N 25°10'E). HT ♂ AMNH. [6600835]
- lounsburyi*. Angola, Zimbabwe, South Africa; Zaire, Madagascar? [AF].
- Dacus lounsburyi* Coquillett 1901[955]: 27.—South Africa. Cape: Cape Town. HT ♂ USNM. Sex & locality of HT not specified by Coquillett, from label data. [6600793]
- maprikensis*. Papua New Guinea (E. Sepik) [AU].
- Dacus maprikensis* Drew 1989[1232]: 262.—Papua New Guinea. East Sepik: Maprik. HT ♂ QMBA. [6601064]
- mirificus*. Zaire [AF].
- Myrmecodacus mirificus* Munro 1984[3524]: 119.—Zaire. Kivu: Rutshuru. HT ♂ MRAC. [6603866]
- mulgens*. South Africa, Lesotho [AF].
- Dacus mulgens* Munro 1932[3463]: 156.—South Africa. Cape: Middelburg. ST ♂ ♀ SANC. [6603495]
- nanus*. Zaire [AF].
- Dacus nanus* Collart 1940[893]: 15.—Zaire. Kivu: Rutshuru. HT ♂ MRAC. [6600751]
- opacatus*. Malawi [AF].
- Dacus opacatus* Munro 1948[3498]: 19.—Malawi. Cholo. HT ♀ BMNH. [6603692]
- opinatus*. Zaire, Rwanda, Kenya, South Africa [AF].
- Dacus opinatus* Munro 1956[3508]: 463.—Kenya. Kipkabus. HT ♂ SANC. [6603729]
- ortholomatus*. Indonesia (Sulawesi) [OR].
- Dacus ortholomatus* Hardy 1982[1952]: 188.—Indonesia. cent. Sulawesi: 65 km. SE Palu, Sadaunta, 650 m. HT ♂ MZB. [6601703]
- ostiofaciens*. South Africa; Ethiopia? [AF].
- Dacus ostiofaciens* Munro 1932[3463]: 158.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6603496]
- pallidilatus*. Zimbabwe [AF].
- Dacus pallidilatus* Munro 1948[3498]: 19.—Zimbabwe. Gota Gota, Urungwe. HT ♂ NMBZ. [6603693]
- palmerensis*. Australia (Qld.) [AU].
- Dacus palmerensis* Drew 1989[1232]: 263.—Australia. Queensland: Cape York Peninsula, Palmer River. HT ♂ QMBA. [6601065]
- pamelae*. Mozambique [AF].
- Lactodacus pamelae* Munro 1984[3524]: 97.—Mozambique. lower Zambezi R., Luabo. HT ♀ NMP. [6603914]
- panpyrrhus*. Zaire [AF].
- Didacus panpyrrhus* Munro 1984[3524]: 82.—Zaire. Kivu: PNV [Parque Nac. Virunga], Ganza, 680 m. HT ♂ SANC. [6603907]
- pintadus*. South Africa [AF].
- Acanodacus pintadus* Munro 1984[3524]: 117.—South Africa. Transvaal: Pretoria, Roodeplaat. HT ♀ SANC. [6603865]
- plagiatus*. Nigeria, Zaire, Kenya, Tanzania, Mozambique, Zimbabwe, South Africa [AF].
- Dacus plagiatus* Collart 1935[891]: 38.—Zaire. Nyangwe. HT ♂ MRAC. [6600746]
- Dacus vulpinus* Hering 1941[2195]: 66.—Kenya. Mto-ja-Kifaru. HT ♀ MNM. [6602541]
- pullescens*. Zaire, South Africa [AF].
- Dacus pullescens* Munro 1948[3498]: 23.—South Africa. Cape: Mossel Bay. HT ♂ SANC. [6603695]
- Dacus pullescens* var. *flavidus* Munro 1948[3498]: 24.—South Africa. Transvaal: Marble Hall, Rooibokkop. HT ♀ SANC. [6603697]
- rugatus*. Cameroon [AF].
- Lactodacus rugatus* Munro 1984[3524]: 96.—Cameroon. Northwest: Bamenda Hospital. HT ♂ BMNH. [6603912]
- serratus*. South Africa [AF].
- Acanodacus serratus* Munro 1984[3524]: 115.—South Africa. Transvaal: Rosslyn. HT ♂ SANC. [6603863]
- siliqualactis*. Uganda [AF].
- Dacus siliqualactis* Munro 1939[3487]: 30.—Uganda. Kampala. HT ♂ BMNH. [6603619]
- sphaeristicus*. Sudan, Zaire, Kenya, Tanzania, Malawi, Zimbabwe [AF].
- Dacus sphaeristicus* Speiser 1910[4561]: 183.—Tanzania. Kilimanjaro; Kibinota, 1300-1900 m. HT ♀ NRS. [6604382]
- tenebricus*. Uganda, Kenya [AF].
- Dacus osteofaciens* var. *tenebricus* Munro 1938[3484]: 161.—Kenya. Naivasha. HT ♂ BMNH. [6603592]
- trigonus*. Nigeria, Zaire, Tanzania [AF].
- Dacus trigonus* Bezzi 1919[458]: 179.—Nigeria. Oshogbo. HT ♂ BMNH. [6600312]
- Dacus triangulifer* Hendel 1928[2111]: 344.—Tanzania. Amani. HT ♀ DEI. [6602176]

tubatus. Tanzania [AF].

Dacus tubatus Munro 1948[3498]: 18.—Tanzania. Tanga. HT ♀ BMNH. [6603691]

umbeluzinus. Kenya, Mozambique [AF].

Dixoodacus umbeluzinus Munro 1984[3524]: 93.—Mozambique. Umbeluzi. HT ♂ SANC. [6603911]

vansomereni. Kenya [AF].

Dacus vansomereni Munro 1938[3484]: 161.—Kenya. Rabai. HT ♂ BMNH. [6603593]

venetatus. South Africa [AF].

Dacus venetatus Munro 1939[3487]: 26.—South Africa. Transvaal: Duivelskloof. HT ♂ SANC. [6603616]

vertebratus. Senegal E to Nigeria, Eritrea & Angola S to South Africa, Yemen, Madagascar [AF].

Dacus vertebratus Bezzi 1908[443]: 147.—Eritrea. Cheren. ST ♂ ♀ MZLS. Possibly also ST in MCSNM. [6600171]

Dacus vertebratus var. *marginalis* Bezzi 1915[452]: 100.—South Africa. Natal: Estcourt; & Zambia. Mayabuku. ST ♂ BMNH. [6600253]

Dacus triseriatus Curran 1927[1037]: 87.—Zaire. Haut-Zaire: Garamba (4°10'N 29°40'E). ST ♂ ♀ AMNH. [6600838]

Dacus mimeticus Collart 1935[891]: 43.—Zaire. Kisantu. HT ♂ MRAC. [6600747]

viator. South Africa [AF].

Dacus viator Munro 1939[3487]: 27.—South Africa. Transvaal: Pretoria, near De Wildt. HT ♂ SANC. [6603617]

zavattarianus. Ethiopia [AF].

Didacus zavattarianus Hering 1952[2219]: 93.—Ethiopia. Sidamo: Mega. HT ♂ BMNH. [6602687]

Subgenus *LEPTOXYDA*

Leptoxyda Macquart 1835[3073]: 452, *testacea* Macquart (MO) = *longistylus* Wiedemann. [6600235]

Psilodacus Collart 1935[891]: 5, *Dacus annulatus* Becker (OD). Proposed as a subgenus. [6600236]

Lophodacus Collart 1935[891]: 8, *Dacus hamatus* Bezzi (MO). Proposed as a subgenus. [6600090]

Guyodacus Munro 1984[3524]: 142, *Dacus marshalli* Bezzi (OD). [6600694]

Oligodacus Munro 1984[3524]: 121, *Dacus umbrilatus* Munro (OD). [6600689]

Xylenodacus Munro 1984[3524]: 144, *Dacus woodi* Bezzi (OD). [6600696]

Aoptodacus Munro 1984[3524]: 126, *Dacus semisphaereus* Becker (OD). [6600691]

Janseidacus Munro 1984[3524]: 143, *Dacus temnopterus* Bezzi (OD). [6600695]

Nebrodacus Munro 1984[3524]: 141, *Dacus apoxanthus* Bezzi (OD). [6600693]

Pionodacus Munro 1984[3524]: 151, *Dacus obesus* Munro (OD). [6600699]

Pycnodacus Munro 1984[3524]: 133, *Dacus macer* Bezzi (OD). [6600692]

Athlodacus Munro 1984[3524]: 150, *externellus* Munro (OD). [6600698]

Timiodacus Munro 1984[3524]: 125, *freidbergi* Munro (OD). [6600690]

Saccodacus Munro 1984[3524]: 146, *Dacus triater* Munro (OD). [6600697]

Leptoxys Macquart 1843[3076]: 373, missp. *Leptoxyda* Macquart. [6600849]

Leptoxida Agassiz 1846[52]: 20, missp. *Leptoxyda* Macquart. [6600952]

Lectoxyda Schiner 1868[4296]: 263, missp. *Leptoxyda* Macquart. [6600858]

REF.—Munro 1984[3524]: 123 (revision of 42 spp. (divided into 14 genera, not accepted) [AF]).

annulatus. Egypt, Saudi Arabia, Yemen, Ethiopia, Liberia, Zaire, Kenya, Tanzania [PA, AF].

Dacus annulatus Becker 1903[369]: 138.—Egypt. ST ♂ ♀ ZMHU. [6600114]

Psilodacus ariana Hering 1937[2173]: 258.—Ethiopia. Harrar [Harar: Harar]. ST ♂ ♀ ZMHU. [6602279]

apostata. Ethiopia [AF].

Psilodacus apostata Hering 1937[2173]: 257.—Ethiopia. Harrar [Harar: Harar]. HT ♂ ZMHU. [6602278]

apoxanthus. South Africa [AF].

Dacus apoxanthus Bezzi 1924[470]: 466.—South Africa. Cape: East London. ST ♂ ♀ SANC. Possibly also ST in SAMCT. [6600381]

Dacus bigemmatum Bezzi 1924[470]: 467.—South Africa. Natal: Zululand, M'fongosi. HT ♂ SAMCT. [6600382]

basifasciatus. Kenya [AF].

Didacus basifasciatus Hering 1941[2196]: 8.—Kenya. Kikuyu. HT ♀ ZMHU. [6602527]

chamun. Yemen [AF].

Nebrodacus chamun Munro 1984[3524]: 141.—Yemen. Usaifca, 1 mi. N of Ta'izz, ca. 4500 ft. HT ♂ BMNH. [6603876]

chapini. Nigeria, Zaire, Kenya, Tanzania [AF].

Dacus chapini Curran 1927[1037]: 86.—Zaire. Haut-Zaire: Faradje (3°40'N 29°40'E). HT ♀ AMNH. [6600836]

Dacus pinguis Munro 1948[3498]: 33.—Kenya. Meru. HT ♀ SANC. [6603701]

erythraeus. Eritrea [AF].

Dacus erythraeus Bezzi 1917[454]: 69.—Eritrea. Ghinda. ST ♂ ♀ MCSNM. [6600278]

externellus. Uganda, Tanzania [AF].

Athlodacus externellus Munro 1984[3524]: 150.—Uganda. Toro, Mpanga Forest. HT ♀ SANC. [6603878]

freidbergi. Uganda [AF].

Timiodacus freidbergi Munro 1984[3524]: 125.—Uganda. Nakasongola. HT ♀ SANC. [6603869]

hamatus. Ethiopia, Nigeria, Rwanda & Zaire to Angola & South Africa [AF].

Dacus hamatus Bezzi 1917[454]: 67.—Malawi. Chiromo, Ruo. ST ♂ ♀ BMNH. [6600276]

hapalus. Kenya [AF].

Pycnodacus hapalus Munro 1984[3524]: 133.—Kenya. Aberdare foothills. HT ♂ SANC. [6603872]

hyalobasis. Rwanda, Tanzania, Zimbabwe [AF].

Dacus hyalobasis Bezzi 1924[469]: 87.—Tanzania. Arusha-Ju. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935:132. [6600464]

iaspideus. South Africa [AF].

Dacus iaspideus Munro 1948[3498]: 30.—South Africa. Cape: Willowmore. HT ♂ NMP? HT originally in TMP. [6603698]

inclytus. Zimbabwe [AF].

Oligodacus inclytus Munro 1984[3524]: 122.—Zimbabwe. north Vumba. HT ♂ NMP. [6603868]

inflatus. Nigeria, Kenya [AF].

Dacus inflatus Munro 1939[3489]: 3.—Kenya. Noka. HT ♂ BMNH. [6603635]

inornatus. Gabon, Zaire, Zimbabwe, South Africa [AF].

Dacus inornatus Bezzi 1909[444]: 290.—n. n. *modestus* Bezzi 1908. [6600186]

- Dacus modestus* Bezzi 1908[441]: 386.—Gabon. Semlia Falls, N’Gami R. ST ♂ IRSNB. Preocc. Fabricius 1805. [6600168]
- interjectus.** South Africa [AF].
Pycnodacus interjectus Munro 1984[3524]: 137.—South Africa. Transvaal: Pretoria, Roodeplaat. HT ♀ SANC. [6603873]
- longistylus.** Senegal, Nigeria, Egypt to Mozambique, Yemen [PA, AF].
Dacus longistylus Wiedemann 1830[5136]: 522.—Egypten [Egypt]. ST ♂ ♀ ZMHU, NMW. [6604753]
Leptoxyda testacea Macquart 1835[3073]: 452.—Senegal. ST ♂ ♀ MNHNP. ST in MHNLi (Macquart 1850: 543) apparently lost. [6603190]
Dacus kingii Froggatt 1911[1621]: 866.—Sudan. Khartoum. ST ♂ ♀ NSW? [6601388]
Dacus longistylus var. *clarus* Efflatoun 1924[1292]: 33.—Egypt. Kharga Oasis. ST ♂ ♀ DAC, ESEE. [6601135]
- macer.** Zaire, Uganda, Rwanda [AF].
Dacus macer Bezzi 1919[458]: 180.—Uganda. Kampala. HT ♀ BMNH. [6600313]
- marshalli.** Zimbabwe [AF].
Dacus marshalli Bezzi 1924[469]: 89.—Zimbabwe. Chirinda Forest. ST ♂ ♀ BMNH. [6600465]
- maynei.** Nigeria, Central African Republic, Zaire, Uganda, Rwanda, Angola [AF].
Dacus maynei Bezzi 1924[468]: 11.—Zaire. Lemba. HT ♂ MRAC. [6600514]
Dacus tristis Collart 1940[893]: 21.—Rwanda. Astrida. HT ♂ MRAC. [6600752]
Dacus maynei Bezzi 1924[468]: 11.—incosp. *maynei* Bezzi. Automatic correction under Art. 32(d). [6605829]
- meladassus.** Zaire [AF].
Timiodacus meladassus Munro 1984[3524]: 126.—Zaire. Shaba: Lusinga, 1760 m. HT ♀ IRSNB. [6603870]
- mochii.** Eritrea [AF].
Dacus mochii Bezzi 1917[454]: 65.—Eritrea. Ghinda. HT ♂ MCSNM. HT lost (Munro 1984: 145). [6600274]
- obesus.** Kenya [AF].
Dacus obesus Munro 1948[3498]: 16.—Kenya. Magadi. HT ♂ SANC. [6603690]
- persicus.** Iran, Pakistan, India, Sri Lanka [PA, OR].
Dacus persicus Hendel 1927[2107]: 29.—Iran. Baluchistan: Kirman, btw. Basman, Farra & Bampur; & Ssarbas R. ST ♂ ♀ ZISP. Also ST in ZMHU; specimens misidentified as *ferrugineus* by Becker 1913: 641 are ST. [6602125]
Dacus ferrugineus: Becker 1913[378]: 641.—misid. See Hendel 1927: 29. [6605891]
Dacus longistylus: Bezzi 1916[453]: 101.—misid. [6605450]
- phloginus.** Zaire, Kenya [AF].
Saccodacus phloginus Munro 1984[3524]: 148.—Kenya. Kipkabus, 8200 ft. HT ♀ SANC. [6603877]
- purpurifrons.** Zaire, Zimbabwe, Mozambique, South Africa [AF].
Dacus purpurifrons Bezzi 1924[470]: 464.—South Africa. Transvaal: Barberton; & Pretoria. ST ♂ ♀ SANC. Possibly also ST in SAMCT. [6600379]
- pusillator.** Zaire [AF].
Pycnodacus pusillator Munro 1984[3524]: 140.—Zaire. Shaba: P.N.U. [Parque Nacional l’Upemba], Lusinga, 1760 m. HT ♀ IRSNB? [6603875]
- retextus.** Kenya [AF].
Dacus retextus Munro 1948[3498]: 32.—Kenya. Nairobi. HT ♀ SANC. [6603700]
- rubicundus.** South Africa [AF].
Dacus rubicundus Bezzi 1924[470]: 463.—South Africa. Cape: East London. ST ♂ SANC. [6600378]
- rufoscutellatus.** Ethiopia, Zaire, Rwanda, Kenya, Tanzania [AF].
Psilodacus rufoscutellatus Hering 1937[2173]: 259.—Ethiopia. Harar [Harar: Harar]. HT ♂ ZMHU. [6602280]
- rufus.** Zambia, Zimbabwe, Botswana, South Africa [AF].
Dacus rufus Bezzi 1915[452]: 98.—Zambia. Chilanga. HT ♀ BMNH. [6600260]
Dacus gregalis Munro 1953[3505]: 219.—Botswana. Ngoma, on s. bank of Chobe River. HT ♂ SANC. [6603715]
- ruslan.** Kenya [AF].
Psilodacus ruslan Hering 1941[2196]: 9.—Kenya. HT ♀ ZMHU. [6602528]
- scaber.** South Africa, Lesotho [AF].
Dacus scaber Loew 1862[3037]: 7.—Caffraria [South Africa. possibly Port Elizabeth or Pietermaritzburg areas]. T ♀ NRS. Type data (Munro 1984: 147). [6603125]
- seguyi.** Cameroon [AF].
Pycnodacus seguyi Munro 1984[3524]: 140.—Cameroon. Bamoun region, Baigom. HT ♀ MNHNP. [6603874]
- semisphaereus.** Egypt, Sudan, Ethiopia [PA, AF].
Dacus semisphaereus Becker 1903[369]: 139.—not stated [probably Egypt]. HT ♀ ZMHU. [6600115]
Dacus pumilo Munro 1948[3498]: 15.—Ethiopia. Harar: Dire Dawa. HT ♀ SANC. [6603689]
Dacus semisphaerus Foote 1984[1517]: 83.—missp. *semi-sphaereus* Becker. Attributed to “authors”. [6605766]
- sicatuluteus.** Uganda [AF].
Lophodacus sicutoluteus Munro 1984[3524]: 131.—Uganda. Fort Portal. HT ♀ SANC. [6603871]
- temnopterus.** South Africa [AF].
Dacus temnopterus Bezzi 1928[479]: 331.—South Africa. Transvaal: Pietersburg district, Lekkerwater Kloof. HT ♀ SANC. HT transferred from TMP. [6600542]
- triatra.** Zaire, Rwanda, Kenya [AF].
Dacus triatra Munro 1937[3480]: 2.—Kenya. Naivasha. HT ♂ BMNH. [6603582]
- umbrilatus.** Kenya [AF].
Dacus umbrilatus Munro 1938[3484]: 159.—Kenya. Nairobi, Ngong. HT ♂ BMNH. [6603591]
- woodi.** Malawi [AF].
Dacus woodi Bezzi 1917[454]: 66.—Malawi. Chiromo, Ruo. ST ♂ ♀ BMNH. [6600275]
- xanthopus.** South Africa [AF].
Dacus woodi var. *xanthopus* Bezzi 1924[470]: 464.—South Africa. Natal: Zululand, M’fongosi. HT ♀ SAMCT. [6600380]
- zavattarii.** Ethiopia [AF].
Psilodacus zavattarii Hering 1952[2219]: 95.—Ethiopia. Sidamo: Mega. ST ♂ ♀ BMNH. [6602688]

Subgenus METIDACUS

- Metidacus* Munro 1938[3482]: 117, *Dacus lotus* Bezzi (OD). Proposed as a subgenus. [6600091]
Anomiodacus Munro 1984[3524]: 58, *Tridacus purus* Curran (OD). [6600671]
Coccinodacus Munro 1984[3524]: 69, *Dacus pergulariae* Munro (OD). [6600675]
Andriadacus Munro 1984[3524]: 70, *herensis* Munro (OD). [6600676]

REF.—Munro 1984[3524]: 58, 71 (revision of 13 spp. (divided into 4 genera, not accepted) [AF]).

adenae. Cameroon [AF].

- Metidacus adenae* Hering 1940[2188]: 23.—Cameroon. Southwest: Tiko. HT ♂ BMNH. [6602460]

- amberiens.** Madagascar [AF].
Andriadacus amberiens Munro 1984[3524]: 70.—Madagascar. Antsiranana: Diego Suarez [Antsiranana]. HT ♀ NMP. [6603901]
- bidens.** Zaire [AF].
Tridacus bidens Curran 1927[1037]: 88.—Zaire. Haut-Zaire: Stanleyville [Kisangani] (1°N 25°10'E). HT ♂ AMNH. [6600839]
- delicatus.** South Africa [AF].
Dacus delicatus Munro 1939[3487]: 31.—South Africa. Natal: Durban. HT ♂ SANC. [6603620]
- herensis.** Madagascar [AF].
Andriadacus herensis Munro 1984[3524]: 70.—Madagascar. Hera, Ankazoala. HT ♂ ISTM. HT currently in SANC. [6603902]
- lotus.** South Africa [AF].
Tridacus lotus Bezzi 1924[470]: 455.—South Africa. Natal: Port Shepstone. HT ♀ SANC. [6600375]
- partus.** Zaire, Tanzania [AF].
Anomoiodacus partus Munro 1984[3524]: 60.—Tanzania. Lake Victoria, Ukerewe I. HT ♂ ZMHU? HT currently in SANC. [6603899]
Dacus purus: Collart 1940[893]: 10.—misid. See Munro 1984: 60. [6600749]
- pergulariae.** Ethiopia, Kenya, Tanzania [AF].
Dacus pergulariae Munro 1938[3484]: 163.—Kenya. Rabai. HT ♂ BMNH. [6603595]
Dacus miniatus Munro 1948[3498]: 31.—Ethiopia. Moggio. HT ♂ SANC. [6603699]
- phimis.** Zaire, Uganda [AF].
Anomoiodacus phimis Munro 1984[3524]: 59.—Uganda. Kawanda. HT ♂ SANC. [6603898]
- purus.** Zaire [AF].
Tridacus purus Curran 1927[1037]: 87.—Zaire. Haut-Zaire: Stanleyville [Kisangani] (1°N 25°10'E). HT ♀ AMNH. [6600837]
- radmirus.** Cameroon [AF].
Dacus radmirus Hering 1941[2196]: 6.—Cameroon. Bipindi. HT ♀ ZMHU. [6602526]
- rutilus.** Kenya [AF].
Dacus rutilus Munro 1948[3498]: 13.—Kenya. Ngong. HT ♀ SANC. [6603687]
- stylifer.** Kenya [AF].
Tridacus stylifer Bezzi 1919[458]: 177.—Kenya. Kabete. HT ♀ BMNH. [6600311]

DACUS Incertae Sedis

- bistrigatus.** Mozambique [AF].
Dacus bistrigatus Loew 1852[3027]: 661.—Mozambique. T A DEI,ZMHU. [6603051]
- sexmaculatus.** Egypt [PA].
Dacus sexmaculatus Walker 1871[4977]: 344.—Egypt. Harkeko. T ♂. ST destroyed (Horn & Kahle 1935: 159). [6604678]
- unavailable names.** [OR].
Dacus ornatipes Froggatt 1909[1618]: 99.—*Nomen nudum*. India. T A UMO. Attributed to Bigot. [6601381]
Dacus fulviventris Froggatt 1909[1618]: 99.—*Nomen nudum*. New Guinea. T A UMO. Attributed to Bigot. [6601383]
Dacus amoyensis Froggatt 1909[1618]: 99.—*Nomen nudum*. China. Fujian: Amoy. T A UMO. Attributed to Bigot. [6601384]
Dacus fulvidus Froggatt 1909[1618]: 99.—*Nomen nudum*. India. T A UMO. Attributed to Bigot. [6601386]
Dacus rufipetia Froggatt 1909[1618]: 99.—*Nomen nudum*. T A UMO. Attributed to Bigot. [6601382]

- Dacus pictus* Froggatt 1909[1618]: 99.—*Nomen nudum*. Sri Lanka. T A UMO. Attributed to Bigot. [6601385]

Genus DECTODESIS

- Dectodesis* Munro 1957[3510]: 1044, *Trypeta confluens* Wiedemann (OD). [6600238]
- REFS—Bezzi 1924[470]: 559 ((*Trypanea*) key to 4 spp. [AF: South Africa]); Bezzi 1924[472]: 140 ((*Trypanea*) key to 5 spp. [AF]).
- bulligera.** South Africa [AF].
Trypanea bulligera Bezzi 1924[470]: 563.—South Africa. Cape: Gt. Winterhoek, Tulbagh Division, 4500 ft. ST ♂ ♀ SAMCT. [6600440]
- bullosa.** South Africa [AF].
Trypanea bulligera var. *bullosa* Bezzi 1924[470]: 564.—South Africa. Hottentots Holland Mts., Caledon Division, 4000 ft. HT ♂ SAMCT. [6600442]
- comis.** Madagascar [AF].
Trypanea comis Munro 1954[3506]: 549.—Madagascar. Fort Dauphin. HT ♀ MNHNP. [6603722]
- confluens.** Uganda, Kenya, Mozambique, Malawi, Namibia, Zimbabwe, South Africa [AF].
Trypeta confluens Wiedemann 1830[5136]: 510.—Not stated ["Pr. b. sp." [South Africa. Cape of Good Hope]]. T ♂ ZMHU. Type locality from ST label data. [6604746]
Trypanea tristicula Hendel 1914[2103]: 82.—Mozambique. LT ♀ NMW. Lectotype designated by Hardy 1968: 146. [6602057]
- eminens.** Tanzania [AF].
Trypanea eminens Hering 1942[2207]: 21.—Tanzania. Lake Nyassa, Langenburg. HT ♀ ZMHU. [6602609]
- euarestina.** South Africa [AF].
Trypanea euarestina Bezzi 1924[470]: 564.—South Africa. Hottentots Holland Mts., Caledon Division, 4000 ft. HT ♂ SAMCT. [6600441]
- katomborae.** Zimbabwe [AF].
Dectodesis katomborae Hancock 1986[1891]: 27.—Zimbabwe. Zambezi R., W of Victoria Falls, Katombora I. HT ♂ NMBZ. [6601479]
- luctans.** South Africa [AF].
Trypanea luctans Munro 1929[3459]: 33.—South Africa. Cape: Ceres dist., Matroosberg, 3500 ft. HT ♀ SAMCT. [6603481]
- monticola.** Uganda, Kenya [AF].
Dectodesis monticola Munro 1957[3510]: 1045.—Uganda. Kigezi dist., Mt. Sabinio, 8000 ft. HT ♂ BMNH. [6603749]
- spatiosa.** Madagascar [AF].
Trypanea spatiosa Munro 1954[3506]: 551.—Madagascar. Tananarive-Tsimbazaza. HT ♂ MNHNP. [6603723]

Genus DEROPARIA

- Deroparia* Munro 1957[3510]: 1014, *Ensina reticulata* Munro (OD). [6600185]
- reticulata.** Namibia [AF].
Ensina reticulata Munro 1929[3459]: 24.—Namibia. Zesfontein. ST ♂ ♀ SAMCT. [6603479]

Genus DESMELLA

- Desmella* Munro 1957[3510]: 986, *Trypeta anceps* Loew (OD). [6600239]
- REF.—Munro 1957[1560]: 924 (key to 4 spp. [AF]).

anceps. Lesotho, South Africa [AF].

Trypeta anceps Loew 1861[3031]: 283.—Caffrerei [South Africa]. T ♀ ZMHU. [6603075]

Ensina anceps var. *fasciolata* Bezzi 1924[470]: 550.—South Africa. Cape: Matroosberg; Oudebosch; Prospect, Grootfontein; Natal: Krantzkrup. ST ♂ ♀ SAMCT. Probably also ST in SANC. [6600431]

Trypeta anceps Loew 1862[3037]: 5.—Caffraria [South Africa]. T ♀ ZMHU. Preocc. Loew 1861. [6605267]

clarinetta. South Africa [AF].

Paroxyna clarinetta Munro 1939[3490]: 152.—South Africa. Cape: Matjesfontein. HT ♀ BMNH. [6603645]

conyzae. Egypt [PA].

Trypeta conyzae Frauenfeld 1857[1537]: 555.—Egypt. near Cairo, “Esbekieh”. ST ♂ ♀ NMW. [6601308]

myiopioides. Eritrea, Zimbabwe, South Africa [AF].

Ensina myiopioides Bezzi 1908[443]: 158.—Eritrea. vic. Adi Uгри. ST ♂ ♀ MZLS. Possibly also ST in MCSNM. [6600177]

rostellata. Morocco [PA].

Paroxyna rostellata Seguy 1941[4349]: 14.—Morocco. Agadir. HT ♀ MNHNP. [6604234]

Genus **DIARRHEGMA**

Diarrhagma Bezzi 1913[448]: 108, *Dacus modestus* Fabricius (OD). [6600503]

modestum. India (W. Bengal) [OR].

Dacus modestus Fabricius 1805[1380]: 278.—Bengala [Bangladesh or e. India]. LT ♀ UZMC. Lectotype designated by Hardy 1969: 478; type data (Zimsen 1964: 485). [6601230]

Tephritis incisa Wiedemann 1824[5133]: 53.—Bengalia [Bangladesh or e. India]. T A UZMC. ST apparently lost (Zimsen 1954: 28). [6604713]

Trypeta viana Walker 1849[4957]: 1006.—Unknown. T ♀ BMNH. Sex of ST apparently misstated by Walker, only male in BMNH (Hardy 1966: 664). **N. Syn.** [6605143]

paritii. s. China, Thailand, Philippines, Borneo, Indonesia (Java, Nusa Tenggara; Maluku?) [OR].

Tephritis paritii Doleschall 1856[1202]: 412.—Indonesia. Java: Djokjokarta [Jogjakarta]. LT ♂ MNM. Lectotype designated by Hardy 1969: 478, but invalid or LT mislabelled from Amboina (see Hancock & Drew 1994: 559). [6600936]

Diarrhagma eburata Zia 1963[5313]: 640.—China. Yunnan: Xishuangbanna, Da-meng-lung, 700 m. HT ♀ IZAS. [6604871]

Genus **DIARRHEGMOIDES**

Diarrhagmoides Malloch 1939[3137]: 437, *hastata* Malloch (OD). [6600504]

hastatus. Papua New Guinea (widespread) [AU].

Diarrhagmoides hastata Malloch 1939[3137]: 437.—Papua New Guinea. Morobe: Edie Creek [7°17'S 146°43'E]. HT ♂ AMS. [6603355]

Genus **DICHENIOTES**

Dicheniotes Munro 1938[3482]: 118, *Tephrella dispar* Bezzi (OD). [6600240]

REF.—Munro 1947[3496]: 178 (key to 10 spp. [AF]).

acclivis. Uganda [AF].

Dicheniotes acclivis Munro 1947[3496]: 184.—Uganda. Entebbe. HT ♂ BMNH. [6603675]

angulicornis. Sudan [AF].

Metasphenisca angulicornis Hendel 1931[2113]: 7.—Sudan. Ash Sharqui: Gebel [Jabal] Elba, Wadi Edeib. ST ♂ ♀ ESEE? [6602199]

dispar. South Africa [AF].

Tephrella dispar Bezzi 1924[470]: 518.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6600408]

distigma. Tanzania, Zimbabwe, Namibia, South Africa [AF].

Tephrella distigma Bezzi 1924[470]: 519.—Zimbabwe. Salisbury [Harare]. ST ♂ ♀ SAMCT. [6600409]

Brachyaciura discoguttata Hering 1941[2199]: 198.—Tanzania. Ugano. HT ♂ NMW. [6602552]

erosa. Zaire, Uganda, Kenya, Tanzania [AF].

Tephrella erosa Bezzi 1924[472]: 126.—Tanzania. Kilimanjaro: Moshi [3°21'S 37°20'E]. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 148. [6600478]

katonae. Kenya, Tanzania, South Africa [AF].

Tephrella katonae Bezzi 1924[472]: 126.—Tanzania. Arusha-Ju. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 144. [6600479]

Tephrella katonai Munro 1935[3474]: 144.—emend. *katonae* Bezzi. [6605817]

polyspila. Kenya [AF].

Tephrella polyspila Bezzi 1924[472]: 126.—Kenya. Mto-ja-Kifaru. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 147. [6600477]

sexfissata. Kenya [AF].

Aciura sexfissata Becker 1909[376]: 119.—Kenya. Nairobi. HT ♂ MNHNP. [6600143]

Aciura sexfissata Becker 1910[377]: 28.—Kenya. Nairobi. HT ♂ MNHNP. Preocc. Becker 1909. [6605037]

tephronota. Eritrea [AF].

Acidia tephronota Bezzi 1908[443]: 154.—Eritrea. vic. Adi Caie. ST ♀ MZLS. [6600175]

turgens. Uganda [AF].

Dicheniotes turgens Munro 1947[3496]: 183.—Uganda. Ruwenzori Range, Kilembe, 4500 ft. HT ♂ BMNH. [6603674]

Genus **DICTYOTRYPETA**

Dictyotrypeta Hendel 1914[2102]: 93, *syssema* Hendel (OD). [6600021]

Dictyotrypeta Hendel 1914[2103]: 49, *syssema* Hendel (OD). Preocc. Hendel 1914: 93. [6600779]

atacta. Paraguay, Brazil (Sao Paulo) [NT].

Icterica atacta Hendel 1914[2103]: 62.—Paraguay. La Cordillera: San Bernardino. HT ♀ NMW. **N. Comb.** [6602027]

cometa. Argentina [NT].

Icterica cometa Malloch 1933[3130]: 272.—Argentina. Buenos Aires: San Isidro. HT ♀ BMNH. **N. Comb.** [6603278]

strobelioides. Paraguay, Argentina, s. Brazil [NT].

Icterica strobelioides Hendel 1914[2103]: 62.—Paraguay. La Cordillera: San Bernardino. HT ♀ NMW. **N. Comb.** [6602026]

syssema. Costa Rica, Colombia, Ecuador, Peru [NT].

Dictyotrypeta syssema Hendel 1914[2102]: 93.—Peru. T A SMT. [6601949]

Dictyotrypeta syssema Hendel 1914[2103]: 50.—Peru. Mamara; & Cuzco, 3600 m. ST ♂ ♀ SMT. Preocc. Hendel 1914: 93. [6602010]

Genus **DIETHERIA**

Dietheria Hardy 1973[1942]: 183, *fasciata* Hardy (OD). [6600397]

fasciata. India, Thailand, Vietnam [OR].

Dietheria fasciata Hardy 1973[1942]: 184.—Vietnam. Ban Me Thuot, 500 m. HT ♂ BBM. [6601567]

Genus DIMERINGOPHRYS

Dimeringophrys Enderlein 1911[1326]: 452, *ortalina* Enderlein (OD) = *bilineatus* Walker. [6600379]

Tetrameringophrys Hardy 1973[1942]: 165, *parilis* Hardy (OD). [6600391]

REF.—Hardy 1974[1943]: 113 (key to 2 spp. [OR]).

bilineata. Laos, Thailand, w. Malaysia, Philippines, Indonesia (Sumatra, Sulawesi) [OR].

Dacus bilineatus Walker 1860[4966]: 150.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 165. [6604618]

Dimeringophrys ortalina Enderlein 1911[1326]: 452.—Indonesia. Sumatra: Soekaranda. HT ♀ PAN. Type data (Hardy 1983: 187). [6601164]

pallidipennis. Thailand, Laos, China (Macao), Philippines (Luzon) [OR].

Dimeringophrys pallidipennis Hardy 1973[1942]: 143.—Thailand. Nan: Nan. HT ♀ BBM. [6601554]

Tetrameringophrys parilis Hardy 1973[1942]: 165.—Laos. Vientiane: Ban Na Pheng, 190 m. HT ♀ BBM. [6601562]

Genus DIOXYNA

Dioxyna Frey 1945[1586]: 62, *Trypeta sororcula* Wiedemann (OD). [6600616]

REFS—Wulp 1899[5217]: 416 ((*Ensina*) key to 2 spp. [NE, NT: Mexico & Central America]); Munro 1957[3510]: 936 (key to 4 spp. [AF]); Novak 1974[3671]: 4 (revision of 2 spp. [NE: USA & Canada]); Hardy 1988[1965]: 20 (key to 3 spp. [OR, AU]); Korneyev 1990[2736]: 428 (key to 2 spp. [PA: e. Palearctic]); Foote, Blanc & Norrbom 1993[1523]: 134 (key to 2 spp. [NE: USA & Canada]); Hardy & Drew 1996[1972]: 236 (revision of 3 spp. [AU: Australia]).

bidentis. n. Europe S to North Africa, E to Central Asia & Iran, China, e. Russia [PA].

Styilia bidentis Robineau-Desvoidy 1830[4148]: 755.—not stated [probably France]. ST A MNHNP (destroyed). [6604054]

Trypeta elongatula Loew 1844[3020]: 397.—Germany. various regions [prob. also e. Poland]; Ungarn [Hungary]; & Turkey. Constantinopel [Istanbul]; & Brussa. ST ♂ ♀ ZMHU. cited Zetterstedt specimens also ST. [6603025]

Paroxyna chenii Zia 1937[5308]: 205.—China. Jiangsu: Nanking [Nanjing]. HT ♀ IZAS. [6604841]

Paroxyna chusanica Zia 1937[5308]: 203.—China. Zhejiang: Chusan [Zhoushan]. HT ♂ IZAS. [6604840]

Paroxyna seguyi Zia 1939[5310]: 12.—China. Guangxi: Yangso [Yangshuo]. ST ♂ ♀ IZAS. [6604861]

Paroxyna cilicornis Hering 1941[2197]: 27.—China. Manchuria, Erzenjanzsy. HT ♂ BMNH. [6602532]

Paroxyna absinthii: Hendel 1927[2108]: 149.—misid. See White 1986: 148. [6605633]

brachybasis. Indonesia (Irian Jaya), Papua New Guinea, Australia (Qld.), Fiji, Austral, Niue & Cook Is. [AU].

Dioxyna brachybasis Hardy 1988[1965]: 21.—Papua New Guinea. Central: Saranga. HT ♂ BBM. [6601855]

chilensis. Peru, Bolivia, Chile, Argentina [NT].

Ensina chilensis Macquart 1843[3076]: 387.—Chile. T A MNHNP. [6603227]

Ensina obscurella Blanchard 1852[525]: 463.—Chile. Coquimbo: Illapel. T A MNHNP. 2 ST in MNHNP. N. Syn. [6600582]

Paroxyna sororcula: Lindner 1928[2980]: 30.—misid. Synonymy uncertain. [6605572]

conflicta. Philippines, Indonesia (Nusa Tenggara), New Guinea, New Britain, New Caledonia [OR, AU].

Ensina conflicta Curran 1929[1039]: 11.—New Caledonia. Baily I. HT ♂ AMNH. [6600843]

Paroxyna gemina Hering 1941[2192]: 40.—Indonesia. Nusa Tenggara: Flores I., Rana Mese. ST ♂ ♀ MLUH, DEI. [6602483]

Paroxyna conflicta ssp. *funalis* Hering 1944[2210]: 8.—New Guinea. ST ♂ ♀ BMNH. [6602638]

Dioxyna heringi Hardy 1974[1943]: 235.—Philippines. Luzon, Laguna: Mt. Makiling. HT ♂ MCSNM. [6601657]

hyalina. Australia (WA, Qld., NSW, SA) [AU].

Dioxyna hyalina Hardy & Drew 1996[1972]: 239.—Australia. New South Wales: Narrabri. HT ♂ ANIC. [6605912]

peregrina. Brazil [NT].

Trypeta peregrina Loew 1873[3042]: 292.—Brazil. ST ♂ ♀ NMW. [6603175]

picciola. sw. Canada & USA (New York) S to Costa Rica, Bermuda, West Indies [NE, NT].

Acinia picciola Bigot 1857[494]: 347.—Cuba. HT ♂ UMO? HT not in Guerin-Menneville collection in MNHNP. [6600547]

Trypeta humilis Loew 1862[3033]: 81.—Cuba. HT ♂ MCZ. [6603098]

Trypeta aurifera Thomson 1869[4809]: 585.—USA. California. ST ♂ ♀ NRS. [6604525]

Tephritis pucciola Washburn 1905[5020]: 80.—missp. *picciola* Bigot. [6605553]

Dioxyna picciola Dirlbek & Dirlbekova 1973[1154]: 123.—missp. *picciola* Bigot. [6605832]

Dioxyna picciola Hardy 1988[1965]: 26.—missp. *picciola* Bigot. [6605533]

Dioxyna plicicollis Hardy & Foote 1989[1973]: 528.—missp. *picciola* Bigot. Attributed to “authors”. [6605788]

Trypeta peregrina: Williston 1896[5157]: 377.—misid. [6605563]

Dioxyna sororcula: Foote, Blanc & Norrbom 1993[1523]: 134.—misid. [6605579]

planicapitis. Peru, Bolivia [NT].

Paroxyna planicapitis Hering 1941[2202]: 162.—Peru. Ayacucho: Ocana, 2600 m. ST ♂ ♀ ZSZMH. [6602572]

sororcula. s. Europe & s. Asia S to South Africa & Australia; introduced Hawaii [PA, AF, OR, AU].

Trypeta sororcula Wiedemann 1830[5136]: 509.—Canary Is. Teneriffa [Tenerife]. T ♂ NMW. [6604745]

Ensina vacillans Wollaston 1858[5174]: 117.—Madeira Is. Madeira: near Funchal. ST A BMNH. [6604764]

Leptomysa variipennis Wulp 1897[5214]: 143.—Sri Lanka. Kandy. HT ♂ MNM? Hardy 1988: 24 said HT in ZMAN, but see Czerny 1902: 256, 1906: 254. [6604775]

Ensina bisetosa Enderlein 1911[1326]: 455.—Taiwan. Takao. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601166]

Ensina bisetosa var. *nigrinotum* Enderlein 1911[1326]: 456.—Taiwan. Takao. HT ♀ PAN. [6601167]

Paroxyna sororcula f. *madeirensis* Lindner 1928[2980]: 30.—Madeira. nr. Funchal. ST ♂ SMN. [6604989]

Acinia valida Wollaston 1858[5174]: 116.—Madeira Is. Madeira: Porto Santo; & “the two southern Dezertas”. ST A BMNH. N. Syn. [6604763]

Oxyina varipennis Czerny 1906[1053]: 254.—missp. *variipennis* Wulp. [6605824]

Dioxyna sororcula Zia 1939[5310]: 10.—missp. *sororcula* Wiedemann. [6605767]

thomae. USA (Florida), West Indies, Guyana; Bermuda? [NE, NT].
Ensina thomae Curran 1928[1038]: 70.—Virgin Is. St. Thomas I.
HT ♀ AMNH. [6600840]

Genus *DIPLOCHORDA*

- Diplochorda* Osten Sacken 1881[3721]: 484, *Dacus turgidus*
Walker, Hendel 1909[3249]: 4 (SD). [6600581]
Nesadrama Perkins 1939[3786]: 2, *longistigma* Perkins (OD) =
turgidus Walker. [6600582]
- REF.—Malloch 1939[3134]: 174 (key to 7 spp. [AU: New
Guinea]).
- aneura*. Papua New Guinea (East Sepik) [AU].
Diplochorda aneura Malloch 1939[3134]: 175.—Papua New
Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♂ AMS.
[6603307]
- australis*. Papua New Guinea, Australia (n. Qld.) [AU].
Diplochorda australis Permkam & Hancock 1995[3795]:
1178.—Australia. Queensland: Cape York Peninsula, Claudie
R., 5 mi. W Mt. Lamond. HT ♂ AMS. [6605868]
- brevicornis*. Indonesia (Irian Jaya) [AU].
Elaphomyia brevicornis Saunders 1861[4283]: 415.—Indonesia.
Irian Jaya: Dorey I. [Manokwari]. ST ♂ ♀ BMNH. [6604167]
- concisus*. Indonesia (Irian Jaya) [AU].
Dacus concisus Walker 1861[4969]: 252.—Indonesia. Irian Jaya:
Dorey [Manokwari]. LT ♀ BMNH. Lectotype designation by
inference of holotype by Hardy 1959: 167. [6604646]
- minor*. Papua New Guinea (Morobe) [AU].
Diplochorda minor Malloch 1939[3134]: 178.—Papua New
Guinea. Morobe: Bulolo. HT ♀ AMS? [6603308]
- myrmex*. Indonesia (Irian Jaya); Philippines? [AU].
Diplochorda myrmex Osten Sacken 1881[3721]: 488.—Indonesia.
Irian Jaya: Katau. HT ♀ MCSNG? [6603945]
Nesadrama petiolata Hardy 1974[1943]: 105.—Philippines.
Mindanao, Zamboanga del Sur: Lemesahan, 600 m. [error?]. HT
♀ BBM. McAlpine & Schneider 1978: 160 suggest HT is
mislabelled, really from New Guinea. [6601629]
- ophion*. Indonesia (Irian Jaya) [AU].
Diplochorda ophion Osten Sacken 1881[3721]: 488.—Indonesia.
Irian Jaya: Hatam. HT ♀ MCSNG? [6603944]
- trineata*. Indonesia (Irian Jaya) [AU].
Diplochorda trineata Meijere 1913[3317]: xl.—New Guinea. ST
A ZMB,ZMAN. Described from males or both sexes. [6604920]
Diplochorda trilineata Meijere 1915[3320]: 124.—Indonesia.
Irian Jaya: Begowre R., Zoutbron 3°1'33"S 140°57'30"E;
Hollandia [Jayapura]; & Upper Sermowai, ca. 400 m. ST A
ZMAN. [6605634]
Diplochorda myrmex: Malloch 1939[3134]: 176.—misid.
[6605635]
- turgida*. Indonesia (Irian Jaya), Papua New Guinea [AU].
Dacus turgidus Walker 1865[4975]: 134.—Indonesia. Irian Jaya:
Salwatty [Salawati I.]. LT ♂ BMNH. Lectotype designation by
inference of holotype by Hardy 1959: 184. [6604676]
Nesadrama longistigma Perkins 1939[3786]: 3.—Papua New
Guinea. Kokoda, 1200 ft. HT ♀ BMNH. [6603976]
Diplochorda trugida Hardy & Foote 1989[1973]: 522.—missp.
turgida Walker. [6605467]
Diplochorda concisa: Malloch 1939[3134]: 177.—misid.
[6605636]
- unistriata*. Papua New Guinea [AU].
Diplochorda unistriata Malloch 1939[3134]: 179.—Papua New
Guinea. Central: Mondo [8°33'S 147°07'E], 5000 ft. HT ♂
BMNH. [6603309]

Genus *DIRIOXA*

- Dirioxa* Hendel 1928[2111]: 353, *Trypeta musae* Froggatt (OD) =
pornia Walker. Proposed as a subgenus. [6600505]
- pornia*. Australia (n. Qld. to e. cent. NSW), New Caledonia; New
Zealand, Fiji, American Samoa, French Polynesia? [AU].
Trypeta pornia Walker 1849[4957]: 1039.—Australia. New South
Wales: Port Stephen [Port Stephens]. LT ♀ BMNH. Lectotype
designation by inference of holotype by Hardy 1959: 219.
[6604579]
Trypeta musae Froggatt 1899[1617]: 501.—New Hebrides
[Vanuatu; error, Australia. Queensland]. ST A NSW. Type data
(Tryon 1927: 216, Permkam & Hancock 1995: 1085). [6601376]
Rioxa confusa Hardy 1951[1922]: 183.—Australia. Queensland:
Atherton Tableland. HT ♂ USNM. [6601492]

Genus *DITHRYCA*

- Dithryca* Rondani 1856[4195]: 113, *Trypeta guttularis* Meigen
(OD). [6600241]
Dytricha Rondani 1870[4205]: 8, missp. *Dithryca* Rondani.
[6600852]
Ditricha Rondani 1871[4209]: 161, missp. *Dithryca* Rondani.
[6600848]
Ditrycha Foote 1984[1517]: 85, missp. *Dithryca* Rondani. Attrib-
uted to "authors". [6600953]
Ditrichia Foote 1984[1517]: 85, missp. *Dithryca* Rondani. Attrib-
uted to "authors". [6600954]
- guttularis*. n. Europe & w. Siberia S to France, Italy, Ukraine &
Kazakhstan [PA].
Trypeta guttularis Meigen 1826[3306]: 341.—England; Portugal;
& probably Germany. Stolberg. ST A MNHNP. Possibly also ST
in ZMHU. [6603444]
Tephritis capitata Fallen 1826[1387]: 14.—"ad domicilium
Prapositi Paroeciae Asarum Bleckingiae". ST ♂ ♀ NRS? Preocc.
Wiedemann 1824. [6605167]
Tripeta gutturalis Lioy 1864[2986]: 1024.—missp. *guttularis*
Meigen. [6605735]
- guttulosa*. Spain, Portugal [PA].
Carphotracha guttulosa Loew 1869[3041]: 15.—Spain. T ♀
ZMHU. [6603134]
Carphotracha andrieuxi Tavares 1901[4768]: 78.—Portugal.
environs of Setubal. ST ♂ ♀ Tavares. [6604506]

Genus *DONARA*

- Donara* Richter 1972[4088]: 1252, *laeta* Richter (OD) = *pennula*
Dirlbek & Dirlbek. [6600242]
- pennula*. Russia (e. Siberia), Mongolia, China [PA].
Trypanea pennula Dirlbek & Dirlbekova 1971[1151]:
170.—Mongolia. Tov: Nucht, Lok. Nr. 3-4 [15 km. SSW of
Ulaanbaatar]. HT ♂ NMPC. [6600902]
Trypanea trochaeta Dirlbek & Dirlbekova 1971[1151]:
169.—Mongolia. Tov: Bogdo-Ul [mt.], Lok. Nr. 39 [47°48'N
106°97'-107°E, 2000-2250 m.]. HT ♂ NMPC. [6600901]
Donara laeta Richter 1972[4088]: 1253.—Russia. s. Buryat
Mongol: 7 km. S of Zakamensk, Khasura. HT ♂ ZISP. [6604024]

Genus *DORYCRICUS*

- Dorycricus* Munro 1947[3496]: 94, *ruater* Munro (OD). [6600172]
- ruater*. Kenya [AF].
Dorycricus ruater Munro 1947[3496]: 94.—Kenya. Rabai. HT ♀
SANC. [6603685]

Genus DRACONTOMYIA

Dracontomyia Becker 1919[379]: 193, *riveti* Becker (MO). [6600022]

REF.—Aczel 1953[24]: 120 (revision of 2 spp. [NT]).

footei. Ecuador, Peru [NT].

Dracontomyia footei Aczel 1953[24]: 121.—Peru. Elma. HT ♂ USNM. [6600019]

riveti. Ecuador [NT].

Dracontomyia riveti Becker 1919[379]: 193.—Ecuador. Casitagua. HT ♀ MNHNP? [6600155]

Genus DYSEUARESTA

Dyseuaresta Hendel 1928[2111]: 368, *Euaresta adelphica* Hendel (OD). [6600023]

adelphica. Paraguay, Brazil (Mato Grosso, Parana) [NT].

Euaresta adelphica Hendel 1914[2103]: 72.—Paraguay. La Cordillera: San Bernardino. LT ♂ NMW. Lectotype designated by Hardy 1968: 114. [6602038]

apicalis. Bolivia [NT].

Dyseuaresta apicalis Hendel 1928[2111]: 368.—Bolivia. HT ♀ DEI. [6602194]

bilineata. Galapagos Is. [NT].

Trupanea bilineata Foote 1982[1516]: 51.—Ecuador. Galapagos Is.: Santa Cruz I., summit of peak near Santa Rosa. HT ♀ USNM. **N. Comb.** [6601292]

caracasana. Venezuela [NT].

Trupanea caracasana Foote 1980[1514]: 27.—Venezuela. T A IZAM. Also ST in USNM; attributed to Fernandez. [6605390]

fuscoapicalis. Argentina (Salta) [NT].

Dyseuaresta fuscoapicalis Hering 1942[2206]: 288.—Argentina. Salta: 1200 m. HT ♀ ZMHU. [6602596]

gephyrae. Ecuador, Peru [NT].

Euaresta gephyrae Hendel 1914[2103]: 71.—Peru. Mamara. ST ♂ ♀ SMT, NMW. [6602037]

Dyseuaresta gephyrae Foote 1967[1508]: 22.—missp. *gephyrae* Hendel. [6605392]

impluviata. Chile [NT].

Acinia impluviata Blanchard 1852[525]: 461.—Chile. cordilleras of Elqui. T A MNHNP. 6 male & female ST in MNHNP. **N. Comb.** [6600580]

mexicana. USA (Florida, Texas) S to Colombia & Venezuela, West Indies [NE, NT].

Trypeta mexicana Wiedemann 1830[5136]: 511.—Mexico. LT ♂ ZMHU. Lectotype designation by inference of holotype by Loew 1873: 319. [6604748]

Trypeta melanogastra Loew 1862[3033]: 90.—Cuba. ST ♂ ♀ MCZ. [6603105]

Euaresta plesia Curran 1928[1038]: 71.—Puerto Rico. Coamo Springs. HT ♀ AMNH. [6600841]

signifera. Costa Rica [NT].

Dyseuaresta signifera Hering 1937[2172]: 300.—Costa Rica. 8 km. W of San Jose, Farm La Caja. ST ♂ ♀ ZSZMH. [6602294]

sobrinata. USA (s. Texas) S to Costa Rica [NE, NT].

Euaresta sobrinata Wulp 1900[5219]: 425.—Mexico. Guerrero: Xucumanatlan. HT ♀ BMNH. Type data (Foote 1965: 246). [6604815]

tenuis. Brazil [NT].

Trypeta tenuis Loew 1873[3042]: 316.—Brazil. T ♀ NMW. [6603181]

trinotata. Puerto Rico, Virgin Is. [NT].

Dyseuaresta trinotata Bates 1934[352]: 16.—Virgin Is. St. Thomas I. HT ♀ USNM. [6600105]

Genus ECTOPOMYIA

Ectopomyia Hardy 1973[1942]: 101, *baculigera* Hardy (OD). [6600355]

baculigera. Laos [OR].

Ectopomyia baculigera Hardy 1973[1942]: 102.—Laos. “Sedone Prov.”, Muong Paksong, 39 km. E of Pakse, 980 m. HT ♂ BBM. [6601540]

Genus ELAPHROMYIA

Elaphromyia Bigot 1859[497]: 314, *melas* Bigot (MO) = *adatha* Walker. [6600617]

Paralleloptera Bezzi 1913[448]: 154, *pteroallaeformis* Bezzi (OD). [6600435]

REFS—Shiraki 1933[4432]: 395 (key to 4 spp. [AF, OR]); Munro 1947[3496]: 225 (key to 4 spp. [AF]).

adatha. Congo, Zimbabwe, Mozambique, Botswana, South Africa [AF].

Trypeta adatha Walker 1849[4957]: 1032.—Congo [Congo or Zaire]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 659. [6604572]

Elaphromyia melas Bigot 1859[497]: 314.—South Africa. Natal.-Port [Durban]. T ♀ UMO. [6600551]

Trypeta ulula Loew 1861[3031]: 279.—Botswana. N’Gami. T ♀ NRS? [6603072]

Trypeta ulula Loew 1862[3037]: 5.—Botswana. N’Gami. T ♀ NRS? Preocc. Loew 1861. [6605264]

fissa. South Africa [AF].

Elaphromyia fissa Munro 1957[3510]: 894.—South Africa. Cape: Katberg, 4000 ft. HT ♂ BMNH. [6603767]

incompleta. China (Guangxi), Japan (Kyushu, Ryukyu Is.) [PA, OR].

Elaphromyia incompleta Shiraki 1933[4432]: 398.—Japan. Ryukyu Is.: Yayeyama I. HT ♂ NTU. [6604307]

Elaphromyia incompleta ssp. *punctata* Shiraki 1968[4435]: 90.—Japan. Ryukyu Is.: Okinawa I. HT ♂ USNM. [6604358]

magna. Indonesia (Java) [OR].

Elaphromyia magna Hardy 1988[1965]: 27.—Indonesia. w. Java: Gede Mts., Panggerango, Tjibodas, 1400 m. HT ♂ MZB. [6601856]

multisetosa. China (Guangdong), Taiwan [OR].

Elaphromyia multisetosa Shiraki 1933[4432]: 396.—Taiwan. Rikiriki; Shinchiku. ST ♂ ♀ NTU. [6604306]

pallida. Ethiopia, Kenya, South Africa [AF].

Elaphromyia pallida Bezzi 1926[476]: 289.—South Africa. Transvaal: Barberton, Stentor. HT ♂ SANC. [6600523]

pteroallaeformis. Yemen, India (Himachal Pradesh to Assam), Philippines [AF, OR].

Paralleloptera pteroallaeformis Bezzi 1913[448]: 155.—India. Himachal Pradesh: Simla Hills, Dharampur, 5000 ft.; Uttar Pradesh: Bhowali, Kuamon, 5700 ft. ST ♀ ZSI. [6600225]

siva. Sri Lanka [OR].

Elaphromyia siva Frey 1917[1583]: 19.—Sri Lanka. North Central: Anuradhapura [8°21’N 80°23’E]. HT ♀ UZMH. [6601366]

transversa. Papua New Guinea [AU].

Elaphromyia transversa Hardy 1988[1965]: 29.—Papua New Guinea. Morobe: Wau. HT ♂ BBM. [6601857]

yunnanensis. China (Yunnan) [OR].

Elaphromyia yunnanensis Wang 1990[4996]: 489.—China. Yunnan: Hengduan Mts., Lushui (26.2°N 99°E), 2100 m. HT ♂ IZAS. [6605013]

Genus *ELGONINA*

Elgonina Munro 1957[3510]: 890, *refulgens* Munro (OD). [6600173]

fuscana. Uganda [AF].

Elgonina fuscana Munro 1957[3510]: 891.—Uganda. Kigezi district, Mt. Muhavura, 10000-12000 ft. HT ♀ BMNH. [6603766]

refulgens. Kenya [AF].

Elgonina refulgens Munro 1957[3510]: 890.—Kenya. Mt. Elgon, 10500-12500 ft. HT ♂ BMNH. [6603765]

Genus *EMHERINGIA*

Emheringia Hardy 1989[1966]: 512, n. n. *Heringomyia* Hardy. [6600703]

Heringomyia Hardy 1986[1962]: 67, *Acanthoneura longiplaga* Hering (OD). Preocc. Hardy 1968. [6600506]

longiplaga. Indonesia (Maluku) [AU].

Acanthoneura longiplaga Hering 1939[2182]: 174.—Indonesia. Maluku: Amboina [Ambon I.]. HT ♂ NMW. [6602406]

Genus *ENICOPTERA*

Enicoptera Macquart 1848[3081]: 223, *flava* Macquart (OD). [6600398]

Henicoptera Loew 1873[3042]: 21, emend. *Enicoptera* Macquart. [6600651]

REFS—Hering 1937[2171]: 105 (*Henicoptera*) revision of 5 spp. [OR: Philippines]; Hardy 1974[1943]: 165 (key to 11 spp. [OR]); Hardy 1988[1964]: 96 (key to 5 spp. [OR: Indonesia]).

cuneilineata. Philippines (Luzon) [OR].

Henicoptera cuneilineata Hering 1937[2171]: 108.—Philippines. Luzon, Manila. HT ♂ BMNH. [6602258]
Enicoptera cuneilinea Hardy 1974[1943]: 166.—missp. *cuneilineata* Hering. [6605802]

flava. Indonesia (Java) [OR].

Enicoptera flava Macquart 1848[3081]: 223.—Indonesia. Java. HT ♂ Payen. [6603235]

flavofemoralis. Philippines (Luzon) [OR].

Henicoptera flavofemoralis Hering 1937[2171]: 107.—Philippines. Luzon, Bataan: Limay [14°34'N 120°36'E]. HT ♂ BMNH. [6602257]

gigantea. w. Malaysia, Indonesia (Sumatra) [OR].

Enicoptera gigantea Enderlein 1911[1326]: 413.—Indonesia. Sumatra: Soekaranda. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601138]

gressitti. Malaysia (Sabah) [OR].

Enicoptera gressitti Hardy 1988[1964]: 97.—Malaysia. Sabah: Sandakan Bay (SW), Sapagaya lumber camp, 2-20 m. HT ♀ BBM. [6601853]

il. Philippines (Luzon, Leyte) [OR].

Henicoptera il Hering 1938[2180]: 411.—Philippines. Luzon. HT ♂ BMNH. [6602312]

interrupta. Philippines (Mindanao) [OR].

Henicoptera interrupta Hering 1937[2171]: 107.—Philippines. Mindanao, Surigao del Norte: Surigao. HT ♂ BMNH. [6602256]

palawanica. Philippines (Palawan) [OR].

Henicoptera palawanica Hering 1942[2206]: 278.—Philippines. Palawan. HT ♀ ZMHU. [6602585]

proditrix. Philippines [OR].

Enicoptera proditrix Osten Sacken 1882[3722]: 233.—Philippines. LT ♂ DEI. Lectotype designated by Hardy 1969: 478. [6603950]

spoliata. Philippines (Mindanao) [OR].

Henicoptera spoliata Hering 1937[2171]: 106.—Philippines. Mindanao, Zamboanga del Sur: Port Banga [7°30'N 122°26'E]. HT ♂ BMNH. [6602255]

sumatrana. Indonesia (Sumatra, Java) [OR].

Henicoptera sumatrana Hering 1938[2180]: 412.—Indonesia. Sumatra: Soekaranda. ST ♂ ♀ PAN. [6602313]
Enicoptera proditrix: Enderlein 1911[1326]: 414.—misid. [6601139]

tortuosa. Indonesia (Sulawesi) [OR].

Enicoptera tortuosa Walker 1860[4966]: 155.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 188. [6604623]

Genus *ENICOPTERINA*

Enicopterina Malloch 1939[3138]: 240, *bivittata* Malloch (OD). [6600507]

bivittata. Fiji [AU].

Enicopterina bivittata Malloch 1939[3138]: 241.—Fiji. Vunidawa. HT ♀ BMNH. [6603315]

Genus *ENOPTERON*

Enopteron Meijere 1913[3317]: xl, *hieroglyphicum* Meijere (MO). [6600508]

Enopteron Meijere 1915[3320]: 127, *hieroglyphicum* Meijere (MO). Preocc. Meijere 1913. [6600990]

REF.—Hardy 1986[1962]: 60 (key to 3 spp. [AU]).

hieroglyphicum. Indonesia (Irian Jaya), Papua New Guinea [AU].

Enopteron hieroglyphicum Meijere 1913[3317]: xl.—New Guinea [Papua New Guinea. Sepik R.]. T A ZMB,ZMAN. [6604919]

Enopteron hieroglyphicum Meijere 1915[3320]: 127.—Papua New Guinea. West Sepik: Kaiserin Augusta [Sepik] R., Hoofdbivak (4°04'18"S 141°07'15"E). LT ♂ ZMAN. Preocc. Meijere 1913; Lectotype designation by inference of holotype by Hardy 1986: 60. [6605828]

occulatum. Papua New Guinea (Morobe) [AU].

Enopteron occulatum Hardy 1986[1962]: 62.—Papua New Guinea. Morobe: near Bulolo, upper Manki logging area. HT ♀ AMS. [6601802]

reticulatum. Papua New Guinea (Morobe) [AU].

Enopteron reticulatum Hardy 1986[1962]: 62.—Papua New Guinea. Morobe: near Bulolo, Robbies Creek. HT ♂ BBM. [6601801]

Genus *ENSINA*

Ensina Robineau-Desvoidy 1830[4148]: 751, *scorzoneræ* Robineau-Desvoidy, Foote & Freidberg 1981[1524]: 30 (SD) = *sonchi* Linnaeus. [6600618]

Protensina Hendel 1914[2102]: 95, *longiceps* Hendel (OD). [6600060]

Protensina Hendel 1914[2103]: 64, *longiceps* Hendel (OD). Preocc. Hendel 1914: 95. [6600780]

Ensina Hardy & Foote 1989[1973]: 528, missp. *Ensina* Robineau-Desvoidy. Attributed to “authors”. [6600955]

REF.—Hering 1941[2202]: 152 (key to 3 spp. [NT]).

azorica. Azores Is. [PA].

Ensina azorica Frey 1945[1586]: 62.—Portugal. Azores Is.: [numerous localities, not listed here, on] Corvo; Flores; Pico; Sao Jorge; Graciosa; Terceira; & Sao Miguel. ST ♂ ♀ UZMH? [6601368]

brevior. Peru [NT].

Protensina breviar Hennig 1940[2136]: 12.—Peru. Cuzco: Cuzco. ST ♂ ♀ SMT. [6602208]

decisa. Madeira Is., Canary Is. [PA].

Ensina decisa Wollaston 1858[5174]: 116.—Madeira Is. Madeira; & “the two northern Dezertas”. ST A BMNH. [6604760]

hyalipennis. Venezuela, Colombia, Ecuador, Peru, Chile, Bolivia [NT].

Protensina hyalipennis Hennig 1940[2136]: 13.—Peru. Cuzco: Cuzco, 3500 m. HT ♂ SMT. [6602209]

longiceps. Peru, Bolivia, Argentina (Jujuy) [NT].

Protensina longiceps Hendel 1914[2102]: 95.—Peru. T A SMT, NMW. [6601950]

Protensina longiceps Hendel 1914[2103]: 64.—Peru: Cuzco; & Lares Valley, 3000-4000 m. ST ♂ SMT, NMW. Preocc. Hendel 1914: 95. [6602029]

sonchi. Britain & Scandinavia S to North Africa, E to Japan; introduced Ethiopia, Taiwan, Philippines, Hawaii [PA, AF, OR, AU].

Musca sonchi Linnaeus 1767[2984]: 998.—not stated. T A LSL. ST lost (White 1987: 105). [6602998]

Ensina scorzonerae Robineau-Desvoidy 1830[4148]: 753.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604050]

Ensina herbarum Robineau-Desvoidy 1830[4148]: 752.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604048]

Ensina daronici Robineau-Desvoidy 1830[4148]: 753.—France. Loire: Saint-Sauveur. T A MNHNP (destroyed). [6604049]

Ensina chrysanthemii Robineau-Desvoidy 1830[4148]: 752.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604046]

Ensina linariae Robineau-Desvoidy 1830[4148]: 753.—not stated [probably France]. T A MNHNP (destroyed). [6604051]

Ensina pratensis Robineau-Desvoidy 1830[4148]: 752.—not stated [probably France]. T A MNHNP (destroyed). [6604047]

Tephritis asteris Haliday 1838[1860]: 186.—British Is. T A NMI? [6601445]

Ensina lacteipennis Hendel 1915[2105]: 464.—Taiwan. Tapani. ST ♂ ♀ DEI. [6602109]

Tephritis sonchi Fallen 1814[1382]: 174.—Sweden. Skane [Kristianstads or Malmohus]. ST ♂ ♀ NRS. Preocc. Linnaeus 1767. [6605177]

Tephritis sonchi Fallen 1820[1384]: 14.—Sweden. Scaniae [Kristianstads or Malmohus]; & Gyllebo. ST ♂ ♀ NRS. Preocc. Linnaeus 1767 & Fallen 1814. [6605178]

Trypeta obsoleta Wiedemann 1826[5134]: 349.—Suddeutschland [s. Germany]. ST ♂ ♀ NMW? Preocc. Wiedemann 1824 (see Loew 1844: 427). [6604722]

Musca subcutanea Linnaeus 1764[2983]: 287.—*Nomen nudum*. France. T A LSL? Published in non-binominal work. [6605465]

Ensina lacteipennis Shiraki 1968[4435]: 85.—missp. *lacteipennis* Hendel. [6605637]

Genus EPACROCERUS

Epacrocerus Hardy 1982[1954]: 79, *splendens* Hardy (OD). [6600545]

REF.—Hardy 1982[1954]: 80 (revision of 4 spp. [AU]).

apiculatus. Papua New Guinea (Western) [AU].

Epacrocerus apiculatus Hardy 1982[1954]: 80.—Papua New Guinea. Western: Fly River, Kiunga. HT ♂ BBM. [6601694]

maculatus. Indonesia (Irian Jaya), Papua New Guinea [AU].

Epacrocerus maculatus Hardy 1982[1954]: 82.—Papua New Guinea. East Sepik: S of Maprik, Bainyik, 150 m. HT ♂ BBM. [6601695]

quadrivittatus. Papua New Guinea (Morobe) [AU].

Epacrocerus quadrivittatus Hardy 1982[1954]: 82.—Papua New Guinea. Morobe: Mt. Missim, 2040 m. HT ♂ BBM. [6601696]

splendens. Indonesia (Irian Jaya), Papua New Guinea [AU].

Epacrocerus splendens Hardy 1982[1954]: 85.—Papua New Guinea. Morobe: Wau, 1400 m. HT ♂ BBM. [6601697]

Genus EPINETTYRA

Epinettyra Permkam & Hancock 1995[3795]: 1188, *setosa* Permkam & Hancock (OD). [6600999]

setosa. Australia (n. Qld.) [AU].

Epinettyra setosa Permkam & Hancock 1995[3795]: 1189.—Australia. Queensland: Atherton. HT ♂ QMBA. [6605870]

Genus EPOCHRINOPSIS

Epochrinopsis Hering 1939[2182]: 168, *bicolorata* Hering (OD). [6600024]

Epochrella Hering 1961[2233]: 2, *Epochrinopsis rivellioides* Hering (OD). Proposed as a subgenus. [6600025]

bicolorata. Bolivia [NT].

Epochrinopsis bicolorata Hering 1939[2182]: 169.—Bolivia. Cuesta de Cillutincara, 3000-3200 m. HT ♂ NMW. [6602401]

rivellioides. Bolivia [NT].

Epochrinopsis rivellioides Hering 1961[2233]: 2.—Bolivia. Cochabamba: Yungas de Arepucho, Sihuenas, 2200-2500 m. HT ♂ ZSBS. [6602751]

Genus ESACIDIA

Esacidia Ito 1984[2418]: 161, *kuwayamai* Ito (OD). [6600453]

kuwayamai. Russia (Kurile Is.) [PA].

Esacidia kuwayamai Ito 1984[2418]: 161.—Russia. Tisima [Kurile] Is.: Etorohu [Iturup] I., btw. Rubetu & Tisimoe. HT ♀ UOPJ. [6602811]

Genus EUARESTA

Euaresta Loew 1873[3042]: 296, *Trypeta festiva* Loew, Coquillett 1910[966]: 540 (SD). [6600619]

Camaromyia Hendel 1914[2102]: 95, *Trypeta bullans* Wiedemann (OD). [6600620]

Setigeresta Benjamin 1934[398]: 50, *Trypeta aequalis* Loew (OD). [6600739]

Camaromyia Hendel 1914[2103]: 63, *Trypeta bullans* Wiedemann (OD). Preocc. Hendel 1914: 95. [6600781]

Euraesta Johnson 1900[2503]: 688, missp. *Euaresta* Loew. [6600921]

Euraresta Persson 1958[3797]: 116, missp. *Euaresta* Loew. [6600794]

- Camaramyia Foote 1984[1517]: 74, missp. *Camaramyia* Hendel. Attributed to "authors". [6600956]
- Euaresia Elzinga & Broce 1986[1321]: 208, missp. *Euaresia* Loew. [6600915]
- Euaresia Hardy & Foote 1989[1973]: 528, missp. *Euaresia* Loew. Attributed to "authors". [6600957]
- REFS—Quisenberry 1950[3993]: 9 (revision of 8 spp. [NE]); Aczel 1952[21]: 154 (revision of 4 spp. [NT]); Foote & Blanc 1963[1521]: 17 (key to 5 spp. [NE: USA: California]); Norrbom 1993[3661]: 207 (key to 8 spp. [NT]); Foote, Blanc & Norrbom 1993[1523]: 143 (key to 8 spp. [NE]); Hardy & Drew 1996[1972]: 242 (revision of 2 spp. [AU: Australia]).
- aequalis.** Canada & USA (British Columbia, Manitoba & Ontario, S to California, Texas & Florida); introduced Australia [NE, AU]. *Trypeta aequalis* Loew 1862[3033]: 86.—USA. Illinois. ST ♂ MCZ. [6603101]
- Tephritis gemella* Coquillett 1902[957]: 181.—USA. New Mexico: Las Vegas Hot Springs. HT ♀ USNM. [6600791]
- Trypeta signalis* Howard 1901[2322]: 177.—*Nomen nudum*. [6605614]
- Tephritis arcualis* Foote 1964[1501]: 325.—*Nomen nudum*. District of Columbia. HT ♂ BMNH. Attributed to Walker. [6605404]
- bella.** s. Canada S to USA (Florida) & Mexico, Bahamas; Barbados, Cuba? [NE, NT]. *Trypeta bella* Loew 1862[3033]: 88.—USA. Washington, DC; & New York. ST ♂ ♀ MCZ. [6603103]
- bellula.** Canada (British Columbia) & USA (Iowa) S to n. Mexico [NE]. *Euaresia bellula* Snow 1894[4527]: 172.—USA. Arizona. LT ♀ UKaL. Lectotype designated by Foote 1962: 173. [6604377]
- bullans.** Peru, Chile, Argentina, Uruguay; introduced USA (California, Arizona), s. Europe, Middle East, South Africa, Australia [NE, NT, PA, AF, AU]. *Trypeta bullans* Wiedemann 1830[5136]: 506.—Uruguay. Montevideo. T A NMW. ST apparently lost. [6604742]
- Acinia rufa* Macquart 1843[3076]: 385.—Chile. T ♂ MNHNP. ST apparently lost. [6603225]
- Trypeta tenera* Loew 1850[3025]: 58.—France or Spain. e. Pyrenees [Pyrenees Mts.]. ST ♂ ♀ ZMHU? [6603050]
- Tephritis meleagris* Schiner 1868[4296]: 272.—Chile. ST ♂ ♀ NMW. ST not found by Hardy (1968: 136), but now in NMW under *bullans*. [6604193]
- Euaresia adspersa* Coquillett 1904[958]: 30.—USA. California: Stanford University [Palo Alto]. ST ♂ ♀ USNM. [6600803]
- Tephritis wolffi* Cresson 1931[1015]: 5.—USA. California: Pomona. HT ♂ ANSP. [6600830]
- Camaramyia bullans Aczel 1950[14]: 295.—missp. *bullans* Wiedemann. [6605734]
- festiva.** Canada & USA (Idaho, Manitoba, Ontario & Connecticut S to Colorado, Arkansas & n. Georgia) [NE]. *Trypeta festiva* Loew 1862[3033]: 86.—USA. Pennsylvania. ST ♂ ♀ MCZ. [6603102]
- jonesi.** USA (coastal Washington & Oregon) [NE]. *Euaresia jonesi* Curran 1932[1042]: 9.—USA. Oregon: Delake. HT ♀ AMNH. [6600865]
- meridionalis.** Argentina (Rio Negro, Mendoza, Neuquen, Cordoba) [NT]. *Euaresia meridionalis* Aczel 1952[21]: 158.—Argentina. Rio Negro: Choele-Choele Is. HT ♂ IML. [6600009]
- philodema.** Chile, Argentina [NT]. *Camaramyia philodema* Hendel 1914[2103]: 63.—Chile. Bio Bio: Talcahuano. ST ♂ SMT. [6602028]
- regularis.** Brazil (Minas Gerais to Parana) [NT]. *Euaresia regularis* Norrbom 1993[3661]: 202.—Brazil. Sao Paulo: Barueri. HT ♀ USP. [6605202]
- reticulata.** Colombia, Ecuador, Peru, Bolivia [NT]. *Trypeta reticulata* Hendel 1914[2103]: 81.—Peru. Lares Valley, 2000 m.; Callabamba, 3000 m.; Arequipa: Arequipa; Cuzco: Sicuani; & Cuzco, 3300 m.; Junin: Tarma, 3000 m. ST ♂ ♀ SMT, MNM. [6602054]
- Tephritis apicata* Becker 1919[379]: 195.—Ecuador. Riobamba; Tulcan; & Troya. ST ♂ ♀ MNHNP. [6600156]
- stelligera.** USA (Oregon, California) [NE]. *Trypeta stelligera* Coquillett 1894[948]: 74.—USA. southern California [Los Angeles Co.]. HT ♂ USNM. [6600764]
- stigmatica.** USA (Montana E to Michigan, S to California & Texas) [NE]. *Euaresia stigmatica* Coquillett 1902[957]: 180.—USA. Arizona: Flagstaff; & Williams. ST ♂ ♀ USNM. [6600789]
- tapetis.** USA (Washington & Wyoming S to n. California & New Mexico) [NE]. *Trypeta tapetis* Coquillett 1894[948]: 75.—USA. New Mexico. ST ♂ ♀ USNM. [6600766]
- Euaresia tapsetus* Snow 1903[4525]: 219.—missp. *tapetis* Coquillett. [6605556]
- toba.** El Salvador, Venezuela following Andes to Chile, Argentina & Brazil [NT]. *Camaramyia toba* Lindner 1928[2980]: 29.—Argentina. Formosa: Mision Taccagle. LT ♂ SMN. Lectotype designated by Norrbom 1993: 200. [6602988]
- versicolor.** Brazil (Sao Paulo) [NT]. *Euaresia versicolor* Norrbom 1993[3661]: 203.—Brazil. Sao Paulo: Barueri. HT ♂ USP. [6605203]

Genus EUARESTELLA

Euaresia Hendel 1927[2107]: 23, *Trypeta megacephala* Loew, Hendel 1927[2108]: 174 (SD). [6600243]

REF.—Freidberg & Kugler 1989[1571]: 89 (key to 3 spp. [PA: Israel & Sinai]).

abyssinica. Ethiopia [AF].

Euaresia abyssinica Hering 1937[2173]: 260.—Ethiopia. Harrar [Harar: Harar]. ST ♂ ♀ ZMHU. [6602281]

iphionae. Egypt, Sudan, Israel, Arabia, Iran [PA, AF].

Euaresia iphionae Efflatoun 1924[1294]: 152.—Egypt. Wadis Hussein, Hoff, Rishrash, Digla & Garawy. HT A ESEE. Described from both sexes, but sex of HT not stated. [6601132]

Euaresia iphioniae Foote 1984[1517]: 87.—missp. *iphionae* Efflatoun. Attributed to "authors". [6605768]

kugleri. Israel, Egypt (Sinai) [PA].

Euaresia kugleri Freidberg 1974[1549]: 56.—Israel. s. Negev, Elat. HT ♂ TAUI. [6601320]

megacephala. Italy [PA].

Trypeta megacephala Loew 1846[3021]: 512.—Italy. Sicily: Catania [Catania]. HT ♀ ZMHU. [6603040]

prinae. Israel, Egypt (Sinai) [PA].

Euaresia prinae Freidberg 1981[1554]: 25.—Israel. Ein Feschkha. HT ♂ TAUI. [6601332]

Genus EUARESTOIDES

Euaresia Benjamin 1934[398]: 57, *Trypeta abstersa* Loew (OD). Proposed as a subgenus. [6600026]

Euaresia Aczel 1950[14]: 292, missp. *Euaresia* Benjamin. [6600928]

REFS—Hering 1941[2202]: 165 (key to 2 spp. [NE, NT]); Foote 1958[1481]: 288 (revision of 3 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 156 (key to 2 spp. [NE: USA & Canada]).

abstersus. USA (Michigan & New York S to Florida), Bahamas, Cuba, Mexico [NE, NT].

Trypeta abstersa Loew 1862[3036]: 221.—“Amer. boreal.” [North America]. LT ♀ NMW. Lectotype designation by inference of holotype by Foote 1958: 290. [6603113]

acutangulus. USA & Mexico (Washington, Alberta & New York, S to California, Chiapas & Mississippi) [NE, NT].

Trypeta acutangula Thomson 1869[4809]: 583.—USA. California. LT ♂ NRS. Lectotype designation by inference of holotype by Foote 1958: 291. [6604521]

Trypeta abstersa: Cockerell 1898[872]: 155.—misid. [6605586]

dreisbachi. Mexico (Sonora, Durango & Veracruz) S to Guatemala [NE, NT].

Euaestoides dreisbachi Foote 1958[1481]: 293.—Mexico. Jalisco: La Primavera. HT ♀ USNM. [6601258]

Genus EUARESTOPSIS

Euaestopsis Hering 1937[2172]: 299, *paupera* Hering (OD). [6600027]

paupera. Costa Rica [NT].

Euaestopsis paupera Hering 1937[2172]: 299.—Costa Rica. San Jose. HT ♂ ZSZMH. [6602293]

Genus EULEIA

Euleia Walker 1835[4955]: 81, *Musca onopordinis* Fabricius (MO) = *heraclei* Linnaeus. [6600245]

Cryptaciura Hendel 1927[2107]: 109, *Tephritis rotundiventris* Fallen (OD). [6600234]

Pterochile Richter & Kandybina 1981[4098]: 133, *scorpioides* Richter & Kandybina (OD). **N. Syn.** [6600702]

Odnosumyia Korneyev 1991[2737]: 11, *odnosumi* Korneyev (OD). **N. Syn.** [6600836]

Criptaciura Gheorghiu 1989[1674]: 37, missp. *Cryptaciura* Hendel. [6601018]

REFS—Hendel 1927[2107]: 97 ((*Philophylla*) key to 2 spp. [PA]); Foote 1959[1485]: 146 (key to 2 spp. [NE]); Korneyev 1991[2737]: 10, 12 ((*Cryptaciura*) keys to 4 spp. [PA, OR]); Korneyev 1991[2738]: 31 (key to 5 spp. [NE, PA]); Foote, Blanc & Norrbom 1993[1523]: 162 (key to 2 spp. [NE]).

fratria. Canada & USA (British Columbia & Quebec S to n. California, Mississippi & Florida) [NE].

Trypeta fratria Loew 1862[3033]: 67.—USA. HT ♀ MCZ. [6603088]

Trypeta liogaster Thomson 1869[4809]: 578.—USA. California. LT ♀ NRS. Lectotype designation by inference of holotype by Foote 1959: 146 (depository presumably misstated as NMW). [6604512]

Acidia frateria Frost 1924[1626]: 32.—missp. *fratria* Loew. [6605516]

heraclei. n. Europe E to e. Russia & Japan, S to North Africa, Middle East & Central Asia [PA].

Musca heraclei Linnaeus 1758[2981]: 600.—not stated. T A LSL. Conserved by I.C.Z.N. 1991: 181, Opinion 1645; ST lost (White 1987: 103). [6602993]

Musca onopordinis Fabricius 1775[1374]: 787.—Daniae [Denmark]. T A UZMC? ST apparently lost (Zimsen 1964: 476). [6601206]

Musca centaureae Fabricius 1794[1377]: 360.—Germany. Kiliae [Kiel]. T A UZMC. ST apparently lost (Zimsen 1964: 493). [6601220]

Trupanea berberidis Schrank 1803[4315]: 144.—Germany. Bavaria: around Ingolstadt. T A Unknown. [6604209]

Forellia dauci Robineau-Desvoidy 1830[4148]: 761.—not stated. ST ♂ ♀ Dejean. **N. Syn.** [6604064]

Musca subcutanea Turton 1801[4864]: 623.—n. n. *heraclii* Linnaeus 1758. Preocc. Bjerkander 1793. [6605464]

Trupanea onopordi Schrank 1803[4315]: 144.—emend. *onopordinis* Fabricius. [6604208]

Trypeta heraclei Loew 1844[3020]: 323.—emend. *heraclii* Linnaeus. [6603004]

Philophylla heraclei f. *spadicea* Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604970]

Euleia heraclei f. *spadicea* Ito 1984[2418]: 157.—*Nomen nudum*. Japan. Hokkaido: Sapporo, Isikari. HT ♂ UOPJ. Form or variety proposed after 1960. [6604953]

Musca heraclii Linnaeus 1758[2981]: 600.—incosp. *heraclei* Linnaeus. Suppressed by I.C.Z.N. 1991: 181 opinion 1645. [6605441]

Acinia herachlei Liroy 1864[2986]: 1026.—missp. *heraclei* Linnaeus. [6605736]

Euleia heraclei Foote 1984[1517]: 88.—missp. *heraclei* Linnaeus. Attributed to “authors”. [6605769]

Euleia centauriae Foote 1984[1517]: 88.—missp. *centaureae* Fabricius. [6605638]

Euleia heracleii Foote 1984[1517]: 88.—missp. *heraclei* Linnaeus. [6605443]

kovalevi. Russia (Caucasus), Georgia [PA].

Cryptaciura kovalevi Korneyev 1991[2737]: 15.—Georgia. Borzhomi Nat. Reserve. HT ♂ ZMM. **N. Comb.** [6605164]

marmorea. Morocco, Italy (Sicily) [PA].

Dacus marmoreus Fabricius 1805[1380]: 276.—Morocco. Tanger [Tangier]. T A UZMC. Type data (Zimsen 1964: 485). [6601228]

Tephritis varipennis Macquart 1843[3076]: 383.—Unknown. T ♂ UMO. [6603218]

Musca flauescens Fabricius 1798[1378]: 565.—Morocco. Tanger [Tangier]. T A UZMC. Preocc. Gmelin 1790 (u & v identical for purpose of homonymy, Art. 58); ST probably lost (Zimsen 1964: 493). [6601223]

Musca flauescens Fabricius 1799[1379]: 33.—emend. *flauescens* Fabricius. See article 33b(i) of ICZN. Preocc. Gmelin 1790. [6605885]

odnosumi. Tadzhikistan [PA].

Odnosumyia odnosumi Korneyev 1991[2737]: 11.—Tadzhikistan. Ishkashim. HT ♂ UASK. **N. Comb.** [6605165]

rotundiventris. Britain, Scandianvia & n. Russia S to cent. Europe, Ukraine & Kazakstan [PA].

Tephritis rotundiventris Fallen 1814[1382]: 176.—Sweden. Osternsjoekusten [Baltic Sea Coast], near Stenshufvud. HT ♂ NRS. [6601247]

Tephritis rotundiventris Fallen 1820[1384]: 16.—Sweden. Karakas Esperod or Oelandia. LT ♂ NRS. Preocc. Fallen 1814; Lectotype designated by Persson 1958: 110, sex & locality not stated, male according to White 1986: 147. [6605174]

scorpioides. e. Russia (Primorskiy) [PA].

Pterochile scorpioides Richter & Kandybina 1981[4098]: 134.—Russia. Primorskiy: 20 km. SE Ussuri, Gornotayezhnaya station. HT ♀ ZISP. **N. Comb.** [6604039]

separata. Canary Is. [PA].

Acidia separata Becker 1908[374]: 137.—Canary Is. Tenerife: La Palma. ST ♂ ♀ ZMHU. [6600130]

setibasis. China (Fujian) [OR].

Euleia setibasis Hering 1953[2223]: 347.—China, Fujian: Kuatun (70°40'N, 117°40'E), 2300 m. HT ♂ ZFMK. [6602720]

uncinata. USA (Alaska) & Canada (Yukon) [NE].

Acidia uncinata Coquillett 1899[953]: 260.—USA, Alaska: Pribilof Is., Ft. Wrangle. HT ♀ USNM. [6600770]

unifasciata. USA (Oregon, California) [NE].

Myoleja unifasciata Blanc & Foote 1961[522]: 73.—USA, California: Napa Co., Conn Creek. HT ♂ USNM. [6600568]

Genus *EUMICTOXENUS*

Eumictoxenus Munro 1962[3515]: 448, *leleupi* Munro (OD). [6600186]

leleupi. Tanzania [AF].

Eumictoxenus leleupi Munro 1962[3515]: 448.—Tanzania, Bunduki, Uluguru Mts., moy. Mgeta, 1300 m. HT ♀ MRAC. [6603813]

Genus *EUPHRANTA*

REF.—Hardy 1983[1958]: 154 (key to 3 subgenera & 39 spp. [OR AU]); Norrbom 1992[3360]: 189 (revision of 2 spp. [NE]); Kapoor 1993[2600]: 31 (key to 6 spp.[OR: India]); Merz 1994[3343]: 96 (key to 2 spp.[PA: cent. Europe]); Permkam & Hancock 1995[3795]: 1148 (revision of 12 spp.[AU: Australia])

Subgenus *EUPHRANTA*

Euphranta Loew 1862[3038]: 28, *Musca connexa* Fabricius (MO). [6600572]

Lagarosia Wulp 1891[5211]: 210, *lacteata* Wulp, Hendel 1914[2104]: 78 (SD). [6600381]

Layarosia Hardy 1977[1946]: 80, missp. *Lagarosia* Wulp. Attributed to “authors”. [6600958]

Mosina: Rondani 1870[4205]: 10, misid. [6600650]

REFS.—Shiraki 1933[4432]: 330 (key to 6 spp.[PA OR: Japan & Taiwan]); Hardy 1951[1922]: 176 (key to 2 spp.[AU: Australia]); Hardy 1973[1942]: 146 (key to 4 spp.[OR: Southeast Asia]); Hardy 1974[1943]: 118 (key to 7 spp.[OR: Philippines]); Kandybina 1977[2576]: 105 (key to larvae of 3 spp. [PA]); Hardy 1981[1951]: 77 (key to 3 spp.[OR: w. Malaysia]); Hardy 1983[1958]: 159 (key to 18 spp. [OR AU]); Korneyev 1990[2732]: 121 (key to 2 spp.[PA: e. Russia]).

basalis. New Guinea [AU].

Psila basalis Walker 1865[4974]: 126.—New Guinea. ST ♂ ♀ BMNH. Inference of HT by Hardy 1983: 161 invalid. [6604674]

bilineata. Papua New Guinea [AU].

Euphranta bilineata Hardy 1983[1958]: 162.—Papua New Guinea, NE, 1080 m. HT ♀ BBM. [6601734]

cerberae. s. Thailand [OR].

Euphranta cerberae Hancock & Drew 1995[1903]: 56.—Thailand, Ranong: Sooksamran, Praphas Beach. HT ♀ BMNH. [6605838]

conjuncta. Sri Lanka [OR].

Euphranta conjuncta Hendel 1928[2111]: 364.—Ceylon [Sri Lanka]. HT ♀ DEI. [6602192]

connexa. Sweden & Finland S to France, Hungary, Ukraine & Caucasus [PA].

Musca connexa Fabricius 1794[1377]: 350.—Galliae [France]. T A MNHNP? No ST in UZMC (Zimsen 1964: 494). [6601212]

Ortalis zetterstedti Fallen 1820[1384]: 18.—Sweden, Gothlandia. ST ♂ ♀ NRS,ZIL? [6601250]

Cephalia caloptera Bigot 1886[504]: 384.—France, Pyrenees-orientales: Mt. Canigou. ST ♂ ♀ UMO. [6600554]

Trypeta alcinoe Walker 1849[4957]: 1010.—Unknown. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 659. **N. Syn.** [6605144]

Tephritis dorsalis Macquart 1851[3086]: 265.—“Exotique”. T ♀ UMO. Preocc. Robineau-Desvoidy 1830 & Macquart 1835. [6605810]

Euphranta conexa Foote 1984[1517]: 89.—missp. *connexa* Fabricius. Attributed to “authors”. [6605770]

convergens. Philippines (Luzon) [OR].

Euphranta convergens Hardy 1974[1943]: 118.—Philippines, Luzon, Laguna: Mount Makiling. HT ♀ MCSNM. [6601630]

figurata. Malaysia (Sarawak) [OR].

Dacus figuratus Walker 1856[4962]: 133.—Malaysia, Sarawak. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 172. [6604605]

flavizona. Indonesia (Java) [OR].

Euphranta flavizona Hardy 1983[1958]: 163.—Indonesia, cent. Java: S of Semarang, near Ambarawa, 600 m. HT ♀ BBM. [6601735]

flavorufa. e. Russia (Primorskiy), ne. China [PA].

Euphranta flavorufa Hering 1936[2168]: 180.—China, Heilongjiang: Charbin [Harbin]. HT ♀ BMNH. [6602239]

flavoscutellata. Philippines (Luzon, Palawan, Sibuyan, Mindanao) [OR].

Euphranta flavoscutellata Hardy 1970[1940]: 92.—Philippines, Palawan: Balabac I., Dalawan Bay. HT ♂ UZMC. [6601535]

lacteata. Indonesia (Java) [OR].

Lagarosia lacteata Wulp 1891[5211]: 211.—Indonesia, Java. HT ♂ ZMAN. Type data (Hardy 1983: 165). [6604771]

latifasciata. Papua New Guinea [AU].

Euphranta latifasciata Hardy 1983[1958]: 165.—Papua New Guinea, Central: E of Port Glasgow, Mamai Pltn., 150 m. HT ♀ BBM. [6601736]

longicauda. Japan (Kyushu) [PA].

Euphranta longicauda Shiraki 1952[4434]: 13.—Japan, Kyushu: Nagasaki, Nishi-Hiki-Gun, Kikitsu-Mura, Odake. HT ♂ NIAS? [6604338]

macularis. India, s. China, Indonesia (Sumatra, Java), Malaysia (Sabah), Philippines [OR].

Chyliza macularis Wiedemann 1830[5136]: 531.—Indonesia, Java. T ♀ UZMC. Type data (Zimsen 1954: 28). [6604756]

Lagarosia striatella Wulp 1891[5211]: 213.—Java. HT ♀ ZMAN? HT possibly lost (Hardy 1983: 166). [6604772]

Euphranta nigra Enderlein 1911[1326]: 439.—Indonesia, Sumatra: Soekaranda. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601158]

Euphranta nigra Zia 1965[5315]: 212.—China, Yunnan: Pu-Wen, 900 m. HT ♀ IZAS. Preocc. Enderlein 1911. [6605034]

marina. Australia (coastal NT, Qld. & NSW) [AU].

Euphranta marina Permkam & Hancock 1995[3795]: 1157.—Australia, Queensland: Bribie I. HT ♂ QMBA. [6605862]

maxima. Indonesia (Kalimantan) [OR].

Euphranta maxima Hering 1941[2196]: 14.—Indonesia, se. Borneo [Kalimantan]. HT ♀ ZMHU. [6602511]

naevifrons. Indonesia (Flores I.) [OR].

Euphranta naevifrons Hering 1941[2192]: 30.—Indonesia, Nusa Tenggara: Flores I., Rana Mese. HT ♀ DEI. [6602477]

numeralis. Australia (ne. NSW) [AU].

Euphranta numeralis Permkam & Hancock 1995[3795]: 1165.—Australia, New South Wales: nr. Taree, 0.5 km. SE of Lansdowne, riverine rainforest. HT ♂ AMS. [6605865]

ocellata. Philippines (Luzon, Mindanao) [OR].

Euphranta ocellata Hardy 1974[1943]: 121.—Philippines. Mindanao, Zamboanga del Norte: 9.6 km. E of Sindangan. HT ♀ BBM. [6601631]

pallida. Indonesia (Irian Jaya) [AU].

Euphranta pallida Hardy 1983[1958]: 169.—Indonesia. Irian Jaya: Japen I., SSE, Sumberbaba, Dawai R. HT ♀ BBM. [6601737]

quadrifasciata. Indonesia (Irian Jaya) [AU].

Euphranta quadrifasciata Hardy 1983[1958]: 170.—Indonesia. Irian Jaya: Nabire, 5-50 m. HT ♀ BBM. [6601738]

scutellata. Solomon Is. [AU].

Euphranta scutellata Malloch 1939[3135]: 252.—Solomon Is. HT ♂ BMNH. [6603324]

sexsignata. Taiwan [OR].

Euphranta sexsignata Hendel 1915[2105]: 439.—Taiwan. Toyenmongai. HT ♂ MNM. [6602084]

Euphranta sex-signata Hendel 1915[2105]: 439.—incosp. *sexsignata* Hendel. Automatic correction under Art. 32(d). [6605505]

signatifacies. Thailand, w. Malaysia [OR].

Euphranta signatifacies Hardy 1981[1951]: 71.—Malaysia. Negeri Sembilan: Port Dickson. HT ♀ QMBA. [6601688]

simonthomasi. Indonesia (Irian Jaya) [AU].

Euphranta simonthomasi Hardy 1983[1958]: 172.—Indonesia. Irian Jaya: Hollandia [Jayapura]. HT ♀ AMS. [6601739]

skinneri. Philippines (Mindanao) [OR].

Euphranta skinneri Hardy 1955[1926]: 80.—Philippines. Mindanao, Pangl. HT ♂ USNM. [6601500]

stenopeza. Philippines (Samar) [OR].

Euphranta stenopeza Hardy 1974[1943]: 126.—Philippines. Samar I. HT ♂ MCSNM. [6601632]

transiens. Indonesia (Maluku) [AU].

Trypeta transiens Walker 1860[4967]: 164.—Indonesia. Maluku: Amboyna [Ambon I.]. LT A BMNH. Lectotype designation by inference of holotype by Hardy 1959: 225. [6604639]

tricolor. Papua New Guinea (Morobe) [AU].

Euphranta tricolor Hardy 1983[1958]: 174.—Papua New Guinea. Morobe: near Bulolo, Stony Logging Area. HT ♂ AMS. [6601740]

unifasciata. w. Malaysia [OR].

Euphranta unifasciata Hardy 1981[1951]: 72.—Malaysia. Selangor: Bukit Kutu, 3500 ft. HT ♂ QMBA. [6601689]

variabilis. Papua New Guinea, Australia (Qld.) [AU].

Ptilona variabilis Kertész 1901[2656]: 426.—Papua New Guinea. Madang: Astrolabe Bay, Erima [5°24'S 145°44'E]. ST ♂ ♀ MNM. Inference of HT by Hardy 1983: 174, Permkam & Hancock 1995: 1168 invalid. [6602862]

vitabilis. New Guinea, New Britain, New Ireland [AU].

Euphranta vitabilis Hardy 1970[1940]: 125.—Papua New Guinea. New Britain: Keravat. HT ♂ BMNH. [6601523]

Subgenus RHACOCHLAENA

Rhacochlaena Loew 1862[3038]: 50, *Trypeta toxoneura* Loew (MO). [6600573]

Epochra Loew 1873[3042]: 238, *Trypeta canadensis* Loew (MO). [6600752]

Macrotrypeta Portschinsky 1892[3876]: 223, *ortalidina* Portschinsky (MO). [6600267]

Staurella Bezzi 1913[448]: 121, *Musca crux* Fabricius (OD). [6600574]

Epochra Williston 1896[5156]: 121, missp. *Epochra* Loew. [6600882]

Rhacochlaena Bezzi 1928[479]: 332, missp. *Rhacochlaena* Loew. [6600827]

REFS.—Shiraki 1933[4432]: 330 (key to 5 spp. [PA OR: Japan & Taiwan]); Hardy 1973[1942]: 146 (key to 5 spp. [OR: Southeast Asia]); Hardy 1974[1943]: 130 (keys to 10 spp. [OR: Philippines]); Hardy 1981[1951]: 77 (key to 6 spp. [OR: w. Malaysia]); Hardy 1983 [1958]: 177 ((*Staurella*) key to 22 spp. [OR AU]); Korneyev 1990[2732]: 121 (key to 9 spp. [PA: e. Russia]); Norrbom 1993[3660]: 189 (revision of 2 spp. [NE]); Kapoor 1993[2600]: 32 (key to 5 spp. [OR: India]).

apicalis. Burma, Vietnam, w. Malaysia, Taiwan, Philippines [OR].

Euphranta apicalis Hendel 1915[2105]: 440.—Taiwan. Tapani. ST ♂ MNM, NMW. Type data (Hardy 1968: 122). [6602085]

athertonina. Australia (n. Qld.) [AU].

Euphranta athertonina Permkam & Hancock 1995[3795]: 1150.—Australia. Queensland: Atherton. HT ♀ QMBA. [6605860]

atrata. Philippines (Luzon, Palawan) [OR].

Euphranta atrata Hardy 1974[1943]: 132.—Philippines. Luzon, Nueva Vizcaya: Dalton Pass. HT ♂ BBM. [6601634]

balteata. Malaysia (w. & Sabah) [OR].

Euphranta balteata Hardy 1981[1951]: 73.—Malaysia. Sabah: Tenompok, 30 mi. E Jesselton (Kota Kinabalu), 1460 m. HT ♂ BBM. [6601690]

bifasciata. w. Malaysia [OR].

Euphranta bifasciata Hardy 1981[1951]: 75.—Malaysia. Kedah: Kedah Peak, 3300 ft. HT ♂ QMBA. [6601691]

bischofi. Philippines, Papua New Guinea [OR, AU].

Ptilona bischofi Kertész 1901[2656]: 427.—Papua New Guinea. West Sepik: Berlinhafen [Aitape], Lemien [Lemieng?, 3°12'S 142°29'E]. HT ♂ MNM. [6602863]

borneana. Malaysia (Sabah) [OR].

Euphranta borneana Hardy 1983[1958]: 180.—Malaysia. Sabah: near Sandakan, Bettotan. HT ♂ QMBA. [6601741]

brunneifemur. Indonesia (Irian Jaya) [AU].

Euphranta brunneifemur Hardy 1983[1958]: 181.—Indonesia. Irian Jaya: Vogelkop, Sele Straits, Jef Lio, 1-5 m. HT ♀ BBM. [6601742]

burtoni. Thailand [OR].

Euphranta burtoni Hardy 1973[1942]: 150.—Thailand. Bangkok, nr. sea level. HT ♂ BBM. [6601557]

camelliae. Korea, Japan (Honshu, Kyushu) [PA].

Staurella camelliae Ito 1949[2401]: 44.—Japan. Kyushu: Chikuzen, Sasaguri. HT ♂ KU. [6602764]

Staurella camelliae Ito 1948[2399]: 37.—*Nomen nudum*. [6605796]

Euphranta mikado: Motooka 1938[3431]: 184.—misid. See Ito 1948: 37. [6605569]

canadensis. Canada & USA (n. British Columbia E to New Brunswick, S to California, New Mexico, Michigan & Maine) [NE].

Trypeta canadensis Loew 1873[3042]: 235.—Canada. HT ♀ MCZ. [6603157]

Epochra lunifera Hering 1940[2189]: 5.—USA. Washington: Sumner. HT ♀ BMNH. [6602450]

canangae. w. Malaysia, Philippines, Indonesia (Java) [OR].

Euphranta canangae Hardy 1955[1926]: 83.—Philippines. Luzon, Laguna: Los Banos. HT ♂ USNM. [6601501]

cassiae. India (Bihar, Karnataka, Uttar Pradesh) [OR].

Rhacochlaena cassiae Munro 1938[3483]: 33.—India. Bihar: Pusa. HT ♂ INPC. Type data (Kapoor 1994: 91). [6603614]

chrysopila. Taiwan [OR].

Euphranta chrysopila Hendel 1913[2099]: 37.—Taiwan. Koshun. LT ♂ NMW. Lectotype designated by Hardy 1968: 122. [6601918]

- corticicola**. Thailand, Malaysia (w. & Sabah), Indonesia (Java) [OR].
Staurella corticicola Hering 1952[2218]: 269.—Indonesia. Java: near Bogor, Depok. HT ♀ RNH. [6602672]
- crux**. India (Bihar, W. Bengal) [OR].
Musca crux Fabricius 1794[1377]: 358.—India orientali [e. India]. T A UZMC. Type data (Zimsen 1964: 485). [6601218]
Musca crax Turton 1801[4864]: 621.—n. n. *crux* Fabricius 1794. [6605434]
- dissoluta**. India (Uttar Pradesh, Bihar) [OR].
Staurella dissoluta Bezzi 1913[448]: 123.—India. Uttar Pradesh: Naini Tal, Maldhan. ST ♂ ♀ ZSI. [6600208]
- ferenigra**. Philippines (Palawan) [OR].
Euphranta ferenigra Hardy 1970[1940]: 94.—Philippines. Palawan: Balabac I., Dalawan Bay. HT ♂ UZMC. [6601536]
- hainanensis**. China (Hainan) [OR].
Staurella hainanensis Zia 1955[5311]: 63.—China. Hainan. HT ♂ IZAS. [6605370]
- incompleta**. Malaysia (Sabah) [OR].
Euphranta incompleta Hardy 1983[1958]: 186.—Malaysia. Sabah: 19 km. N of Kalabakan, Forest Camp, 60 m. HT ♀ BBM. [6601743]
- japonica**. Korea, Japan (Hokkaido, Honshu) [PA].
Rhacochlaena japonica Ito 1947[2398]: 36.—Japan. Honshu: Uzen, Yonezawa, Tateyama. HT ♂ KU. [6602758]
- jucunda**. Japan (Ryukyu Is.), Taiwan [OR].
Euphranta jucunda Hendel 1915[2105]: 439.—Taiwan. Sokutsu. HT ♀ DEI. [6602083]
- laosica**. Laos, w. Malaysia [OR].
Euphranta laosica Hardy 1973[1942]: 153.—Laos. Vientiane: Ban Van Eue. HT ♀ BBM. [6601558]
- leichhardtiae**. Australia (n. Qld. to ne. NSW) [AU].
Euphranta leichhardtiae Permkam & Hancock 1995[3795]: 1151.—Australia. Queensland: Cape York Peninsula, Rocky R., via Coen. HT ♀ QMBA. [6605861]
- lemniscata**. India, Burma, Thailand, Taiwan, Papua New Guinea, Australia (n. Qld.), Fiji, Tonga, Northern Marianas [OR, AU].
Trypeta lemniscata Enderlein 1911[1326]: 426.—Taiwan. Takao. HT ♂ PAN. Type data (Hardy 1983: 187). [6601147]
Euphranta rivulosa Bezzi 1928[478]: 109.—Fiji. Viti Levu: Suva. HT ♂ BMNH. [6600536]
- licenti**. China (Shanxi, Sichuan) [PA].
Euphranta licenti Zia 1938[5309]: 19.—China. sw. Shanxi: Tsi-li-yu [Tsiliyu], 2100 m. HT ♂ IZAS. [6604846]
- linocierae**. Australia (n. & e. Qld.) [AU].
Euphranta linocierae Hardy 1951[1922]: 176.—Australia. Queensland: Cairns. HT ♂ USNM. [6601490]
- luteifasciata**. Sri Lanka [OR].
Staurella luteifasciata Senior-White 1922[4359]: 158.—Sri Lanka. Central: Matale, Sunduganga. HT ♀ BMNH. [6604245]
- maculifacies**. Thailand [OR].
Euphranta maculifacies Hardy 1973[1942]: 154.—Thailand. Chiang Mai: Chiang Mai. HT ♀ BBM. [6601559]
- maculifemur**. Malaysia (w., Sarawak, Sabah), Indonesia (Sumatra) [OR].
Staurella maculifemur Meijere 1924[3324]: 39.—Indonesia. Sumatra: Barat, Fort de Kock [Bukittinggi]. HT ♀ ZMAN. Type data (Hardy 1983: 188). [6604950]
Euphranta ormei Hardy 1973[1942]: 156.—Malaysia. Perak: Tai Ping. HT ♀ BMNH. [6601560]
Euphranta flavizona: Tan, Hanifah & Chen 1994[4750]: 29.—misid. See Hancock & Drew 1995: 57. [6605874]
- maculifrons**. Indonesia (Java) [OR].
Staurella maculifrons Meijere 1914[3319]: 211.—Indonesia. Java: Wonosobo. LT ♀ ZMAN. Lectotype designated by Hardy 1969: 477. [6604930]
- maculipennis**. Indonesia (Java) [OR].
Euphranta maculipennis Hardy 1983[1958]: 190.—Indonesia. Java: Bogor. HT ♂ USNM. [6601744]
- marginata**. Papua New Guinea (Morobe) [AU].
Euphranta marginata Hardy 1983[1958]: 191.—Papua New Guinea. Morobe: Arabuka-Moime, 19-2100 m. HT ♀ BBM. [6601745]
- mediofusca**. New Britain, Australia (n. Qld.) [AU].
Staurella mediofusca Hering 1941[2196]: 14.—Papua New Guinea. New Britain: Ralum [Kokopo], Herbertshohe. HT ♀ ZMHU. [6602510]
- meringae**. Australia (n. Qld.) [AU].
Euphranta meringae Permkam & Hancock 1995[3795]: 1161.—Australia. Queensland: Cairns district, nr. Gordonvale, Meringa. HT ♀ QMBA. [6605863]
- mexicana**. Mexico (Morelos) [NE].
Euphranta mexicana Norrbom 1993[3660]: 190.—Mexico. Morelos: Lagunas de Zempoala. HT ♂ UNAM. Depository originally misstated as USNM. [6605204]
- mikado**. China, Japan [PA].
Trypeta mikado Matsumura 1916[3220]: 414.—Japan. Hokkaido: Sapporo. ST ♀ HUS. [6603384]
- minor**. Australia (NT, Qld.) [AU].
Euphranta minor Hendel 1928[2111]: 362.—Australia. Northern Territory: Palmerston [Darwin]. HT ♀ DEI. [6602191]
- moluccensis**. Indonesia (Maluku) [AU].
Euphranta moluccensis Hardy 1983[1958]: 192.—Indonesia. Maluku: Larat I. HT ♀ BBM. [6601746]
- mulgravea**. Australia (n. Qld.) [AU].
Euphranta mulgravea Permkam & Hancock 1995[3795]: 1164.—Australia. Queensland: Cairns district, Mulgrave R., 4 mi. W of Gordonvale. HT ♂ AMS. [6605864]
- myxopyrae**. Thailand [OR].
Euphranta myxopyrae Hancock & Drew 1994[1900]: 569.—Thailand. Chanthaburi: A. Makhham, T. Pluang, Khaokitchagoot. HT ♂ BMNH. [6605376]
- nigrescens**. China (Sichuan, Anhui, Zhejiang, Yunnan, Guangxi), Japan (Honshu) [PA, OR].
Staurella nigrescens Zia 1937[5308]: 134.—China. Zhejiang: Tien-Mu-Shan [Tianmushan]. HT A IZAS. Described from both sexes, but sex of HT not specified. [6604829]
- nigripeda**. India (W. Bengal), Burma [OR].
Staurella nigripeda Bezzi 1913[448]: 123.—India. W. Bengal: e. Himalayas, Kurseong, 5000 ft. HT ♀ ZSI. [6600207]
- nigroapicalis**. Papua New Guinea (Morobe) [AU].
Euphranta nigroapicalis Hardy 1983[1958]: 194.—Papua New Guinea. Morobe: nr. Bulolo, Stony logging area. HT ♂ BBM. [6601747]
- nigrocingulata**. Burma [OR].
Staurella nigrocingulata Hering 1938[2181]: 23.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602351]
- notata**. Philippines (Luzon) [OR].
Euphranta notata Hardy 1974[1943]: 142.—Philippines. Luzon, Laguna: Mount Makiling. HT ♀ MCSNM. [6601636]
- ortalidina**. Russia (se. Siberia, Primorskiy) [PA].
Macrotrypeta ortalidina Portschinsky 1892[3876]: 224.—Russia. Siberia, Raddewka. LT ♂ ZISP. Lectotype designation by inference of holotype by Korneyev 1990: 124. [6604008]
- oshimensis**. e. Russia (Khabarovskiy), Japan (Honshu, Kyushu), China (Zhejiang) [PA].
Staurella oshimensis Shiraki 1933[4432]: 210.—Japan. Izu-Oshima. HT ♂ NTU. [6604273]
- palawanica**. Philippines (Palawan) [OR].
Euphranta palawanica Hardy 1974[1943]: 142.—Philippines. Palawan: mouth of Malabangan River. HT ♀ BBM. [6601635]

perkinsi. Indonesia (ne. Irian Jaya); Papua New Guinea (West Sepik) [AU].

Euphranta perkinsi Hardy 1983[1958]: 195.—Papua New Guinea. West Sepik: Aitape [3°8'S 142°21'E]. HT ♂ BMNH. [6601749]

quatei. Indonesia (Irian Jaya) [AU].

Euphranta quatei Hardy 1983[1958]: 195.—Indonesia. Irian Jaya: Star Mts., Sibil Valley, 1245 m. HT ♂ BBM. [6601748]

rudis. Malaysia (Sarawak) [OR].

Trypeta rudis Walker 1856[4962]: 133.—Malaysia. Sarawak. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 222; type data (Hardy 1983: 196). [6604606]

sedlaceki. Papua New Guinea, New Britain [AU].

Euphranta sedlaceki Hardy 1983[1958]: 196.—Papua New Guinea. East Sepik: Maprik. HT ♂ BBM. [6601751]

separata. Japan (Kyushu) [PA].

Staurella oshimensis f. *separata* Ito 1949[2401]: 47.—Japan. Kyushu: Buzen, Hikosan. ST ♂ ♀ KU. [6602765]

solaniferae. Thailand [OR].

Euphranta solaniferae Hancock & Drew 1994[1900]: 572.—Thailand. Chiang Rai: Khun Tan National Park. HT ♂ BMNH. [6605377]

solitaria. Bougainville I. [AU].

Euphranta solitaria Hardy 1983[1958]: 196.—Papua New Guinea. North Solomons: Bougainville I., Rokure, 690 m. HT ♂ BBM. [6601750]

songkhla. Thailand [OR].

Euphranta songkhla Hancock & Drew 1994[1900]: 572.—Thailand. Songkhla: Kachong National Park, Trang. HT ♂ BMNH. [6605378]

suspiciosa. Burma [OR].

Staurella suspiciosa Hering 1938[2181]: 25.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602353]

Staurella suspiciosa ssp. *scutellaris* Chen 1948[814]: 86.—China. Anhui: Hwangshan. HT ♀ IZAS. [6600718]

tanyoura. w. Malaysia [OR].

Euphranta tanyoura Hardy 1981[1951]: 76.—Malaysia. Pahang: Cameron Highlands, 4500-5000 ft. HT ♀ QMBA. [6601692]

ternaria. Australia (n. Qld.) [AU].

Euphranta ternaria Permkam & Hancock 1995[3795]: 1166.—Australia. Queensland: Cape York Peninsula, Iron Range. HT ♂ QMBA. [6605866]

toxoneura. Britain, Norway, Belgium to Ukraine, S to Switzerland & Austria [PA].

Trypeta toxoneura Loew 1846[3023]: 364.—Germany. Nordshausen near Kassel. HT ♀ ZMHU. [6603043]

Rhacochlaena toxoneura f. *apicalis* Hering 1947[2213]: 2.—Poland. Schlesien [Silesia]. HT ♀ BMNH. Preocc. Hendl 1915. [6602643]

transmontana. Japan (Honshu) [PA].

Rhacochlaena transmontana Ito 1984[2416]: 50.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. [6602783]

turpiniae. Thailand [OR].

Euphranta turpiniae Hancock & Drew 1994[1900]: 574.—Thailand. Chiang Mai: Doi Pui. HT ♂ BMNH. [6605379]

zeylanica. Sri Lanka [OR].

Staurella zeylanica Senior-White 1921[4358]: 392.—Sri Lanka. Central: Matale, Suduganga. HT ♀ BMNH. [6604243]

Subgenus XANTHOTRYPETA

Xanthotrypeta Malloch 1939[3135]: 250, *bimaculata* Malloch (OD). [6600575]

bimaculata. Solomon Is. [AU].

Xanthotrypeta bimaculata Malloch 1939[3135]: 250.—Solomon Is. New Georgia, Segi. HT ♀ BMNH. [6603323]

Genus EUROSTA

Eurosta Loew 1873[3042]: 280, *Acinia solidaginis* Fitch, Coquillett 1910[966]: 543 (SD). [6600733]

Eurostina Curran 1932[1043]: 4, *Trypeta latifrons* Loew (OD). Designation of *Eurostina confusa* Curran by Curran 1934: 293 invalid. [6600734]

Durosta Cook 1908[944]: 88, missp. *Eurosta* Loew. [6600920]

REFS—Steyskal & Foote 1977[4656]: 151 (key to 9 spp. (obsolete) [NE]); Ming 1989[3381]: 1 (revision of 7 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 167 (key to 7 spp. [NE]).

comma. USA (South Dakota, Michigan & Maine, S to Colorado, Texas & Florida) [NE].

Trypeta comma Wiedemann 1830[5136]: 478.—USA. Kentucky. LT ♀ NMW. Lectotype designated by Foote, Blanc & Norrbom 1993: 168. [6604726]

Trypeta alvea Walker 1849[4957]: 1027.—Australia [error, North America]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 208. [6604566]

Trypeta dertona Walker 1849[4957]: 1028.—Unknown [North America]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 213. [6604567]

Eurosta elsa Daecke 1910[1059]: 342.—USA. New York: Long I., Richmond Hill. LT ♀ USNM. Lectotype designated by Steyskal & Foote 1977:151. [6600874]

Tephritis marginepunctata Macquart 1835[3073]: 464.—USA. Pennsylvania: Philadelphia. T ♀ UMO? ST apparently lost. N. Syn. [6603195]

cribrata. Canada & USA (Oregon, Manitoba & Maine, S to Kansas & Florida) [NE].

Trypeta cribrata Wulp 1867[5208]: 158.—USA. Wisconsin. ST ♂ ♀ RNH. [6604765]

Eurosta reticulata Snow 1894[4527]: 170.—USA. Montana. LT ♂ UKaL. Lectotype designated by Foote 1962: 177 (assumes Snow misstated sex of Montana ST). [6604376]

Eurosta conspurcata Doane 1899[1189]: 186.—USA. Washington: Pullman. LT ♂ WSU. Lectotype designated by Foote 1966: 123; type data (Zack 1984: 32). [6600924]

fenestrata. Canada & USA (Alberta & Manitoba S to New Mexico; Connecticut, Florida? [NE].

Eurosta fenestrata Snow 1894[4527]: 169.—USA. Arizona. HT ♀ UKaL. Type data (Foote 1962: 174). [6604375]

floridensis. USA (Florida) [NE].

Eurosta floridensis Foote 1977[1509]: 148.—USA. Florida: Jasper. HT ♀ USNM. [6601279]

Eurosta comma: Benjamin 1934[398]: 28.—misid. [6605591]

lateralis. USA (Florida) [NE].

Trypeta lateralis Wiedemann 1830[5136]: 479.—Unknown [probably USA. Florida]. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 147. [6604728]

Trypeta donysa Walker 1849[4957]: 1007.—Unknown [probably USA. Florida]. LT ♂ BMNH. Lectotype designation by inference of holotype by Foote 1964: 61. [6604554]

Eurosta nicholsoni Benjamin 1934[398]: 27.—USA. Florida: Brevard Co., 1 1/4 mi. S Titusville. HT ♂ USNM. [6600160]

latifrons. USA (Michigan, Maine S to South Carolina) [NE].

Trypeta latifrons Loew 1862[3033]: 89.—USA. Carolina [South Carolina]. HT ♀ MCZ. Type data (Loew 1873: 283). [6603104]

Eurostina confusa Curran 1934[1046]: 293.—*Nomen nudum*. USA. Pennsylvania: Delaware Water Gap. T A AMNH. Published after 1930 without a description. Type data (Foote 1961: 28). [6600869]

- solidaginis.** Canada & USA (British Columbia & Nova Scotia S to Oregon, Texas & North Carolina; Florida?) [NE].
Acinia solidaginis Fitch 1855[1437]: 771.—USA. New York: [probably Salem area]. LT ♂ USNM. Lectotype designated by Foote, Blanc & Norrbom 1993: 175; type data (Barnes 1988: 111). [6601255]
Eurosta solidaginis var. *fascipennis* Curran 1923[1033]: 302.—Canada. Ontario: Ottawa [error, probably w. Canada]. HT ♂ CNC. Type data (Curran 1925: 128). [6600831]
Eurosta solidaginis var. *subfasciatus* Curran 1923[1033]: 302.—Canada. British Columbia: Vernon. HT ♂ CNC. [6600832]
Tephritis asteris Harris 1841[2020]: 417.—USA. Massachusetts. ST A MCZ. Preocc. Haliday 1838; type data (Johnson 1925: 97). [6601901]
Ortalis nuphera Harris 1835[2019]: 600.—*Nomen nudum*. ST A MCZ. Attributed to Say; see Johnson 1925: 97. [6605539]
Eurosta asteri Johnson 1930[2518]: 151.—missp. *asteris* Harris. [6605606]
Eurosta subfascipennis Strickland 1938[4696]: 204.—missp. *subfasciata* Curran. [6605554]

Genus EURYPHALARA

- Euryphalara* Munro 1938[3482]: 118, *Ensina barnardi* Bezzi (OD). [6600169]
barnardi. Namibia, South Africa [AF].
Ensina barnardi Bezzi 1924[470]: 547.—Namibia. Narebis; & Otjikoto. ST ♀ SAMCT. [6600428]
Euryphalara barnardi var. *extensa* Munro 1938[3482]: 119.—South Africa. Transvaal: Zebediela. HT ♂ SANC. [6603590]
mecistocephala. Namibia [AF].
Ensina mecistocephala Munro 1929[3459]: 22.—Namibia. Koabendus. HT ♂ SAMCT. [6603478]

Genus EUTHAUMA

- Euthauma* Munro 1949[3500]: 131, *ghentianum* Munro (OD). [6600638]
ghentianum. South Africa [AF].
Euthauma ghentianum Munro 1949[3500]: 131.—South Africa. Transvaal: Zoutpansberg, 15 mi. E of Louis Trichardt, Farm Joubertstroom. HT ♂ SANC. [6603703]

Genus EUTRETA

- REFS.—Foote & Blanc 1963[1521]: 28 (key to 6 spp. [NE: USA: California]); Stoltzfus 1977[4666]: 369 (revision of 30 spp. [NE NT]); Foote & Blanc 1979[1522]: 162 (key to 2 spp. (supplement to Stoltzfus 1977) [NE]); Foote, Blanc & Norrbom 1993[1523]: 180 (key to subgenera & 16 spp. [NE: USA & Canada])

Subgenus EUTRETA

- Eutreta* Loew 1873[3042]: 276, *Trypeta sparsa* Wiedemann, Coquillett 1910[966]: 543 (SD). [6600607]
Phasmatocephala Hering 1937[2172]: 297, *Eutreta rhinophora* Hering (OD). Proposed as a subgenus. [6600029]
Icaria Schiner 1868[4296]: 276, *Trypeta sparsa* Wiedemann (OD). Preocc. Saussure 1853. [6600028]
Eustreta Woodworth 1913[5204]: 137, missp. *Eutreta* Loew. [6600913]

- aczeli.** Colombia; Brazil? [NT].
Eutreta aczeli Lima 1954[2974]: 175.—Not stated [Brazil?]. HT ♀ IOC. [6602982]
angusta. USA (s. Oregon, Colorado & Louisiana) S to Guatemala & Belize [NE, NT].
Eutreta angusta Banks 1926[315]: 44.—USA. Texas. LT ♀ MCZ. Lectotype designated by Stoltzfus 1977: 377. [6600093]
Eutreta pacifica Curran 1932[1043]: 17.—USA. California: Pomona. HT ♂ AMNH. [6600852]
Eutreta sparsa: Loew 1873[3042]: 275.—misid. See Stoltzfus 1977: 377. [6605571]
apicalis. Mexico (Veracruz, Chiapas), Nicaragua, Costa Rica [NT].
Ictericia apicalis Coquillett 1904[960]: 96.—Nicaragua. San Marcos. HT ♂ USNM. **N. Comb.** [6600801]
Ictericia lunata Hendel 1914[2103]: 61.—Mexico. Veracruz: Orizaba. HT ♀ NMW. [6602025]
apicata. Mexico (Michoacan, Morelos, Chiapas), Guatemala, Costa Rica [NE, NT].
Eutreta apicata Hering 1935[2161]: 225.—Costa Rica. ST ♀ PAN. [6602223]
brasiliensis. Brazil [NT].
Eutreta brasiliensis Stoltzfus 1977[4666]: 378.—Brazil. HT ♀ NMW. [6604425]
caliptera. Canada & USA (s. Manitoba E to New Brunswick, S to Louisiana & South Carolina) [NE].
Trypeta caliptera Say 1830[4286]: 187.—USA. Indiana: Lafayette. NT ♀ USNM. Neotype designated by Stoltzfus 1977: 379. [6604172]
Eutreta calyptera Aczel 1950[14]: 265.—missp. *caliptera* Say. [6605737]
Eutreta sparsa: Novak et al. 1967[3676]: 147.—misid. (*Helianthus* & *Vernonia* host records). [6605596]
christophe. Mexico (Durango to Morelos), Haiti? [NE, NT].
Ictericia christophe Bates 1933[350]: 165.—Haiti. Port-au-Prince [erroneous?, Mexico?]. HT ♀ MCZ. **N. Comb.** [6600098]
distincta. Venezuela, Peru, Bolivia, Brazil [NT].
Icaria distincta Schiner 1868[4296]: 276.—South America [Venezuela]. HT ♀ NMW. Type data (Hardy 1968: 138). [6604199]
eluta. Mexico (Chiapas) [NT].
Eutreta eluta Stoltzfus 1977[4666]: 380.—Mexico. Chiapas: 4 mi. N Bochil. HT ♂ CNC. [6604426]
frontalis. Canada & USA (s. Manitoba E to s. Quebec, S to South Dakota, Illinois & Georgia) [NE].
Eutreta frontalis Curran 1932[1043]: 16.—USA. North Carolina. HT ♀ AMNH. [6600851]
Eutreta sparsa: Novak et al. 1967[3676]: 147.—misid. (*Aster* host record). [6605595]
frosti. Ecuador [NT].
Eutreta frosti Hering 1938[2180]: 415.—Ecuador. Banos. LT ♀ BMNH. Lectotype designated by Stoltzfus 1977: 382. [6602317]
hespera. Canada & USA (Yukon E to Ontario, S to California & New Mexico) [NE].
Eutreta hespera Banks 1926[315]: 44.—USA. Colorado: Manitou. LT ♂ MCZ. Lectotype designated by Stoltzfus 1977: 382. [6600094]
Eustreta sparsa Woodworth 1913[5204]: 137.—missp. *sparsa* Wiedemann. [6605608]
intermedia. USA (Arizona) S to Mexico (Veracruz & Oaxaca) [NE, NT].
Eutreta intermedia Stoltzfus 1977[4666]: 382.—Mexico. Mexico: 17 mi. N Atlacomulco, 8600 ft. HT ♀ UKaL. [6604427]
Eutreta navajorum Blanc 1987[521]: 427.—USA. Arizona: Cochise Co., Huachuca Mts., Sunnyside Canyon. HT ♀ UKaL. Depository misstated as USNM. [6600567]

- jamaicensis*. Jamaica [NT].
Eutreta jamaicensis Stoltzfus 1977[4666]: 383.—Jamaica. Blue Mt. trail. HT ♀ CNC. [6604428]
- latipennis*. Probably neotropical [NT].
Platystoma latipennis Macquart 1843[3076]: 357.—Unknown [probably neotropical]. ST ♀ MNHNP? Attributed to Guerin-Menneville. **N. Status** [6603209]
- margaritata*. Mexico (Chihuahua, Durango, Hidalgo, Mexico, Distrito Federal, Morelos, w. Veracruz) [NE].
Eutreta margaritata Hendel 1914[2103]: 56.—Mexico. Veracruz: Orizaba. HT ♂ NMW. [6602018]
- mexicana*. Mexico (Distrito Federal) [NE].
Eutreta mexicana Stoltzfus 1977[4666]: 384.—Mexico. Distrito Federal: Desierto de Los Leones. HT ♂ USNM. [6604429]
- novaeboracensis*. Canada & USA (North Dakota, Ontario & Nova Scotia S to Nebraska, n. Mississippi & Georgia) [NE].
Acinia novaeboracensis Fitch 1855[1437]: 771.—USA. New York: Tompkins Co., Sixmile Creek above Ithaca Reservoir. NT A CUI. Neotype designated by Stoltzfus 1977: 382; ST female in USNM (Barnes 1988: 111). [6601254]
Trypeta cribripennis Johnson 1925[2516]: 97.—*Nomen nudum*. ST A MCZ. Attributed to Harris; synonymy uncertain. [6605529]
Trypeta sparsa: Loew 1862[3033]: 78.—misid. [6605622]
Eutreta sparsa: Novak et al. 1967[3676]: 147.—misid. (*Solidago* host records). [6605594]
- obliqua*. Colombia, Ecuador [NT].
Eutreta obliqua Stoltzfus 1977[4666]: 386.—Colombia. Rio Tocata (Jacota?). HT ♂ BMNH. [6604430]
- parasparsa*. Paraguay, Argentina, s. Brazil [NT].
Eutreta parasparsa Blanchard 1965[535]: 79.—Argentina. Tucuman: Tafi Viejo. ST ♂ IML. [6600620]
- patagiata*. Mexico (Guerrero) [NE].
Eutreta patagiata Wulp 1899[5217]: 414.—Mexico. Guerrero: Omilteme, 8000 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 241. [6604794]
Eutreta patagiata Aczel 1950[14]: 265.—missp. *patagiata* Wulp. [6605738]
- rhinophora*. Mexico S to Colombia & Venezuela [NT].
Eutreta rhinophora Hering 1937[2172]: 297.—Costa Rica. NT ♂ PAN. Neotype designated by Stoltzfus 1977: 387. [6602291]
- sparsa*. Brazil (Rio de Janeiro, Sao Paulo) [NT].
Trypeta sparsa Wiedemann 1830[5136]: 492.—Brazil. Rio de Janeiro. NT ♀ UZMH. Neotype designated by Stoltzfus 1977: 389. [6604736]
- xanthochaeta*. Mexico (Sinaloa, Jalisco, Morelos, Guerrero, Chiapas), Guatemala, El Salvador; introduced Hawaii, Australia [NE, NT, AU].
Eutreta xanthochaeta Aldrich 1923[68]: 261.—USA. Hawaii: Honolulu. HT ♂ USNM. [6600078]
- Subgenus METATEPHRITIS**
- Metatephritis* Foote 1960[1494]: 110, *fenestrata* Foote (OD). [6600742]
Uncaculeus Stoltzfus 1977[4666]: 390, *Trypeta diana* Osten Sacken (OD). **N. Syn.** [6600001]
- coalita*. USA (California) [NE].
Eutreta coalita Blanc 1979[520]: 162.—USA. California: Tulare Co., 5 mi. E Smith Meadow, 9 Mile Canyon, 7850 ft. HT ♀ USNM. [6600563]
- decora*. USA (Utah) [NE].
Eutreta decora Stoltzfus 1977[4666]: 391.—USA. Utah: Green Canyon. HT ♀ USNM. [6604431]
- diana*. Canada & USA (s. British Columbia & Manitoba S to California & w. Texas; Minnesota, Missouri) [NE].
Trypeta diana Osten Sacken 1877[3718]: 347.—USA. Missouri. ST ♂ ♀ MCZ. [6603941]
Eutreta diana var. *tricolor* Snow 1894[4527]: 168.—USA. Montana. LT ♀ UKaL. Lectotype designated by Foote 1962: 178. [6604374]
Eutreta jonesi Curran 1932[1043]: 19.—USA. Oregon: Harney Co., Antelope Mt., 6500 ft. HT ♀ AMNH. [6600856]
Euaresta tricolor: Huber 1927[2330]: 48.—misid. See Norrbom 1992: 552. [6605098]
Gymnocarena tricolor: Grissell 1979[1820]: 753.—misid. See Norrbom 1992: 552. [6605097]
- divisa*. Canada (s. British Columbia), USA (Washington, Idaho, Oregon, n. California) [NE].
Eutreta divisa Stoltzfus 1977[4666]: 393.—USA. Idaho: Regina. HT ♂ USNM. [6604432]
- fenestrata*. USA (n. California, Wyoming) [NE].
Metatephritis fenestrata Foote 1960[1494]: 110.—USA. Wyoming: near Cody, North Side, Buffalo Bill Reservoir. HT ♂ USNM. **N. Comb.** [6601275]
Eutreta modocorum Blanc 1987[521]: 425.—USA. California: Modoc Co., 4 mi. E of Davis Creek. HT ♀ USNM. **N. Syn.** [6600566]
- longicornis*. Canada & USA (Alberta & Saskatchewan, S to Idaho, Wyoming & South Dakota) [NE].
Eutreta longicornis Snow 1894[4527]: 168.—USA. Montana. HT ♂ UKaL. Type data (Foote 1962: 175). [6604373]
Eutreta facialis Curran 1932[1043]: 17.—USA. Montana: Huntley. HT ♀ AMNH. [6600853]
- oregona*. USA (Oregon, Idaho, n. California, Nevada) [NE].
Eutreta oregona Curran 1932[1043]: 18.—USA. Oregon: Blitzen River. HT ♂ AMNH. [6600855]
- pollinosa*. USA (Washington & Montana S to California & Utah) [NE].
Eutreta pollinosa Curran 1932[1043]: 18.—USA. Oregon: Harney Co., Antelope Mt., 6500 ft. HT ♂ AMNH. [6600854]
- simplex*. USA (California, Colorado, New Mexico) [NE].
Eutreta simplex Thomas 1914[4797]: 425.—USA. Colorado: Sunset, 8000 ft. HT ♀ MCZ. [6604509]
- Subgenus SETOSIGENA**
- Setosigena* Stoltzfus 1977[4666]: 395, *Trypeta rotundipennis* Loew (OD). Proposed as a subgenus. [6600644]
- fenestra*. USA (Arizona) [NE].
Eutreta fenestra Stoltzfus 1977[4666]: 395.—USA. Arizona: Huachuca Mts., Ramsey Canyon. HT ♀ USNM. [6604433]
- rotundipennis*. USA (Pennsylvania & New Jersey S to Tennessee & w. North Carolina; Kansas, Texas?) [NE].
Trypeta rotundipennis Loew 1862[3033]: 79.—USA. “Middle States”. HT ♂ MCZ. [6603096]
- Genus EUTRETOSOMA**
- Eutretosoma* Hendel 1914[2103]: 55, *Eutreta oculata* Hendel (OD). [6600204]
- REFS—Bezzi 1918[456]: 26 (key to 5 spp. (obsolete) [AF]); Bezzi 1924[472]: 148 (key to 3 spp. [AF]).
- kovacsi*. Ethiopia [AF].
Perirhithrum kovacsi Hering 1941[2195]: 74.—Ethiopia. Harar: Dire-Daua [Dire Dawa]. HT ♀ MNM. [6602548]

Perirhithrum kovácsi Hering 1941[2195]: 74.—incosp. *kovácsi* Hering. Automatic correction under Art. 32(d). [6605717]

marshalli. Zimbabwe; South Africa? [AF].

Eutretosoma marshalli Bezzi 1924[470]: 522.—South Africa. Natal [error, Zimbabwe]. ST A BMNH. [6605061]

Eutretosoma marshalli Bezzi 1924[472]: 150.—Zimbabwe. Chirinda Forest. ST ♂ ♀ BMNH. Preocc. Bezzi 1924: 522. [6600501]

oculatum. Mozambique [AF].

Eutreta oculata Hendel 1914[2103]: 55.—Mozambique. Rikatia. LT ♀ NMW. Lectotype designated by Hardy 1968: 115. [6602017]

woodi. Malawi, South Africa [AF].

Eutretosoma woodi Bezzi 1924[470]: 522.—Nyasaland [Malawi]. ST A BMNH. [6605059]

Eutretosoma woodi Bezzi 1924[472]: 149.—Malawi. Cholo. ST ♂ ♀ BMNH. Preocc. Bezzi 1924: 522. [6600500]

Genus EXALLOSOPHIRA

Exallosophira Hardy 1980[1949]: 149, *elegans* Hardy (OD). [6600546]

elegans. Solomon Is. [AU].

Exallosophira elegans Hardy 1980[1949]: 149.—Solomon Is. Santa Ysabel [Santa Isabel]: Tatamba, 0-50 m. HT ♀ BBM. [6601683]

Genus FELDERIMYIA

Felderimyia Hendel 1914[2102]: 81, *fuscipennis* Hendel (OD). [6600383]

flavipennis. Laos, w. Malaysia [OR].

Felderimyia flavipennis Hancock & Drew 1994[1900]: 560.—Malaysia. Selangor: near Kuala Lumpur, Ulu Langat. HT ♂ BMNH. [6605375]

fuscipennis. India, Burma, Thailand, Laos, w. Malaysia [OR].

Felderimyia fuscipennis Hendel 1914[2102]: 81.—“O.-Indien”. T A NMW. [6601932]

Felderimyia fuscipennis Hendel 1915[2105]: 431.—Ost-Indien [East Indies]. HT ♀ NMW. Preocc. Hendel 1914: 81; Lectotype designated by Hardy 1968: 116 invalid. [6602076]

gombakensis. w. Malaysia [OR].

Felderimyia gombakensis Hancock & Drew 1995[1903]: 47.—Malaysia. Old Bentong Pass, near Gombak. HT ♀ AMS. [6605835]

Genus FLAVILUDIA

Flaviludia Ito 1984[2418]: 192, *zephyria* Ito (OD). [6600460]

REF.—Kandybina 1977[2576]: 187 ((*Acidiella*) key to larvae of 2 spp. [PA]).

angustifascia. e. Russia, China (Beijing, Heilongjiang) [PA].

Myiolia angustifascia Hering 1936[2168]: 181.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602240]

Myiolia flavonigra: Zia 1937[5308]: 169.—misid. See Foote 1984: 69. [6605702]

echinopanacis. e. Russia [PA].

Acidiella echinopanacis Kandybina 1966[2570]: 682.—Russia. Primorskiy: Shkotovo Dist., Kangauz Sta., Ponomarev. HT ♀ ZISP. [6602842]

Acidiella echinopanacia Kandybina 1966[2571]: 385.—missp. *echinopanacis* Kandybina. [6602843]

zephyria. Japan (Honshu) [PA].

Flaviludia zephyria Ito 1984[2418]: 192.—Japan. Honshu: Sinano, Nagano. HT ♀ UOPJ. [6602818]

Genus FREYOMYIA

Freyomyia Hardy 1974[1943]: 67, *bivittata* Hardy (OD). [6600356]

bivittata. Philippines (Mindanao) [OR].

Freyomyia bivittata Hardy 1974[1943]: 67.—Philippines. Mindanao, Agusan: Los Arcos. HT ♂ BBM. [6601668]

Genus FUSCILUDIA

Fusciludia Ito 1984[2418]: 182, *aliquantula* Ito (OD). [6600457]

REF.—Hardy 1987[1963]: 315 ((*Myoleja*) key to 2 spp. [AU: New Guinea]).

aliquantula. Korea, Japan (Hokkaido, Honshu) [PA].

Fusciludia aliquantula Ito 1984[2418]: 183.—Japan. Hokkaido: Isikari, Sapporo. HT ♂ UOPJ. [6602815]

bicuneata. Papua New Guinea [AU].

Myoleja bicuneata Hardy 1987[1963]: 317.—Papua New Guinea. Milne Bay: Normanby I., Sewa Bay, Wakaiuna. HT ♂ BBM. [6601828]

disjuncta. Vietnam [OR].

Myoleja disjuncta Hardy 1973[1942]: 254.—Vietnam. Dalat, 1500 m. HT ♀ BBM. [6601591]

ensifera. Japan (Ryukyu Is.) [OR].

Vidalia ensifera Ito 1984[2417]: 105.—Japan. Ryukyu Is.: Okinawahonto I., Nakagusuku. HT ♂ UOPJ. [6602795]

mesopleuralis. Fiji [AU].

Pseudospheniscus mesopleuralis Malloch 1939[3138]: 242.—Fiji. Viti Levu: Suva. HT ♀ BMNH. [6603317]

unicuneata. Indonesia (Irian Jaya), Papua New Guinea, Australia (ne. Qld. to e. cent. NSW) [AU].

Myoleja unicuneata Hardy 1987[1963]: 338.—Indonesia. Irian Jaya: Swart [Ilim] Valley, Kurubaka, 1400 m. HT ♂ BBM. [6601837]

Genus GALBIFASCIA

Galbifascia Hardy 1973[1942]: 247, *sexpunctata* Hardy (OD). [6600399]

quadripunctata. Sri Lanka, Philippines (Luzon) [OR].

Galbifascia quadripunctata Hardy 1973[1942]: 247.—Sri Lanka. Central: Pundaluoya [7°01'N 80°40'E]. HT ♀ BMNH. [6601589]

sexpunctata. India (Kerala), Thailand, Laos, Vietnam [OR].

Galbifascia sexpunctata Hardy 1973[1942]: 248.—Laos. Vientiane: Muong Tourakom, 120 m. HT ♂ BBM. [6601590]

Genus GASTROZONA

Gastrozona Bezzi 1913[448]: 105, *Tephritis fasciventris* Macquart (OD). [6600247]

Gastrozoa Shinji 1939[4422]: 289, missp. *Gastrozona* Bezzi. [6600905]

REFS—Bezzi 1913[448]: 105 (key to 2 spp. [OR: India]); Bezzi 1926[474]: 261 (key to 8 spp. (obsolete) [OR]); Hardy 1973[1942]: 187 (key to 13 spp. [OR]); Hardy 1988[1964]: 98 (key to 3 spp. [OR: Indonesia]); Kapoor 1993[2600]: 44 (key to 4 spp. [OR: India]).

apicemaculata. Burma [OR].

Gastrozona apicemaculata Hering 1938[2181]: 11.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602335]

balioptera. India (Arunachal Pradesh), Burma, Thailand [OR].

Gastrozona balioptera Hardy 1973[1942]: 188.—Thailand. Chiang Mai: Chiang Dao. HT ♂ BMNH. [6601568]

fasciata. Malaysia (Sarawak), Indonesia (Kalimantan) [OR].

Urophora fasciata Walker 1856[4962]: 134.—Malaysia. Sarawak. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 226. [6604608]

Carpophthoromyia borneensis Hering 1952[2218]: 283.—e. Borneo. HT ♀ RNH. [6602682]

fasciventris. India, China, Taiwan, Thailand, Laos, w. Malaysia, Indonesia (Sumatra) [PA, OR].

Tephritis fasciventris Macquart 1843[3076]: 382.—“Indes orientales”. T ♂ MNHNP. [6603217]

Tephritis vittata Macquart 1851[3085]: 263.—Asia. T ♀ MNHNP. [6603244]

Gastrozona macquarti Hendel 1913[2099]: 38.—Taiwan. Kanchirei. ST ♂ ♀ DEI, NMW. Type data (Hardy 1968: 117). [6601919]

Gastrozona melanista Bezzi 1913[448]: 107.—India. Kerala: on ship, 5 mi. off Calicut [Kozhikode], Malabar Coast. HT ♀ ZSI. [6600197]

Gastrozona appendiculata Zia 1938[5309]: 22.—China. se. Gansu: Cheumen [Yumen]. HT ♂ IZAS. [6604847]

Gastrozona melanophila Hering 1940[2185]: 3.—Taiwan. Tao Tsui Kutsu. HT ♂ BMNH. [6602434]

Tephritis fusciventris Macquart 1843[3076]: 459.—incosp. *fasciventris* Macquart. Hardy 1973: 190 (FR). [6603228]

fukienica. China (Fujian) [OR].

Gastrozona fukienica Hering 1953[2221]: 5.—China. Fujian: Kuantun. HT ♀ ZFMK. [6602713]

hirtiventris. China (Zhejiang) [PA, OR].

Gastrozona hirtiventris Chen 1948[814]: 97.—China. Zhejiang: Mokanshan [Mogashan]. HT ♂ IZAS. [6600726]

isis. Burma [OR].

Gastrozona isis Hering 1938[2181]: 12.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602336]

montana. India (Assam, W. Bengal) [OR].

Gastrozona montana Bezzi 1913[448]: 106.—India. W. Bengal: e. Himalayas, Kurseong, 5000 ft. ST ♂ ♀ ZSI. [6600196]

orbata. Burma [OR].

Gastrozona orbata Hering 1938[2181]: 10.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602334]

parviseta. Thailand [OR].

Gastrozona parviseta Hardy 1973[1942]: 192.—Thailand. Chiang Mai: Chiang Dao, 450 m. HT ♂ BBM. [6601569]

proterva. India, Burma [OR].

Gastrozona proterva Hering 1938[2181]: 13.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602338]

quadrivittata. China (Guizhou, Hunan) [PA].

Gastrozona quadrivittata Wang 1992[4999]: 1150.—China. Guizhou: Mt. Leigong (26.4°N 108.2°E), 1700-2000 m. HT ♀ IZAS. [6605205]

soror. Thailand, Indonesia (Java) [OR].

Acidia soror Schiner 1868[4296]: 264.—Indonesia. Java: Batavia [Jakarta]. HT ♂ NMW. Type data (Hardy 1968: 141). [6604179]

vulgaris. China (Jiangsu, Anhui, Zhejiang, Hunan, Fujian) [PA, OR].

Gastrozona vulgaris Zia 1937[5308]: 151.—China. Jiangsu: Nanking [Nanjing]; Zo-se [Sheshan]; Shanghai; Chemo; Chingkiang; or Moka-Shan [Mogashan]. HT A IZAS. Sex & locality of HT not specified. [6604831]

Genus GERRHOCERAS

Gerrhoceras Hering 1942[2205]: 474, *paradoxa* Hering (OD). [6600030]

paradoxa. Bolivia [NT].

Gerrhoceras paradoxa Hering 1942[2205]: 475.—Bolivia. La Paz: Coroica [Coroico]. HT ♂ MNM. [6602536]

peruviana. Peru [NT].

Gerrhoceras peruviana Korytkowski 1976[2763]: 412.—Peru. Lima: San Mateo, Km. 101 Carretera Central. HT ♂ MEUA. [6602907]

Genus GHENTIA

Ghentia Munro 1947[3496]: 233, *Afreutreta limbatella* Bezzi (OD) = *millepunctatum* Bezzi. [6600145]

millepunctata. Eritrea, South Africa [AF].

Eutretosoma millepunctatum Bezzi 1918[456]: 26.—Eritrea. Ghinda. HT ♀ MCSNM. [6600298]

Afreutreta millepunctata var. *limbatella* Bezzi 1926[476]: 292.—South Africa. Transvaal: Barberton, Stentor. ST ♂ ♀ SANC. [6600525]

Genus GONIURELLIA

Goniurellia Hendel 1927[2107]: 23, *Urellia tridens* Hendel, I.C.Z.N. 1982[2375]: 109 (SD). Proposed as a subgenus. [6600250]

REFS—Freidberg 1980[1553]: 257 (revision of 8 spp. [PA, AF, OR]); Freidberg & Kugler 1989[1571]: 94 (key to 5 spp. [PA: Israel & Sinai]).

lacerata. Egypt, Iran [PA].

Trupanea lacerata Becker 1913[378]: 644.—Iran. Baluchestan: Kirman, between Dech-i-Pabid & Chasyk. ST ♂ ♀ ZISP. Also ST in ZMHU. [6600147]

longicauda. France, Canary Is., Morocco to Egypt, Turkey, Syria, Israel; Kenya? [PA].

Goniurellia longicauda Freidberg 1980[1553]: 265.—Israel. Ein Gedi. HT ♂ TAUI. [6601327]

Urellia augur: Becker 1908[374]: 140.—misid. see Merz 1992: 226. [6605430]

munroi. Gambia, Zambia, Zimbabwe, Namibia, South Africa [AF].

Goniurellia munroi Freidberg 1980[1553]: 268.—Zambia. Shangombo. HT ♂ SANC. [6601328]

omissa. South Africa [AF].

Goniurellia omissa Freidberg 1980[1553]: 268.—South Africa. Transvaal: Pretoria. HT ♂ SANC. [6601329]

persignata. Morocco, Egypt, Ethiopia, Cyprus, Israel, Turkmenistan, China, Sri Lanka [PA, AF, OR].

Goniurellia persignata Freidberg 1980[1553]: 269.—Israel. Tel Aviv. HT ♂ TAUI. [6601330]

Goniurellia ceylonensis Freidberg 1980[1553]: 263.—Sri Lanka. Central: near Nuwara Eliya, Tea Estate. HT ♀ BMNH. [6601326]

spinifera. Israel, Saudi Arabia, Yemen, Egypt, Sudan, Eritrea, Ethiopia [PA, AF].

Goniurellia spinifera Freidberg 1980[1553]: 270.—Israel. Dead Sea area, Kallia. HT ♂ TAUI. [6601331]

tridens. Israel, Arabia, Turkmenistan, Uzbekistan, Iran, Pakistan, India [PA, OR].

Urellia augur var. *tridens* Hendel 1910[2095]: 106.—Turkmenistan. Upper Murgab. LT ♀ NMW. Lectotype designated by Hardy 1968: 127. [6601904]

Trypanea pentadactyla Senior-White 1922[4359]: 164.—India. Bihar: Banhar. HT ♂ BMNH. [6604248]

Genus GRESSITTIDIUM

Gressittidium Hardy 1986[1962]: 64, *flavicoxa* Hardy (OD). [6600509]

flavicoxa. Indonesia (Irian Jaya), Papua New Guinea [AU].

Gressittidium flavicoxa Hardy 1986[1962]: 64.—Papua New Guinea. East Sepik: lower Sepik R. HT ♂ ANIC. [6601803]

Genus GRIPHOMYIA

Griphomyia Hardy 1987[1963]: 290, *spilota* Hardy (OD). [6600595]

REF.—Hardy 1987[1963]: 291 (key to 5 spp. [AU: New Guinea to Solomon Is.]).

argentifrons. Papua New Guinea [AU].

Griphomyia argentifrons Hardy 1987[1963]: 292.—Papua New Guinea. Morobe: Mt. Kaindi, 2350 m. HT ♂ BBM. [6601820]

brunnipennis. Papua New Guinea [AU].

Griphomyia brunnipennis Hardy 1987[1963]: 293.—Papua New Guinea. Morobe: Mt. Kaindi, 2350 m. HT ♂ BBM. [6601821]

spilota. Papua New Guinea [AU].

Griphomyia spilota Hardy 1987[1963]: 294.—Papua New Guinea. Eastern Highlands: 15 km. NW of Okapa, Moife, 2100 m. HT ♀ BBM. [6601822]

vittata. Bougainville I. [AU].

Griphomyia vittata Hardy 1987[1963]: 295.—Papua New Guinea. North Solomons: Bougainville I., Togerao, 1220 m. HT ♀ BBM. [6601823]

vittifrons. Papua New Guinea [AU].

Griphomyia vittifrons Hardy 1987[1963]: 296.—Papua New Guinea. Eastern Highlands: Okapa, 64 km. S of Kainantu, 1800 m. HT ♂ BBM. [6601824]

Genus GYMNACIURA

Gymnaciura Hering 1942[2206]: 284, *Aciura distigmoides* Hering (OD) = *austeni* Munro. [6600146]

Tanaosema Munro 1947[3496]: 164, *Spheniscomyia neavei* Bezzi (OD). [6600147]

REF.—Munro 1947[3496]: 165 ((*Tanaosema*) key to 2 spp. [AF]).

austeni. Eritrea, Sierra Leone, Kenya, Tanzania, Zimbabwe, Madagascar [AF].

Tephrella austeni Munro 1935[3470]: 7.—Sierra Leone. Freetown. HT ♀ BMNH. [6603575]

Spheniscomyia neavei var. *chyuluensis* Munro 1939[3489]: 7.—Kenya. Chyulu Hills, 5000 ft. HT ♀ BMNH. [6603638]

Aciura distigmoides Hering 1941[2199]: 196.—Tanzania. Linda. HT ♀ NMW. [6602551]

Gymnaciura austeni f. *concosa* Munro 1955[3507]: 421.—Eritrea. Fagena. HT ♂ SANC. [6603727]

neavei. Malawi, Zimbabwe [AF].

Spheniscomyia neavei Bezzi 1920[463]: 256.—Malawi. Mlanje: Mt. Mlanje [Sapitwa]. ST ♂ ♀ BMNH. [6600351]

Genus GYMNOCARENA

Gymnocarena Hering 1940[2185]: 4, *Oedicarena diffusa* Snow (OD). [6600750]

Tomoplagiodes Aczel 1954[25]: 91, *mexicana* Aczel (OD). [6600081]

Mylogymnocarena Foote 1960[1494]: 111, *Urellia apicata* Thomas (OD). [6600741]

REFS—Foote 1960[1494]: 112 (key to 3 spp. [NE]); Blanc & Foote 1987[523]: 429, 431 ((*Gymnocarena* & *Mylogymnocarena*) keys to 5 spp. [NE: USA & Canada]); Norrbom 1992[3658]: 527 (revision of 15 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 203, 215 ((*Gymnocarena* & *Mylogymnocarena*) keys to 5 spp. [NE: USA & Canada]).

angusta. Mexico (Distrito Federal, Morelos) [NE].

Gymnocarena angusta Norrbom 1992[3658]: 540.—Mexico. Morelos: Rt. 142 (Xochimilco-Oaxtepec), Km. 49.5, 5 km. N of El Vigia. HT ♀ UNAM. Depository originally misstated as USNM. [6605206]

apicata. USA (Colorado, Utah, New Mexico), Mexico (Durango) [NE].

Urellia apicata Thomas 1914[4797]: 428.—USA. Colorado. HT ♀ MCZ. [6604511]

bicolor. USA (Arizona, New Mexico), Mexico (Chihuahua) [NE].

Gymnocarena bicolor Foote 1960[1494]: 113.—USA. Arizona: Chiricahua Mts., Indian Creek Canyon, 6100 ft. HT ♂ USNM. [6601276]

carinata. Mexico (Distrito Federal) [NE].

Gymnocarena carinata Norrbom 1992[3658]: 542.—Mexico. Distrito Federal: La Cima. HT ♀ UNAM. Depository originally misstated as USNM. [6605207]

diffusa. Canada & USA (s. British Columbia & Manitoba, S to Arizona, n. Texas & n. Mississippi) [NE].

Oedicarena diffusa Snow 1894[4527]: 161.—USA. Kansas. LT ♀ UKaL. Lectotype designated by Foote 1962: 174. [6604366]
Strauzia diffusa Cresson 1907[1009]: 100.—missp. *diffusa* Snow. [6605085]

fusca. Mexico (Morelos) [NE].

Gymnocarena fusca Norrbom 1992[3658]: 546.—Mexico. Morelos: 6 mi. E of Cuernavaca. HT ♀ USU. [6605208]

hernandezii. Mexico (Michoacan, Jalisco) [NE].

Gymnocarena hernandezii Norrbom 1992[3658]: 546.—Mexico. Michoacan: 5.3 mi. SE of Quiroga. HT ♀ UKaL. [6605209]

lichtensteinii. Mexico [NE].

Trypeta lichtensteinii Wiedemann 1830[5136]: 497.—Mexico [probably Distrito Federal, Mexico, Morelos or Puebla]. LT ♂ ZMHU. Lectotype designated by Norrbom 1992: 547. [6604739]
Ictericia lichtensteini Aczel 1950[14]: 273.—missp. *lichtensteinii* Wiedemann. [6605739]

magna. Mexico (Jalisco, Mexico) [NE].

Gymnocarena magna Norrbom 1992[3658]: 548.—Mexico. Jalisco: 14.7 mi. SW of Yahualica, El Aguacate. HT ♀ SDNHM. [6605210]

mexicana. Mexico (mountains of Durango to Michoacan & Puebla) [NE].

Tomoplagiodes mexicana Aczel 1954[25]: 91.—Mexico. Distrito Federal. HT ♂ USNM. [6600032]

mississippiensis. USA (Kentucky, Oklahoma, Mississippi) [NE].

Gymnocarena mississippiensis Norrbom 1992[3658]: 550.—USA. Mississippi: Lafayette Co., Oxford. HT ♀ AMNH. [6605211]

Gymnocarena tricolor: Blanc & Foote 1987[523]: 429.—misid. See Norrbom 1992: 550. [6605076]

serrata. Mexico (mountains of Jalisco to Puebla) [NE].

Gymnocarena serrata Norrbom 1992[3658]: 551.—Mexico. Morelos: Carretera Xochimilco-Oaxtepec [Rt. 142], Km. 49.5, [5 km. N of El Vigia]. HT ♀ UNAM. [6605212]

- tricolor.** USA (South Dakota E to Wisconsin & Indiana) [NE].
Euaresta tricolor Doane 1899[1189]: 191.—USA. South Dakota.
 LT ♂ WSU. Lectotype designated by Foote 1966: 125; type data
 (Zack 1984: 32). [6600932]
Gymnocarena flava Foote 1987[1518]: 430.—USA. Iowa:
 Manson, Kalsow Prairie. HT ♀ USNM. [6601294]

Genus *GYMNOSAGENA*

- Gymnosagena* Munro 1935[3470]: 5, *unicornuta* Munro (OD).
 [6600170]
unicornuta. Zimbabwe [AF].
Gymnosagena unicornuta Munro 1935[3470]: 5.—Zimbabwe.
 Mazoe. ST ♂ ♀ SANC. [6603573]

Genus *HARDYADRAMA*

- Hardyadrama* Lee 1991[2895]: 106, *excoecariae* Lee (OD).
 [6600811]
 REF.—Permkam & Hancock 1995[3795]: 1169 (revision of 4
 spp. [AU: Australia]).

- alyta.** Australia (n. Qld.) [AU].
Hardyadrama alyta Permkam & Hancock 1995[3795]:
 1170.—Australia. Queensland: 6 mi. N Bloomfield R., Gap
 Creek. HT ♀ QMBA. [6605867]
excoecariae. Singapore, Australia (n. WA, e. Qld.) [OR, AU].
Hardyadrama excoecariae Lee 1991[2895]: 106.—Singapore.
 Sungei Buloh mangroves. HT ♂ BMNH. [6605021]
magister. Singapore, Australia (e. Qld.) [OR, AU].
Adrama magister Lee 1991[2895]: 111.—Singapore. Lim Chu
 Kang mangroves. HT ♂ BMNH. [6605020]
presignis. Thailand, Philippines (Palawan), Australia (Torres Strait)
 [OR, AU].
Euphranta presignis Hardy 1973[1942]: 147.—Thailand.
 Songkhla: Songkhla. HT ♂ BBM. [6601555]

Genus *HAYWARDINA*

- Haywardina* Aczel 1951[20]: 258, *Tomoplagia cuculi* Hendel
 (OD). [6600032]
Cryptoplagia Aczel 1951[20]: 265, *cuculiformis* Aczel (OD).
 [6600019]
 REF.—Norrbon 1994[3663]: 47 (revision of 4 spp. [NT]).

- bimaculata.** Ecuador, Peru [NT].
Haywardina bimaculata Norrbom 1994[3663]: 47.—Peru.
 Cajamarca: Cochabamba, 1650 m. HT ♂ USNM. [6605339]
cuculi. Argentina (Salta, Tucuman) [NT].
Tomoplagia cuculi Hendel 1914[2103]: 35.—Argentina.
 Tucuman. ST ♂ ♀ MNM, NMW. [6601984]
cuculiformis. Peru [NT].
Cryptoplagia cuculiformis Aczel 1952[20]: 265.—Peru. Piura. HT
 ♂ USNM. [6600008]
obscura. Argentina (Cordoba) [NT].
Haywardina obscura Norrbom 1994[3663]: 51.—Argentina.
 Cordoba. HT ♂ MCZ. [6605340]

Genus *HEMICLUSIOSOMA*

- Hemiclusiosoma* Hardy 1986[1962]: 66, *trivittatum* Hardy (OD).
 [6600510]

- trivittatum.** Papua New Guinea (Morobe) [AU].
Hemiclusiosoma trivittatum Hardy 1986[1962]: 66.—Papua New
 Guinea. Morobe: Wau, 1250 m. HT ♂ BBM. [6601804]

Genus *HEMILEA*

- Hemilea* Loew 1862[3038]: 32, *Trypeta dimidiata* Costa (MO).
 [6600596]
Hemileophila Hering 1940[2187]: 55, *alini* Hering (OD).
 [6600253]
Pseudhemilea Chen 1948[814]: 111, *Acidiella nudiarista* Chen
 (OD). Proposed as a subgenus. [6600212]
Drosanthus Hering 1952[2218]: 287, *melanopteryx* Hering (OD).
 [6600422]
Hemileoides Rohdendorf 1955[4171]: 326, *theodori* Rohdendorf
 (OD). [6600252]
Hyleurinus Ito 1984[2417]: 114, *kalopanacis* Ito (OD). [6600450]
Dryadodacryma Ito 1984[2419]: 197, *fenestratum* Ito (OD).
 [6600464]
Yamanowotome Ito 1984[2418]: 178, *Acidiella accepta* Ito (OD).
 [6600455]
Hyleurinus Ito 1956[2407]: 24, *Nomen nudum*. [6600798]
Yamanowotome Ito 1956[2407]: 25, *Nomen nudum*. [6600807]
Haemilea Rondani 1871[4209]: 177, missp. *Hemilea* Loew.
 [6600960]
Ocneros: Rondani 1871[4209]: 180, misid. Not *Ocneros* Costa
 1844 (= *Palloptera*). [6600423]

- REFS—Shiraki 1933[4432]: 196 (key to 4 spp. [OR, PA: Japan
 & Taiwan]); Malloch 1939[3135]: 269 (key to 2 spp. [AU: Solomon
 Is.]); Ito 1984[2419]: 197 ((*Dryadodacryma*) key to 3 spp. [PA:
 Japan]); Kwon 1985[2802]: 72 (key to 2 spp. [PA: Korea]); Hardy
 1987[1963]: 299 (key to 13 spp. [PA, OR, AU]); Kapoor 1993[2600]:
 47 (key to 2 spp. [OR: India]).

- accepta.** Japan (Hokkaido, Honshu, Shikoku, Kyushu) [PA].
Acidiella accepta Ito 1951[2404]: 1.—Japan. Honshu: Tottori
 Prov., Daisen. HT ♀ Takeuchi. [6602767]
acrotoxa. Burma [OR].
Euleia acrotoxa Hering 1938[2181]: 44.—Burma. Kachin:
 Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602381]
albicostalis. Japan (Honshu) [PA].
Dryadodacryma albicostale Ito 1984[2419]: 199.—Japan.
 Honshu: Tanba, Seryo. HT ♂ UOJP. [6602821]
Acidiella albicostalis Ito 1956[2407]: 25.—*Nomen nudum*. Pub-
 lished after 1930 without a description. [6604984]
alini. China [PA].
Hemileophila alini Hering 1940[2187]: 55.—China. Manchuria,
 Sjaolin. HT ♂ DEI. [6602457]
araliae. New Britain [AU].
Hemilea araliae Malloch 1939[3135]: 271.—Papua New Guinea.
 New Britain: Rabaul. HT ♀ BMNH. [6603334]
atrata. Papua New Guinea (Morobe, Sepik) [AU].
Hemilea atrata Hardy 1987[1963]: 302.—Papua New Guinea.
 Morobe: Bulolo, Nawatabanda Logging Area. HT ♂ BBM.
 [6601825]
bipars. Laos, Philippines, Indonesia (Maluku), Papua New Guinea
 [OR, AU].
Sophira bipars Walker 1861[4972]: 23.—Indonesia. Maluku:
 Ceram [Seram Laut]. T ♀ BMNH. Walker probably misstated
 sex of ST, only male in BMNH (see Hardy 959: 199). [6604658]
clarilimbata. China (Zhejiang) [PA].
Acidiella clarilimbata Chen 1948[814]: 117.—China. Zhejiang:
 Tianmushan. HT A IZAS. Described from both sexes, but sex of
 HT not specified. [6605081]

- cnidella.** India (W. Bengal), Indonesia [OR].
Hemilea cnidella Munro 1935[3473]: 21.—India. W. Bengal: e. Himalayas, Darjeeling Dist., Pashok, 2000 ft. HT ♂ ZSI. [6603537]
Pseudacidia hemileophana Hering 1952[2217]: 45.—Indonesia. Nusa Tenggara: e. Sumba I., Baing, valley of Wai Lekabe. HT ♂ NMB. [6602668]
- continua.** Japan (Honshu) [PA].
Dryadodacryma continua Ito 1984[2419]: 200.—Japan. Honshu: Sinano, Kisohukushima. HT ♀ UOPJ. [6602822]
- dimidiata.** Spain, s. France, cent. Europe, Italy, w. Russia, Caucasus [PA].
Trypeta dimidiata Costa 1844[977]: 92.—Italy. s. Apulia: “Provincia di Terra d’Otranto”. T A IZUSN? [6600814]
Musca pulchella: Fabricius 1794[1377]: 352.—misid. not *Musca pulchella* Rossi = *Palloptera muliebris* Harris Pallopteridae). [6605458]
- fenestrata.** Japan (Hokkaido) [PA].
Dryadodacryma fenestratum Ito 1984[2419]: 198.—Japan. Hokkaido: Isikari, near Sapporo, Maruyama. HT ♂ UOPJ. [6602820]
Acidiella fenestrata Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604983]
- flavoscutellata.** Solomon Is. [AU].
Hemilea flavoscutellata Malloch 1939[3135]: 270.—Solomon Is. Malaita: Su’u, jungle. HT ♀ BMNH. [6603333]
- formosana.** Taiwan [OR].
Hemilea formosana Shiraki 1933[4432]: 198.—Taiwan. Arisan. HT ♂ NTU. [6604271]
- freyi.** Philippines (Luzon, Tawi-Tawi) [OR].
Acidiella freyi Hardy 1970[1940]: 104.—Philippines. Luzon, Banahao. HT ♀ UZMH. [6601515]
- infusata.** e. Russia, n. China, Korea, Japan [PA].
Hemilea dimidiata ssp. *infusata* Hering 1937[2174]: 57.—China. Manchuria, Erzendjanzs. HT ♀ BMNH. [6602260]
- kalopanacis.** Japan (Hokkaido) [PA].
Hyleurinus kalopanacis Ito 1984[2417]: 115.—Japan. Hokkaido: Isikari, Sapporo. HT ♂ HUS. [6602798]
Hyleurinus kalopanacis Ito 1956[2407]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604960]
- lineomaculata.** Papua New Guinea [AU].
Hemilea lineomaculata Hardy 1987[1963]: 306.—Papua New Guinea. Morobe: Wau, 1750 m. HT ♂ BBM. [6601826]
- longistigma.** Japan, Korea, China (Yunnan), Burma, Taiwan [PA, OR].
Hemilea longistigma Shiraki 1933[4432]: 201.—Japan. Hokkaido: Sapporo. HT ♂ NTU. [6604272]
- malaisei.** Burma [OR].
Hemilea malaisei Hering 1938[2181]: 28.—Burma. Kachin: Kambaiti [25°24’N 98°9’E]. HT ♀ NRS. [6602356]
- malgassa.** Madagascar [AF].
Hemilea malgassa Hancock 1985[1885]: 289.—Madagascar. Antananarivo: Ambatolampy district, Andranotobaka, 1400 m. HT ♂ MNHNP. [6601467]
- melanopteryx.** Indonesia (Java) [OR].
Drosanthus melanopteryx Hering 1952[2218]: 288.—Indonesia. w. Java: Djampang Tengah, G. Tjisuru, 6-800 m. HT ♂ RNH. [6602685]
- nabiae.** Korea [PA].
Hemilea nabiae Kwon 1985[2802]: 73.—South Korea. Kyongsangbuk: Mt. Chuwangsan. HT ♀ KUTK. [6602915]
- nudiarista.** China (Anhui, Zhejiang) [PA].
Acidiella nudiarista Chen 1948[814]: 112.—China. Anhui: Hwangshan; or Zhejiang: Tianmushan. HT ♀ IZAS. [6600713]
- pilosa.** Japan (Honshu) [PA].
Yamanowotome pilosa Ito 1984[2418]: 179.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. [6602814]
Acidiella pilosa Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604980]
- praestans.** India, Taiwan [OR].
Acidia praestans Bezzi 1913[448]: 141.—India. Uttar Pradesh: near Bhowali, Kumaon, 5700 ft. HT ♀ ZSI. [6600217]
Hemilea setigera Radhakrishnan 1984[4006]: 27.—India. Meghalaya: Shillong, Risa colony. HT ♂ ZSI. [6604018]
- quadrinaculata.** Thailand, w. Malaysia [OR].
Hemilea quadrinaculata Hancock & Drew 1995[1903]: 58.—Malaysia. Selangor: Fraser’s Hill. HT ♀ AMS. [6605839]
Hemilea araliae: Hardy 1973[1942]: 250.—misid. See Hancock & Drew 1995: 58. [6605873]
- sibirica.** e. Russia [PA].
Hypenidium sibiricum Portschinsky 1892[3876]: 216.—Russia. Amur, Wladiwostok [Primorskiy: Vladivostok]. LT ♂ ZISP. Lectotype designated by Richter 1969: 1497. [6604003]
- theodori.** e. Russia [PA].
Hemileoides theodori Rohdendorf 1955[4171]: 327.—Russia. Primorskiy: Vladivostok. HT ♀ ZISP. [6604105]
- undosa.** Japan (Hokkaido, Honshu, Shikoku, Kyushu) [PA].
Hemileophila undosa Ito 1951[2404]: 2.—Japan. Kyushu: Fukuoka Prov., Korasan. HT ♀ UOPJ. [6602768]

Genus HEMIRISTINA

Hemiristina Permkam & Hancock 1995[3795]: 1192, *pleomeles* Permkam & Hancock (OD). [6601000]

pleomeles. Australia (n. NT, n. Qld.) [AU].

Hemiristina pleomeles Permkam & Hancock 1995[3795]: 1193.—Australia. Northern Territory: Melville I. HT ♂ ANIC. [6605871]

Genus HENDRELLA

Hendrella Munro 1938[3482]: 117, *Trypeta caloptera* Loew (OD). [6600254]

REFS—Hendel 1927[2107]: 113 ((*Tephrella*) key to 4 spp. [PA]); Korneyev 1984[2731]: 87 (revision of 7 spp. [PA]); Hardy 1988[1965]: 13 ((*Tephrella*) key to 6 spp. [OR, AU]).

adila. Mongolia [PA].

Tephrella adila Richter 1975[4093]: 589.—Mongolia. Omnogovi: Gurban-Saikhan, 40 km. S of Bulgan. HT ♀ ZISP. [6604032]

australis. Papua New Guinea, Australia (WA, Qld., NSW) [AU].

Tephrella australis Malloch 1939[3137]: 456.—Australia. Western Australia. HT ♀ AMS? HT in ANIC according to Hardy & Drew 1996: 249. [6603361]

basalis. Kazakstan to e. Russia, Mongolia, China [PA].

Tephrella basalis Hendel 1927[2107]: 113.—China. Qinghai: Kuku-noor [Qinghai Hu]. T ♀ ZSZMH? [6602120]

Tephrella fulvescens Chen 1938[811]: 89.—China. Nei Mongol: Ordos, Cha-yun; Shanxi: Kiao-cheu; & Tsien-ou. ST ♂ IZAS. [6600697]

caloptera. Kazakstan E to e. Siberia, S to Turkmenistan, Mongolia & China (Qinghai, Shanxi) [PA].

Trypeta caloptera Loew 1850[3025]: 54.—Russia. Sibirien [Siberia]. ST ♂ ZMHU? ST damaged, in fragments, when described. [6603047]

heringi. New Ireland [AU].

Tephrella heringi Hardy 1970[1940]: 129.—Papua New Guinea. New Ireland: Mussau I., Eabarae. HT ♀ UZMC. [6601525]

- ibis.** Mongolia, China [PA].
Tephrella ibis Hendel 1927[2107]: 114.—China. Qinghai: Kuku-noor [Qinghai Hu]. T ♂ ZSZMH? [6602121]
- quinquincisa.** Mongolia [PA].
Hendrella quinquincisa Korneyev 1989[2731]: 89.—Mongolia. Arhangay: Baga-Bogro range. HT ♂ ZISP. [6602891]
- sexincisa.** Indonesia (Nusa Tenggara), Solomon Is., Australia (Qld., NSW, SA) [OR, AU].
Tephrella sexincisa Malloch 1939[3135]: 272.—Solomon Is. Russell Is. HT ♂ BMNH. [6603335]
- sordida.** Kirghizia [PA].
Hendrella sordida Korneyev 1989[2731]: 91.—Kirghizia. Sary-Djaz, Kaingdy-Kattah range, 7 km. above mouth of Kayingdy R., 2500-2700 m. HT ♂ UASK. [6602892]
- trimaculata.** Indonesia (Java) [OR].
Tephrella trimaculata Hardy 1988[1965]: 17.—Indonesia. Java: Bogor, Kabun Raya (botanical gardens). HT ♂ BBM. [6601854]
- variiegata.** India (Meghalaya) [OR].
Hendrella variiegata Radhakrishnan 1984[4005]: 41.—India. Meghalaya: Shillong, Risa Colony. HT ♀ ZSI. [6604017]
- winnertzii.** Ukraine to e. Siberia, Mongolia, China [PA].
Trypeta winnertzii Frauenfeld 1864[1542]: 149.—Russia. Sarepta. HT ♀ NMW. [6601312]
Tephrella winnertzi Hendel 1927[2107]: 114.—missp. *winnertzii* Frauenfeld. [6605966]

Genus *HERINGINA*

- Heringina* Aczel 1940[13]: 234, *Tephritis guttata* Fallen (OD). [6600255]
- guttata.** Sweden, Finland, cent. Europe, Ukraine, Caucasus, Kazakstan [PA].
Tephritis guttata Fallen 1814[1382]: 170.—not stated [Sweden]. LT A NRS. Lectotype designated by Persson 1958: 116, restricted type locality & sex of LT not stated. [6601241]
Trypeta gemmata Meigen 1826[3306]: 339.—Not stated [Europe]. T ♂ NMW. [6603442]
Tephritis guttata Fallen 1820[1383]: 11.—Sweden. Gyllebo, Scaniae, & “in aridis Raflundae”. ST ♂ ♀ NRS. Preocc. Fallen 1814. [6605169]

Genus *HERINGOMYIA*

- Heringomyia* Hardy 1968[1937]: 131, n. n. *Cladotricha* Hering. [6600662]
Cladotricha Hering 1941[2199]: 204, *Rhynchompterum fordianum* Munro (OD). Preocc. Gaievskaja 1926. [6600205]
- albipilosa.** Kenya [AF].
Cladotricha albipilosa Hering 1940[2189]: 15.—Kenya. Nairobi. HT ♂ ZSZMH. [6602446]
- fordiana.** Rwanda, Zimbabwe [AF].
Rhynchompterum fordianum Munro 1935[3475]: 51.—Zimbabwe. Mazoe. ST ♂ ♀ SANC. [6603568]
- zernyana.** Tanzania, Zimbabwe [AF].
Cladotricha zernyana Hering 1941[2199]: 203.—Tanzania. Ugano. HT ♀ NMW. [6602559]
Cladotricha zernyana Hering 1940[2189]: 15.—*Nomen nudum*. Published after 1930 without a description. [6602432]
Cladotricha zernyana Cogan & Munro 1980[882]: 553.—missp. *zernyana* Hering. [6605518]

Genus *HETSCHKOMYIA*

- Hetschkomyia* Hendel 1914[2102]: 86, *maculipennis* Hendel (OD). [6600033]

- Hetschkomyia* Hendel 1914[2103]: 33, *maculipennis* Hendel (OD). Preocc. Hendel 1914: 86. [6600771]
Brachytes Hendel 1914[2103]: 33, *Nomen nudum*. Preocc. Westwood 1842. [6600034]

maculipennis. Peru [NT].

- Hetschkomyia maculipennis* Hendel 1914[2102]: 86.—Peru. T A SMT, NMW. [6601943]
Hetschkomyia maculipennis Hendel 1914[2103]: 33.—Peru. Cuzco, 4200 m. ST ♂ SMT, NMW. Preocc. Hendel 1914: 86. [6601982]

Genus *HEXACHAETA*

- Hexachaeta* Loew 1873[3042]: 219, *Trypeta eximia* Wiedemann, Coquillett 1910[966]: 552 (SD). [6600035]
Neohexachaeta Lima 1953[2972]: 566, *guatemalensis* Lima (OD). [6600047]
- REFS—Wulp 1899[5216]: 402 (key to 3 spp. (obsolete) [NE, NT: Mexico & Central America]); Hering 1941[2202]: 134 (key to 5 spp. [NT: Peru]); Lima 1953[2972]: 557 (revision of *eximia* group [NT]); Lima 1953[2971]: 153 (revision of *amabilis* group [NT]); Lima 1954[2973]: 277 (revision of *socialis* group [NT]); Foote, Blanc & Norrbom 1993[1523]: 206 (key to 3 spp. [NE: USA]).

aex. Brazil [NT].

- Trypeta aex* Walker 1849[4957]: 1037.—Brazil. LT ♂ BMNH. Lectotype designation by inference of holotype by Foote 1964: 318. **N. Status** [6604577]
Tephritis quinquefasciata Walker 1837[4956]: 357.—South America. LT ♀ BMNH. Preocc. Macquart 1835; Lectotype designation by inference of holotype by Foote 1964: 323. [6604550]
Tephritis 5-fasciata Walker 1837[4956]: 357.—incosp. *quinquefasciata* Walker. Automatic correction under Art. 32(d). [6605639]

amabilis. Mexico, Peru, Bolivia, Brazil [NT].

- Trypeta amabilis* Loew 1873[3042]: 219.—Mexico [error; Peru. Huambo]. ST ♂ MLUH. Type data (Roder 1894: 97). [6603149]
Hexachaeta amabilis var. *oculata* Hendel 1914[2103]: 23.—Peru. Urubamba R., Rosalina. ST ♂ SMT, NMW. [6601970]
Hexachaeta amabilis f. *decolorata* Lindner 1928[2980]: 26.—Bolivia. Santa Cruz: Rio Tucabaca [Tucavaca]. HT ♂ SMN. [6602987]

barbiellinii. Brazil (Bahia, Minas Gerais, Rio de Janeiro, Sao Paulo) [NT].

- Hexachaeta barbiellinii* Lima 1935[2959]: 244.—Brazil. Sao Paulo. HT ♀ ENA. [6602956]
Tephritis fasciventris Macquart 1851[3085]: 264.—Brazil. T ♀ MNHNP. Preocc. Macquart 1848. **N. Syn.** [6603245]

barbiellinii itatiaiensis. Brazil (Rio de Janeiro) [NT].

- Hexachaeta barbiellinii* ssp. *itatiaiensis* Lima & Leite 1952[2975]: 302.—Brazil. Rio de Janeiro: Itatiaia. ST ♂ ♀ IOC. [6602983]

bondari. Brazil (Bahia) [NT].

- Hexachaeta bondari* Lima & Leite 1952[2975]: 304.—Brazil. Bahia. ST ♂ ♀ IOC. [6602984]

colombiana. Costa Rica, Colombia [NT].

- Hexachaeta colombiana* Lima 1953[2972]: 560.—Colombia. Condinamarca [Cundinamarca]. HT ♂ USNM. [6602973]

cronia. Brazil (Bahia) [NT].

- Trypeta cronia* Walker 1849[4957]: 1038.—Brazil. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 660. [6604578]

cronia spitzii. Brazil (Rio de Janeiro, Sao Paulo) [NT].
Hexachaeta cronia ssp. *spitzii* Lima & Leite 1952[2975]: 305.—Brazil. Rio de Janeiro: Manguinhos. ST ♂ ♀ IOC? [6602985]

dinia. Jamaica [NT].
Trypeta dinia Walker 1849[4957]: 1040.—Jamaica. LT ♀ BMNH. Lectotype designation by inference of holotype by Lima 1953: 565 (also see Foote 1964: 321). [6604580]

enderleini. Brazil (Sao Paulo) [NT].
Hexachaeta enderleini Lima 1935[2959]: 241.—Brazil. Sao Paulo. HT ♀ ENA. HT lost, NT designation of Lima (1953: 561) invalid. [6602955]

eximia. Mexico S to Peru, Guyana, Surinam, Brazil (Rio de Janeiro) [NT].
Trypeta eximia Wiedemann 1830[5136]: 477.—Surinam. HT ♀ ZMHU. Type data (Lima 1953: 564). [6604725]
Trypeta sinica Walker 1858[4963]: 229.—China [error, Brazil. Amazon R.], LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 223. [6604609]
Trypeta lutescens Walker 1858[4963]: 229.—Brazil. Amazon River valley. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 216. [6604610]
Hexachaeta aegiphilae Lima 1935[2959]: 241.—Brazil. Rio de Janeiro: Santanna de Macacu. HT ♀ IOC. [6602954]
Tephritis luctuosa Macquart 1835[3073]: 465.—Bresil [Brazil]. T A UMO? **N. Syn.** [6603198]

fallax. USA (s. Texas), Panama [NE, NT].
Hexachaeta fallax Lima 1954[2973]: 280.—Panama. Canal Zone, Gatun Lake, Cano Saddle. HT ♀ USNM. [6602979]

guatemalensis. Guatemala [NT].
Neohexachaeta guatemalensis Lima 1953[2972]: 566.—Guatemala. Cayuga. HT ♂ USNM. [6602977]

homalura. Peru, Paraguay, Brazil [NT].
Hexachaeta homalura Hendel 1914[2103]: 25.—Peru. Ucayali: Urubamba R., Meshagua [Mishagua]; Paraguay. ST ♀ MNM, SMT. [6601974]

major. Brazil [NT].
Tephritis major Macquart 1847[3079]: 93.—Brazil. T ♂ UMO. [6603232]
Hexachaeta socialis: Lima 1935[2959]: Fig. 1.—misid. See Lima & Leite 1952: 303. [6605600]

monostigma. Peru, Bolivia, Brazil (Santa Catarina) [NT].
Hexachaeta monostigma Hendel 1914[2103]: 24.—Peru. Ucayali: Urubamba R., Meshagua [Mishagua]; Bolivia. La Paz: Mapiri, San Carlos, 800 m.; & Brazil. Santa Catarina: Blumenau. ST ♂ ♀ SMT, NMW. [6601972]
Hexachaeta monostigma Aczel 1950[14]: 194.—misssp. *monostigma* Hendel. [6605740]

nigripes. Brazil [NT].
Hexachaeta nigripes Hering 1938[2180]: 414.—Brazil. Santa Catarina: Nova Teutonia, Corrego Ita. ST ♂ ♀ BMNH. [6602315]

oblita. Panama, Venezuela [NT].
Hexachaeta oblita Lima 1954[2973]: 280.—Panama. Canal Zone, Gatun Lake, Cano Saddle. HT ♀ USNM. [6602980]

obscura. USA (s. Texas), Panama, Peru, Paraguay, Trinidad, Brazil [NE, NT].
Hexachaeta amabilis var. *obscura* Hendel 1914[2103]: 25.—Peru. Urubamba R., Rosalina; Paraguay. La Cordillera: San Bernardino. ST ♂ SMT, NMW. [6601973]
Hexachaeta obscura Lima & Leite 1952[2975]: 300.—misssp. *obscura* Hendel. [6605476]

parva. Panama [NT].
Hexachaeta parva Lima 1954[2973]: 279.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6602978]

seabrai. USA (s. Texas), Guatemala, Panama, Brazil [NE, NT].
Hexachaeta seabrai Lima 1953[2972]: 562.—Brazil. Espirito Santo: Linhares, Parque Sooretama. HT ♀ IOC. [6602975]

shannoni. Brazil [NT].
Hexachaeta shannoni Lima 1953[2971]: 154.—Brazil. Amaz. [Amazon?], Esperanza. HT ♂ USNM. [6602972]

socialis. Mexico, Paraguay, Brazil (Sao Paulo) [NT].
Trypeta socialis Wiedemann 1830[5136]: 491.—Brasilien [Brazil]. T A SMF. [6604735]

valida. Panama [NT].
Hexachaeta valida Lima 1954[2973]: 280.—Panama. La Campana. HT ♂ USNM. [6602981]

venezuelana. Venezuela [NT].
Hexachaeta venezuelana Lima 1953[2972]: 561.—Venezuela. near Caracas, El Valle. HT ♀ USNM. [6602974]

zeteki. Panama [NT].
Hexachaeta zeteki Lima 1953[2972]: 563.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6602976]

Genus *HEXACINIA*

Hexacinia Hendel 1914[2102]: 82, *Acinia stellata* Macquart (OD) = *radiosa* Rondani. [6600511]

REFS—Malloch 1939[3137]: 438 (key to 3 spp. [OR, AU]); Hardy 1974[1943]: 69 (key to 5 spp. [OR, AU]); Hardy 1986[1962]: 69 (key to 4 spp. [OR, AU]).

marginemaculata. Asia [OR].
Acinia marginemaculata Macquart 1851[3085]: 265.—Asia. T ♀ MNHNP. [6603246]

pellucens. Philippines (Luzon, Palawan, Mindoro, Sibuyan, Negros, Mindanao) [OR].
Hexacinia pellucens Hardy 1970[1940]: 79.—Philippines. Palawan: 3 km. NE Tinabog. HT ♂ BBM. [6601530]

punctifera. Indonesia (Maluku, Irian Jaya), Papua New Guinea [AU].
Sophira punctifera Walker 1861[4972]: 15.—Indonesia. Maluku: Gilolo [Djailolo]. T ♀ BMNH. Type data (Hardy 1969: 202). [6604655]
Hexacinia multipunctata Malloch 1939[3137]: 438.—Papua New Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♂ AMS. [6603356]
Hexacinia flavipunctata Hering 1940[2189]: 8.—Indonesia. Maluku: Key-Insel [Kai I.] “Toel Staol” Amboina [Ambon I.] HT ♂ ZSZMH. HT destroyed (Hardy 1986: 70). [6602451]

radiosa. India & Sri Lanka to Vietnam, Thailand, w. Malaysia, Philippines, Indonesia (Sumatra) [OR].
Tephritis radiosa Rondani 1868[4200]: 31.—n. n. *stellata* Macquart 1851. [6604122]
Hexacinia nigroantennata Hering 1956[2226]: 70.—Sri Lanka. Kandy. HT ♀ NMB. [6602728]
Acinia stellata Macquart 1851[3085]: 266.—Philippines. Luzon, Manille [Manila]. T ♀ UMO. Preocc. Macquart 1843. [6603248]
Acanthonevra fuscipennis: Tan, Hanifah & Chen 1994[4750]: 29.—misid. See Hancock & Drew 1995: 46. [6605877]

stellipennis. Burma, Philippines, Malaysia (Sabah), Indonesia (Sumatra, Sulawesi), Solomon Is. [OR, AU].
Trypeta stellipennis Walker 1860[4966]: 159.—Indonesia. Sulawesi: Makassar [Ujung Padang]. ST ♂ ♀ BMNH. Type data (Hardy 1959: 224). [6604631]
Hexacinia stigmatoptera Hendel 1928[2111]: 353.—Philippines. Luzon, Laguna: Majayjay. LT ♀ USNM. Lectotype designated by Hardy 1969: 481. [6602183]
Hexacinia celebensis Hering 1941[2196]: 22.—Indonesia. Sulawesi: Ile-Ile, “500-200” m. HT ♂ ZMHU. [6602517]

Genus HEXAMELA

Hexamela Zia 1963[5313]: 644, *bipunctata* Zia (OD). [6600357]

bipunctata. China (Yunnan) [OR].

Hexamela bipunctata Zia 1963[5313]: 638.—China. Yunnan: Xi-Sang-Ban-Na [Xishuangbanna], 1200-1600 m. HT ♂ IZAS. [6604869]

Genus HEXAPTILONA

Hexaptilona Hering 1941[2190]: 7, *Rioxoptilona hexacinioides* Hering (OD). [6600256]

Parhexacinia Chen 1948[814]: 120, *Hexacinia palpata* Hendel (OD). [6600358]

hexacinioides. Burma [OR].

Rioxoptilona hexacinioides Hering 1938[2181]: 48.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602385]

palpata. Russia (Primorskiy), China, Japan, Taiwan [PA, OR].

Hexacinia palpata Hendel 1915[2105]: 459.—Taiwan. Chip-chip; Mt. Hoozan; & Toyenmongai. ST ♂ ♀ MNM, NMW. Type data (Hardy 1968: 119). [6602104]

Genus HEXARESTA

Hexaresta Hering 1941[2196]: 18, *juanita* Hering (OD) = *multistriga* Walker. [6600036]

Hyponeothemara Hardy 1986[1962]: 71, *Trypeta multistriga* Walker (OD). [6600512]

formosa. Solomon Is. [AU].

Neothemara formosa Malloch 1939[3135]: 255.—Solomon Is. San Cristobal: Kirakira. HT ♀ BMNH. [6603326]

multistriga. Indonesia (Sulawesi, Maluku, Irian Jaya), Papua New Guinea [OR, AU].

Trypeta multistriga Walker 1859[4964]: 119.—Indonesia. Maluku: Aru Is. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 217. [6604616]

Hexaresta juanita Hering 1941[2196]: 19.—Surinam. “Bezirk” Paramaribo [probably label error, doubtfully NT]. HT A ZMHU. Type data (Norrbom 1990: 109). [6602515]

Dirioxa setinervis Hering 1953[2220]: 520.—Indonesia. Irian Jaya: Indenburg R., Bernhard Camp, 50 m. HT ♂ RNH. [6602698]

Genus HOMOEOTHRIX

Homoeothrix Hering 1944[2210]: 7, *Euribia lindigi* Hendel (OD). [6600037]

Homoeothrix Hering 1947[2213]: 7, emend. *Homoeothrix* Hering. [6600038]

Homoeothrix Hering 1944[2210]: 7, incosp. *Homoeothrix* Hering. [6600660]

Homoeotrix Aczel 1950[14]: 284, missp. *Homoeothrix* Hering. [6600930]

lindigi. Venezuela [NT].

Euribia lindigi Hendel 1914[2103]: 68.—Venezuela. LT ♂ NMW. Lectotype designated by Hardy 1968: 118. [6602033]

Genus HOMOEOTRICHIA

Homoeotricha Hering 1944[2210]: 7, *Paroxyna arisanica* Shiraki (OD). [6600436]

Costogonia Dirlbek & Dirlbek 1971[1147]: 14, *nuchticollecta* Dirlbek & Dirlbek (OD) = *brevicornis* Chen. [6600233]

REF.—Korneyev 1993[2742]: 119 (revision of 5 spp. [PA]).

arisanica. Taiwan [OR].

Paroxyna arisanica Shiraki 1933[4432]: 409.—Taiwan. Arisan. ST ♂ ♀ NTU. [6604308]

atrata. China (Nei Mongol) [PA].

Gonioxya atrata Wang 1990[4994]: 296.—China. Nei Mongol: Ulanqab L., Wuchuan Co. HT ♂ IZAS. [6605030]

brevicornis. Russia (se. Siberia), Mongolia, China (Gansu) [PA].

Gonioxya brevicornis Chen 1938[811]: 117.—China. w. Gansu: Tchen-tsaing-i. HT ♂ IZAS. [6600664]

Costogonia nuchticollecta Dirlbek & Dirlbek 1971[1147]: 15.—Mongolia. Tov: Nucht, Lok. Nr. 3-4 [15 km. SSW of Ulaanbaatar]. HT ♂ NMPC. [6600896]

leporis. Kirghizia, Kazakhstan [PA].

Homeotricha leporis Korneyev 1993[2742]: 127.—Kirghizia. Kara-Kol, “Przhevsk”, 2000 m. HT ♂ UASK. [6605497]

longipennis. Korea, e. Russia (Sakhalin, Kurile Is.), Japan (Hokkaido, Honshu) [PA].

Campiglossa longipennis Shiraki 1933[4432]: 417.—Japan. Hokkaido: Sapporo. HT ♀ NTU. [6604310]

Gonioxya paradigma Hering 1941[2195]: 71.—Japan. Hokkaido: Sapporo. HT ♂ MNM. [6602545]

procusa. Mongolia, China (Nei Mongol) [PA].

Paroxyna procusa Dirlbek & Dirlbekova 1971[1151]: 167.—Mongolia. Bulgan: Unt, Lok. Nr. 22 [65 km. NW of Bulgan]. HT ♀ NMPC. [6600900]

Genus HOMOIOTHEMARA

Homoiothemara Hardy 1988[1964]: 101, *eurycephala* Hardy (OD). [6600652]

Homoiothemara Hardy 1988[1964]: 101, incosp. *Homoiothemara* Hardy, by present revision. [6600653]

eurycephala. Malaysia (Sabah) [OR].

Homoiothemara eurycephala Hardy 1988[1964]: 101.—Malaysia. Sabah: 19 km. N of Kalabakan, forest camp, 60 m. HT ♂ BBM. [6601845]

Genus HOPLANDROMYIA

Hoplاندromyia Bezzi 1923[467]: 577, *tetracera* Bezzi (OD). [6600127]

Hoplاندromyia Bezzi 1924[469]: 77, *tetracera* Bezzi (MO). Pre-occ. Bezzi 1923: 577. Data on included species on p. 111. [6600820]

antelopa. w. Malaysia [OR].

Hoplاندromyia antelopa Hancock & Drew 1994[1900]: 583.—Malaysia. Selangor: Kuala Lumpur, Hulu Langat. HT ♂ BMNH. [6605373]

buhri. Cameroon [AF].

Hoplاندromyia buhri Hering 1940[2188]: 26.—Cameroon. Southwest: btw. Buea & Mannsquelle, Mt. Cameroon, 1500 m. ST ♂ ♀ BMNH. [6602462]

distata. Eritrea [AF].

Vidalia junodi ssp. *distata* Munro 1955[3507]: 418.—Eritrea. Asmara (Town). HT ♂ SANC. [6603725]

junodi. South Africa [AF].

Hoplاندromyia junodi Bezzi 1926[476]: 286.—South Africa. Transvaal: Elim. HT ♂ ETHZ. [6600521]

madagascariensis. Madagascar [AF].

Hoplاندromyia madagascariensis Hancock 1985[1885]: 285.—Madagascar. Antananarivo: Ambatolampy district, Andranotobaka, 1400 m. HT ♂ MNHNP. [6601465]

pulla. China (Sichuan) [PA].

Vidalia pulla Wang 1991[4998]: 466.—China. Sichuan: Mt. Emei [Emei Shan] (29°N 103°E), 1800-2000 m. HT ♂ IZAS. [6605163]

tetracera. Reunion [AF].

Hoplantromyia tetracera Bezzi 1923[467]: 578.—Reunion. ST ♂ MNHNP. [6600369]

Genus *HYALOCTOIDES*

Hyaloctoides Munro 1937[3481]: 18, *Trypeta semiatra* Loew (OD). [6600148]

REFS—Munro 1937[3481]: 11 (revision of 4 spp. [AF]); Munro 1963[3516]: 53 (key to 4 spp. [AF]).

bioculatus. Nigeria [AF].

Spathulina bioculata Bezzi 1920[463]: 258.—Nigeria. Zungeru. HT ♀ BMNH. [6600352]

gorgoneus. Cape Verde Is. [AF].

Hyaloctoides semiater ssp. *gorgonea* Hering 1958[2230]: 21.—Cape Verde Is. Sao Nicolao: Rib. Pulga. HT ♂ UZMH. [6602739]

semiater. Ethiopia, Kenya, Malawi, Mozambique, Zimbabwe, South Africa [AF].

Trypeta semiatra Loew 1861[3031]: 276.—Caffrerei [South Africa]. T ♀ NRS? [6603070]

Spathulina semiatra var. *semirufa* Bezzi 1924[470]: 535.—South Africa. Natal: M'fongosi; Transvaal: Komati Poort; Pretoria; & Barberton. ST ♂ ♀ SAMCT. Also ST in SANC. [6600416]

Trypeta semiatra Loew 1862[3037]: 5.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605263]

sokotrensis. Yemen (Socotra) [AF].

Pliomelaena sokotrensis Hering 1939[2182]: 180.—Yemen. Socotra: Ras Shoab. HT ♀ NMW. [6602413]

superhyalinus. Namibia [AF].

Spathulina semiatra var. *superhyalina* Munro 1929[3459]: 18.—Namibia. Kamanyab; & Otjikondo. ST ♂ ♀ SAMCT. [6603475]

Genus *HYALOPEZA*

Hyalopeza Hardy & Drew 1996[1972]: 253, *schneiderae* Hardy & Drew (OD). [6601008]

schneiderae. Australia (Qld., NSW, ACT, Vic., SA) [AU].

Hyalopeza schneiderae Hardy & Drew 1996[1972]: 253.—Australia. Victoria: 17 km. E Bendigo. HT ♂ ANIC. [6605913]

Genus *HYALOTEPHRITIS*

Hyalotephritis Freidberg 1979[1551]: 170, *Trypeta planiscutellata* Becker (OD). [6600257]

REF.—Freidberg 1979[1551]: 170 (revision of 2 spp. [PA, AF]).

complanata. Namibia, South Africa [AF].

Terellia complanata Munro 1929[3459]: 9.—Namibia. Hoarusb R., Otshu. ST ♂ ♀ SAMCT. [6603486]

planiscutellata. Israel, Egypt, Ethiopia [PA, AF].

Trypeta planiscutellata Becker 1903[369]: 136.—Egypt. desert near Siala. ST ♂ ♀ ZMHU. [6600112]

Genus *HYPENIDIUM*

Hypenidium Loew 1862[3034]: 87, *graecum* Loew (MO). [6600258]

Stephanaciura Seguy 1930[4339]: 171, *bipartita* Seguy (OD) = *graecum* Loew. [6600259]

REFS—Hendel 1927[2107]: 34 (key to 2 spp. [PA]); Richter 1970[4087]: 138 (key to 2 spp. [PA]).

graecum. Spain, Portugal, Morocco, Hungary, Bosnia, Greece, Ukraine, Israel [PA].

Hypenidium graecum Loew 1862[3034]: 87.—Greece. T ♂ ZMHU? [6603106]

Hemilea novakii Strobl 1893[4697]: 124.—Bosnia. Lesina [Hvar]. T A NMBA? [6604501]

Acidia pulchella Tavares 1902[4769]: 131.—Portugal. Near Sao Fiel, margin of Ocreza [R. Ocreza?]. ST ♂ ♀ Tavares. [6604507]

Stephanaciura bipartita Seguy 1930[4339]: 171.—Morocco. Moyen Atlas, Taffert, east edge, 2000-2200 m. T ♂ MNHNP. [6604217]

roborowskii. Caucasus, Central Asia, Afghanistan, China [PA].

Hemilea roborowskii Becker 1908[373]: 290.—China. Turkestan, Gaschun Gobi, Bugas R., S Hami to S E Thian-Schan. HT ♀ ZISP? [6600124]

Genus *ICHNEUMONOPSIS*

Ichneumonopsis Hardy 1973[1942]: 132, *burmensis* Hardy (OD). [6600372]

burmensis. India (Meghalaya), n. Burma [OR].

Ichneumonopsis burmensis Hardy 1973[1942]: 133.—Burma. Chin: Chin Hills, Mount Victoria [21°14'N 93°55'E], 1400 m. HT ♂ BMNH. [6601549]

Genus *ICHNEUMONOSOMA*

Ichneumonosoma Meijere 1914[3319]: 195, *Lagarosia imitans* Meijere (MO). [6600565]

Axania Enderlein 1920[1330]: 337, *ichneumonea* Enderlein (OD) = *imitans* Meijere. [6600384]

REF.—Hardy 1986[1961]: 71 (key to 3 spp. [OR, AU]).

consors. Indonesia (Maluku), Papua New Guinea, Australia (Torres Strait) [AU].

Adrama consors Walker 1861[4971]: 296.—Indonesia. Maluku: Batchian [Bacan I.]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1986: 72. [6604652]

Adrama consors Shiraki 1933[4432]: 44.—missp. *consors* Walker. [6605967]

heinrichi. Indonesia (Sulawesi) [OR].

Ichneumonosoma heinrichi Hering 1941[2196]: 16.—Indonesia. s. Sulawesi: Talassa, Maros, 300 m. HT ♀ ZMHU. [6602513]

imitans. India (Sikkim), w. Malaysia, Indonesia (Java) [OR].

Lagarosia imitans Meijere 1911[3314]: 383.—Indonesia. Java: near Batavia [Jakarta], Muara Angke. HT ♂ ZMAN. [6604910]

Axania ichneumonea Enderlein 1920[1330]: 338.—India. Sikkim. ST ♂ ♀ ZMHU. Also ST in BMNH. [6601172]

Genus *ICTERICA*

Ictericia Loew 1873[3042]: 287, *Trypeta seriata* Loew, Coquillett 1910[966]: 555 (SD). Designation of *Trypeta westermanni* Meigen by Hendel 1927: 140 invalid. [6600260]

REFS—B.A. Foote 1967[1478]: 1303 (key to all stages of 2 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 210 (key to 2 spp. [NE]).

circinata. Canada & USA (North Dakota, Ontario & New Brunswick, S to Iowa, Michigan & New Jersey) [NE].

Trypeta circinata Loew 1873[3042]: 288.—USA. New York. ST ♂ ♀ MCZ. [6603174]

seriata. Canada & USA (Nebraska, Ontario & New Hampshire S to Illinois & Virginia; Arizona?) [NE].

Trypeta seriata Loew 1862[3033]: 84.—USA. “Middle States”. T ♂ MCZ. [6603099]

Ictericica sericata Curran 1934[1046]: 290.—missp. *seriata* Loew. [6605615]

Genus *ICTERICODES*

Ictericodes Hering 1942[2207]: 6, *Trypeta japonica* Wiedemann (OD). [6600262]

REFS—Hendel 1927[2108]: 141 ((*Ictericica*) key to 3 spp. [PA, OR]); Richter 1970[4087]: 155 (key to 2 spp. [PA: e. Europe]); Merz 1994[3343]: 53 (key to 2 spp. [PA: Europe]).

cashmerensis. India (Kashmir) [OR].

Ictericica cashmerensis Hendel 1927[2108]: 141.—India. Kashmir. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 119. [6602155]

changhyoi. Korea [PA].

Ictericodes changhyoi Kwon 1985[2802]: 87.—South Korea. Kangwon: Mt. Solaksan. HT ♂ KUTK. [6602919]

depuncta. e. Russia, ne. China [PA].

Ictericica depuncta Hering 1936[2168]: 184.—China. Heilongjiang: Charbin [Harbin]. ST ♂ ♀ BMNH. [6602245]

Acinia depunctata Chen 1938[811]: 107.—missp. *depuncta* Hering. [6605760]

japonicus. cent. & e. Europe to Central Asia & Caucasus, Japan [PA].

Trypeta japonica Wiedemann 1830[5136]: 485.—Japan. T ♀ ZMHU. [6604730]

Trypeta schneideri Loew 1856[3029]: 51.—Poland. Schlesien [Silesia]. ST ♂ ♀ ZMHU. [6603054]

maculatus. Taiwan [OR].

Ictericica maculata Shiraki 1933[4432]: 475.—Taiwan. Arisan. HT ♀ NTU. [6604321]

zelleri. France, Switzerland, s. Poland, Czech Rep., Slovakia, Austria, Hungary [PA].

Trypeta zelleri Loew 1844[3020]: 374.—Poland. Schlesien [Silesia]. HT ♂ ZMHU? Suspension of I.C.Z.N. rules required to validate usage. [6603010]

Trupanea myodes Schrank 1803[4315]: 148.—Germany. Bavaria: around Gern; Lincii [Linz]. ST A Unknown. Has priority over *zelleri*, but synonymy uncertain (Hendel 1927: 142); specimens misidentified as *arnicae* by Schrank 1781 are also STs. [6604211]

Musca arnicae: Schrank 1781[4313]: 472.—misid. See Schrank 1803: 148. [6605895]

Genus *INDOPHRANTA*

Indophranta Agarwal & Kapoor 1989[47]: 31, *humerala* Agarwal & Kapoor (OD). [6600783]

humerala. India (Punjab) [OR].

Indophranta humerala Agarwal & Kapoor 1989[47]: 31.—India. Punjab: Ludhiana, Punjab Agricultural University campus. HT ♂ INPC. [6600074]

Genus *INSIZWA*

Insizwa Munro 1929[3459]: 18, *Euaresta oblita* Munro (MO). [6600187]

Insizwa Munro 1929[3460]: 400, *striatifrons* Munro (OD) = *oblita* Munro. Preocc. Munro 1929. [6600911]

oblita. Namibia, Zimbabwe, South Africa [AF].

Euaresta striatifrons var. *oblita* Munro 1929[3459]: 18.—Namibia. Zesfontein. HT ♀ SAMCT. [6603476]

Insizwa striatifrons Munro 1929[3460]: 400.—South Africa. Natal: Port Shepstone. ST ♂ ♀ SANC. [6605276]

Euaresta striatifrons Munro 1929[3459]: 18.—*Nomen nudum*. [6603477]

Genus *ISCHYROPTERON*

Ischyropteron Bigot 1889[505]: xxix, *nigricaudatum* Bigot (MO). [6600039]

Calopterymyia Bigot 1889[506]: xciii, n. n. *Ischyropteron* Bigot. [6600040]

Ischyropteron Hendel 1914[2103]: 49, missp. *Ischyropteron* Bigot. [6600903]

REF.—Foote 1979[1511]: 97 (redescription [NT]).

nigricaudatum. Brazil (Rio de Janeiro) [NT].

Ischyropteron nigricaudatum Bigot 1889[505]: xxx.—Brazil. Rio de Janeiro: Theresopolis [Teropolis]. HT ♀ UMO. Type data (Foote 1979: 97). [6600555]

Genus *ITOSIGO*

Itosigo Ito 1984[2416]: 91, *bellus* Ito (OD). [6600445]

Itosigo Ito 1956[2407]: 25, *Nomen nudum*. [6600801]

REF.—Ito 1984[2416]: 92 (key to 2 spp. [PA: Japan]).

bellus. Japan (Honshu) [PA].

Itosigo bellus Ito 1984[2416]: 92.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. [6602791]

Itosigo bellus Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604969]

kuwayamai. Japan (Hokkaido) [PA].

Pseudacidia kuwayamai Shiraki 1933[4432]: 220.—Japan. Hokkaido: Sapposo [Sapporo?] or Onomura. HT ♂ NTU. [6604277]

Genus *JAMESOMYIA*

Jamesomyia Quisenberry 1949[3990]: 49, *Trypeta geminata* Loew (OD). [6600736]

geminata. Canada & USA (Iowa, Michigan & Quebec, S to Missouri & North Carolina) [NE].

Trypeta geminata Loew 1862[3036]: 220.—USA. Pennsylvania. T ♀ NMW. [6603111]

Genus *KATONAIA*

Katonaia Munro 1935[3474]: 142, *arushae* Munro (OD). [6600264]

Siticola Hering 1947[2213]: 1, *hemileopsis* Hering (OD). [6600265]

Katonaia Cogan & Munro 1980[882]: 537, missp. *Katonaia* Munro. Attributed to “authors”. [6600961]

REFS—Hering 1938[2177]: 246 (key to 2 spp. [PA, AF]); Hering 1953[2221]: 2 ((*Siticola*) key to 2 spp. [PA]).

aida. Israel, Egypt (Sinai) [PA].

Katonaia aida Hering 1938[2177]: 245.—Israel. Jerusalem, Scopus. HT ♂ SMN. [6602321]

Siticola theodori Hering 1953[2221]: 1.—Israel. Jerusalem, Bethanerem [Beth Hakerem]. HT ♂ TAUI. [6602701]

arushae. Ethiopia, Kenya, Tanzania [AF].

Katonaia arushae Munro 1935[3474]: 142.—Tanzania. Arusha-Ju. HT ♀ MNM. [6603544]

hemileopsis. Greece [PA].

Siticola hemileopsis Hering 1947[2213]: 2.—Greece. Crete: Sitia. HT ♀ BMNH. [6602644]

Genus *KERZHNERELLA*

Kerzhnerella Richter 1975[4093]: 586, *mongolica* Richter (OD). [6600266]

mongolica. Mongolia [PA].

Kerzhnerella mongolica Richter 1975[4093]: 588.—Mongolia. Govialtay: 10 km. NW of Khatan, Khairkhan Mt. HT ♀ ZISP. [6604031]

Genus *LABESCHATIA*

Labeschatia Munro 1967[3521]: 592, *circumlineata* Munro (OD). [6600128]

circumlineata. Zambia, Malawi, South Africa [AF].

Labeschatia circumlineata Munro 1967[3521]: 592.—Malawi. Limbe, Ruo R. HT ♂ BMNH. [6603848]

Genus *LAKSYETSA*

Laksyetsa Foote 1978[1510]: 29, *trinotata* Foote (OD). [6600640]

trinotata. Mexico (Durango, Morelos, Oaxaca) [NE].

Laksyetsa trinotata Foote 1978[1510]: 29.—Mexico. Oaxaca: Llano de las Flores. HT ♀ USNM. [6601282]

Genus *LALOKIA*

Lalokia Hardy 1987[1963]: 309, *tetraspilota* Hardy (OD). [6600597]

tetraspilota. Papua New Guinea [AU].

Lalokia tetraspilota Hardy 1987[1963]: 309.—Papua New Guinea. Central: Laloki [9°24'S 147°18'E]. HT ♂ ANIC. [6601827]

Genus *LAMPROXYNA*

Lamproxyna Hendel 1914[2102]: 96, *nitidula* Hendel (OD). [6600041]

Lamproxyna Hendel 1914[2103]: 64, *nitidula* Hendel (OD). Pre-occ. Hendel 1914: 96. [6600782]

REF.—Hering 1941[2202]: 153 (key to 2 spp. [NT]).

nitidula. Peru, Bolivia [NT].

Lamproxyna nitidula Hendel 1914[2102]: 96.—Peru. T A SMT, NMW. [6601951]

Lamproxyna nitidula Hendel 1914[2103]: 64.—Peru. Cuzco. ST ♂ ♀ SMT, NMW. Preocc. Hendel 1914: 96. [6602030]

titschacki. Peru, Bolivia [NT].

Lamproxyna titschacki Hering 1941[2202]: 154.—Peru. Ayacucho: Tayapampa, 4025 m. HT ♂ ZSZMH. [6602566]

Genus *LAMPROXYNELLA*

Lamproxynella Hering 1941[2202]: 163, *Euribia heliodes* Hendel (OD). [6600042]

REF.—Hering 1942[2207]: 11 (key to 5 spp. [NT]).

apotela. Venezuela [NT].

Trypanea apotela Hendel 1914[2103]: 83.—Venezuela. LT ♀ NMW. Lectotype designated by Hardy 1968: 127. **N. Comb.** [6602058]

dyscola. Bolivia [NT].

Euribia dyscola Hendel 1914[2103]: 68.—Bolivia. Yungas Road, 3500 m. ST ♀ SMT, NMW. [6602031]

Euribia discola Aczel 1950[14]: 183.—missp. *dyscola* Hendel. [6605525]

euarestina. Ecuador, Peru, Chile [NT].

Euribia euarestina Hendel 1914[2103]: 69.—Chile. Tarapaca: Arica. ST ♂ ♀ SMT, NMW. [6602036]

fucatella. Bolivia, Argentina [NT].

Euribia fucatella Hendel 1914[2103]: 68.—Bolivia. La Paz: La Paz. HT ♀ SMT. [6602032]

heliodes. Peru, Bolivia, Chile [NT].

Euribia heliodes Hendel 1914[2103]: 69.—Peru. Mamara; Bolivia. La Paz: Lake Titicaca, Guaqui. ST ♂ ♀ SMT. [6602035]

Lamproxynella heliodes Aczel 1950[14]: 291.—missp. *heliodes* Hendel. [6605741]

marmorata. Chile [NT].

Acinia marmorata Blanchard 1852[525]: 460.—Chile. Los Lagos: Chiloe I., near Cucao. T A MNHNP. 11 male & female ST in MNHNP. **N. Comb.** [6600578]

separata. Argentina, Brazil (Sao Paulo) [NT].

Trypanea separata Malloch 1933[3130]: 294.—Argentina. Buenos Aires. HT ♂ BMNH. [6603297]

unicolor. Chile (Magallanes), Argentina (Tierra del Fuego) [NT].

Tephritis unicolor Walker 1837[4956]: 358.—Chile. Magallanes: Tierra del Fuego, Port Famine; & Purruchuca. ST ♀ BMNH. Inference of HT by Foote 1964: 324, Steyskal 1974: 49 invalid. [6604552]

Genus *LANGATIA*

Langatia Hancock & Drew 1995[1903]: 48, *setinerva* Hancock & Drew (OD). [6601001]

setinerva. w. Malaysia [OR].

Langatia setinerva Hancock & Drew 1995[1903]: 48.—Malaysia. Selangor: Hulu Langat. HT ♀ BMNH. [6605834]

Genus *LETHYNA*

Lethyna Munro 1957[3510]: 942, *Ensina gladiatrix* Bezzi (OD). [6600188]

REF.—Munro 1957[1560]: 924 (key to 7 spp. [AF]).

aequabilis. Uganda, Kenya, Tanzania [AF].

Lethyna aequabilis Munro 1957[3510]: 947.—Kenya. Mt. Elgon, 10500-12500 ft. HT ♂ BMNH. [6603780]

blaesa. Uganda [AF].

Lethyna blaesa Munro 1957[3510]: 945.—Uganda. Kigezi district, Mt. Mgahinga, 10000-11000 ft. HT ♂ BMNH. [6603778]

evanida. Ethiopia [AF].

Ensina evanida Bezzi 1924[472]: 136.—Ethiopia. Marako. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 152. [6600488]

- gladiatrix.** Uganda, Zimbabwe, Namibia, South Africa, Lesotho [AF].
Ensina gladiatrix Bezzi 1920[463]: 261.—South Africa. Natal: Ulundi. HT ♀ BMNH. [6600355]
- liliputiana.** South Africa [AF].
Ensina liliputiana Bezzi 1924[470]: 549.—South Africa. Cape: Prospect. ST ♂ ♀ SANC. [6600429]
- nexilis.** Uganda [AF].
Lethyna nexilis Munro 1957[3510]: 946.—Uganda. Kigezi district, Mt. Muhavura, 10000-12000 ft. HT ♂ BMNH. [6603779]
- permodica.** Uganda [AF].
Lethyna permodica Munro 1957[3510]: 944.—Uganda. Kigezi district, Mt. Muhavura, 10000-12000 ft. HT ♂ BMNH. [6603777]

Genus *LEUCOTAENIELLA*

- Leucotaeniella* Bezzi 1918[455]: 227, *trispila* Bezzi (OD). [6600119]
- REFS—Bezzi 1924[469]: 97 (key to 3 spp. [AF]); Hancock 1985[1889]: 57 (key to 3 spp. [AF]).

- guttipennis.** Nigeria, Zaire, Zambia [AF].
Leucotaeniella guttipennis Bezzi 1920[463]: 223.—Nigeria. Zungeru. HT ♀ BMNH. [6600334]
- pentaspila.** Sudan, Zaire, Angola, Zambia [AF].
Leucotaeniella pentaspila Bezzi 1918[455]: 229.—Sudan. HT ♀ BMNH. [6600284]
- trispila.** Zaire, Uganda, Zambia, Malawi, Zimbabwe [AF].
Leucotaeniella trispila Bezzi 1918[455]: 228.—Malawi. Limbe, Chiromo, Ruo R. ST ♂ ♀ BMNH. [6600282]

Genus *LEUCOTHRIX*

- Leucothrix* Munro 1929[3459]: 15, *barbata* Munro (OD). [6600174]
- REF.—Munro 1963[3516]: 53 (key to 3 spp. [AF]).
- barbata.** Namibia [AF].
Leucothrix barbata Munro 1929[3459]: 16.—Namibia. Kamanyab. ST ♂ ♀ SAMCT. [6603474]
- incana.** South Africa [AF].
Leucothrix incana Munro 1963[3516]: 60.—South Africa. Cape: Kalahari Gemsbok National Park, Tweerivieren. HT ♂ SANC. [6603815]
- oryx.** Namibia, South Africa [AF].
Leucothrix oryx Munro 1956[3509]: 355.—South Africa. Cape: Kalahari Gemsbok Nat. Park, Tweerivieren. HT ♂ SANC. [6603728]

Genus *LIEPANA*

- Liepana* Hardy & Drew 1996[1972]: 256, *latifrons* Hardy & Drew (OD). [6601009]
- REF.—Hardy & Drew 1996[1972]: 256 (revision of 3 spp. [AU]).
- helichrysi.** Australia (NSW) [AU].
Liepana helichrysi Hardy & Drew 1996[1972]: 257.—Australia. New South Wales: NE Sect. Lansdowne State Forest, N of Taree, Starr's Ck. picnic area. HT ♂ ANIC. [6605914]
- latifrons.** Australia (Vic.) [AU].
Liepana latifrons Hardy & Drew 1996[1972]: 259.—Australia. Victoria: 8 mi. E Noojee at Moe Junc. HT ♂ ANIC. [6605915]

- lugubris.** Australia (Tasmania) [AU].
Tephritis lugubris Macquart 1847[3079]: 93.—Nouvelle-Hollande [Australia]. T ♀ UMO. Type data (Hardy & Drew 1996: 263. [6603233])

Genus *LILLOACIURA*

- Lilloaciura* Aczel 1953[24]: 191, *curvinervis* Aczel (OD). [6600043]
- curvinervis.** Argentina (Mendoza) [NT].
Lilloaciura curvinervis Aczel 1953[24]: 191.—Argentina. Mendoza: Cacheuta. HT ♂ IML. [6600029]

Genus *LORIOMYIA*

- Loriomyia* Kertész 1899[2655]: 567, *guttipennis* Kertész (MO). [6600871]
- Agnostophana* Hering 1953[2220]: 510, *veterrima* Hering (OD) = *guttipennis* Kertész. [6600541]
- Agnostophara* Hardy & Foote 1989[1973]: 517, missp. *Agnostophana* Hering. Attributed to "authors". [6600962]
- guttipennis.** New Guinea [AU].

- Loriomyia guttipennis* Kertész 1899[2655]: 567.—New Guinea. Moroka. ST ♂ ♀ MCSNG. [6605381]
- Agnostophana veterrima* Hering 1953[2220]: 512.—Indonesia. Irian Jaya: Indenburg R. plain, Bernard Camp, 700 m. HT ♂ RNH. Type data (Hardy 1987: 84). [6602693]

Genus *LUMIRIOXA*

- Lumirioxa* Permkam & Hancock 1995[3795]: 1087, *Rioxa araucariae* Tryon (OD). [6600996]
- araucariae.** Australia (se. Qld. to ne. NSW) [AU].
Rioxa araucariae Tryon 1927[4832]: 219.—Australia. Queensland: MacPherson Range. HT ♂ QMBA. Type data (Permkam & Hancock 1995: 1087). [6604546]

Genus *LYRONOTUM*

- Lyronotum* Hering 1941[2201]: 112, *Acanthoneura seriata* Meijere (OD). [6600514]
- seriata.** Indonesia (Irian Jaya) [AU].
Acanthoneura seriata Meijere 1915[3320]: 125.—Indonesia. Irian Jaya: Begowre R., Zoutbron, 3°1'33"S 140°57'30"E. HT ♀ ZMAN. Type data (Hardy 1986: 78). [6604939]

Genus *MACHAOMYIA*

- Machaomyia* Hendel 1914[2102]: 83, *caudata* Hendel (OD). [6600425]
- caudata.** Taiwan [OR].
Machaomyia caudata Hendel 1914[2102]: 83.—Formosa [Taiwan]. T A MNM. [6601935]
- Machaomyia caudata* Hendel 1915[2105]: 458.—Taiwan. Toyenmongai. ST ♂ MNM. Preocc. Hendel 1914. [6602103]

Genus *MAGNIMIYOLIA*

- Magnimiyolia* Shiraki 1933[4432]: 284, *jozana* Shiraki (OD). [6600268]
- Agaristina* Hering 1953[2220]: 514, *picea* Hering (OD). [6600589]
- Nemoriludia* Ito 1984[2418]: 189, *Acidiella fusca* Ito (OD). [6600459]
- REF.—Ito 1984[2417]: 125 (key to 4 spp. [PA: Japan]).

animata. Burma [OR].

Acidiella animata Hering 1938[2181]: 26.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602354]

convexifrons. China (Zhejiang) [PA].

Magnimyiolia convexifrons Chen 1948[814]: 118.—China. Zhejiang: Tianmushan. HT ♂ IZAS. [6605083]

fusca. Japan (Honshu, Shikoku, Kyushu) [PA].

Acidiella tumifrons ssp. *fusca* Ito 1949[2402]: 54.—Japan. Honshu: Osaka Prov., Takatuki. HT ♂ UOPJ. [6602760]

interrupta. Korea [PA].

Magnimyiolia interrupta Kwon 1985[2802]: 68.—South Korea. Kyongsangpuk: Mt. Sobaeksan. HT ♂ KUTK. [6602914]

jozana. Japan (Hokkaido) [PA].

Magnimyiolia jozana Shiraki 1933[4432]: 285.—Japan. Hokkaido: Jozankei. ST ♂ ♀ NTU. [6604295]

media. Japan (Honshu) [PA].

Magnimyiolia media Ito 1984[2417]: 128.—Japan. Honshu: Sinano, Simasima. HT ♂ UOPJ. [6602802]

Magnimyiolia media Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604972]

picea. Indonesia (Irian Jaya), Papua New Guinea [AU].

Agaristina picea Hering 1953[2220]: 515.—Indonesia. Irian Jaya: 5 km NE Habbema L., Moss Forest Camp, 2800 m. HT ♂ RNH. [6602695]

sigmoidea. Japan (Honshu) [PA].

Magnimyiolia sigmoidea Ito 1984[2417]: 127.—Japan. Honshu: Sinano, Kiso-Hukushima [Fukushima]. HT ♂ UOPJ. [6602800]

Magnimyiolia sigmoidea Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604971]

trajecticia. Japan (Honshu) [PA].

Magnimyiolia trajecticia Ito 1984[2417]: 128.—Japan. Honshu: Izu, Mikura I., Satomura. HT ♂ UOPJ. [6602801]

tumifrons. China (Zhejiang) [PA].

Acidiella tumifrons Chen 1948[814]: 114.—China. Zhejiang: Tianmushan. HT ♂ IZAS. [6605082]

Genus MALAGACIURA

Malagaciura Hancock 1991[1896]: 176, *stuckenbergi* Hancock (OD). [6600837]

stuckenbergi. Madagascar [AF].

Malagaciura stuckenbergi Hancock 1991[1896]: 178.—Madagascar. Fianarantsoa: Plateau Soaindrana, Andringitra - Ambalavao, 2060 m. HT ♂ NMP. [6605196]

Genus MALAISELLA

Malaisella Hering 1938[2181]: 47, *mirabilis* Hering (OD). [6600426]

mirabilis. Burma [OR].

Malaisella mirabilis Hering 1938[2181]: 47.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602384]

Genus MALAISINIA

Malaisinia Hering 1938[2181]: 54, *pulcherrima* Hering (OD). [6600437]

pulcherrima. Burma [OR].

Malaisinia pulcherrima Hering 1938[2181]: 54.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602392]

Genus MALICA

Malica Richter 1974[4092]: 133, *caraganae* Richter (OD). [6600269]

caraganae. Kirghizia [PA].

Malica caraganae Richter 1974[4092]: 134.—Kirghizia. Sarychelekskij Reserve. HT ♀ ZISP. [6604028]

Genus MANICOMYIA

Manicomomyia Hancock 1986[1891]: 18, *Afreutreta chirindana* Munro (OD). [6600632]

chirindana. Mozambique, Zimbabwe [AF].

Afreutreta chirindana Munro 1935[3470]: 4.—Zimbabwe. Chirinda Forest. HT ♂ BMNH. [6603571]

Genus MARRIOTTELLA

Marriottella Munro 1939[3490]: 147, *exquisita* Munro (OD). [6600092]

Marriottella Cogan & Munro 1980[882]: 523, missp. *Marriottella* Munro. [6600093]

exquisita. South Africa [AF].

Marriottella exquisita Munro 1939[3490]: 148.—South Africa. Natal: Drakensberg, Rockeries Section. HT ♂ SANC. [6603643]

Genus MASTIGOLINA

Mastigolina Munro 1937[3481]: 26, *Pliomelaena bequaerti* Munro (OD). [6600149]

bequaerti. Sierra Leone, Liberia [AF].

Pliomelaena bequaerti Munro 1934[3467]: 1.—Liberia. Paiata. HT ♂ AMNH. [6603520]

rufocomata. Kenya [AF].

Mastigolina rufocomata Munro 1947[3496]: 221.—Kenya. Nairobi. HT ♀ SANC. [6603682]

Genus MATSUMURANIA

Matsumurania Shiraki 1933[4432]: 35, *Rhagoletis sapporensis* Matsumura (MO). [6600271]

sapporensis. Russia (Primorskiy), Japan (Hokkaido, Honshu, Kyushu) [PA].

Rhagoletis sapporensis Matsumura 1916[3220]: 422.—Japan. Hokkaido: Sapporo. LT ♀ HUS. Lectotype designation by inference of holotype by Shiraki 1933: 39. [6603389]

Genus MERACANTHOMYIA

Meracanthomyia Hendel 1910[2095]: 107, n. n. *Meracantha* Macquart. [6600373]

Meracantha Macquart 1851[3085]: 258, *maculipennis* Macquart (OD). Preocc. Kirby 1837. [6600374]

REFS—Shiraki 1933[4432]: 41 (key to 3 spp. [OR]); Hardy 1973[1942]: 135 (key to 9 spp. [OR, AU]); Kapoor 1993[2600]: 29 (key to 3 spp. [OR: India]).

antennata. Ghana, Angola [AF].

Meracantha antennata Hendel 1912[2097]: 11.—Ghana. Ashanti: Obuasi. HT ♀ BMNH. [6601908]

arisana. Taiwan [OR].

Meracanthomyia arisana Shiraki 1933[4432]: 41.—Taiwan. Arisan. ST ♀ NTU. [6604309]

- gamma.** Sri Lanka [OR].
Meracanthomyia gamma Hendel 1910[2095]: 107.—Ceylon [Sri Lanka]. HT ♂ NMW. Type data (Hardy 1968: 119). [6601906]
- intermedia.** India (Uttar Pradesh) [OR].
Meracanthomyia intermedia Hardy 1973[1942]: 136.—India. Uttar Pradesh: Ranikhet. HT ♂ BBM. [6601550]
- kotiensis.** India (Himachal Pradesh), Burma [OR].
Meracanthomyia kotiensis Kapoor 1971[2596]: 483.—India. Himachal Pradesh: Koti, about 16 km. from Manali, 2440 m. HT ♂ INPC. [6602851]
- maculipennis.** India [OR].
Meracantha maculipennis Macquart 1851[3085]: 258.—India. T ♂ UMO? [6603239]
- nigrofemorata.** India (Arunachal Pradesh) [OR].
Meracanthomyia nigrofemorata Hardy 1973[1942]: 139.—Burma [error, India. Arunachal Pradesh:] Mishmi Hills, Lohit River. HT ♀ BMNH. [6601551]
- rufithorax.** Burma [OR].
Meracanthomyia rufithorax Hardy 1973[1942]: 140.—Burma. Chin: Chin Hills, Mount Victoria [21°14'N 93°55'E], 1400 m. HT ♂ BMNH. [6601552]
- spenceri.** Vietnam [OR].
Meracanthomyia spenceri Hardy 1973[1942]: 141.—Vietnam. Mount Lang Bian, 1500-2000 m. HT ♀ BBM. [6601553]

Genus MERZOMYIA

- Merzomyia* Korneyev 1996[2749]: 118, n. n. *Westermannia* Lioy. [6601020]
Westermannia Lioy 1864[2986]: 1022, *Trypeta westermanni* Meigen (OD). Preocc. Huebner 1821. [6600261]

REF.—Korneyev 1990[2736]: 398 ((*Orotava*) key to 3 spp. [PA]).

- licenti.** China (Shanxi), Russia (Primorskiy) [PA].
Acinia licenti Chen 1938[811]: 109.—China. sw. Shanxi: Yao-chan, 2178 m. HT ♂ IZAS. [6600660]
- mongolica.** Mongolia [PA].
Orotava mongolica Korneyev 1990[2736]: 400.—Mongolia. Tov: Tola R. at Lun village. HT ♂ UASK. [6602893]
- westermanni.** Britain & France to Switzerland, Ukraine, Caucasus [PA].
Trypeta westermanni Meigen 1826[3306]: 333.—Switzerland. Genf [Geneva]. T A NMW. [6603439]
Oxyphora cardui Robineau-Desvoidy 1830[4148]: 757.—France. woods of Bondy. ST ♂ MNHNP (destroyed). [6604059]
Westermannia tephritisoides Lioy 1864[2986]: 1023.—*Nomen nudum*. Published without diagnosis or indication. [6602999]
Ictericia tephritisoides Hendel 1927[2108]: 142.—missp. *tephritisoides* Lioy. [6605640]

Genus MESOCLANIS

- Mesoclanis* Munro 1938[3482]: 120, *Trypeta dubia* Walker (OD). [6600189]
- REFS—Munro 1950[3501]: 38 (revision of 7 spp. [AF]); Munro 1957[1560]: 924 (key to 8 spp. [AF]).
- bruneata.** Lesotho, South Africa [AF].
Mesoclanis bruneata Munro 1950[3501]: 46.—South Africa. Cape: Cape Town, Camps Bay. HT ♂ SANC. [6603705]
- campiglossina.** India [OR].
Mesoclanis campiglossina Hering 1944[2210]: 13.—e. India. HT ♀ NMW. [6602631]

- cribripennis.** South Africa [AF].
Ensina cribripennis Bezzi 1924[470]: 546.—South Africa. Cape: East London. HT ♀ MNHNP. [6605063]
Ensina cribripennis Bezzi 1924[471]: 90.—South Africa. Cape: East London. HT ♀ MNHNP. Preocc. Bezzi 1924. [6600511]
- dubia.** South Africa [AF].
Trypeta dubia Walker 1853[4959]: 379.—South Africa. Cape: Cape [Cape of Good Hope]. LT ♀ BMNH. Lectotype designation by inference of holotype by Munro 1950: 41 (also see Hardy 1966: 661). [6604593]
- hyalineata.** South Africa [AF].
Mesoclanis hyalineata Munro 1950[3501]: 49.—South Africa. Cape: Matjesfontein. HT ♂ BMNH. [6603707]
- magnipalpis.** South Africa [AF].
Ensina magnipalpis Bezzi 1920[463]: 261.—South Africa. Natal: Durban, Umbilo. HT ♂ BMNH. [6600354]
Ensina hieroglyphica Bezzi 1924[470]: 552.—South Africa. Cape [Cape Province or Cape of Good Hope]. HT ♀ SAMCT. [6600433]
- optanda.** South Africa [AF].
Mesoclanis optanda Munro 1950[3501]: 48.—South Africa. Cape: Jonkershoek, Stellenbosch. HT ♂ SANC. [6603706]
Mesoclanis optander Cogan & Munro 1980[882]: 546.—missp. *optanda* Munro.
- ovalis.** South Africa [AF].
Mesoclanis ovalis Munro 1950[3501]: 43.—South Africa. Cape: Cape Town, Camps Bay. HT ♂ SANC. [6603704]
- polana.** Mozambique, South Africa [AF].
Ensina polana Munro 1931[3462]: 121.—Mozambique. Lourenco Marques [Maputo], Polana Beach. ST ♂ ♀ SANC. [6603491]

Genus METASPHENISCA

- Metasphenisca* Hendel 1914[2102]: 92, *Trypeta gracilipes* Loew (OD). [6600272]
Isoconia Munro 1947[3496]: 100, *ghenti* Munro (OD). [6600263]
- REFS—Munro 1947[3496]: 102 ((*Isoconia*) key to 20 spp. [AF]); Kapoor 1993[2600]: 55 ((*Isoconia*) key to 2 spp. [OR]).
- atricomata.** South Africa [AF].
Metasphenisca atricomata Munro 1947[3496]: 125.—South Africa. Transvaal: Groblersdal, farm Vlaklaagte. HT ♂ SANC. [6603664]
- axilatra.** Uganda [AF].
Metasphenisca axilatra Munro 1947[3496]: 112.—Uganda. Ruwenzori Range, Katwe. HT ♀ BMNH. [6603659]
- bezziana.** Canary Is., Eritrea, Kenya, Tanzania [PA, AF].
Trypeta bezziana Enderlein 1911[1326]: 424.—Eritrea. Asmara. LT ♀ PAN. Lectotype designated by Hardy 1969: 480. [6601145]
Aciura latincisa Bezzi 1924[472]: 122.—Tanzania. Kilimanjaro: Moshi [3°21'S 37°20'E]. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 140. [6600474]
- bifaria.** India (Tamil Nadu) [OR].
Metasphenisca bifaria Munro 1947[3496]: 111.—India. Tamil Nadu: Coimbatore. HT ♂ BMNH. [6603658]
- caeca.** Eritrea [AF].
Aciura caeca Bezzi 1908[443]: 150.—Eritrea. Cheren. ST ♀ MZLS. [6600173]
- discocephala.** South Africa [AF].
Metasphenisca discocephala Munro 1947[3496]: 104.—South Africa. Cape: Willowmore. HT ♂ SANC. HT transferred from TMP. [6603654]

- ghenti**. Zimbabwe, South Africa [AF].
Metasphenisca ghenti Munro 1947[3496]: 108.—South Africa. Transvaal: Groblersdal, farm Toitskraal. HT ♂ SANC. [6603656]
- gracilipes**. Egypt, Eritrea, South Africa [PA, AF].
Trypeta gracilipes Loew 1862[3035]: 90.—Egypt. ST ♂ ♀ NMW. [6603107]
Acidia cyclopica Bezzi 1908[443]: 152.—Eritrea. Cheren. ST ♀ MZLS. [6600174]
Trypeta w-fuscum Enderlein 1911[1326]: 425.—Eritrea. HT ♂ PAN. [6601146]
- grandidieri**. Madagascar [AF].
Aciura grandidieri Bezzi 1924[471]: 88.—Madagascar. Imerina, forest E of Androngoloaka. ST ♂ ♀ MNHNP. [6600509]
- haematopoda**. Egypt, Sudan, Namibia [PA, AF].
Aciura tetrachaeta var. *haematopoda* Bezzi 1924[470]: 512.—South Africa. Natal: Zululand, M'fongosi. ST ♂ ♀ SAMCT. [6600404]
- hazelae**. Ethiopia, South Africa [AF].
Metasphenisca hazelae Munro 1947[3496]: 110.—South Africa. Transvaal: Groblersdal, farm Vlaklaagte. HT ♂ SANC. [6603657]
- interrupta**. Zambia, South Africa [AF].
Aciura tetrachaeta var. *interrupta* Munro 1929[3459]: 12.—South Africa. Dunedin, Musto; Komatipoort; Bushmanland, Henkries & Jackalswater; & Cape: Steynsburg. ST ♂ ♀ SAMCT. [6603472]
- longulior**. Kenya, Zambia, Namibia, South Africa [AF].
Aciura longulior Munro 1929[3459]: 10.—Namibia. Kaross. HT ♂ SAMCT. [6603471]
- marmorea**. South Africa [AF].
Metasphenisca marmorea Munro 1947[3496]: 121.—South Africa. Transvaal: Marble Hall, Rooibokkop. HT ♂ SANC. [6603663]
- micrura**. Kenya, Tanzania [AF].
Metasphenisca micrura Hering 1942[2206]: 285.—Tanzania. Lake Nyassa, Langenburg. HT ♀ ZMHU. [6602591]
Metasphenisca frondifer Munro 1947[3496]: 112.—Kenya. Chyulu Hills, 6000 ft. HT ♂ SANC. [6603660]
- negeviana**. Israel, Egypt (Sinai), Saudi Arabia [PA].
Isoconia negeviana Freidberg 1974[1549]: 50.—Israel. Jordan Valley, Wadi Faria. HT ♂ TAUJ. [6601318]
- nigricans**. probably Afrotropical Region [AF].
Trypeta nigricans Wiedemann 1830[5136]: 509.—Unknown [probably Africa]. LT ♀ NMW. Lectotype designated by Hardy 1968: 147. [6604744]
- nigricosta**. Eritrea [AF].
Acidia nigricosta Bezzi 1908[443]: 156.—Eritrea. Cheren; & Ghinda-Saati. ST ♂ ♀ MZLS. [6600176]
- nigriseta**. Ethiopia, Zaire, South Africa [AF].
Aciura nigriseta Bezzi 1924[470]: 513.—South Africa. Transvaal: Barberton; & Pretoria. ST ♂ ♀ SANC. [6605058]
Aciura nigriseta: Bezzi 1924[471]: 88.—Subsequent usage. [6600510]
- pallidifemur**. Madagascar [AF].
Metasphenisca pallidifemur Hancock 1991[1896]: 175.—Madagascar. Antsiranana: Montagne des Francais. HT ♀ MNHNP. [6605195]
- parallela**. Namibia [AF].
Metasphenisca parallela Hering 1935[2162]: 155.—Namibia. Otjiwarongo, Farm Okosongomingo. HT ♂ ZSZMH. [6602217]
- parilis**. Malawi, Zimbabwe [AF].
Metasphenisca parilis Munro 1947[3496]: 113.—Zimbabwe. Umtali. HT ♀ SANC. [6603661]
- quinquemaculata**. probably Afrotropical Region [AF].
Urophora quinquemaculata Macquart 1846[3077]: 339.—Brazil [error, not Neotropical]. T ♂ UMO. **N. Comb.** [6603229]
- reinhardi**. Pakistan, India, Sri Lanka, Burma, Cambodia [OR].
Tephritis reinhardi Wiedemann 1824[5133]: 54.—India orient. [e. India]. ST ♂ ♀ UZMC. Type data (Zimsen 1954: 28). [6604717]
Metasphenisca malayana Hering 1942[2206]: 286.—Burma. Tenasserim: Tenaong, 4000 ft. HT ♂ ZMHU. [6602593]
- rubida**. Namibia, South Africa [AF].
Metasphenisca rubida Munro 1947[3496]: 106.—South Africa. Transvaal: Pretoria, Silikatsnek. HT ♂ SANC. [6603655]
- spathuliniforma**. Afghanistan [PA].
Metasphenisca spathuliniforme Dirlbek & Dirlbek 1968[1144]: 175.—Afghanistan. Nengrahar: Darunta. HT ♀ MMB. [6600888]
- tetrachaeta**. Zaire, Zambia, Zimbabwe, South Africa [AF].
Aciura tetrachaeta Bezzi 1918[456]: 20.—Zambia. Chilanga. HT ♀ BMNH. [6600296]
- transilis**. Ethiopia, Sudan, Kenya, Malawi, Mozambique [AF].
Metasphenisca transilis Munro 1947[3496]: 120.—Kenya. Nairobi. HT ♂ SANC. [6603662]
Aciura rheinardi Seguy 1933[4342]: 22.—missp. *reinhardi* Wiedemann; misid. [6604223]
- zernyi**. Tanzania [AF].
Metasphenisca zernyi Hering 1941[2199]: 199.—Tanzania. Lupembe-Berg [Mt. Lupemba]. HT ♀ NMW. [6602554]

Genus MICRONEVRINA

- Micronevrina* Permkam & Hancock 1995[3795]: 1089, *apicalis* Permkam & Hancock (OD). [6600997]
- REF.—Permkam & Hancock 1995[3795]: 1089 (revision of 7 spp. [AU]).
- apicalis**. Australia (se. Qld. to cent. NSW) [AU].
Micronevrina apicalis Permkam & Hancock 1995[3795]: 1090.—Australia. New South Wales: Tooloom Scrub via Urbenville. HT ♂ QMBA. [6605848]
- breviseta**. Australia (n. Qld.) [AU].
Micronevrina breviseta Permkam & Hancock 1995[3795]: 1093.—Australia. Queensland: Cape York Peninsula, West Claudie R., 4 km. SW road junction, 12°44'S 143°15'E. HT ♀ QMBA. [6605849]
- gloriosa**. Australia (se. Qld.) [AU].
Micronevrina gloriosa Permkam & Hancock 1995[3795]: 1094.—Australia. Queensland: Mt. Glorious S. F. HT ♀ QMBA. [6605850]
- hyalina**. Australia (se. Qld., NSW, Vic.) [AU].
Micronevrina hyalina Permkam & Hancock 1995[3795]: 1095.—Australia. Queensland: State Forest near Caloundra Turnoff. HT ♂ QMBA. [6605851]
- mediivitta**. Australia (se. Qld. to cent. NSW) [AU].
Micronevrina mediivitta Permkam & Hancock 1995[3795]: 1097.—Australia. Queensland: Mt. Glorious. HT ♂ QMBA. [6605852]
- montana**. Australia (n. Qld. to e. cent. NSW) [AU].
Micronevrina montana Permkam & Hancock 1995[3795]: 1098.—Australia. Queensland: Mt. Tamborine. HT ♂ QMBA. [6605853]
- setosa**. Australia (n. Qld. to e. cent. NSW) [AU].
Micronevrina setosa Permkam & Hancock 1995[3795]: 1102.—Australia. New South Wales: Royal National Park. HT ♂ QMBA. [6605854]

Genus MIGMELLA

Migmella Munro 1957[3510]: 1033, *Trypeta planifrons* Loew (OD). [6600190]

amplifrons. South Africa [AF].

Euaeresta amplifrons Bezzi 1920[463]: 259.—South Africa. Natal: Malvern. HT ♂ BMNH. [6600353]

elgonensis. Kenya [AF].

Migmella elgonensis Munro 1957[3510]: 1036.—Kenya. Mt. Elgon, Heath Zone, 10500-12500 ft. HT ♂ BMNH. [6603744]

planifrons. South Africa [AF].

Trypeta planifrons Loew 1861[3031]: 277.—Caffrerei [South Africa]. LT ♂ NRS. Lectotype designation by inference of holotype by Munro 1957: 1034. [6603071]

Trypeta planifrons Loew 1862[3037]: 4.—Caffraria [South Africa]. T ♂ NRS. Preocc. Loew 1861. [6605258]

scotia. Kenya [AF].

Migmella scotia Munro 1957[3510]: 1038.—Kenya. Mt. Elgon, Heath Zone, 10500-11500 ft. HT ♀ BMNH. [6603745]

Genus MIMOEUPHRANTA

Mimoeuphranta Hardy 1986[1962]: 79, *diaspora* Hardy (OD). [6600515]

diaspora. Indonesia (Irian Jaya), Papua New Guinea, Solomon Is. [AU].

Mimoeuphranta diaspora Hardy 1986[1962]: 80.—Papua New Guinea. Western Highlands: Baiyer R. Sanct. HT ♂ BBM. [6601806]

Genus MIMOSOPHIRA

Mimosophira Hardy 1973[1942]: 106, *rubra* Hardy (OD). [6600359]

rubra. Vietnam [OR].

Mimosophira rubra Hardy 1973[1942]: 106.—Vietnam. Dalat, 1550 m. HT ♀ BBM. [6601541]

Genus MOLYNOCOELIA

Molynocoelia Giglio-Tos 1893[1685]: 11, *lutea* Giglio-Tos (MO). [6600046]

lutea. Mexico (Veracruz, Chiapas), Guatemala, Costa Rica [NT].

Molynocoelia lutea Giglio-Tos 1893[1685]: 11.—Mexico. Veracruz: Tuxpango. HT ♂ IMZ. Type data (Giglio-Tos 1895: 60). [6601408]

Genus MONACIDIA

Monacidia Ito 1984[2416]: 96, *suggrandis* Ito (OD). [6600447]

suggrandis. Japan (Honshu) [PA].

Monacidia suggrandis Ito 1984[2417]: 97.—Japan. Honshu: Sinano, Kamikoti. HT ♀ UOPJ. [6602805]

Genus MONACROSTICHUS

Monacrostichus Bezzi 1914[450]: 322, *citricola* Bezzi (OD). [6600351]

REFS—Bezzi 1914[450]: 323 (key to 5 spp. (obsolete) [OR: Philippines]); Drew & Hancock 1994[1239]: (revision of 2 spp. [OR]).

citricola. Thailand, w. Malaysia, Philippines [OR].

Monacrostichus citricola Bezzi 1914[450]: 323.—Philippines. Luzon, Laguna: Los Banos. ST ♂ ♀ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM. [6600245]

malaysiae. w. Malaysia [OR].

Monacrostichus malaysiae Drew & Hancock 1994[1239]: 835.—Malaysia. Selangor: Kuala Lumpur, University of Malaya garden. HT ♂ BMNH. [6605372]

Genus MONTILUDIA

Montiludia Ito 1984[2418]: 175, *nemorivaga* Ito (OD). [6600454]

REF.—Ito 1984[2418]: 175 (key to 2 spp. [PA: Japan]).

fucosa. Japan (Honshu) [PA].

Montiludia fucosa Ito 1984[2418]: 177.—Japan. Honshu: Sinano, Sakaedani. HT ♀ UOPJ. [6602813]

Euleia fucosa Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604977]

nemorivaga. Japan (Honshu) [PA].

Montiludia nemorivaga Ito 1984[2418]: 176.—Japan. Honshu: Hoki, Daisen. HT ♂ UOPJ. [6602812]

Euleia nemorivaga Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604976]

Genus MORINOWOTOME

Morinowotome Ito 1984[2419]: 196, *Pseudacidia egregia* Ito (OD). [6600463]

egregia. Japan (Hokkaido, Honshu) [PA].

Pseudacidia egregia Ito 1953[2406]: 21.—Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. [6602776]

flavonigra. Russia (Sakhalin), China (Sichuan) [PA].

Myiolia flavonigra Hendel 1927[2107]: 102.—China. Sichuan: Mt. Omei [Emei Shan]. T ♀ USNM. [6602114]

Spilographa artemisiae: Matsumura 1916[3220]: 417.—*misid*. See Shiraki 1933: 266. [6605570]

minowai. Taiwan [OR].

Pseudacidia minowai Shiraki 1933[4432]: 228.—Taiwan. Nimandaira, Arisan. ST ♂ ♀ NTU. [6604281]

Genus MUNROELLA

Munroella Bezzi 1924[470]: 510, *myiopotina* Bezzi (OD). [6600150]

myiopotina. Kenya, Malawi, Zimbabwe, South Africa [AF].

Munroella myiopotina Bezzi 1924[470]: 511.—South Africa. Natal: Zululand, M'fongosi. HT ♀ SAMCT. [6600403]

Genus MUNROMYIA

Munromyia Bezzi 1922[464]: 297, *nudiseta* Bezzi (OD). [6600098]

nudiseta. South Africa [AF].

Munromyia nudiseta Bezzi 1922[464]: 299.—South Africa. Cape: "Foresta Pirie" near King Williams Town. ST ♂ ♀ SANC. Also ST in IZUSN & MCSNM. [6600363]

Genus MYOLEJA

Myoleja Rondani 1856[4195]: 112, *Tephritis lucida* Fallen (OD). [6600598]

Shunraia Ito 1984[2417]: 122, *boninensis* Ito (OD). [6600440]

Myioleja Rondani 1871[4209]: 177, *missp. Myoleja* Rondani. [6600931]

- Myiolia* Scudder 1882[4334]: 218, missp. *Myoleja* Rondani. Attributed to Rondani by Verrall. [6600965]
Myolia Hardy 1977[1946]: 110, missp. *Myoleja* Rondani. Attributed to “authors”. [6600964]
Myioleia Hardy 1977[1946]: 110, missp. *Myoleja* Rondani. Attributed to “authors”. [6600963]

REF.—Kandybina 1977[2576]: 173 (key to larvae of 2 spp. [PA]).

boninensis. Japan (Bonin Is.) [AU].

Shunraia boninensis Ito 1984[2417]: 122.—Japan. Ogasawara [Bonin] Is.: Hahazima [Mutter I.], Hyogidaira. HT ♂ UOPJ. [6602799]

contemnens. Burma [OR].

Euleia contemnens Hering 1938[2181]: 45.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602382]

desperata. Burma [OR].

Pseudospheniscus desperatus Hering 1938[2181]: 18.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602344]

lucida. Scandinavia S to France, n. Italy & Ukraine [PA].

Tephritis lucida Fallen 1826[1387]: 13.—Finland. LT A NRS. Lectotype designated by Persson 1958: 106, sex of LT not stated. [6601251]

Trypeta speciosa Loew 1844[3020]: 321.—Austria. Wiener [Vienna] region; Frankreich [France]; & Poland. Schlesien [Silesia]. ST ♂ ♀ ZMHU. Female(s) reported as *Trypeta cognata* by Meigen 1826 also are ST. [6603003]

Myoleja lurida Foote 1984[1517]: 98.—missp. *lucida* Fallen. Attributed to “authors”. [6605772]

megaloba. Papua New Guinea [AU].

Myoleja megaloba Hardy 1987[1963]: 327.—Papua New Guinea. NE, Mt. Amingwina, 3300 m. HT ♀ BBM. [6601831]

sinensis. e. Russia, China (Beijing) [PA].

Anastrephoides sinensis Zia 1937[5308]: 166.—China. Beijing: Eastern Tomb. HT ♀ IZAS. [6604835]

Genus MYOPITES

Myopites Blot 1827[543]: 102, *inulaedysentericae* Blot (MO). [6600274]

Rhyncheterus Rondani 1863[4197]: 37, *damascenus* Rondani (MO) = *inulaedysentericae* Blot. [6600275]

Myopites Bezzi 1908[443]: 140, missp. *Myopites* Blot. [6600907]

Rhyncheterus Foote 1984[1517]: 99, missp. *Rhyncheterus* Rondani. [6600901]

Myopites Foote 1984[1517]: 99, missp. *Myopites* Blot. Attributed to “authors”. [6600966]

Styilia: Hendel 1927[2107]: 50, misid. See Foote & Blanc 1979: 172. [6600884]

REFS—Hendel 1927[2107]: 51 (key to 6 spp. [PA]); Hering 1938[2182]: 167 (key to 4 spp. [PA]); Dirlbek 1973[1133]: 1 (key to 14 spp. [PA]); Richter 1970[4087]: 143 (key to 4 spp. [PA: e. Europe]); Dirlbek 1974[1135]: 74 (key to 13 spp. [PA]); White 1988[4235]: 32 (key to 2 spp. [PA: Britain]); Freidberg & Kugler 1989[1571]: 48 (key to 4 spp. [PA: Israel & Sinai]); Merz 1994[3343]: 25 (key to 2 spp. [PA: cent. Europe]).

apicatus. s. France, Austria, Slovakia, Hungary, Italy, Crete, Turkey, Israel [PA].

Myopites apicata Freidberg 1980[1552]: 16.—Israel. Hadera. HT ♂ TAUI. [6601324]

boghariensis. s. France, Algeria [PA].

Myopites boghariensis Seguy 1934[4346]: 103.—Algeria. Bogharti; France. Var: Callian. ST A MNHNP? [6604229]

bonifaciae. France (Corsica) [PA].

Myopites bonifaciae Dirlbek 1973[1134]: 1.—France. s. Corsica: Bonifacio, Pertusato, 20-80 m. HT ♂ MMB. [6600879]

Myopites bonifaciae Dirlbek 1973[1133]: 1.—France. Corsica. T A MMB. Preocc. Dirlbek 1973. [6605086]

cypriacus. Italy, Cyprus, Israel [PA].

Myopites cypriaca Hering 1938[2180]: 399.—Cyprus. Akrotiri Forest. ST ♂ ♀ BMNH. [6602299]

Myopites shiakidesi Dirlbek 1973[1133]: 3.—Cyprus. T A Dirlbek. [6605888]

Myopites shiakidesi Dirlbek 1974[1135]: 75.—Cyprus. Salamis-Engomi area. HT ♀ Dirlbek. Preocc. Dirlbek 1973. [6600880]

delottoi. Eritrea [AF].

Myopites delottoi Munro 1955[3507]: 413.—Eritrea. Asmara, Acria. HT ♂ SANC. [6603724]

eximia. Britain, France [PA].

Myopites eximia Seguy 1932[4341]: 159.—France. La Lande. T A MNHNP. See White 1986: 149. [6604221]

hemixanthus. South Africa [AF].

Urophora hemixantha Munro 1931[3462]: 118.—South Africa. Cape: Herbert dist., Smitsdrift. HT ♂ SANC. [6603490]

inulaedysentericae. Britain, France, Germany, Estonia, cent. Europe, Spain, Italy, Balkans, Ukraine, North Africa [PA].

Myopites inulaedysentericae Blot 1827[543]: 103.—Not stated [France]. ST ♂ ♀ Unknown. Published as compound name of single entity (Freidberg 1980: 14). [6600621]

Tephritis hebe Newman 1833[3596]: 506.—England. Southgate. HT A Unknown. [6603917]

Tephritis septemmaculata Macquart 1835[3073]: 465.—France. T ♀ MNHNP? [6603201]

Trypeta inulae Roser 1840[4216]: 60.—Germany. Wurttemberg. T A SMN,ZMHU. [6604158]

Tephritis jasoniae Dufour 1862[1266]: 144.—Spain. mountains of Catalogne [Catalonia]. ST ♂ ♀ MNHNP? [6601123]

Rhyncheterus damascenus Rondani 1863[4197]: 37.—Spain. Soria. T ♂ MZLS? [6604117]

Myopites sardoa Costa 1882[973]: 40.—Italy. Sardinia: Alghero. T A IZUSN? Type locality data on p. 28. [6600819]

Myopites olivieri Kieffer 1899[2669]: 5.—Algeria. environs of Philippeville. ST ♂ ♀ Kieffer. [6602866]

Myopites blotii Brebisson 1827[593]: 103.—n. n. *inulaedysentericae* Blot. Published in synonymy, validated by Macquart 1835: 474. [6600622]

Myopites bottii Costa 1882[973]: 40.—missp. *blotii* Brebisson. [6605041]

Myopites olivierii Bezzi 1908[443]: 140.—missp. *olivieri* Kieffer. [6605520]

Sphenella signata: Walker 1835[4955]: 73.—misid. See Hendel 1927: 51. [6605641]

lelea. s. France [PA].

Myopites lelea Dirlbek 1973[1133]: 3.—France. T A Dirlbek? [6605889]

Myopites lelae Dirlbek 1974[1135]: 77.—France. Var: Agay. HT ♀ Dirlbek? **N. Syn.** [6600882]

longirostris. Italy (Sicily), Croatia; s. France? [PA].

Trypeta longirostris Loew 1846[3021]: 502.—Italy. Sicily: Catania [Catania]; & Messina. ST ♂ ♀ ZMHU? Suspension of I.C.Z.N. rules required to validate usage. [6603037]

Myopites frauenfeldi Schiner 1863[4295]: 142.—Dalmazien [Croatia. Dalmatia]. ST ♂ ♀ NMW? [6604173]

Styilia mentharum Robineau-Desvoidy 1830[4148]: 754.—not stated [probably France. seacoast]. ST ♂ ♀ MNHNP (destroyed). Has priority over *longirostris*, but synonymy uncertain. [6604052]

- Nygmatia stylata* Hendel 1927[2107]: 52.—*Nomen nudum*. Attributed to “Hffg.”. [6605540]
Trypeta blotii: Frauenfeld 1861[1539]: 384.—misid. See Schiner 1863: 142. [6605642]
nigrescens. Canary Is. [PA].
Myopites nigrescens Becker 1908[374]: 142.—Canary Is. Tenerife. ST ♂ ♀ ZMHU. [6600137]
olii. [PA].
Myopites olii Dirlbek 1973[1133]: 3.—Czech Republic. T A Dirlbek. [6605890]
Myopites olii Dirlbek 1974[1135]: 76.—Czech Republic. South Moravia, se. shore of Nesyt-pond. HT ♀ Dirlbek. Preocc. Dirlbek 1973. [6600881]
orientalis. Russia (Primorskiy) [PA].
Myopites orientalis Korneyev 1987[2725]: 127.—Russia. Primorskiy: Mirnyi. HT ♀ UASK. [6602889]
stylatus. s. Europe, North Africa, Israel [PA].
Stomoxys stylata Fabricius 1794[1377]: 396.—Barbaria [North Africa]. T A MNHNP? ST probably lost (Zimsen 1964: 17, 486). [6601222]
Myopites limbardae Schiner 1863[4295]: 142.—Dalmazien [Croatia. Dalmatia]. ST ♂ ♀ NMW? [6604174]
Trypeta longirostris: Frauenfeld 1857[1537]: 548.—misid. [6605582]
tenellus. Belgium, France, Austria, Hungary, Ukraine, sw. Russia [PA].
Myopites tenella Frauenfeld 1863[1541]: 220.—Austria. between Bruck & Wilfleinsdorf. ST ♂ ♀ NMW. [6601310]
variofasciatus. Egypt, Israel [PA].
Myopites variofasciata Becker 1903[369]: 132.—Egypt. Alexandria. ST ♂ ♀ ZMHU. [6600109]
zernyi. Greece (Crete), Croatia [PA].
Myopites zernyi Hering 1939[2182]: 167.—Croatia. Dalmatia: Arbe I., Sta. Eufemia. ST ♂ ♀ NMW. [6602400]

Genus NAMWAMBINA

- Namwambina* Munro 1957[3510]: 1019, *festinata* Munro (OD). [6600191]
festinata. Uganda [AF].
Namwambina festinata Munro 1957[3510]: 1020.—Uganda. Ruwenzori Range, Namwamba Valley, 10000-12000 ft. HT ♂ BMNH. [6603740]

Genus NEAROMYIA

- Nearomyia* Becker 1913[378]: 646, *flavovaria* Becker (MO). [6600276]
flavovaria. Iran [PA].
Nearomyia flavovaria Becker 1913[378]: 646.—Iran. Khorasan: “Gerri-rud, Landschaft Bechars.”. HT ♂ ZISP. [6600149]

Genus NEASPILOTA

- REFS.—Quisenberry 1949[3992]: 83 (key to 9 spp. [NE]); Foote & Blanc 1963[1521]: 33 (key to 3 spp. [NE: USA: California]); Freidberg & Mathis 1986[1573]: 1 (revision of 19 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 223 (key to 19 spp. [NE: USA & Canada])

Subgenus NEASPILOTA

- Neaspilota* Osten Sacken 1878[3719]: 192, n. n. *Aspilota* Loew. [6600748]
Aspilomyia Hendel 1907[2093]: 98, n. n. *Aspilota* Loew. [6600749]

- Aspilota* Loew 1873[3042]: 286, *Trypeta alba* Loew, Coquillett 1910[966]: 511 (SD). Preocc. Forster 1862. [6600747]
Neaspilota Johnson 1895[2501]: 337, missp. *Neaspilota* Loew. [6600914]
Neospilota Williston 1896[5156]: 122, missp. *Neaspilota* Osten Sacken. [6600761]
alba. USA (Montana E to Massachusetts, S to Texas & North Carolina) [NE].
Trypeta alba Loew 1861[3032]: 345.—USA. Pennsylvania. LT ♂ MCZ. Lectotype designated by Freidberg & Mathis 1986: 15. [6603085]
albidipennis. USA (Nebraska, Michigan & New York, S to Texas & Virginia) [NE].
Trypeta albidipennis Loew 1861[3032]: 345.—USA. Pennsylvania. LT ♂ MCZ. Lectotype designated by Freidberg & Mathis 1986: 17. [6603084]
Neaspilota albipennis Johnson 1925[2515]: 263.—missp. *albidipennis* Loew. [6605531]
floridana. USA (Kansas E to Pennsylvania, S to Texas & Florida) [NE].
Neaspilota floridana Ibrahim 1982[2351]: 297.—USA. Florida: Orange Co., Orlando. HT ♀ USNM. HT not returned to USNM by author. [6602757]
Neaspilota alba: Benjamin 1934[398]: 36.—misid. [6605592]
vernoniae. Canada & USA (Nebraska & Kansas E to Newfoundland, S to Pennsylvania) [NE].
Trypeta vernoniae Loew 1861[3032]: 346.—USA. Pennsylvania. LT ♂ MCZ. Lectotype designated by Freidberg & Mathis 1986: 23. [6603086]

Subgenus NEORELLIA

- Neorellia* Freidberg & Mathis 1986[1573]: 26, *Neaspilota punctistigma* Benjamin (OD). [6600755]
achilleae. Canada & USA (costal plain, Newfoundland S to Florida & Alabama; California, Arizona) [NE].
Neaspilota achilleae Johnson 1900[2504]: 328.—USA. New Jersey: Avalon. LT ♂ USNM. Lectotype designated by Freidberg & Mathis 1986: 30. [6602837]
Trypeta achillae Woodworth 1913[5204]: 137.—missp. *achilleae* Johnson. [6605609]
Neaspilota achilliae Phillips 1923[3826]: 140.—missp. *achilleae* Johnson. [6605544]
Neaspilota ochilleae Foote, Blanc & Norrbom 1993[1523]: 229.—missp. *achilleae* Johnson. Attributed to Phillips. [6605512]
aenigma. USA (California, Colorado, Arizona, New Mexico, w. Texas), Mexico (Sonora) [NE].
Neaspilota aenigma Freidberg & Mathis 1986[1573]: 32.—USA. California: Inyo Co., Death Valley, Junction. HT ♂ USNM. [6601356]
albiseta. USA (California, Nevada, Arizona) [NE].
Neaspilota albiseta Freidberg & Mathis 1986[1573]: 35.—USA. California: Inyo Co., Death Valley, Junction. HT ♂ USNM. [6601357]
appendiculata. USA (Idaho & Wyoming S to California & New Mexico) [NE].
Neaspilota appendiculata Freidberg & Mathis 1986[1573]: 37.—USA. Arizona: Williams. HT ♂ USNM. [6601358]

- brunneostigmata.** Canada & USA (s. Alberta S to California & w. Texas) [NE].
Neaspilota brunneostigmata Doane 1899[1189]: 187.—USA. Washington: Pullman. LT ♀ WSU. Lectotype designated by Foote 1966: 122; type data (Zack 1984: 32). [6600926]
Neaspilota brunneostigmata Aldrich 1905[65]: 610.—missp. *brunneostigmata* Doane. [6605522]
Neaspilota brunneostigma Malloch 1942[3142]: 19.—missp. *brunneostigmata* Doane. [6605548]
Neaspilota brunneostigma Goeden 1989[1724]: 166.—missp. *brunneostigmata* Doane. [6605535]
- callistigma.** USA (s. California), Mexico (Baja California Norte) [NE].
Neaspilota callistigma Freidberg & Mathis 1986[1573]: 43.—USA. California: San Diego. HT ♂ CAS. [6601359]
- dolosa.** Canada to Mexico (s. Manitoba S to Tamaulipas, North Carolina & Florida) [NE].
Neaspilota dolosa Benjamin 1934[398]: 39.—USA. Florida: Orlando. HT ♂ USNM. [6600163]
- footei.** Canada & USA (British Columbia S to California, s. Saskatchewan, Ontario & Massachusetts S to Alabama) [NE].
Neaspilota footei Freidberg & Mathis 1986[1573]: 49.—USA. Virginia: Frederick Co., White Hall. HT ♂ USNM. [6601360]
- isochela.** USA (Utah, Nebraska, Illinois & North Carolina S to Arizona, Texas & Florida) [NE].
Neaspilota isochela Freidberg & Mathis 1986[1573]: 52.—USA. Texas: Mexia. HT ♂ USNM. [6601361]
- pubescens.** USA (s. California) [NE].
Neaspilota pubescens Freidberg & Mathis 1986[1573]: 55.—USA. California: Barton Flat, S. Fork Camp. HT ♂ USNM. [6601362]
- punctistigma.** USA (Alabama, Georgia, Florida) [NE].
Neaspilota punctistigma Benjamin 1934[398]: 38.—USA. Florida: 4 mi. E Ft. Christmas. HT ♂ USNM. [6600162]
- signifera.** USA (Washington, Oregon, California, Arizona) S to Mexico (Baja California, Sonora) [NE].
Trypeta signifera Coquillett 1894[948]: 73.—USA. California: Los Angeles Co. LT ♂ USNM. Lectotype designated by Freidberg & Mathis 1986: 62. [6600762]
- stecki.** USA (California, New Mexico) [NE].
Neaspilota stecki Freidberg & Mathis 1986[1573]: 63.—USA. New Mexico: Torrance Co., Willard. HT ♂ USNM. [6601363]
- viridescens.** Canada & USA (Alaska, Yukon & Saskatchewan, S to California & Colorado) [NE].
Neaspilota viridescens Quisenberry 1949[3992]: 82.—USA. Colorado: Routt Co., Rabbit Ears Pass. HT ♀ USNM. HT transferred from CSUCF to USNM. [6604010]
Neaspilota viscidiflorus Goeden et al. 1995[1743]: 786.—missp. *viridescens* Quisenberry. [6605902]
- wilsoni.** USA (California) [NE].
Neaspilota wilsoni Blanc & Foote 1961[522]: 78.—USA. California: Fresno Co., Jacolitas Canyon. HT ♂ CAS. Type data (Arnaud 1979: 330). [6600571]

Genus NEMEURINUS

- Nemeurinus* Ito 1984[2417]: 141, *leucocelis* Ito (MO). [6600452]
Syusiroittoa Kwon 1985[2802]: 74, *maculipennis* Kwon (OD) = *leucocelis* Ito. [6600718]
Nemeurinus Ito 1956[2407]: 24, *Nomen nudum*. [6600799]
- leucocelis.** Russia (Kurile Is.), Korea, Japan (Hokkaido, Honshu, Kyushu) [PA].
Nemeurinus leucocelis Ito 1984[2417]: 142.—Japan. Honshu: Ise, Osugidani. HT ♂ UOPJ. [6602804]

- Syusiroittoa maculipennis* Kwon 1985[2802]: 74.—South Korea. Kyongsangnam: Mt. Wonhyosan. HT ♀ KUTK. [6602917]
Nemeurinus leucocelis Ito 1956[2407]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604961]

Genus NEOCERATITIS

- Neoceratitis* Hendel 1927[2107]: 61, *Ceratitidis asiatica* Becker (OD). [6600277]
Trirhithromyia Hendel 1931[2113]: 2, *Ceratitidis efflatouni* Hendel (MO). Proposed as a subgenus. [6600334]
Heoceratitis Hendel 1927[2107]: 20, incosp. *Neoceratitis* Hendel, by present revision. [6600845]
- REF.—Korneyev 1994[2743]: 60 (key to 6 spp. [PA, AF]).

- asiatica.** Kazakstan, Turkmenistan, China (Xizang) [PA].
Ceratitidis asiatica Becker 1908[373]: 291.—China. ne. Xizang: E Zaidam, Kurlyk on Baingol R. ST ♂ ♀ ZISP. Also ST in ZMHU. [6600125]
- chirinda.** Zimbabwe [AF].
Trirhithromyia chirinda Hancock 1985[1887]: 296.—Zimbabwe. Mt. Silinda. HT ♂ NMBZ. [6601456]
- cyanescens.** Madagascar, Reunion, Mauritius [AF].
Pardalaspis cyanescens Bezzi 1923[466]: 529.—Madagascar. Androy, Ambouambe. HT ♀ MNHNP. [6600367]
Perilampsis bourbonica Munro 1954[3506]: 546.—Reunion. Abadie. HT ♂ ISTM. HT currently in SANC. [6603720]
Pardalaspis cyanescens Bezzi 1924[469]: 102.—Madagascar. T A MNHNP. Preocc. Bezzi 1923: 529. [6605066]
- efflatouni.** Israel, Egypt, Sudan [PA, AF].
Ceratitidis efflatouni Hendel 1931[2113]: 3.—Sudan. Ash Sharqui: Mersa [Marsa] Hala'ib. HT ♂ ESEE? [6602198]
- lycii.** South Africa [AF].
Ceratitidis lycii Coquillett 1901[955]: 30.—South Africa. Cape Colony [Cape Prov.]. ST ♀ USNM. [6600798]
- minima.** Namibia, South Africa [AF].
Trirhithrum lycii var. *minimum* Bezzi 1924[470]: 484.—Namibia. Grootfontein. HT ♀ SANC. [6600391]

Genus NEOMYOLEJA

- Neomyoleja* Tseng, Chu & Chen 1992[4841]: 171, *chowi* Tseng, Chu & Chen (OD). [6600841]
Neomyoleja Tseng, Chu & Chen 1992[4841]: 174, incosp. *Neomyoleja* Tseng, Chu & Chen, by present revision. [6600842]
- chowi.** Taiwan [OR].
Neomyoleja chowi Tseng, Chu & Chen 1992[4841]: 172.—Taiwan. Nantou: Tsuifeng, 2400 m. HT ♀ BCIQT. [6605229]

Genus NEORHAGOLETIS

- Neorhagoletis* Hendel 1914[2102]: 91, *latifrons* Hendel (OD). [6600049]
Neorhagoletis Hendel 1914[2103]: 30, *latifrons* Hendel (OD). Preocc. Hendel 1914: 91. [6600777]
- latifrons.** Bolivia [NT].
Neorhagoletis latifrons Hendel 1914[2102]: 91.—Bolivia. T A SMT, NMW. [6601948]
Neorhagoletis latifrons Hendel 1914[2103]: 31.—Bolivia. "Cordillere", 4000-5000 m. ST ♂ ♀ SMT, NMW. Preocc. Hendel 1914: 91. [6601980]

Genus NEORTALOTRYPETA

Neortalotrypeta Norrbom 1994[**3662**]: 4, *bicolor* Norrbom (OD). [6600867]

bicolor. Brazil (Mato Grosso do Sul) [NT].

Neortalotrypeta bicolor Norrbom 1994[**3662**]: 6.—Brazil. Mato Grosso do Sul: Corumba. HT ♀ AMNH. [6605332]

Genus NEOTARACIA

Neotaracia Foote 1978[**1510**]: 31, *Acrotaenia imox* Bates (OD). [6600642]

REF.—Foote 1979[**1513**]: 175 (revision of 3 spp. [NT]).

imox. Mexico (Veracruz, Chiapas) S to Colombia & Ecuador, E to Venezuela & Trinidad [NT].

Acrotaenia imox Bates 1934[**352**]: 11.—Costa Rica. San Mateo, Higuito. HT ♀ USNM. [6600101]

plaumanni. Paraguay, Brazil (Parana, Santa Catarina, Sao Paulo), Argentina [NT].

Acrotaenia plaumanni Hering 1938[**2178**]: 188.—Brazil. Santa Catarina: Nova Teutonia, Correio Ita. ST ♂ ♀ BMNH. [6602328]

unimacula. Mexico (Veracruz) S to Costa Rica [NT].

Neotaracia unimacula Foote 1979[**1513**]: 177.—El Salvador. San Salvador. HT ♀ USNM. [6601287]

Genus NEOTEPHRITIS

Neotephritis Hendel 1935[**2117**]: 54, *Trypeta finalis* Loew (OD). [6600621]

REFS—Foote 1960[**1493**]: 145 (revision of 2 spp. [NE: USA & Canada]); Steyskal 1972[**4635**]: 415 (key to 11 spp. [NE, NT]); Foote, Blanc & Norrbom 1993[**1523**]: 244 (key to 2 spp. [NE: USA & Canada]).

aberrans. Colombia, Venezuela [NT].

Oxyphora aberrans Schiner 1868[**4296**]: 273.—Colombia [error, Venezuela]. LT ♂ NMW. Lectotype designated by Hardy 1968: 138. [6604194]

bruesi. Jamaica [NT].

Tephritis bruesi Bates 1933[**350**]: 168.—Jamaica. Newton. HT ♀ MCZ. [6600099]

cancellata. Mexico (Durango SE to Guerrero & Mexico) [NE].

Tephritis cancellata Wulp 1900[**5219**]: 420.—Mexico. Guerrero: Amula, 6000 ft. LT ♂ BMNH. Lectotype designated by Foote 1965: 244. [6604805]

cinerea. Chile, Argentina, s. Brazil [NT].

Acinia cinerea Blanchard 1852[**525**]: 461.—Chile. Coquimbo: Illapel. T A MNHNP. 1 female ST in MNHNP. **N. Comb.** [6600579]

finalis. Canada to Mexico (Washington, Manitoba & Virginia, S to California, Guerrero, Texas & Georgia) [NE].

Trypeta finalis Loew 1862[**3036**]: 222.—USA. California. ST ♂ ♀ MCZ. [6603114]

Tephritis affinis Snow 1894[**4527**]: 172.—USA. Washington; Montana; California: Kern Co. ST ♂ ♀ UKaL. ST apparently lost (Foote 1962: 172). [6604378]

Tephritis inornata Coquillett 1902[**957**]: 181.—USA. New Mexico: Las Vegas Hot Springs. ST ♂ ♀ USNM. [6600790]

mundellii. Brazil (Sao Paulo) [NT].

Tephritis mundellii Lima 1936[**2960**]: 158.—Brazil. Sao Paulo: Itapetinga. HT ♀ IOC. [6602958]

Acanthiophilus mundellii Hering 1942[**2207**]: 15.—missp. *mundellii* Lima. [6605387]

Neotephritis mundellii Foote 1967[**1508**]: 32.—missp. *mundellii* Lima. [6605391]

nigripilosa. Hawaiian Is. (Maui) [AU].

Neotephritis nigripilosa Hardy 1980[**1948**]: 48.—USA. Hawaii: Maui, Haleakala Crater, Holua, 6500 ft. HT ♂ BBM. [6601878]

paludosae. Hawaiian Is. (Maui) [AU].

Neotephritis paludosae Hardy 1980[**1948**]: 51.—USA. Hawaii: Maui, Upper Hana Forest, 5500 ft. HT ♂ BBM. [6601879]

quadrata. s. Brazil, Uruguay [NT].

Trypanea quadrata Malloch 1933[**3130**]: 277.—Uruguay. Montevideo. HT ♂ BMNH. [6603279]

rava. USA (Arizona) [NE].

Neotephritis rava Foote 1960[**1493**]: 150.—USA. Arizona: Portal, Rustler Park, 8200 ft. HT ♀ USNM. [6601271]

semifusca. Mexico (Durango, Mexico, Morelos, Veracruz, Chiapas) [NE, NT].

Tephritis semifusca Wulp 1900[**5219**]: 422.—Mexico. Durango: Ciudad. LT ♂ BMNH. Lectotype designated by Foote 1965: 245. **N. Comb.** [6604809]

Tephritis intricata Wulp 1900[**5219**]: 422.—Mexico. Durango: Ciudad, 8100 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 245. [6604810]

staminea. Mexico (Veracruz) SE to Guatemala [NT].

Tephritis staminea Wulp 1900[**5219**]: 419.—Mexico. Veracruz: Orizaba. HT ♂ BMNH. Type data (Foote 1965: 244). [6604804]

thaumasta. Mexico (Durango) [NE].

Acanthiophilus thaumasta Hering 1942[**2207**]: 15.—Mexico. Durango: Ciudad [24°23'N 106°03'W, 8100 ft.]. HT ♀ ZMHU. [6602603]

Genus NEOTHEMARA

Neothemara Malloch 1939[**3135**]: 253, *Rioxa formosipennis* Walker (OD). [6600516]

Nesthemara Hardy & Foote 1989[**1973**]: 513, missp. *Neothemara* Malloch. Attributed to “authors”. [6600967]

REFS—Malloch 1939[**3137**]: 433 (key to 3 spp. (obsolete) [AU]); Malloch 1939[**3135**]: 254 (key to 3 spp. (obsolete) [AU]); Hardy 1986[**1962**]: 82 (key to 2 spp. [AU]).

digressa. Papua New Guinea (Western & Eastern Highlands) [AU].

Neothemara digressa Hardy 1986[**1962**]: 82.—Papua New Guinea. Eastern Highlands: 30 km. S of Kainantu, Sinofi, 1590 m. HT ♀ BBM. [6601807]

formosipennis. Indonesia (Irian Jaya), Papua New Guinea, Australia (n. Qld.) [AU].

Rioxa formosipennis Walker 1861[**4969**]: 252.—Indonesia. Irian Jaya: Dorey [Manokwari]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 193. [6604647]

Neothemara formosipennis f. *trigonifera* Hering 1951[**2214**]: 7.—New Guinea. HT ♀ ZMHU. Depository stated as Hering Collection, but HT now in ZMHU, not BMNH. [6602662]

Genus NIPPPIA

Nippia Munro 1929[**3460**]: 392, *alboscuteolata* Munro (OD). [6600120]

alboscuteolata. South Africa [AF].

Nippia alboscuteolata Munro 1929[**3460**]: 393.—South Africa. Transvaal: Barberton, Stentor Farm. HT ♀ SANC. [6603465]

reticulata. Cameroon, Zambia [AF].

Nippia reticulata Hancock 1985[**1887**]: 292.—Cameroon. Southwest: Bakingili. HT ♂ USNM. HT transferred from Texas A&M Univ. [6601455]

Genus NITOBEDIA

- Nitobeia* Shiraki 1933[4432]: 47, *formosana* Shiraki (OD). [6600375]
Nitobeia Hardy 1977[1946]: 76, missp. *Nitobeia* Shiraki. [6600376]

formosana. Taiwan [OR].

- Nitobeia formosana* Shiraki 1933[4432]: 48.—Taiwan. Arisan. HT ♂ NTU. [6604322]

Genus NITRARIOMYIA

- Nitrariomyia* Rohdendorf 1949[4170]: 423, *lukjanovitshi* Rohdendorf (OD). [6600278]

lukjanovitshi. sw. Russia E to Kazakstan & Central Asia, Mongolia [PA].

- Nitrariomyia lukjanovitshi* Rohdendorf 1949[4170]: 424.—Russia. Astrakhan: Krasuyar; & Kazakstan. Kzyl-Orda: Munchak Assa. ST ♂ ♀ ZMM. [6604103]

Genus NOEETA

- Noeeta* Robineau-Desvoidy 1830[4148]: 778, *flavipes* Robineau-Desvoidy, White 1986[5101]: 149 (SD) = *pupillata* Fallen. Type species designation of *Tephritis pupillata* Fallen by Hendel 1927: 206 invalid, not an originally included species. [6600279]
Oplocheta Rondani 1856[4195]: 113, *Tephritis pupillata* Fallen (OD). [6600280]
Carphotricha Loew 1862[3038]: 77, *strigilata* Loew, Cresson 1914[1011]: 277 (SD). [6600222]
Pseudonoëta Hering 1942[2207]: 4, *Noeeta crepidis* Hering (OD). Proposed as a subgenus. [6600223]
Hoplocheta Rondani 1870[4206]: 132, emend. *Oplocheta* Rondani. [6600856]
Pseudnoëta Hering 1942[2207]: 4, incosp. *Pseudnoëta* Hering. Automatic correction under Art. 32(d). [6600924]
Carpotricha Loew 1873[3042]: 279, missp. *Carphotricha* Loew. [6600898]
Carphotriche Coquillett 1899[953]: 264, missp. *Carphotricha* Loew. [6600893]
Carphotrichia Woodworth 1913[5204]: 135, missp. *Carphotricha* Loew. [6600919]
Carpotricha Woodworth 1913[5204]: 137, missp. *Carphotricha* Loew. [6600918]
Hoplogaster Hendel 1914[2102]: 94, missp. *Oplocheta* Rondani. [6600846]
Noëta Hendel 1927[2107]: 206, missp. *Noeeta* Robineau-Desvoidy. [6601003]
Noeta Persson 1958[3797]: 120, missp. *Noeeta* Robineau-Desvoidy. [6600986]
Noëta Persson 1958[3797]: 116, missp. *Noeeta* Robineau-Desvoidy. [6600795]

REFS—Becker 1900[368]: 62 ((*Carphotricha*) key to 10 spp. (obsolete) [PA]); Hendel 1927[2108]: 207 (key to 2 spp. [PA]); Richter 1970[4087]: 171 (key to 3 spp. [PA: e. Europe]); Merz 1994[3343]: 37 (key to 3 spp. [PA: cent. Europe]).

alini. China [PA].

- Pseudonoëta alini* Hering 1951[2214]: 15.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602655]

bisetosa. Switzerland [PA].

- Noeeta bisetosa* Merz 1992[3341]: 229.—Switzerland. Ticino: Biasca, 350 m. HT ♀ ETHZ. [6605230]

crepidis. Germany, Austria, Hungary, Ukraine, sw. Russia [PA].

- Noeeta crepidis* Hering 1936[2166]: 62.—Germany. near Magdeburg, Sulldorf. ST ♂ ♀ DEI, BMNH. [6602234]

hemiradiata. Spain [PA].

- Noeeta hemiradiata* Dirlbek & Dirlbek 1991[1149]: 1.—Spain. Alicante: N of Alicante, Mediterranean coast, Benidorm. HT ♀ Dirlbek. [6605011]

pupillata. n. Europe & e. Siberia S to cent. Europe, Ukraine, Caucasus & Mongolia [PA].

- Tephritis pupillata* Fallen 1814[1382]: 171.—not stated [Sweden?]. LT A NRS. Lectotype designated by Persson 1958: 116, type locality & sex of LT not stated. [6601243]

- Trypeta pardalina* Meigen 1826[3306]: 342.—Not stated [probably Germany. Stolberg]. HT ♂ MNHNP. [6603445]

- Noeeta brunica* Robineau-Desvoidy 1830[4148]: 779.—France. T ♀ Dejean. [6604097]

- Noeeta flavipes* Robineau-Desvoidy 1830[4148]: 778.—France. Paris; & Loire: Saint-Sauveur. ST ♂ MNHNP (destroyed). [6604094]

- Tephritis lineata* Macquart 1835[3073]: 472.—n. France. T ♂ MNHNP? [6603207]

- Tephritis pupillata* Fallen 1820[1383]: 11.—Sweden. Scaniae [Kristianstads or Malmohus], agricultural areas. ST ♂ ♀ NRS. Preocc. Fallen 1814. [6605173]

sinica. e. Russia, China (Shaanxi) [PA].

- Noeeta sinica* Chen 1938[811]: 169.—China. Shaanxi: Wei-Tze-ping. HT ♀ IZAS. [6600690]

strigilata. Greece [PA].

- Trypeta strigilata* Loew 1855[3028]: 40.—Greece. ST ♂ ZMHU. [6603052]

Genus NOTHOCLUSIOSOMA

- Nothoclusiosoma* Hardy 1986[1962]: 85, *Trypanocentra vittithorax* Malloch (OD). [6600517]

vittithorax. Indonesia (Irian Jaya), Papua New Guinea [AU].

- Trypanocentra vittithorax* Malloch 1939[3137]: 429.—Papua New Guinea. Central: Mondo [8°33'S 147°07'E], 5000 ft. HT ♀ BMNH. [6603351]

Genus NOTOMMA

- Notomma* Bezzi 1920[463]: 242, *bioculatum* Bezzi (OD). [6600282]

- Hermannloewia* Bezzi 1923[467]: 580, *Trypeta jucunda* Loew (OD). [6600175]

- Hermannloewia* Bezzi 1924[470]: 496, *Trypeta jucunda* Loew (OD). Preocc. Bezzi 1923: 580. [6600819]

REFS—Bezzi 1924[469]: 115 ((*Hermannloewia*) key to 3 spp. [AF]); Munro 1952[3504]: 330 (revision of 7 spp. [AF]).

berylinum. South Africa [AF].

- Notomma berylinum* Munro 1952[3504]: 341.—South Africa. Natal: Zululand, Mkuzi Game Reserve. HT ♀ SANC. [6603712]

bioculatum. Ghana, Tanzania [AF].

- Notomma bioculatum* Bezzi 1920[463]: 244.—Ghana. Aburi. HT ♀ BMNH. [6600343]

dissolutum. South Africa [AF].

- Hermannloewia dissoluta* Bezzi 1924[469]: 115.—South Africa. Transvaal: Pretoria. HT ♀ MNM. Type data (Bezzi 1924: 498, Munro 1935: 136). [6605070]

- Hermannloewia dissoluta*: Bezzi 1924[470]: 498.—Subsequent usage. [6600396]

fuelleborni. Tanzania [AF].

Carpophthoromyia fuelleborni Enderlein 1920[1330]: 357.—Tanzania. Lake Nyassa, Langenburg, area of pyramid. HT ♀ ZMHU. [6601196]

Carpophthoromyia fülleborni Enderlein 1920[1330]: 357.—in-cosp. *fuelleborni* Enderlein. Automatic correction under Art. 32(d). [6605714]

galbanum. Zimbabwe, South Africa [AF].

Notomma galbanum Munro 1952[3504]: 333.—South Africa. Natal: Tugela Ferry. HT ♂ SANC. [6603711]

jucundum. Zimbabwe, South Africa [AF].

Trypeta jucunda Loew 1861[3031]: 258.—Caffrerei [South Africa]. T ♀ NRS? [6603061]

Trypeta jucunda Loew 1862[3037]: 3.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605275]

munroi. Madagascar [AF].

Notomma munroi Hancock 1985[1885]: 300.—Madagascar. Toamasina: Moramanga district, Perinet. HT ♂ MNHNP. [6601475]

mutilum. Israel, Mozambique [PA, AF].

Hermannloewia mutila Bezzi 1923[467]: 580.—Mozambique. Gorongosa, Foret d'Inhanconde. HT ♂ MNHNP. [6600371]

Hermannloewia mutila Bezzi 1924[469]: 115.—Mozambique. T A MNHNP. Preocc. Bezzi 1923. [6605069]

Genus NOTOMMOIDES

Notommoides Hancock 1986[1890]: 289, *pallidiseta* Hancock (OD). [6600630]

REF.—Freidberg 1994[1565]: 333 (revision of 2 spp. [AF]).

albida. Cameroon, Gabon [AF].

Notommoides albida Freidberg 1994[1565]: 336.—Cameroon. Northwest: Route N6, Bali-Batibo, W of Bamenda. HT ♂ TAUU. [6605498]

pallidiseta. Mozambique [AF].

Notommoides pallidiseta Hancock 1986[1890]: 292.—Mozambique. Chiluvo Hills, 19° 15'S 34° 04'E. HT ♀ NMBZ. [6601480]

Genus OCHROBAPHA

Ochrobapha Munro 1938[3485]: 168, *pallescens* Munro (OD). [6600151]

pallescens. Zaire [AF].

Ochrobapha pallescens Munro 1938[3485]: 168.—Zaire. Shaba: Kapanga. HT ♀ SANC. [6603604]

Genus OCNERIOXA

Ocnerioxa Speiser 1915[4563]: 103, *pennata* Speiser (OD). [6600105]

REFS—Bezzi 1920[463]: 248 ((*Ocneros*) key to 3 spp. [AF]); Bezzi 1924[469]: 112 (key to 7 spp. [AF]); Bezzi 1924[470]: 491 (key to 2 spp. [AF]); Munro 1967[3521]: 582 (revision of 12 spp. [AF]).

bigemmata. Kenya [AF].

Ocneros bigemmatum Bezzi 1920[463]: 250.—Kenya. Embu. HT ♀ BMNH. [6600347]

capeneri. South Africa [AF].

Ocnerioxa capeneri Munro 1967[3521]: 585.—South Africa. Transvaal: Elandshoek. HT ♂ SANC. [6603845]

cooksoni. Zimbabwe [AF].

Ocnerioxa cooksoni Munro 1967[3521]: 584.—Zimbabwe. N. Vumba. HT ♂ NMP. [6603844]

delineata. Kenya, Tanzania [AF].

Ocnerioxa delineata Hering 1941[2199]: 195.—Tanzania. Ugano. HT ♀ NMW. [6602550]

discreta. Nigeria [AF].

Ocnerioxa discreta Bezzi 1920[463]: 251.—Nigeria. Zungeru. HT ♂ BMNH. [6600348]

interrupta. South Africa [AF].

Ocnerioxa interrupta Bezzi 1924[470]: 491.—South Africa. Natal: Zululand, M'fongosi. HT ♀ SAMCT. [6600394]

lindneri. Kenya, Tanzania [AF].

Ocnerioxa lindneri Munro 1966[3519]: 2.—Kenya. Chyulu Hills, 5200 ft. HT ♂ BMNH. [6603843]

pennata. Nigeria, Uganda, Tanzania, Malawi, Zimbabwe [AF].

Ocnerioxa pennata Speiser 1915[4563]: 103.—Nigeria. Mubi, near Garua. LT ♀ SANC. Lectotype designated by Munro 1967: 586. [6604387]

secata. Cameroon [AF].

Ocnerioxa secata Munro 1957[3510]: 879.—Cameroon. Southwest: Mt. Cameroon, Musake, 6350 ft. HT ♀ BMNH. [6603760]

sinuata. Malawi, South Africa [AF].

Trypeta sinuata Loew 1861[3031]: 263.—Caffrerei [South Africa. probably Natal: between Pietermaritzburg & Durban]. LT ♀ NRS. Lectotype designation by inference of holotype by Munro 1967: 583. [6603063]

Trypeta sinuata Loew 1862[3037]: 3.—Caffraria [South Africa. probably Natal: between Pietermaritzburg & Durban]. LT ♀ NRS. Preocc. Loew 1861; Lectotype designation by inference of holotype by Munro 1967: 583. [6605255]

tumosa. Uganda [AF].

Ocnerioxa tumosa Munro 1967[3521]: 588.—Uganda. Dwoli. HT ♂ BMNH. [6605237]

undata. Malawi [AF].

Ocneros undatus Bezzi 1920[463]: 248.—Malawi. Mlanje: Mt. Mlanje [Sapitwa]. HT ♀ BMNH. [6600346]

woodi. Malawi, Mozambique, Zimbabwe [AF].

Ocnerioxa woodi Bezzi 1918[456]: 14.—Malawi. Limbe, Chiromo, Ruo R. ST ♂ ♀ BMNH. [6600293]

Genus OCNERIOXYNA

Ocnerioxyyna Seguy 1939[4347]: 138, *hemilea* Seguy (OD). [6600106]

Allotrypomyia Cogan & Munro 1980[882]: 535, n. n. *Allotrypes* Bezzi. [6600144]

Allotrypes Bezzi 1920[463]: 251, *brevicornis* Bezzi (OD) = *gracilis* Loew. Preocc. Francois 1904. [6600141]

gracilis. Malawi, South Africa [AF].

Trypeta gracilis Loew 1861[3031]: 270.—Caffrerei [South Africa]. T ♀ NRS? [6603066]

Allotrypes brevicornis Bezzi 1920[463]: 252.—South Africa. Natal: Durban, Umbilo. HT ♀ BMNH. [6600349]

Trypeta gracilis Loew 1862[3037]: 4.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605259]

hemilea. Ethiopia [AF].

Ocnerioxyyna hemilea Seguy 1939[4347]: 139.—Ethiopia. Borana, Javello. T ♂ MNHNP? [6604235]

maripilosa. Uganda, Kenya [AF].

Allotrypes maripilosa Munro 1947[3496]: 92.—Kenya. Nairobi. HT ♂ SANC. [6603684]

Genus *OEDASPIS*

- Oedaspis* Loew 1862[3038]: 46, *Trypeta multifasciata* Loew, Rondani 1870[4204]: 9 (SD). [6600283]
- Dichoedaspis* Hendel 1927[2107]: 83, *Oedaspis villeneuvei* Bezzi, Foote & Freidberg 1981[1524]: 31 (SD). Proposed as a subgenus. [6600285]
- Melanoedaspis* Hendel 1927[2107]: 83, *Oedaspis trotteriana* Bezzi, Foote & Freidberg 1981[1524]: 31 (SD). Proposed as a subgenus. [6600286]
- Oedaspoides* Hendel 1927[2110]: 63, *acuticornis* Hendel (MO). [6600579]
- Tylaspis* Munro 1935[3475]: 31, *Oedaspis maraisi* Munro (OD). Proposed as a subgenus. [6600167]
- Chrysotrypanea* Malloch 1939[3137]: 457, *trifasciata* Malloch (OD). [6600614]
- Munroedaspis* Hering 1940[2185]: 6, *Oedaspis trapezoidalis* Munro (OD). Proposed as a subgenus. [6600168]
- Bulgaroedaspis* Drensky 1943[1211]: 94, *Oedaspis sofanus* Drensky (MO). Proposed as a subgenus. [6600284]
- Embaspis* Munro 1952[3503]: 219, *pauliani* Munro (OD). [6600163]
- Aedaspis* Rondani 1870[4205]: 9, missp. *Oedaspis* Loew. [6600828]
- Oedaspis* Thompson 1907[4807]: 71, missp. *Oedaspis* Loew. [6600895]
- REFS—Bezzi 1910[445]: 20 (key to 5 spp. [PA]); Bezzi 1913[449]: 146 (key to 8 spp. [PA, AF]); Hendel 1927[2107]: 83 (key to 9 spp. [PA]); Shiraki 1933[4432]: 348 (key to 2 spp. [OR, PA: Japan & Taiwan]); Hering 1937[2173]: 249 (key to 2 spp. (supplement to Hendel 1927) [PA]); Munro 1952[3503]: 218 ((*Embaspis* & *Tylaspis*) key to 4 spp. [AF]); Richter 1970[4087]: 147 (key to 2 sp. [PA: sw. Russia]); Freidberg & Kugler 1989[1571]: 65 (key to 2 spp. [PA: Israel & Sinai]); Freidberg & Kaplan 1992[1568]: 58 (revision of 17 spp. [AF]); Bezzi 1920[462]: 7 (key to 10 spp. [PA, AF]); Hardy & Drew 1996[1972]: 263 (revision of 15 spp. [AU: Australia]).
- amani*. Tanzania, Malawi [AF].
Oedaspis amani Freidberg & Kaplan 1992[1568]: 78.—Tanzania. East Usambara, Amani, 1000 m. HT ♀ UZMC. [6605228]
- apicalis*. Australia (NSW, ACT) [AU].
Oedaspis apicalis Hardy & Drew 1996[1972]: 265.—Australia. New South Wales: Clyde Mt. HT ♂ ANIC. [6605916]
- apiciclara*. Australia (NSW) [AU].
Oedaspis apiciclara Hardy & Drew 1996[1972]: 267.—Australia. New South Wales: Snowy Mts., Blue Lake. HT ♂ AMS. [6605917]
- austrina*. Australia (WA, SA) [AU].
Oedaspis austrina Hardy & Drew 1996[1972]: 268.—Australia. South Australia: 33 km. NE Cowell. HT ♂ ANIC. [6605918]
- chinensis*. China [PA].
Oedaspis chinensis Bezzi 1920[462]: 12.—China. Hubei: Hankow. HT ♀ MCSNM. [6600361]
- congoensis*. Zaire [AF].
Oedaspis congoensis Freidberg & Kaplan 1992[1568]: 63.—Zaire. Kivu: PNA [Parc Nat. Virunga], Tshiaberimu, Kirungu, 2720 m. HT ♀ MRAC. [6605218]
- continua*. Australia (WA) [AU].
Oedaspis continua Hardy & Drew 1996[1972]: 270.—Australia. Western Australia: William Bay, W of Denmark. HT ♂ ANIC. [6605919]
- crocea*. South Africa [AF].
Oedaspis crocea Munro 1939[3490]: 151.—South Africa. Cape: Matjesfontein. HT ♂ BMNH. [6603644]
- daphnea*. Morocco [PA].
Oedaspis daphnea Seguy 1930[4339]: 172.—Morocco. El Mers. T ♀ MNHNP. [6604218]
- dichotoma*. sw. Russia, Kazakstan, Mongolia [PA].
Oedaspis dichotoma Loew 1869[3041]: 12.—Russia. Sarepta region. ST ♂ ♀ ZMHU. [6603129]
- dorsocentralis*. Russia (Primorskiy), China (Shanxi, Sichuan) [PA].
Oedaspis dorsocentralis Zia 1938[5309]: 52.—China. Shanxi: Ho-ye-ping-chan [Hoyepingchan], 2630 m. HT ♂ IZAS. [6604859]
- escheri*. Australia (WA, NT, NSW) [AU].
Oedaspis escheri Bezzi 1910[445]: 21.—Australia. New South Wales: Sydney. ST ♂ ETHZ. Also ST in MCSNM (Bezzi 1913: 71); inference of HT by Hardy & Drew 1996: 272 invalid. [6600187]
- Oedaspoides acuticornis* Hendel 1927[2110]: 63.—Australia. New South Wales: Sidney [Sydney]. ST ♂ ♀ ZSZMH. Inference of HT by Hardy & Drew 1996: 272 invalid, no type designated & both sexes mentioned in description. [6602146]
- farinosa*. Algeria? [PA].
Oedaspis farinosa Hendel 1927[2107]: 84.—Probably Algeria. ST ♂ ♀ ZSZMH. [6602150]
- fini*. Kenya [AF].
Oedaspis fini Freidberg 1994[1566]: 171.—n. n. *montana* Freidberg & Kaplan 1992. [6605346]
Oedaspis montana Freidberg & Kaplan 1992[1568]: 68.—Kenya. Mt. Kenya, 1800 m. HT ♀ ZMAN. Preocc. Snow 1894: 163. [6605224]
- fissa*. Spain [PA].
Oedaspis fissa Loew 1862[3038]: 46.—s. Spain. HT ♂ ZMHU. [6603117]
- formosana*. Taiwan [OR].
Oedaspis formosana Shiraki 1933[4432]: 348.—Taiwan. Taito; Rikiriki; Rato. ST ♂ ♀ NTU. [6604299]
- gallicola*. Australia (NSW, Vic.) [AU].
Oedaspis gallicola Hardy & Drew 1996[1972]: 275.—Australia. New South Wales: Corker Lookout, Barrington Tops. HT ♂ ANIC. [6605920]
- goodenia*. Australia (Qld., NSW, Vic.) [AU].
Oedaspis goodenia Hardy & Drew 1996[1972]: 277.—Australia. Victoria: Sherbrook Forest, nr. Ferntree Gully. HT ♂ ANIC. [6605921]
- hardyi*. Australia (NSW) [AU].
Oedaspis hardyi Norrbom 1997[This publication].—n. n. *serrata* Hardy & Drew. **N. Name** [6605959]
Oedaspis serrata Hardy & Drew 1996[1972]: 288.—Australia. New South Wales: Mt. Kaputar National Park. HT ♀ AMS. Preocc. Freidberg & Kaplan 1992. [6605926]
- hyalibasis*. Ethiopia [AF].
Oedaspis hyalibasis Freidberg & Kaplan 1992[1568]: 65.—Ethiopia. Shewa: Debre Libanos. HT ♂ TAU. [6605223]
- inflata*. Madagascar [AF].
Embaspis inflata Munro 1954[3506]: 547.—Madagascar. near Arivonimamo, Imeritsiatosika. HT ♀ SANC. [6603721]
- japonica*. Russia (Primorskiy), Korea, China, Japan [PA].
Oedaspis japonica Shiraki 1933[4432]: 350.—Japan. Tsukumi; & Yoichi. ST ♂ ♀ NTU. [6604300]
Oedaspis japonica f. *brunnea* Ito 1983[2415]: 32.—*Nomen nudum*. Japan. Honshu: Sinano, Kamikoti. HT ♂ UOPJ. Form or variety proposed after 1960. [6604952]
- kaszabi*. Mongolia [PA].
Oedaspis kaszabi Richter 1973[4089]: 463.—Mongolia. Suhbaatar: Ikh-Bulak spring, 9 km. WSW of Dariganga. HT ♀ ZISP. [6604026]

- latifasciata.** Algeria [PA].
Oedaspis latifasciata Hering 1937[2173]: 249.—Algeria. Algiers. HT ♀ ZMHU. [6602267]
- maraisi.** South Africa [AF].
Oedaspis maraisi Munro 1935[3475]: 32.—South Africa. Cape: Middelburg. ST ♂ ♀ SANC. [6603562]
- meissneri.** China (Shanghai) [PA].
Oedaspis meissneri Hering 1938[2180]: 400.—China. Shanghai. HT ♀ BMNH. [6602300]
- mouldsi.** Australia (Qld.) [AU].
Oedaspis mouldsi Hardy & Drew 1996[1972]: 279.—Australia. Queensland: SW of Mossman, 25 km. along Mt. Lewis Road. HT ♂ AMS. [6605922]
- multifasciata.** France, Germany, Spain, Austria, Italy, Ukraine [PA].
Trypeta multifasciata Loew 1850[3025]: 52.—France or Spain. e. Pyrenae [Pyrenees Mts.]. ST ♂ ZMHU. [6603045]
- nyx.** Madagascar [AF].
Oedaspis nyx Freidberg & Kaplan 1992[1568]: 70.—Madagascar. Km. 39 between Ambositra & Ambohimanga du Sud, 1350 m. HT ♀ MNHNP. [6605219]
- olearia.** Australia (NSW, Vic., Tas.) [AU].
Oedaspis olearia Hardy & Drew 1996[1972]: 282.—Australia. Victoria: Mt. Baw Baw. HT ♂ ANIC. [6605923]
- pauliani.** Madagascar [AF].
Embaspis pauliani Munro 1952[3503]: 220.—Madagascar. Central, near Tananarive [Antananarivo], Alasora. HT ♀ MNHNP. [6603713]
- perkinsi.** Australia (Vic.) [AU].
Oedaspis perkinsi Hardy & Drew 1996[1972]: 285.—Australia. Victoria. HT ♂ BMNH. [6605924]
- plucheivora.** Zambia, South Africa [AF].
Oedaspis plucheivora Freidberg & Kaplan 1992[1568]: 79.—South Africa. Bushbuckridge, Culcutta 51. HT ♀ SANC. [6605221]
Oedaspis trapezoidalis: Munro 1940[3492]: 76.—misid. See Freidberg & Kaplan 1992: 79. [6605220]
- quinotata.** Kenya [AF].
Tylaspis quinotata Munro 1939[3489]: 5.—Kenya. Chyulu Hills, 3500 ft. HT ♂ NMKE. [6603637]
- quinquiefasciata.** Canary Is. [PA].
Oedaspis quinquiefasciata Becker 1908[374]: 139.—Canary Is. Tenerife. LT ♂ ZMHU. Lectotype designation by inference of holotype by Merz 1992: 223. [6600132]
Oedaspis heringi Hendel 1927[2107]: 85.—Canary Is. La Palma. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 119. [6602130]
- ragdai.** sw. Russia, Afghanistan [PA].
Oedaspis ragdai Hering 1940[2185]: 5.—Russia. Sarepta? HT ♂ BMNH. [6602436]
- reducta.** Kenya [AF].
Oedaspis reducta Freidberg & Kaplan 1992[1568]: 71.—Kenya. Rt. A104, 15 km. SE Nairobi. HT ♀ TAUI. [6605225]
- reticulata.** Kenya [AF].
Oedaspis reticulata Freidberg & Kaplan 1992[1568]: 73.—Kenya. Rt. A104, 15 km. SE of Nairobi. HT ♀ TAUI. [6605222]
- rusa.** South Africa [AF].
Oedaspis rusa Munro 1935[3475]: 35.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603563]
- semihyalina.** Australia (WA) [AU].
Oedaspis semihyalina Hardy & Drew 1996[1972]: 286.—Australia. Western Australia: 16 km. E Wicherina. HT ♂ ANIC. [6605925]
- serrata.** Kenya, Tanzania [AF].
Oedaspis serrata Freidberg & Kaplan 1992[1568]: 80.—Kenya. 50 km. N Mombasa. HT ♀ TAUI. [6605227]
- Tylaspis trapezoidalis*: Munro 1962[3515]: 451.—misid. See Freidberg & Kaplan 1992: 80. [6605226]
- sofiana.** Bulgaria [PA].
Oedaspis sofianus Drensky 1943[1211]: 95.—Bulgaria. Sofia, Botanical Garden. ST A NMNHs. [6600945]
- trapezoidalis.** Zaire, Tanzania, South Africa [AF].
Oedaspis trapezoidalis Munro 1938[3485]: 167.—Zaire. Shaba: Kapanga. HT ♀ SANC. [6603603]
- trifasciata.** Australia (Vic.) [AU].
Chrysotrypanea trifasciata Malloch 1939[3137]: 457.—Australia. Victoria: Seaford. HT ♀ AMS? HT in ANIC according to Hardy & Drew 1996: 290. [6603362]
- trimaculata.** Australia (WA, NT) [AU].
Oedaspis trimaculata Hardy & Drew 1996[1972]: 292.—Australia. Western Australia: Dongarra. HT ♂ BMNH. [6605927]
- trotteriana.** Morocco, Algeria, Libya, Egypt, Israel [PA].
Oedaspis trotteriana Bezzi 1913[449]: 151.—Libya. Sidi Adb el Kerim, near Tagiura; & Algeria. Tebessa. ST ♀ ETHZ. Other ST possibly in MCSNM. [6600240]
Oedaspis soluta Bezzi 1913[449]: 153.—Libya. Tripoli countryside, Sidi Abd el Kerim, near Tagiura. ST ♀ MCSNM? [6600241]
Oedaspis simplex Bezzi 1913[449]: 154.—Libya. Tripoli countryside, Sidi Abd el Kerim, near Tagiura. ST ♂ MCSNM? [6600242]
- villeneuvei.** Algeria, Libya, Egypt, Israel [PA].
Oedaspis villeneuvei Bezzi 1913[449]: 148.—Algeria. Batna; & Tebessa. ST ♂ ♀ ETHZ. [6600239]
- whitei.** Australia (WA, NT, Vic.) [AU].
Oedaspis whitei Hardy & Drew 1996[1972]: 293.—Australia. Western Australia: Southwest, Brockman Hwy., nr. crossing of Donnelly R. HT ♂ ANIC. [6605928]

Genus *OEDICARENA*

- Oedicarena* Loew 1873[3042]: 247, *Trypeta tetanops* Loew (MO). [6600050]
Rhagoletoides Foote 1960[1490]: 145, *Spilographa latifrons* Wulp (MO). [6600071]
- REFS—Foote 1960[1494]: 114 (key to 2 spp. [NE]); Steyskal & Foote 1977[4656]: 153 (key to 3 spp. [NE]); Norrbom, Ming & Hernandez-Ortiz 1988[3669]: 93 (revision of 5 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 248 (key to 3 spp. [NE: USA]).
- beameri.** USA (Arizona) [NE].
Oedicarena beameri Norrbom & Ming 1988[3668]: 107.—USA. Arizona: Santa Rita Mts. HT ♀ UKaL. [6603926]
- latifrons.** USA & Mexico (Colorado S to Guerrero & Puebla) [NE].
Spilographa latifrons Wulp 1899[5216]: 407.—Mexico. Durango: Ciudad, 8100 ft. HT ♀ BMNH. HT sex misstated by Wulp (Norrbom, Ming & Hernandez-Ortiz 1988:104). [6604784]
Spilographa obfuscata Wulp 1899[5216]: 406.—Mexico. Guerrero: Omilteme, 8000 ft. HT ♂ BMNH. Type data (Norrbom, Ming & Hernandez-Ortiz 1988: 104). [6604783]
- nigra.** Mexico (Durango SE to Morelos & w. cent. Veracruz) [NE].
Oedicarena nigra Hernandez-Ortiz 1988[2238]: 110.—Mexico. Distrito Federal: La Cima. HT ♀ UNAM. [6602755]
- persuasa.** USA (Nebraska, Colorado, Kansas, New Mexico, Texas) [NE].
Trypeta persuasa Osten Sacken 1877[3718]: 344.—USA. Colorado: Denver Co., Denver. LT ♂ MCZ. Lectotype designated by Norrbom, Ming & Hernandez-Ortiz 1988: 113. [6603938]

tetanops. Mexico (Chihuahua SE to Morelos) [NE].
Trypeta tetanops Loew 1873[3042]: 245.—Mexico. ST ♂ ZMHU.
 [6603165]

Genus *OEDONCUS*

Oedoncus Speiser 1924[4564]: 154, *taenipalpis* Speiser (MO).
 [6600164]
Rhynchoedaspis Bezzi 1924[470]: 508, *munroana* Bezzi (OD) =
taenipalpis Speiser. [6600165]

taenipalpis. Tanzania, Malawi, Zimbabwe, Mozambique, South
 Africa [AF].
Oedoncus taenipalpis Speiser 1924[4564]: 155.—Tanzania.
 Kilimanjaro. HT ♀ NRS? [6604392]
Rhynchoedaspis munroana Bezzi 1924[470]: 509.—South Africa.
 Transvaal: Barberton; & Pretoria. ST ♂ ♀ SANC. [6600402]

Genus *OEDOSPHENELLA*

Oedosphe n ella Frey 1936[1585]: 93, *Tephritis canariensis* Mac-
 quart (MO). Proposed as a subgenus. [6600287]

auriella. South Africa [AF].
Oedaspis auriella Munro 1939[3487]: 45.—South Africa. Natal:
 Kloof. HT ♂ SANC. [6603628]
canariensis. Canary Is. [PA].
Tephritis canariensis Macquart 1839[3074]: 117.—Canary Is. ST
 ♀ MNHNP. [6603208]

Genus *ORELLIA*

Orellia Robineau-Desvoidy 1830[4148]: 765, *flavicans* Robineau-
 Desvoidy (MO) = *stictica* Gmelin. [6600288]
Sitarea Robineau-Desvoidy 1830[4148]: 763, *scorzonerae* Ro-
 bineau-Desvoidy, Desmarest 1848[1120]: 643 (SD). [6600322]
Sitaria Walker 1849[4957]: 1012, missp. *Sitarea* Robineau-Des-
 voidy. [6600861]
Orella Forsell 1947[1530]: 167, missp. *Orellia* Robineau-Des-
 voidy. [6600889]

REFS—Hendel 1927[2108]: 130 (key to 12 spp. (obsolete)
 [PA]); Richter 1970[4087]: 153 (key to 3 spp. [PA: e. Europe]);
 Freidberg & Kugler 1989[1571]: 156 (key to 2 spp. [PA: Israel &
 Sinai]); Merz 1994[3343]: 85 (key to 3 spp. [PA]).

falcata. throughout Europe to w. Siberia, Israel & Central Asia [PA].
Musca falcata Scopoli 1763[4331]: 330.—Carniola [Slovenia]. T
 A destroyed. Type data (Thompson & Pont 1993: 38, 74).
 [6604214]
Trypeta lappae Meigen 1826[3306]: 318.—France. near Paris, St.
 Germain; & Germany. Stolberg. ST ♂ ♀ MNHNP. [6603430]
Tephritis abdominalis Robineau-Desvoidy 1830[4148]:
 768.—Germany. T A Dejean. [6604076]
Tephritis octopunctata Macquart 1835[3073]: 466.—n. France. T
 A MNHNP? [6603202]
Orellia falcata ssp. *podolica* Hering 1937[2175]: 109.—Ukraine.
 “Podolien”, Krzywce. ST ♂ ♀ BMNH. [6602286]
Orellia falcata ssp. *uralensis* Hering 1937[2173]: 249.—Russia.
 Orenburgskaya: Orenburg, steppe. HT ♂ ZMHU. [6602268]
Orellia falcata ssp. *compta* Hering 1951[2214]: 11.—Greece.
 Rodi [Rhodes], Egeo. HT ♀ BMNH. [6602651]
scorzonerae. Belgium & France to Ukraine, Caucasus, Afghanistan,
 Mongolia [PA].
Sitarea scorzonerae Robineau-Desvoidy 1830[4148]: 764.—not
 stated [probably France]. ST ♂ ♀ MNHNP (destroyed).
 [6604069]

Trypeta distans Loew 1847[3024]: 373.—France. Paris region. ST
 ♂ ♀ ZMHU. [6603044]

stictica. France & Germany to Bulgaria & Ukraine; Sweden? [PA].
Musca stictica Gmelin 1790[1710]: 2863.—n. n. *punctata*
 Schrank. [6605217]
Orellia flavicans Robineau-Desvoidy 1830[4148]: 765.—France.
 Paris. HT A MNHNP (destroyed). [6604070]
Trypeta intermedia Frauenfeld 1857[1537]: 547.—Not stated
 [probably Germany (see p. 524) or Austria. Vienna area]. ST ♂ ♀
 NMW,ZMHU. [6601305]
Musca punctata Schrank 1781[4313]: 474.—Austria. Viennae
 [Vienna]. T A Unknown. Preocc. Poda 1761. [6604201]

Genus *OREURINUS*

Oreurinus Ito 1984[2417]: 136, *cuspidatus* Ito (MO). [6600451]
Oreurinus Ito 1956[2407]: 24, *Nomen nudum*. [6600797]

cuspidatus. Japan (Hokkaido, Honshu) [PA].
Oreurinus cuspidatus Ito 1984[2417]: 137.—Japan. Honshu:
 Uzen, Koroyu. HT ♀ UOJ. [6602803]
Oreurinus cuspidatus Ito 1956[2407]: 24.—*Nomen nudum*. Pub-
 lished after 1930 without a description. [6604957]

Genus *ORIENTICAE LUM*

Orienticaelum Ito 1984[2416]: 61, *Rioxoptilona femorata* Shiraki
 (OD). [6600443]
Orienticaelum Ito 1956[2407]: 24, *Nomen nudum*. [6600796]

femoratum. Japan (Honshu, Shikoku) [PA].
Rioxoptilona femorata Shiraki 1933[4432]: 309.—Japan. Iwate
 Prefecture. HT ♂ NTU. [6604297]

Genus *ORNITHOSCHEMA*

Ornithoschema Meijere 1914[3319]: 221, *oculatum* Meijere (MO).
 [6600600]
Cycasia Malloch 1942[3143]: 202, *oculata* Malloch (OD) = *mallo-*
chi Hardy. [6600594]

REF.—Permkam & Hancock 1995[3795]: 1182 (revision of 2
 spp. [AU: Australia]).

flavum. Thailand [OR].
Cycasia flava Hardy 1973[1942]: 168.—Thailand. Phuket: Phuket
 I. HT ♂ BBM. [6601563]

mallochi. Guam [AU].
Ornithoschema mallochi Hardy 1992[1968]: 1.—n. n. *oculata*
 Malloch 1942. [6605371]
Ornithoschema pacifica Hancock & Drew 1994[1899]: 26.—n. n.
oculata Malloch 1942. [6605383]
Cycasia oculata Malloch 1942[3143]: 203.—Guam. Mt. Chachao.
 HT ♂ BBM? Preocc. Meijere 1914. [6603372]

oculatum. Indonesia (Java), Malaysia (Sabah), New Britain, Solomon
 Is., Australia (NT) [OR, AU].
Ornithoschema oculatum Meijere 1914[3319]: 221.—Indonesia.
 Java: Batavia [Jakarta]. HT ♀ ZMAN. Type data (Hardy 1987:
 340). [6604938]

queenslandense. Australia (n. Qld.) [AU].
Ornithoschema queenslandense Permkam & Hancock
 1995[3795]: 1183.—Australia. Queensland: Cape York
 Peninsula, Claudie R., 5 mi. W Mt. Lamond. HT ♂ AMS.
 [6605869]

Genus OROTAVA

Orotava Frey 1936[1585]: 93, *Sphenella caudata* Becker (OD) = *cribrata* Bigot. [6600291]

REF.—Korneyev 1990[2736]: 398 (key to 2 spp. [PA, OR]).

cribrata. Canary Is. [PA].

Tephritis cribrata Bigot 1892[510]: 277.—Canary Is. Canaria [Gran Canaria], Station No. 5. HT ♀ UMO. Type data (Munro 1957: 20). [6600560]

Sphenella caudata Becker 1908[374]: 140.—Canary Is. Tenerife: Laguna. HT ♂ ZMHU. Synonymy questionable (Munro 1957: 20). [6600134]

hamula. Japan (Honshu, Kyushu), Indonesia (Java) [PA, OR].

Tephritis hamulus Meijere 1914[3319]: 219.—Indonesia. Java: Nongkodjadjar. ST ♂ ♀ ZMAN. Type data (Hardy 1988: 34). [6604935]

Paratephritis naucina Hering 1952[2218]: 288.—Indonesia. e. Java: Idjen, Ongop-Ongop, 1850 m. HT ♂ RNH. [6602686]

Paratephritis senecionis Ito 1953[2406]: 22.—Japan. Honshu: Settu, Nose. HT ♂ UOPJ. [6602777]

Genus ORTALOPTERA

Ortaloptera Edwards 1915[1290]: 419, *cleitamina* Edwards (MO). [6600547]

callistomyia. Indonesia (Irian Jaya); Papua New Guinea [AU].

Ortaloptera callistomyia Hering 1941[2196]: 11.—Papua New Guinea: Kaiserin Augusta [Sepik] R. Expedition, April R., base camp. HT ♀ ZMHU. [6602508]

cleitamina. Indonesia (Irian Jaya) [AU].

Ortaloptera cleitamina Edwards 1915[1290]: 420.—Indonesia. Irian Jaya: Mimika River. HT ♀ BMNH. [6601126]

Genus ORTALOTRYPETA

Ortalotrypeta Hendel 1927[2107]: 55, *idana* Hendel (OD). [6600292]

REFS—Hendel 1927[2107]: 55 (key to 2 spp. [PA]); Norrbom 1994[3662]: 8 (key to 8 spp. [PA, OR]).

gansuica. China (Gansu) [PA].

Ortalotrypeta gansuica Zia 1938[5309]: 13.—China. Gansu: Ma-ho-shan [Maxianshan]. HT ♂ IZAS. [6604844]

gigas. China (Sichuan) [PA].

Ortalotrypeta gigas Hendel 1927[2107]: 55.—China. Sichuan: Mt. Omei [Emei Shan]. LT ♂ USNM. Lectotype designated by Norrbom 1994: 9. [6602135]

idana. China (Sichuan, Gansu) [PA].

Ortalotrypeta idana Hendel 1927[2107]: 56.—China. Sichuan: Tatsienlu, 8500-13000 ft. LT ♂ USNM. Lectotype designated by Norrbom 1994: 9. [6602140]

idanina. China (Sichuan) [PA].

Ortalotrypeta idanina Zia 1963[5313]: 634.—China. Sichuan: Omei Shan [Emei Shan], 1800-1900 m. HT ♂ IZAS. [6604867]

isshikii. Japan (Honshu, Kyushu, Shikoku); Nepal? [PA].

Hexachaeta isshikii Matsumura 1916[3220]: 419.—Japan. Honshu: Yamato-Odaigahara. LT ♂ HUS. Lectotype designation by inference of holotype by Shiraki 1933: 317. [6603388]

Acroceratis undulata Shinji 1940[4428]: 163.—Japan. Honshu: Morioka. T ♀ Shinji. [6604256]

Acroceratis undulata Shinji 1940[4429]: 195.—Japan. Honshu: Morioka. T ♀ Shinji. Preocc. Shinji 1940: 163. [6605280]

singula. China (Sichuan) [PA].

Ortalotrypeta singula Wang 1989[4989]: 360.—China. Sichuan: Mt. Emei [Emei Shan] (29°30'N, 103°18'E). HT ♀ IZAS. [6604689]

tibeta. China (Xizang) [PA].

Ortalotrypeta tibeta Wang 1989[4989]: 360.—China. Xizang: Yigong (30°N, 96°30'E), 2300 m. HT ♀ IZAS. [6604690]

trypetoides. China [PA].

Ortalotrypeta trypetoides Chen 1948[814]: 119.—China. Sikong, Kongting. HT A IZAS. Described from both sexes, but sex of HT not specified. [6600717]

ziae. Taiwan [OR].

Ortalotrypeta ziae Norrbom 1994[3662]: 9.—Taiwan. Musha. HT ♂ USNM. [6605333]

Genus ORTHOCANTHOIDES

Orthocanthoides Freidberg 1987[1562]: 554, *aristae* Freidberg (OD). [6600667]

aristae. Kenya [AF].

Orthocanthoides aristae Freidberg 1987[1562]: 555.—Kenya. Mt. Kenya, Meteorological Station, Naro Moro track, 3000-3300 m. HT ♀ TAUI. [6601341]

Genus OSTRACOCOELIA

Ostracocoelia Giglio-Tos 1893[1685]: 10, *mirabilis* Giglio-Tos (MO). [6600051]

Ceratioedaspis Aczel 1953[24]: 111, *palpalis* Aczel (OD). [6600015]

mirabilis. Mexico (Chihuahua, Sinaloa & Veracruz) S to Costa Rica [NE, NT].

Ostracocoelia mirabilis Giglio-Tos 1893[1685]: 11.—Mexico. T ♀ IMZ. [6601407]

palpalis. Guatemala [NT].

Ceratioedaspis palpalis Aczel 1953[24]: 111.—Guatemala. Yepocapa. HT ♂ USNM. [6600017]

Genus OTHNIOCERA

Othniocera Hardy 1986[1962]: 87, *pictipennis* Hardy (OD). [6600518]

REF.—Hardy 1986[1962]: 88 (key to 3 spp. [AU: New Guinea]).

aberrans. Papua New Guinea [AU].

Othniocera aberrans Hardy 1986[1962]: 88.—Papua New Guinea. Morobe: near Bulolo, Gumi. HT ♀ BBM. [6601808]

pallida. Papua New Guinea [AU].

Othniocera pallida Hardy 1986[1962]: 89.—Papua New Guinea. Morobe: S of Wau, Bulldog Rd., 2700-2950 m. HT ♂ BBM. [6601809]

pictipennis. Papua New Guinea [AU].

Othniocera pictipennis Hardy 1986[1962]: 90.—Papua New Guinea. Morobe: near Bulolo, Gumi. HT ♂ BBM. [6601810]

Genus OXYACIURA

Oxyaciura Hendel 1927[2107]: 111, *Aciura tibialis* Robineau-Desvoidy (OD). [6600293]

Pristaciura Hendel 1928[2111]: 366, *incisa* Hendel (OD) = *xanthotricha* Bezzi. [6600434]

Indaciura Hering 1942[2206]: 283, *Aciura formosae* Hendel (OD). [6600433]

REFS—Bezzi 1913[448]: 149 ((*Aciura*) key to 2 spp. [OR: India]); Hardy 1973[1942]: 311 ((*Indaciura*) key to 2 spp. [OR]); Kapoor 1993[2600]: 55 ((*Indaciura*) key to 2 spp. [OR: India]).

formosae. Japan (Ryukyu Is.), Taiwan [OR].

Aciura formosae Hendel 1915[2105]: 460.—Taiwan. Takao. HT ♂ MNM. [6602105]

monochaeta. India (Jammu & Kashmir to W. Bengal), Nepal, Sri Lanka [OR].

Aciura monochaeta Bezzi 1913[448]: 150.—India. W. Bengal: Calcutta. HT ♀ ZSI. [6600222]

tibialis. s. Europe & North Africa to Kazakstan, Afghanistan & Ethiopia [PA, AF].

Aciura tibialis Robineau-Desvoidy 1830[4148]: 773.—Spain. T A Dejean. [6604084]

Trypeta gagates Loew 1846[3021]: 505.—Italy. Sicily: near Messina; & Austria. Steiermark. ST ♀ ZMHU? [6603038]

Aciura gagatea Becker 1905[370]: 109.—missp. *gagates* Loew. [6605619]

Aciura femoralis: Becker 1908[374]: 136.—misid. See Merz 1992: 222. [6605436]

xanthotricha. India, Sri Lanka, Burma, Thailand, Vietnam, Indonesia (Java) [OR].

Aciura xanthotricha Bezzi 1913[448]: 151.—India. Uttar Pradesh: w. Himalayas, Gharwal District, Dhikata. HT ♀ ZSI. [6600223]

Pristaciura incisa Hendel 1928[2111]: 368.—Ceylon [Sri Lanka]. HT ♀ DEI. [6602195]

Aciura kashmirica Zaka-ur-Rab 1977[5282]: 86.—India. Jammu & Kashmir: Wadura, Sopore, Agriculture College campus. HT ♂ Zaka-Rab. [6604824]

Genus OXYNA

Oxya Robineau-Desvoidy 1830[4148]: 755, *flavescens* Robineau-Desvoidy, Hendel 1914[2104]: 96 (SD) = *flavipennis* Loew. Designations of *Musca parietina* L. & *Tephritis punctella* Fallen by Rondani 1856: 110, 1870: 8 invalid, not originally included species. [6600294]

Sinoxyna Chen 1938[811]: 84, *notabilis* Chen (OD) = *variabilis* Chen. [6600321]

Grandoxyna Dirlbek & Dirlbek 1971[1147]: 16, *gilva* Dirlbek & Dirlbek (OD) = *variabilis* Chen. [6600251]

Oxina Rondani 1856[4195]: 110, missp. *Oxya* Robineau-Desvoidy. [6600985]

REFS—Hendel 1927[2108]: 164 (key to 8 spp. [PA]); Quisenberry 1949[3991]: 71 (revision of 3 spp. [NE]); Richter 1970[4087]: 160 (key to 7 spp. [PA: e. Europe]); Foote & Blanc 1963[1521]: 40 (key to 3 spp. [NE]); White 1988[4235]: 47 (key to 3 spp. [PA: Britain]); Freidberg & Kugler 1989[1571]: 106 (key to 2 spp. [PA: Israel & Sinai]); Korneyev 1990[2736]: 404 (key to 17 spp. [PA: e. Palearctic]); Foote, Blanc & Norrbom 1993[1523]: 259 (key to 3 spp. [NE]); Merz 1994[3343]: 54 (key to 3 spp. [PA: cent. Europe]).

albipila. sw. Russia to w. Kazakstan [PA].

Oxya albipila Loew 1869[3041]: 17.—Russia. Sarepta region. ST ♂ ♀ ZMHU. [6603136]

albofasciata. China (Gansu), Russia (Amurskaya, Primorskiy) [PA].

Oxya albofasciata Chen 1938[811]: 99.—China. se. Gansu: Mi-tching-ngai. HT ♂ IZAS. [6600701]

Oxya pulla Hering 1940[2189]: 14.—China. Manchuria, Ertsentientze. HT ♂ BMNH. [6602445]

amurensis. e. Russia, China, Korea, Japan [PA].

Oxya amurensis Hendel 1927[2108]: 165.—Russia. Amur Region. ST ♂ ♀ NMW. Type data (Hardy 1968: 119). [6602160]

Campiglossa incerta Chen 1938[811]: 120.—China. se. Gansu: Cheu-mann [Yumen]. HT ♀ IZAS. [6600666]

Campiglossa intermedia Chen 1938[811]: 118.—China. se. Gansu: Cheu-menn [Yumen]. HT ♀ IZAS. [6600665]

aterrima. Canada (Alberta, Saskatchewan), USA (Oregon, Utah, California, Colorado) [NE].

Eurosta aterrira Doane 1899[1189]: 187.—USA. Colorado. HT ♀ WSU. Type data (Foote 1966: 122, Zack 1984: 32). [6600925]

distincta. China (Hebei) [PA].

Oxya distincta Chen 1938[811]: 105.—China. n. Hebei: Pai-ta. ST ♂ ♀ IZAS. [6600658]

dracunculina. Kazakstan, Kirghizia, Mongolia [PA].

Oxya dracunculina Richter 1990[4095]: 394.—n. n. *dracunculi* Richter 1964. [6604038]

Oxya dracunculi Richter 1964[4082]: 288.—Kazakstan. Karaganda Reg., Mt. Aktau, 90 km. S Zhana-Arka. HT ♂ ZISP. Preocc. Rondani 1870. [6604021]

fenestrata. Denmark [PA].

Tephritis fenestrata Zetterstedt 1847[5301]: 2242.—Denmark. HT ♂ UZMC? HT not in ZIL (Persson 1958: 116). [6604826]

flavipennis. Britain & Scandinavia S to n. Italy, Bulgaria & Caucasus, E to Mongolia [PA].

Trypeta flavipennis Loew 1844[3020]: 368.—n. n. *flavescens* Robineau-Desvoidy 1830. [6603007]

Oxya flavescens Robineau-Desvoidy 1830[4148]: 756.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). Preocc. Fabricius 1798 (u & v identical for purpose of homonymy). [6604056]

Acinia laticauda: Walker 1835[4955]: 76.—misid. See Loew 1844: 368, Hendel 1927: 166. [6605643]

fusca. China (Gansu), Russia (Primorskiy) [PA].

Oxya fusca Chen 1938[811]: 103.—China. se. Gansu: Pei-la-hia. ST ♂ ♀ IZAS. [6600657]

guttatofasciata. Kazakstan, w. & se. Siberia, Mongolia, China (Manchuria) [PA].

Trypeta guttatofasciata Loew 1850[3025]: 55.—Russia. Siberien [Siberia]. ST ♀ ZMHU? [6603048]

Trypeta guttato-fasciata Loew 1850[3025]: 55.—incosp. *guttato-fasciata* Loew. Automatic correction under Art. 32(d). [6605644]

longicauda. Mongolia [PA].

Oxya longicauda Korneyev 1990[2736]: 418.—Mongolia. Hovsgol: N of S Hangai, sw. shore of Hovsgol Nuur, 1650 m. HT ♀ MNM. [6602896]

lutulenta. sw. Russia, Kazakstan, Mongolia [PA].

Oxya lutulenta Loew 1869[3041]: 17.—Russia. Sarepta region. ST ♂ ♀ ZMHU. [6603137]

nasuta. Ukraine to Kazakstan [PA].

Oxya nasuta Hering 1936[2166]: 60.—Ukraine. “Ubieczowa Kr. Zaleszczyki”. HT ♀ BMNH. [6602233]

nebulosa. Britain & Finland S to France, Italy, Bulgaria & Ukraine, Israel [PA].

Tephritis nebulosa Wiedemann 1817[5130]: 76.—Germany. Holstein. ST ♂ ♀ ZMHU. White 1986: 150 reported no ST in NMW or UZMC. [6604708]

Trypeta proboscidea Loew 1844[3020]: 371.—Poland. Schlesien [Silesia]; & Graftschaft Glatz [Klodzko]. ST A ZMHU? ST apparently lost except 1 wing slide in BMNH (White 1986: 150); described from females or both sexes. [6603008]

Oxya cribrina Rondani 1870[4206]: 128.—Italy. colle ditionis parmensis [hills around Parma]. ST ♂ ♀ MZLS? [6604140]

Oxya corticina Rondani 1870[4206]: 127.—Italy. colle sub-apennino [foothills of Apennine Mts.]. HT ♂ MZLS? [6604139]

Trypeta nigrofemorata Meigen 1838[3308]: 355.—n. n. *femoralis* Robineau-Desvoidy 1830. [6603454]

- Oxyna femoralis* Robineau-Desvoidy 1830[4148]: 756.—France. Paris. ST ♂ ♀ MNHNP (destroyed). Preocc. Robineau-Desvoidy 1830: 770 (both in *Trypeta* in Meigen 1838). [6604058]
Oxyna proboscidea Becker 1905[370]: 134.—missp. *proboscidea* Loew. [6605625]
Oxyna cinerea: Rondani 1870[4206]: 128.—misid. [6605510]
obesa. Spain, Iran [PA].
Oxyna obesa Loew 1862[3038]: 87.—Spain. T ♀ ZMHU. [6603120]
palpalis. USA & Mexico (Washington & Wyoming S to Baja California & Utah) [NE].
Tephritis palpalis Coquillett 1904[958]: 30.—USA. Nevada: Ormsby Co. HT ♂ USNM. [6600804]
parietina. Britain & Finland S to France, Bulgaria & Kazakstan [PA].
Musca parietina Linnaeus 1758[2981]: 599.—Europe. T A LSL. ST apparently lost (White 1987:104). [6602990]
Oxyna cinerea Robineau-Desvoidy 1830[4148]: 755.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604055]
Tephritis fulvimaculata Shinji 1939[4424]: 352.—Japan. Honshu: near Morioka, Kuriyagawa. HT A Shinji. [6604254]
Tephritis pantherina Fallen 1820[1383]: 10.—emend. *parietina* Linnaeus. [6601248]
Trypeta proboscidea: Schiner 1858[4294]: 669.—misid. See Hendel 1927: 168. [6605645]
Oxyna nebulosa: Collin 1947[900]: 13.—misid. See White 1986: 150. [6605646]
parva. China (Jilin) [PA].
Oxyna parva Chen 1938[811]: 101.—China. Kirin [Jilin]. HT ♀ IZAS. [6600656]
stackelbergi. e. Russia (Primorskiy) [PA].
Oxyna stackelbergi Korneyev 1990[2736]: 408.—Russia. Primorskiy: “Maikhe bl. Shkotova”. HT ♀ ZISP. [6602894]
superflava. Egypt (Sinai) [PA].
Oxyna superflava Freidberg 1974[1549]: 54.—Egypt. s. Sinai, Mt. Katharina, near the top, 2400 m. HT ♂ TAUI. [6601319]
tarbagatajensis. Kazakstan [PA].
Oxyna tarbagatajensis Korneyev 1990[2736]: 415.—Kazakstan. Semipalatinsk, Tarbagata Range, s. slope Mt. Zhalauly, 2200-2400 m. HT ♀ ZISP. [6602895]
tianshanica. Kirghizia [PA].
Oxyna tianshanica Korneyev 1990[2736]: 419.—Kirghizia. near Przhivalska, Pokrovka. HT ♀ ZMM. [6602897]
utahensis. Canada & USA (s. British Columbia E to Wyoming, S to California & n. Arizona) [NE].
Oxyna utahensis Quisenberry 1949[3991]: 73.—USA. Utah: Temple Fork, Logan Canyon. HT ♂ AMNH. [6604014]
variabilis. Mongolia, Russia (Chitinskaya, Amurskaya), China (Hebei) [PA].
Oxyna variabilis Chen 1938[811]: 97.—China. Hebei: Wei-chang [Weichang]. ST ♂ ♀ IZAS. [6600700]
Sinoxyna notabilis Chen 1938[811]: 86.—China. Hebei: Kao-tchoang. HT ♀ IZAS. [6600696]
Grandoxyna gilva Dirlbek & Dirlbek 1971[1147]: 17.—Mongolia. Tov: Nucht, Lok. Nr. 3-4 [15 km. SSW of Ulaanbaatar]. HT ♀ NMPC. [6600897]

Genus OXYPARNA

- Oxyparna* Korneyev 1990[2736]: 421, *Oxyna diluta* Becker (OD). [6600786]
 REF.—Korneyev 1990[2736]: 422 (key to 2 spp. [PA]).

- diluta**. Kirghizia, Tadzhikistan, Mongolia, China [PA].
Oxyna diluta Becker 1908[373]: 289.—China. Turkestan, Gaschun-Gobi, Danche R. S of Satschou. ST ♂ ♀ ZISP. Also ST in ZMHU. [6600122]
melanostigmata. Kirghizia, Mongolia [PA].
Oxyparna melanostigmata Korneyev 1990[2736]: 422.—Kirghizia. Kaingdy-Katta Range, Kaingdy R., 5 km. below Tashkoroo. HT ♂ UASK. [6602898]

Genus OXYPHORA

- Oxyphora* Robineau-Desvoidy 1830[4148]: 757, *pyrethri* Robineau-Desvoidy, Foote & Freidberg 1981[1524]: 32 (SD). Unrecognized, see Foote & Freidberg 1981: 32. [6600295]
pyrethri. France? [PA].
Oxyphora pyrethri Robineau-Desvoidy 1830[4148]: 757.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). Unrecognized. [6604060]

Genus PAEDOHEXACINIA

- Paedohexacinia* Hardy 1986[1962]: 92, *flavithorax* Hardy (OD). [6600519]
 REF.—Permkam & Hancock 1995[3795]: 1106 (revision of 2 spp. [AU: Australia]).

- clusiosomopsis**. Papua New Guinea, Australia (n. Qld.) [AU].
Paedohexacinia clusiosomopsis Hardy 1986[1962]: 92.—Papua New Guinea. Central: Laloki [9°24'S 147°18'E]. HT ♂ BBM. [6601811]
flavithorax. Papua New Guinea, Australia (Qld.) [AU].
Paedohexacinia flavithorax Hardy 1986[1962]: 93.—Papua New Guinea. Milne Bay: Woodlark I. (Murua), Kulumadau Hill. HT ♂ BBM. [6601812]

Genus PANGASELLA

- Pangasella* Richter 1995[4096]: 224, *volkovitshi* Richter (OD). [6600989]
volkovitshi. Tadzhikistan [PA].
Pangasella volkovitshi Richter 1995[4096]: 225.—Tadzhikistan. Khodzhen: Kuraminskiy Mts., Pangaz R., 10 km. upstream of Pangaz, Fergana, 1800 m. HT ♂ ZISP. [6605805]
Pangasella volkovitschi Richter 1996[4097]: 24.—missp. *volkovitshi* Richter. [6605991]

Genus PARAACTINOPTERA

- Paraactinoptera* Hardy & Drew 1996[1972]: 299, *collessi* Hardy & Drew (OD). [6601010]
collessi. Australia (WA) [AU].
Paraactinoptera collessi Hardy & Drew 1996[1972]: 301.—Australia. Western Australia: 4 mi. SSE of Minilya. HT ♂ ANIC. [6605929]

Genus PARACANTHA

- Paracantha* Coquillett 1899[953]: 264, *Trypeta culta* Wiedemann (OD). Suspension of I.C.Z.N. rules required to validate usage. [6600052]
Scriptotricha Cockerell 1889[867]: 1, *Trypeta culta* Wiedemann (MO). In interest of stability, authors reject this valid prior name; available, Cockerell 1900: 400 in error. [6600892]
Neorhabdochaeta Malloch 1941[3141]: 124, *anduzei* Malloch (OD). **N. Syn.** [6600048]

REFS—Hering 1940[2187]: 53 (key to 6 spp. [NE, NT]); Malloch 1941[3140]: 33 (key to 6 spp. [NE, NT]); Foote & Blanc 1963[1521]: 41 (key to 3 spp. [NE: USA: California]) Foote, Blanc & Norrbom 1993[1523]: 264 (key to 5 spp. [NE: USA & Canada]); Aczel 1952[17]: 199 (revision of 10 spp. [NE, NT]).

australis. Argentina (Jujuy, Misiones), Uruguay [NT].

Paracantha australis Malloch 1933[3130]: 271.—Argentina. Misiones: Bompland [Bonpland]. HT ♀ BMNH. [6603277]

culta. Canada & USA (s. Alberta E to Indiana, S to Colorado & s. Texas; coastal plain, Delaware S to Mississippi; Arizona?) [NE]. *Trypeta culta* Wiedemann 1830[5136]: 683.—USA. Georgia: Savannah. T ♀ NMW. [6604757]

Acinia fimbriata Macquart 1843[3076]: 385.—USA. “Carolinas”. T ♂ MHNLI. No ST now in MHNLI, 1 possible ST in MNHNP. [6603224]

Trypeta sarnia Walker 1849[4957]: 1029.—Unknown [probably USA]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 223. [6604569]

Trypeta cutta Wiedemann 1830[5136]: 486.—incosp. *culta* Wiedemann. Wiedemann 1830: 683 (FR). [6604731]

Acinia fimbriata Malloch 1941[3140]: 35.—missp. *fimbriata* Macquart. [6605549]

cultaris. Canada & USA (N to Washington, Manitoba, Nebraska & Texas) S to Costa Rica [NE, NT].

Trypeta cultaris Coquillett 1894[948]: 72.—USA. southern California [Los Angeles Co.]. ST ♂ ♀ USNM. [6600759]

Paracantha cultaris Malloch 1933[3130]: 271.—missp. *cultaris* Coquillett. [6605603]

Carphotricha culta: Wulp 1900[5219]: 422.—misid. (in part). [6605561]

dentata. Peru [NT].

Paracantha dentata Aczel 1952[17]: 224.—Peru. Huancabamba. HT ♀ USNM. [6600010]

forficula. USA (coastal plain, North Carolina, South Carolina, Florida, Texas) [NE].

Paracantha forficula Benjamin 1934[398]: 31.—USA. Florida: Cocoa Beach. HT ♂ USNM. [6600161]

genalis. Canada to Mexico (British Columbia E to South Dakota & Texas, S to Baja California, Morelos & Veracruz) [NE].

Paracantha genalis Malloch 1941[3140]: 40.—USA. California: Halfmoon Bay. HT ♂ USNM. [6603367]

Paracantha culta: Lange 1941[2856]: 56.—misid. (in part). [6605573]

gentilis. Canada & USA (s. British Columbia, Montana, Nebraska & Texas), S to Costa Rica [NE, NT].

Paracantha gentilis Hering 1940[2187]: 53.—USA. Wyoming: Hunter’s Creek. ST ♂ ♀ BMNH. [6602456]

Paracantha mimetica Malloch 1941[3140]: 41.—USA. Oregon: Alsea Mt., 1000 ft. HT ♂ USNM. [6603369]

Paracantha mimetica var. *elongata* Malloch 1941[3140]: 41.—USA. New Mexico: Koebler [Koehler]. HT ♂ USNM. [6603368]

Paracantha mexicana Malloch 1941[3140]: 41.—Mexico. Guanajuato: Guanajuato. HT ♂ USNM. [6603370]

Paracantha sobrina Hering 1940[2187]: 52.—Costa Rica. 8 km. W of San Jose, Farm La Caja. HT ♀ DEI. N. Syn. [6602455]

Carphotricha culta: Wulp 1900[5219]: 422.—misid. (in part). [6605562]

haywardi. Bolivia, Argentina (Salta) [NT].

Paracantha haywardi Aczel 1952[17]: 237.—Argentina. Salta: Cerro San Bernardo. HT ♂ IML. [6600011]

multipuncta. Peru, Chile [NT].

Paracantha multipuncta Malloch 1941[3140]: 38.—Peru. HT ♀ USNM. [6603366]

ruficallosa. Costa Rica, Panama, Venezuela [NT].

Paracantha ruficallosa Hering 1937[2172]: 301.—Costa Rica. 8 km. W of San Jose, Farm La Caja. HT ♀ ZSZMH. [6602296]

Neorhabdochaeta anduzei Malloch 1941[3141]: 124.—Venezuela. Carabobo: Valle Seco. HT ♂ USNM. N. Syn. [6603365]

Genus PARACANTHELLA

Paracanthella Hendel 1927[2107]: 22, *Carphotricha pavonina* Portschinsky, Hendel 1927[2108]: 205 (SD). [6600296]

guttata. Mongolia, China (Nei Mongol) [PA].

Paracanthella guttata Chen 1938[811]: 166.—China. Nei Mongol: Ordos, Tou-Keou. HT ♂ IZAS. [6600689]

pavonina. Bulgaria & Russia (w. Siberia) to Central Asia [PA].

Carphotricha pavonina Portschinsky 1875[3875]: 34.—Russia. environs of city of Astrakhan. T ♂ ZISP? [6603998]

Carphotricha pavonia Becker 1905[370]: 129.—missp. *pavonina* Portschinsky. [6605647]

Genus PARACANTHONEVRA

Paracanthonevra Hardy 1974[1943]: 73, *boettcheri* Hardy (OD). [6600360]

boettcheri. Philippines (Luzon) [OR].

Paracanthonevra boettcheri Hardy 1974[1943]: 73.—Philippines. Luzon, Quezon: Antimonan [Atimonan, 14°0’N 121°55’E]. HT ♀ UZMH. [6601670]

dubia. Philippines (Mindanao) [OR].

Paracanthonevra dubia Hardy 1974[1943]: 75.—Philippines. Mindanao, Dapitan. HT ♂ USNM. [6601671]

Genus PARACERATITELLA

Paraceratitella Hardy 1967[1936]: 138, *oblonga* Hardy (OD). [6600570]

REFS—Hardy 1987[1963]: 342 (key to 4 spp. [AU]); Permkam & Hancock 1995[3794]: 1338 (key to 4 spp. [AU]).

compta. Papua New Guinea (Central), Australia (Qld.) [AU].

Paraceratitella compta Hardy 1987[1963]: 342.—Papua New Guinea. Central: Konedobu. HT ♂ BBM. [6601838]

connexa. Solomon Is. (Guadalcanal) [AU].

Paraceratitella connexa Hardy 1987[1963]: 344.—Solomon Is. Guadalcanal I.: Kukum, 10 m. HT ♂ BBM. [6601839]

eurycephala. Australia (WA, NT, Qld., NSW) [AU].

Paraceratitella eurycephala Hardy 1967[1936]: 140.—Australia. Queensland: Gatton. HT ♀ QMBA. [6601512]

oblonga. Australia (Qld.) [AU].

Paraceratitella oblonga Hardy 1967[1936]: 143.—Australia. Queensland: Iron Range. HT ♀ ANIC. [6601513]

Genus PARACHLAENA

Parachlaena Hering 1944[2210]: 3, *Rhacochlaena greenwoodi* Bezzi (OD). [6600548]

greenwoodi. Fiji [AU].

Rhacochlaena greenwoodi Bezzi 1928[478]: 110.—Fiji. Viti Levu: Loloti [Loloti Creek, 17°51’S 177°42’E]. HT ♂ BMNH. [6600537]

Genus PARACIURA

- Paraciura* Hering 1942[2206]: 284, *Aciura perpicillaris* Bezzi (OD). [6600176]
Biretmus Munro 1947[3496]: 134, *Aciura perpicillaris* Bezzi (OD). [6600177]

- perpicillaris.** Ghana, Ethiopia, Zaire, Uganda, Kenya, Madagascar [AF].
Aciura perpicillaris Bezzi 1920[463]: 253.—Kenya. Embu; Ghana. Aburi. ST ♂ ♀ BMNH. [6600350]

Genus PARACRISTOBALIA

- Paracristobalia* Hardy 1987[1963]: 345, *polita* Hardy (OD). [6600601]

- REF.—Hardy 1987[1963]: 346 (key to 3 spp. (2 undescribed) [AU]).

- polita.** Papua New Guinea (Western Highlands, Morobe) [AU].
Paracristobalia polita Hardy 1987[1963]: 346.—Papua New Guinea. Western Highlands: Mt. Hagen, 1600 m. HT ♂ BBM. [6601840]

Genus PARADESIS

- Paradesis* Hancock 1986[1891]: 26, *Urellia auguralis* Bezzi (OD). [6600637]

- REFS—Bezzi 1918[456]: 41 ((*Trypanea*) key to 3 spp. [AF]); Bezzi 1924[472]: 140 ((*Trypanea*) key to 3 spp. [AF]).

- augur.** Israel, Saudi Arabia, Egypt, Sudan, Cape Verde Is.; Iran, Eritrea? [PA, AF].
Trypeta augur Frauenfeld 1857[1537]: 557.—Egypt. Sinai Peninsula, nearest “Tor”. ST ♂ ♀ NMW. [6601309]
Trypanea ensina Hendel 1927[2108]: 200.—Egypt. Luxor. HT ♂ NMW. Type data (Hardy 1968: 127). [6602170]
Trypanea kingi Bezzi 1924[472]: 145.—Sudan. Kodroko. ST ♂ ♀ BMNH. [6600498]
Trypanea rostrata Hendel 1931[2113]: 11.—Sudan. Darfur: Wadi Beida [Bayda]. HT ♂ ESEE? [6602197]

- auguralis.** Eritrea, Zimbabwe [AF].
Urellia auguralis Bezzi 1908[443]: 163.—Eritrea. vic. Adi Caie. ST ♂ ♀ MZLS. [6600179]

- bomolina.** Tanzania [AF].
Trypanea hexapoda var. *bomolina* Speiser 1924[4564]: 154.—Tanzania. Bomole. HT A (HT destroyed prior to publication of description (Speiser 1924: 15)). [6604391]

- hexapoda.** Ghana [AF].
Trypanea hexapoda Bezzi 1918[456]: 43.—Ghana. Aburi. HT ♀ BMNH. [6600308]

- inundans.** Uganda, Kenya [AF].
Dectodesis inundans Munro 1957[3510]: 1045.—Kenya. Aberdare Range, Nyeri Track, 10500 ft. HT ♂ BMNH. [6603748]

Genus PARAEUPHRANTA

- Paraeuphranta* Hardy 1959[1933]: 173, *Dacus furcifer* Walker (OD). [6600576]

- furcifer.** Indonesia (Maluku) [AU].
Dacus furcifer Walker 1861[4972]: 14.—Indonesia. Maluku: Gilolo [Djailolo]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 174. [6604653]

Genus PARAFREUTRETA

- Parafreutreta* Munro 1929[3460]: 396, *Camaromyia conferta* Bezzi (OD). [6600166]

- REF.—Munro 1939[3491]: 156 (key to 6 spp. [AF]).

- bevisi.** South Africa [AF].
Afreutreta bevisi Munro 1935[3470]: 5.—South Africa. Natal: Durban, Umbilo. HT ♀ SANC. [6603572]
conferta. South Africa [AF].

- Camaromyia conferta* Bezzi 1926[476]: 293.—South Africa. Cape: East London. ST ♂ ♀ SANC. [6600526]

- felina.** South Africa [AF].
Parafreutreta hirta var. *felina* Munro 1939[3491]: 162.—South Africa. Cape: Katberg. HT ♀ BMNH. [6603631]

- fluvialis.** South Africa [AF].
Parafreutreta fluvialis Munro 1940[3492]: 79.—South Africa. Natal: Umgeni River, Howick. HT ♀ SANC. [6603647]

- foliata.** South Africa [AF].
Parafreutreta foliata Munro 1939[3491]: 160.—South Africa. Natal: Zululand, St. Lucia Lake. HT ♂ SANC. [6603629]

- hirta.** South Africa [AF].
Parafreutreta hirta Munro 1939[3491]: 161.—South Africa. Natal: Durban. HT ♂ SANC. [6603630]

- leonina.** Kenya [AF].
Parafreutreta leonina Munro 1953[3505]: 225.—Kenya. Kipkabus. HT ♂ SANC. [6603718]

- mavoana.** Madagascar [AF].
Parafreutreta mavoana Munro 1952[3503]: 223.—Madagascar. Toamasina: Perinet. HT ♂ SANC. [6603714]

- oriens.** South Africa [AF].
Parafreutreta oriens Munro 1940[3492]: 78.—South Africa. Natal: Natal National Park, Drakensberg. HT ♂ SANC. [6603646]

- pondoensis.** South Africa [AF].
Parafreutreta pondoensis Munro 1939[3491]: 163.—South Africa. Cape: Pondoland, Port St. John [Umzimvubu]. HT ♀ BMNH. [6603633]

- pretoriae.** South Africa [AF].
Parafreutreta pretoriae Munro 1929[3460]: 397.—South Africa. Transvaal: Pretoria, Fountains Valley. HT ♂ SANC. [6603468]

- producta.** Uganda [AF].
Parafreutreta producta Munro 1957[3510]: 896.—Uganda. Ruwenzori Range, Kilembe, 4500 ft. HT ♀ BMNH. [6603768]

- regalis.** South Africa [AF].
Parafreutreta regalis Munro 1940[3492]: 80.—South Africa. Natal: Cedara, Zwartkop. HT ♂ SANC. [6603648]

- retisparsa.** South Africa [AF].
Parafreutreta retisparsa Munro 1939[3491]: 163.—South Africa. Cape: Pondoland, Port St. Johns [Umzimvubu]. HT ♂ BMNH. [6603632]

- sobrinata.** Zambia [AF].
Parafreutreta sobrinata Munro 1953[3505]: 223.—Zambia. Barotzeland: Shangombo, along marshes of Cuando River. HT ♂ SANC. [6603717]

- vumbae.** Zimbabwe [AF].
Parafreutreta vumbae Hancock 1986[1891]: 21.—Zimbabwe. Vumba. HT ♂ NMBZ. [6601477]

Genus PARAGASTROZONA

- Paragastrozona* Shiraki 1933[4432]: 154, *Gastrozona japonica* Miyake (OD). [6600298]
Paragastrozoa Shinji 1940[4428]: 162, missp. *Paragastrozona* Shiraki. [6600859]

REF.—Ito 1984[2417]: 132 (key to 2 spp. [PA: Japan]).

japonica. e. Russia, Korea, Japan [PA].

Gastrozona japonica Miyake 1919[3391]: 152.—Japan. Honshu: near Tokyo, Oji. ST ♂ ♀ Unknown. ST apparently lost (Shiraki 1933: 156). [6603460]

Gastrozona japonica var. *miyakei* Bezzi 1926[474]: 265.—Japan. Hokkaido: Sapporo. ST A MCSNM. [6600517]

solitaria. Burma [OR].

Gastrozona solitaria Hering 1938[2181]: 14.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602339]

tripunctata. Japan (Ryukyu Is.) [OR].

Taenioskola tripunctata Shiraki 1968[4435]: 52.—Japan. Ryukyu Is. HT ♂ USNM. [6604348]

Genus *PARAHYALOPEZA*

Parahyalopeza Hardy & Drew 1996[1972]: 302, *bushi* Hardy & Drew (OD). [6601011]

bushi. Australia (Vic.) [AU].

Parahyalopeza bushi Hardy & Drew 1996[1972]: 303.—Australia. Victoria: Wilson's Promontory, Lilly Pilly Gully. HT ♂ ANIC. [6605930]

Genus *PARAMYIOLIA*

Paramyiolia Shiraki 1933[4432]: 277, *takeuchii* Shiraki (MO). [6600300]

REF.—Foote, Blanc & Norrbom 1993[1523]: 218 ((*Myoleja*) key to 2 spp. [NE]).

cornuta. Japan (Kyushu) [PA].

Anomoia cornuta Ito 1984[2416]: 85.—Japan. Kyushu: Higo, Kumamoto. HT ♂ HUS. [6602789]

Phagocarpus cornutus Ito 1956[2407]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604959]

nigricornis. Canada & USA (Ontario E to New Brunswick, S to Michigan & North Carolina) [NE].

Aciura nigricornis Doane 1899[1189]: 183.—USA. Pennsylvania. HT ♂ WSU. Type data (Foote 1966: 123, Zack 1984: 31); HT without abdomen, but apparently male from description of frons. [6600921]

rhino. USA (coastal states, New Hampshire S to Texas; Oklahoma) [NE].

Myoleja rhino Steyskal 1972[4633]: 207.—USA. Florida: Highlands Co., Lake Placid, Archbold Biol. Station. HT ♂ USNM. [6604394]

takeuchii. Japan (Honshu, Kyushu) [PA].

Paramyiolia takeuchii Shiraki 1933[4432]: 279.—Japan. Daisen or Gifu. HT ♂ NTU. [6604293]

Genus *PARAPHASCA*

Paraphasca Hardy 1986[1962]: 94, *taenifera* Hardy (OD). [6600520]

taenifera. Papua New Guinea (Eastern Highlands, Morobe) [AU].

Paraphasca taenifera Hardy 1986[1962]: 94.—Papua New Guinea. Morobe: near Bulolo, upper Gumi. HT ♂ BBM. [6601813]

Genus *PARARHABDOCHAETA*

Pararhabdochaeta Hardy 1985[1960]: 61, *Rhabdochaeta convergens* Hardy (OD). [6600608]

REF.—Hardy 1985[1960]: 60 (key to 3 spp. [OR, AU]).

albolineata. Indonesia (Irian Jaya) [AU].

Pararhabdochaeta albolineata Hardy 1985[1960]: 62.—Indonesia. Irian Jaya: W Swart [Ilim] valley, Guega, 1200 m. HT ♂ BBM. [6601752]

brachycera. Philippines (Luzon) [OR].

Rhabdochaeta brachycera Hardy 1974[1943]: 212.—Philippines. Luzon, Mountain: 60 km. S of Bontoc, Abatan, Buguias, 1800–2000 m. HT ♂ BBM. [6601651]

convergans. Philippines (Luzon), Malaysia (Sabah), Indonesia (Java) [OR].

Rhabdochaeta convergens Hardy 1974[1943]: 214.—Philippines. Luzon, Mountain: 60 km. S of Bontoc, Abatan, Buguias, 1800–2000 m. HT ♀ BBM. [6601652]

Genus *PARASPATHULINA*

Paraspathulina Hardy & Drew 1996[1972]: 304, *apicomacula* Hardy & Drew (OD). [6601012]

REF.—Hardy & Drew 1996[1972]: 304 (revision of 2 spp. [AU]).

apicomaculata. Australia (WA, NT, Qld., NSW, ACT, SA) [AU].

Paraspathulina apicomacula Hardy & Drew 1996[1972]: 305.—Australia. Australian Capital Territory: Black Mt. HT ♂ ANIC. [6605931]

eremostigma. Australia (WA, NT, Qld., NSW, SA, Vic.) [AU].

Paraspathulina eremostigma Hardy & Drew 1996[1972]: 309.—Australia. New South Wales: 40 km. SE of Broken Hill. HT ♂ ANIC. [6605932]

Genus *PARASPHEINISCOIDES*

Paraspheniscoides Hering 1941[2199]: 197, *Trypeta binaria* Loew (OD). [6600152]

Notoxesis Munro 1947[3496]: 143, *Trypeta binaria* Loew (OD). [6600153]

REF.—Munro 1947[3496]: 144 ((*Notoxesis*) key to 2 spp. [AF]).

binarius. Ethiopia S to Namibia & South Africa, Madagascar, Mauritius, Reunion [AF].

Trypeta binaria Loew 1861[3031]: 274.—Caffreeri [South Africa]. T ♀ NRS? [6603069]

Notoxesis binaria var. *septa* Munro 1947[3496]: 146.—Kenya. Nairobi. HT ♀ SANC. [6603667]

Notoxesis binaria var. *adepta* Munro 1947[3496]: 146.—South Africa. Transvaal: Pretoria, Fountains. HT ♂ SANC. [6603666]

Trypeta binaria Loew 1862[3037]: 4.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605262]

Paraspheniscoides binarius var. *adaptus* Cogan & Munro 1980[882]: 538.—missp. *adeptus* Munro. [6600732]

senarius. Zaire, Uganda, Zambia, Namibia [AF].

Spheniscomyia senaria Bezzi 1924[472]: 124.—Uganda. Mujenje. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 144. [6600476]

Genus *PARASPHEINISCUS*

Paraspheniscus Hendel 1927[2107]: 108, *Spheniscomyia debskii* Efflatoun (OD). [6600301]

debskii. Egypt, Israel [PA].

Spheniscomyia debskii Efflatoun 1924[1293]: 133.—Egypt. Wadi Hoff & other wadis around Helwan. ST ♂ ♀ ESEE. [6601130]

Genus *PARASTENOPE*

Parastenopa Hendel 1914[2102]: 88, *carinata* Hendel (OD). [6600053]

Mesaraelia Blanchard 1929[526]: 461, *elegans* Blanchard (OD). [6600054]

Hamouchaeta Blanchard 1929[526]: 458, *ogloblini* Blanchard (OD). [6600031]

Kartabia Curran 1934[1045]: 434, *anastrephoides* Curran (OD). [6600055]

Pseudeuleia Hering 1940[2186]: 16, *Aciura limata* Coquillett (OD). [6600743]

Parastenopa Hendel 1914[2103]: 27, *arcuata* Hendel (OD) = *carinata* Hendel. Preocc. Hendel 1914: 88. [6600775]

REF.—Aczel 1955[29]: 167 (revision of 6 spp. [NT]).

anastrephoides. Guyana [NT].

Kartabia anastrephoides Curran 1934[1045]: 434.—Guyana. Bartica district, Kartabo. HT ♀ AMNH. N. Comb. [6600867]

brasiliensis. Brazil (Rio de Janeiro) [NT].

Acidia brasiliensis Lima 1933[2953]: 383.—Brazil. Rio de Janeiro: Corcovado, Paineiras. HT ♀ CPARJ. [6602927]

carinata. Bolivia [NT].

Parastenopa carinata Hendel 1914[2102]: 88.—Bolivia. T A MNM. [6601946]

Parastenopa arcuata Hendel 1914[2103]: 27.—Bolivia. Songo. HT ♂ MNM. N. Syn. [6601976]

elegans. Argentina, s. Brazil [NT].

Mesaraelia elegans Blanchard 1929[526]: 462.—Argentina. Misiones. HT ♂ IPV? [6600584]

fallax. Jamaica [NT].

Acidia fallax Johnson 1919[2513]: 445.—Jamaica. Blue Mountains, Yallahs Valley. HT ♀ AMNH. [6602840]

guttata. Brazil (Sao Paulo) [NT].

Parastenopa guttata Aczel 1956[29]: 179.—Brazil. Sao Paulo: Salesopolis, Estacao Biologica de Boraceia. HT ♂ USP. [6600052]

limata. USA (Michigan, Maine S to Florida, Texas) [NE].

Aciura limata Coquillett 1899[953]: 263.—USA. Massachusetts: New Bedford. HT ♀ USNM. [6600777]

marcetiae. Brazil (Rio de Janeiro) [NT].

Parastenopa marcetiae Bezzi & Tavares 1916[480]: 155.—Brazil. Rio de Janeiro: Nova Friburgo. T ♂ MCSNM? [6600543]

montana. Argentina (Jujuy) [NT].

Parastenopa montana Aczel 1956[29]: 183.—Argentina. Jujuy: Sierra Zapla. HT ♀ IML. [6600053]

ogloblini. Argentina (Misiones) [NT].

Hamouchaeta ogloblini Blanchard 1929[526]: 458.—Argentina. Misiones: Loreto. HT ♀ IPV? [6600583]

Genus *PARATEPHRITIS*

Paratephritis Shiraki 1933[4432]: 433, *fukaii* Shiraki (OD). [6600302]

Tephritoedaspis Rohdendorf 1934[4165]: 94, *transitoria* Rohdendorf (OD). [6600303]

REFS—Shiraki 1933[4432]: 436 (key to 2 spp. [PA, OR: Japan & Taiwan]); Munro 1957[3511]: 22 (key to 3 spp. [AF]); Ito 1984[2419]: 231 (key to 2 spp. [PA: Japan]); Korneyev 1990[2736]: 401 (key to 6 spp. [PA: e. Palearctic]).

abstracta. India (W. Bengal) [OR].

Paratephritis abstractus Munro 1935[3473]: 26.—India. W. Bengal: Darjeeling District, Lebong, “6600-6000 ft.”. HT ♂ ZSI. [6603542]

formosensis. Taiwan [OR].

Paratephritis formosensis Shiraki 1933[4432]: 438.—Taiwan. Tamaru. HT ♀ NTU. [6604314]

fukaii. Japan (Honshu, Shikoku, Kyushu) [PA].

Paratephritis fukaii Shiraki 1933[4432]: 436.—Japan. Miyasaki; Tsukumi. ST ♂ ♀ NTU. [6604313]

incomposita. Uganda, Kenya [AF].

Paratephritis incomposita Munro 1957[3511]: 23.—Kenya. Limuru. HT ♂ SANC. [6603802]

karura. Kenya [AF].

Paratephritis karura Munro 1957[3511]: 24.—Kenya. Nairobi, Karura Forest. HT ♂ SANC. [6603804]

takeuchii. Japan (Honshu, Kyushu) [PA].

Paratephritis takeuchii Ito 1949[2403]: 2.—Japan. Kyushu: Kumamoto Prov., Asosan. HT ♀ Takeuchi. [6602766]

transitoria. Russia (Primorskiy) [PA].

Tephritoedaspis transitoria Rohdendorf 1934[4165]: 95.—Russia. Primorskiy: Ussuri Region, Nikolsk-Ussurijsk. ST ♂ ♀ ZISP. [6604101]

umbriifera. Kenya [AF].

Paratephritis umbriifera Munro 1957[3511]: 24.—Kenya. Shimba Hills. HT ♂ SANC. [6603803]

unifasciata. China (Gansu) [PA].

Paratephritis unifasciata Chen 1938[811]: 63.—China. se. Gansu: Pei-la-hia. HT ♂ IZAS. [6600661]

Paratephritis unifasciata Chen 1938[811]: 111.—incosp. *unifasciata* Chen. Foote 1984: 112 (FR). [6605648]

vitreifasciata. China (Qinghai) [PA].

Acanthiophilus vitreifasciatus Hering 1938[2180]: 404.—China. Qinghai: Kuku-Nor [Qinghai Hu]. HT ♂ ZSZMH. [6602303]

xenia. s. China, Burma [OR].

Paratephritis xenia Hering 1938[2181]: 53.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602391]

Paratephritis xenis Foote 1984[1517]: 112.—missp. *xenia* Hering. Attributed to “authors”. [6605773]

Genus *PARATERELLIA*

Paraterellia Foote 1960[1486]: 121, *Trypeta varipennis* Coquillett (OD). [6600746]

REFS—Foote 1960[1486]: 121 (revision of 3 spp. [NE]); Foote & Blanc 1963[1521]: 44 (key to 3 spp. [NE: USA: California]); Foote & Blanc 1979[1522]: 170 (key to 4 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 271 (key to 4 spp. [NE]).

immaculata. USA (s. Arizona & New Mexico, w. Texas) [NE].

Paraterellia immaculata Blanc 1979[520]: 170.—USA. Arizona: 10 mi. W of Portal. HT ♂ USNM. [6600564]

superba. USA (California E to Idaho, Colorado, & w. Texas) [NE].

Paraterellia superba Foote 1960[1486]: 123.—USA. California: Alpine Co., Woodfords. HT ♀ USNM. [6601260]

varipennis. USA (Oregon, Idaho & Colorado S to n. California & n. Arizona) [NE].

Trypeta varipennis Coquillett 1902[957]: 180.—USA. Arizona: Coconino Co., Bright Angel Hotel, brink of Grand Canyon. HT ♀ USNM. [6600788]

Trypeta versatilis Curran 1932[1043]: 13.—USA. Oregon: Harney Co., Antelope Mt., 6500 ft. HT ♀ AMNH. [6600849]

ypsilon. USA (California) [NE].

Paraterellia ypsilon Foote 1960[1486]: 122.—USA. California: San Bernardino Co., Plunge Creek Highlands. HT ♀ USNM. [6601261]

Paraterellia superba Foote 1960[1486]: 124.—incosp. *ypsilon* Foote. Foote, Blanc & Norrbom 1993: 274 (FR). [6605514]

Genus *PARATRIRHITHRUM*

Paratrirhithrum Shiraki 1933[4432]: 137, *nitobei* Shiraki (OD). [6600304]

nitobei. Taiwan [OR].

Paratrirhithrum nitobei Shiraki 1933[4432]: 138.—Taiwan. Arisan. HT ♂ NTU. [6604263]

Paratrirhithrum nitobae Chen 1948[814]: 71.—missp. *nitobei* Shiraki. [6605369]

Genus *PARATRYPETA*

Paratrypeta Han & Wang 1994[1875]: 50, *Vidalia appendiculata* Hendel (OD). [6600868]

REF.—Han, Wang & Kim 1994[1878]: 50 (revision of 2 spp. [OR]).

appendiculata. China (Sichuan) [PA].

Vidalia appendiculata Hendel 1927[2107]: 72.—China. Sichuan: Suifu. LT ♂ USNM. Lectotype designated by Han, Wang & Kim 1994: 52. [6602131]

flavoscutata. China (Xizang) [PA].

Paratrypeta flavoscutata Han & Wang 1994[1875]: 52.—China. Xizang: Yadong. HT ♀ IZAS. [6605329]

Genus *PARAXARNUTA*

Paraxarnuta Hardy 1973[1942]: 195, *bambusae* Hardy (OD). [6600402]

anephelobasis. Thailand [OR].

Paraxarnuta anephelobasis Hardy 1973[1942]: 196.—Thailand. Loei: 12-15 km. NW of Loei, 275 m. HT ♂ BBM. [6601570]

bambusae. Thailand, Laos, Vietnam [OR].

Paraxarnuta bambusae Hardy 1973[1942]: 197.—Laos. Vientiane: Muong Tourakom, 180 m. HT ♂ BBM. [6601571]

Genus *PARDALASPINUS*

Pardalaspinus Hering 1952[2218]: 282, *Pardalaspis migrata* Hering (OD) = *laqueata* Enderlein. [6600406]

Notophosa Zia 1964[5314]: 53, *connexa* Zia (OD) = *laqueata* Enderlein. [6600401]

Ceratitisma Zia 1964[5314]: 54, *bimaculatum* Zia (OD). [6600421]

Notophysa Hancock & Drew 1994[1901]: 875, missp. *Notophosa* Zia. [6600870]

REFS—Hardy 1988[1964]: 108 ((*Proanoplomus*) key to 4 spp. [OR: Indonesia]); Kapoor 1993[2600]: 40 ((*Proanoplomus*) key to 2 spp. [OR: India]); Hancock & Drew 1994[1242]: 875 (key to 6 spp. [OR]).

adversarius. Burma, Indonesia (Java) [OR].

Pardalaspinus adversarius Hering 1952[2218]: 283.—Indonesia. w. Java: Radjamandala, 2-300 m. HT ♂ RNH. [6602681]

bimaculatus. China (Yunnan, Hainan), Thailand [OR].

Ceratitisma bimaculatum Zia 1964[5314]: 50.—China. Yunnan: Shishong-Baanna [Xishuangbanna], Damenglung, 650 m. HT ♂ IZAS. [6604880]

Proanoplomus minor Hardy 1973[1942]: 270.—Thailand. Chiang Mai: Chiang Dao, 450 m. HT ♂ BBM. [6601597]

cinereofasciatus. Indonesia (Sumatra, Java), Malaysia (Sabah) [OR].

Carpophthoromyia cinereofasciata Meijere 1924[3324]: 37.—Indonesia. Sumatra: Tand Andalas. ST ♂ ♀ ZMAN. Type data (Hardy 1988: 108). [6604948]

laqueatus. China (Yunnan), Laos, Vietnam, Indonesia (Java); India? [OR].

Ceratitisma laqueata Enderlein 1920[1330]: 347.—Indonesia. Java. HT ♀ ZMHU. Type data (Hardy 1988: 109). [6601185]

Pardalaspis migrata Hering 1944[2210]: 5.—Ost-Indie [probably Indonesia]. HT ♂ NMW. [6602637]

Notophosa connexa Zia 1964[5314]: 49.—China. Yunnan: Shishong-Baanna [Xishuangbanna], Siao-meng-yan, 850 m. HT ♂ IZAS. [6604879]

nitidus. Thailand [OR].

Proanoplomus nitidus Hardy 1973[1942]: 271.—Thailand. Uthai Thani: Uthai Thani. HT ♂ KUB. [6601598]

vittatus. India (Sikkim), Burma, Thailand [OR].

Proanoplomus vittatus Hardy 1973[1942]: 276.—Thailand. Kanchanaburi: Kanchanaburi. HT ♀ KUB. [6601601]

yongi. w. Malaysia [OR].

Pardalaspinus yongi Hancock & Drew 1995[1904]: 61.—Malaysia. Selangor: Kg. Perdik, Hulu Langat. HT ♂ BMNH. [6605833]

Genus *PEDIAPELTA*

Pediapelta Munro 1947[3496]: 171, *spadicescens* Munro (OD). [6600154]

REF.—Munro 1947[3496]: 172 (key to 5 spp. [AF]).

aenea. Kenya, Tanzania [AF].

Pediapelta aenea Munro 1947[3496]: 176.—Kenya. Nairobi. HT ♂ SANC. [6603673]

alexina. Zimbabwe [AF].

Pediapelta alexina Munro 1947[3496]: 173.—Zimbabwe. Umtali Dist., Vumba. HT ♀ SANC. [6603670]

asmarensis. Eritrea [AF].

Pediapelta asmarensis Munro 1955[3507]: 421.—Eritrea. Asmara, Bet Gherghis. HT ♂ SANC. [6603726]

enzoria. Uganda [AF].

Pediapelta enzoria Munro 1947[3496]: 174.—Uganda. Ruwenzori Range, Nyamgasani Valley, 6400 ft. HT ♀ BMNH. [6603672]

spadicescens. South Africa [AF].

Pediapelta spadicescens Munro 1947[3496]: 173.—South Africa. Transvaal: Marieps. HT ♀ SANC. HT transferred from TMP. [6603671]

ternaria. Kenya, Zimbabwe, South Africa [AF].

Trypeta ternaria Loew 1861[3031]: 273.—Caffrere [South Africa]. T ♀ NRS? [6603068]

Trypeta ternaria Loew 1862[3037]: 4.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605261]

Genus *PELMATOPS*

Pelmatops Enderlein 1912[1327]: 355, *Achias ichneumoneus* Westwood (OD). [6600306]

fukienensis. China (Fujian) [OR].

Pelmatops fukienensis Zia & Chen 1954[5317]: 307.—China. Fujian: Shao-Woo [Shaowu]. HT ♂ IZAS. [6604881]

ichneumoneus. India (Himachal Pradesh, Uttar Pradesh), Nepal, China (Sichuan) [OR].

Achias ichneumoneus Westwood 1850[5083]: 235.—India Orientali [e. India]. ST ♂ ♀ BMNH. Possibly also ST in UMO. [6604697]

Genus *PENEPAROXYNA*

Peneparoxyna Hardy & Drew 1996[1972]: 314, *minuta* Hardy & Drew (OD). [6601013]

minuta. Australia (NT, NSW) [AU].

Peneparoxyna minuta Hardy & Drew 1996[1972]: 315.—Australia. New South Wales: 27 km. E of Cobar. HT ♂ ANIC. [6605934]

Genus *PERATOMIXIS*

Peratomixis Munro 1947[3496]: 236, *miranda* Munro (OD). [6600178]

miranda. Lesotho [AF].

Peratomixis miranda Munro 1947[3496]: 236.—Lesotho. Drakensberg, Giant's Castle. HT ♀ SANC. [6603683]

Genus *PERILAMPSIS*

Perilampsis Bezzi 1920[463]: 233, *Carpophthoromyia pulchella* Austen (OD). [6600132]

REFS—Munro 1939[3487]: 33 (key to 11 spp. [AF]); Munro 1939[3490]: 143 (supplements to Munro 1939 [AF]); Munro 1969[3523]: 428 (supplement to Munro 1939 [AF]); Hancock 1987[1892]: 55 (key to 3 spp. [AF: Zimbabwe]).

amazuluana. South Africa [AF].

Perilampsis amazuluana Munro 1929[3460]: 394.—South Africa. Natal: Zululand. HT ♂ SANC. [6603467]

atra. Ivory Coast [AF].

Perilampsis atra Munro 1969[3523]: 433.—Ivory Coast. Bingerville. HT ♀ MRAC. [6603856]

curta. Kenya [AF].

Perilampsis curta Munro 1938[3484]: 164.—Kenya. Nairobi. HT ♂ BMNH. [6603597]

decellei. Ivory Coast [AF].

Perilampsis decellei Munro 1969[3523]: 430.—Ivory Coast. Bingerville. HT ♂ MRAC. [6603853]

diademata. Zimbabwe, South Africa [AF].

Perilampsis diademata Bezzi 1924[470]: 482.—South Africa. Transvaal: Pretoria. HT ♂ SANC. [6600390]

dryades. South Africa [AF].

Perilampsis dryades Munro 1939[3487]: 38.—South Africa. Natal: Durban, Benmore. HT ♂ SANC. [6603624]

formosula. Cameroon, Uganda [AF].

Carpophthoromyia formosula Austen 1910[239]: 74.—Uganda. HT ♂ BMNH. [6600091]

furcata. Ivory Coast, Nigeria [AF].

Perilampsis furcata Munro 1969[3523]: 431.—Ivory Coast. Bingerville. HT ♀ MRAC. [6603854]

miratrix. Zimbabwe [AF].

Perilampsis miratrix Munro 1939[3490]: 146.—Zimbabwe. Bulawayo. HT ♂ SANC? [6603642]

Perilampsis diademata: Munro 1929[3460]: 394.—misid. See Munro 1939: 146. [6605814]

pulchella. Ivory Coast, Cameroon, Ethiopia, Uganda [AF].

Carpophthoromyia pulchella Austen 1910[239]: 72.—Uganda. Entebbe. ST ♂ ♀ BMNH. [6600090]

tetractyla. South Africa [AF].

Perilampsis tetractyla Munro 1933[3464]: 40.—South Africa. Natal: Durban. HT ♂ SANC. [6603515]

thyene. South Africa [AF].

Perilampsis thyene Munro 1939[3487]: 36.—South Africa. Natal: Uhmlanga Beach. HT ♂ SANC. [6603623]

umbrina. South Africa [AF].

Perilampsis umbrina Munro 1939[3487]: 35.—South Africa. Natal: Durban. HT ♂ SANC. [6603622]

unita. South Africa [AF].

Perilampsis unita Munro 1939[3487]: 38.—South Africa. Natal: Durban. HT ♂ SANC. [6603625]

woodi. Nigeria, Malawi, Zimbabwe [AF].

Carpophthoromyia woodi Bezzi 1924[469]: 96.—Malawi. Ruo, 200 ft. HT ♂ BMNH. [6600469]

Perilampsis thrinax Munro 1969[3523]: 432.—Nigeria. Kaduna: Zaria, Samaru. HT ♂ BMNH. [6603855]

Genus *PERIRHITHRUM*

Perirhithrum Bezzi 1920[463]: 266, *marshalli* Bezzi (OD). [6600206]

marshalli. Zimbabwe, South Africa [AF].

Perirhithrum marshalli Bezzi 1920[463]: 268.—South Africa. Natal: Port Shepstone. HT ♂ BMNH. [6600358]

Genus *PERONYMA*

Peronyma Loew 1873[3042]: 250, *Trypeta sarcinata* Loew (MO) = *quadrifasciata* Macquart. Proposed as a subgenus. [6600713]
Tomoplagina Curran 1932[1043]: 14, *maculata* Curran (OD) = *quadrifasciata* Macquart. [6600730]

quadrifasciata. USA (North Carolina S to Alabama & Florida) [NE].

Tephritis quadrifasciata Macquart 1843[3076]: 383.—USA. Georgia. T ♂ UMO. [6603220]

Trypeta sarcinata Loew 1862[3036]: 218.—USA. Carolina [South Carolina]. HT ♀ MCZ? Type data (Loew 1873: 248); HT not in ZMHU, possibly lost. [6603108]

Tomoplagina maculata Curran 1932[1043]: 14.—USA. Florida: Gotha. HT ♀ AMNH. [6600850]

Genus *PHAEOGRAMMA*

Phaeogramma Grimshaw 1901[1818]: 47, *vittipennis* Grimshaw (OD). [6600622]

hispida. Hawaiian Is. (Maui, Oahu) [AU].

Phaeogramma hispida Hardy 1980[1948]: 54.—USA. Hawaii: w. Maui, Makakaole, Puu Lanilili, 2300 ft. HT ♂ BBM. [6601880]

vittipennis. Hawaiian Is. (Molokai) [AU].

Phaeogramma vittipennis Grimshaw 1901[1818]: 48.—USA. Hawaii: Molokai Mts., 3000 ft. LT ♂ BMNH. Lectotype designated by Hardy 1969: 479. [6601437]

Genus *PHAEOSPILA*

Phaeospila Bezzi 1913[448]: 117, *varipes* Bezzi (OD). [6600403]

varipes. India (W. Bengal) [OR].

Phaeospila varipes Bezzi 1913[448]: 118.—India. W. Bengal: Darjeeling, 6000 & 7000 ft. ST ♀ ZSI. [6600204]

Genus PHAEOSPILODES

Phaeospilodes Hering 1939[2182]: 170, *torquata* Hering (OD). [6600404]

REFS—Hering 1949[2193]: 49 (key to 4 spp. [OR]); Hardy 1988[1964]: 104 (key to 5 spp. [OR]).

atrifacies. Indonesia (Java, Lombok) [OR].

Phaeospilodes atrifacies Hering 1941[2192]: 32.—Indonesia. Nusa Tenggara: Lombok, Selong. HT ♂ DEI. [6602479]

bambusae. India (Tamil Nadu) [OR].

Phaeospilodes bambusae Hering 1940[2184]: 322.—India. Tamil Nadu: Coimbatore. HT A BMNH. Described from both sexes, but sex of HT not specified. [6602452]

distincta. China (Yunnan), Laos, Thailand, Vietnam [OR].

Chelyophora distincta Zia 1964[5314]: 47.—China. Yunnan: Kin-ping [Jinping], 370 m. HT ♂ IZAS. [6604878]

fenestella. China (Hong Kong) [OR].

Oxyphora fenestella Coquillett 1910[965]: 308.—China. Hong Kong. HT ♀ USNM. **N. Comb.** [6600811]

Oxyena fenestrella Hardy 1977[1946]: 126.—missp. *fenestella* Coquillett. [6605830]

fritilla. Thailand, Laos, Vietnam [OR].

Phaeospilodes fritilla Hardy 1973[1942]: 199.—Thailand. Phra Nakhon: Bangkhen [Bang Khen, 13°52'N 100°36'E]. HT ♂ KUB. [6601572]

poeciloptera. China (Guangdong) [OR].

Ptilona poeciloptera Kertész 1912[2657]: 543.—China. Guangdong: Swatow. ST ♂ MNM. [6602865]

torquata. Thailand, Vietnam [OR].

Phaeospilodes torquata Hering 1939[2182]: 171.—Vietnam. Choganh. HT ♀ MNHNP. [6602403]

Genus PHANTASMIELLA

Phantasmiaella Hendel 1914[2102]: 87, *cylindrica* Hendel (OD). [6600385]

cylindrica. Taiwan [OR].

Phantasmiaella cylindrica Hendel 1914[2102]: 87.—Formosa [Taiwan]. T A DEI, NMW. [6601944]

Phantasmiaella cylindrica Hendel 1915[2105]: 435.—Taiwan. Koshun, Kankau. ST ♂ DEI, NMW. Preocc. Hendel 1914; type data (Hardy 1968: 120). [6602079]

Genus PHASCA

Phasca Hering 1953[2220]: 518, *bidens* Hering (OD) = *ortaloides* Walker. [6600521]

REF.—Hardy 1986[1962]: 97 (key to 6 spp. [AU]).

bicunea. Papua New Guinea (Morobe) [AU].

Phasca bicunea Hardy 1986[1962]: 97.—Papua New Guinea. Morobe: near Bulolo, Robbies Creek. HT ♂ BBM. [6601814]

connexa. Indonesia (Irian Jaya), Papua New Guinea [AU].

Phasca connexa Hardy 1986[1962]: 99.—Papua New Guinea. West Sepik: Torricelli Mts., Mobitei, 750 m. HT ♂ BBM. [6601815]

maculifacies. Papua New Guinea (E. & W. Highlands, Morobe) [AU].

Phasca maculifacies Hardy 1986[1962]: 100.—Papua New Guinea. Eastern Highlands: Aiyura, 1800-1900 m. HT ♂ BBM. [6601757]

ortaloides. Indonesia (Irian Jaya), Papua New Guinea [AU].

Helomyza ortaloides Walker 1865[4974]: 116.—New Guinea. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 665. [6604664]

Phasca bidens Hering 1953[2220]: 519.—Indonesia. Irian Jaya: Sorong. HT ♂ RNH. [6602697]

Phasca ortaloides Hardy 1966[1935]: 665.—missp. *ortaloides* Walker. [6605791]

sedlaceki. Papua New Guinea (Morobe) [AU].

Phasca sedlaceki Hardy 1986[1962]: 102.—Papua New Guinea. Morobe: Bulolo R., Wau. HT ♂ BBM. [6601758]

trifasciata. Indonesia (Irian Jaya), Papua New Guinea (Central) [AU].

Phasca trifasciata Hardy 1986[1962]: 103.—Papua New Guinea. Central: Iomari Creek, near Brown R. HT ♂ BBM. [6601759]

Genus PHEROTHRINAX

Pherothrinax Munro 1957[3510]: 1031, *redimitis* Munro (OD). [6600192]

REFS—Bezzi 1924[472]: 140 ((*Trypanea*) key to 5 spp. [AF]); Bezzi 1924[470]: 559 ((*Trypanea*) key to 5 spp. [AF: South Africa]).

arrhiza. South Africa [AF].

Trypanea woodi var. *arrhiza* Bezzi 1924[470]: 568.—South Africa. Cape: Toise R., East London. ST ♂ ♀ SANC. [6600447]

bistellata. Tanzania [AF].

Trypanea bistellata Bezzi 1924[472]: 142.—Tanzania. Kilimanjaro: Moshi [3°21'S 37°20'E]. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 157. [6600494]

furcatella. South Africa [AF].

Trypanea subcompleta var. *furcatella* Bezzi 1924[470]: 568.—South Africa. Cape: East London. ST ♂ ♀ SANC. [6600446]

lamborni. Malawi [AF].

Trypanea lamborni Munro 1935[3470]: 6.—Malawi. Maiwale. ST ♂ ♀ BMNH. [6603574]

lutescens. South Africa [AF].

Trypanea lutescens Bezzi 1924[470]: 567.—South Africa. Transvaal: Pretoria. HT ♂ SANC. [6600444]

mutila. Ethiopia, South Africa [AF].

Trypanea mutila Bezzi 1924[470]: 569.—South Africa. Cape: East London. HT ♀ SANC. [6600448]

pulchella. South Africa [AF].

Trypanea pulchella Bezzi 1924[470]: 568.—South Africa. Orange Free: Bloemfontein; & Transvaal: Pretoria. ST ♂ ♀ SANC. [6600445]

redimitis. Kenya [AF].

Pherothrinax redimitis Munro 1957[3510]: 1032.—Kenya. Mt. Elgon, 10500-12500 ft. HT ♂ BMNH. [6603743]

subcompleta. Kenya [AF].

Trypanea subcompleta Bezzi 1920[463]: 263.—Kenya. Nairobi. HT ♀ BMNH. [6600356]

woodi. Ethiopia, Tanzania, Malawi, Mozambique, Zimbabwe [AF].

Tripanea woodi Bezzi 1924[471]: 91.—Mozambique. Gorongozo, Inhanconde Forest, 350 m. HT ♂ MNHNP. [6600512]

Trypanea woodi Bezzi 1924[472]: 146.—Malawi. Cholo. ST ♂ ♀ BMNH. Preocc. Bezzi 1924: 91. [6605072]

Genus PHILOPHYLLA

Philophylla Rondani 1870[4205]: 9, *Musca caesio* Harris (OD). [6600273]

Hendelina Hardy 1951[1922]: 179, *Spheniscus angulatus* Hendel (OD). [6600599]

- Feshyia* Ito 1984[2416]: 94, *Acidiella okinawaensis* Shiraki (OD). [6600446]
Pseudospheniscus Hendel 1914[2102]: 83, missp. *Pseudospheniscus* Hendel. Misident.; Preocc. Ameghino 1906. [6600156]
Philophylla Persson 1958[3797]: 109, missp. *Philophylla* Rondani. [6600792]
Phiophylla Foote 1984[1517]: 98, missp. *Philophylla* Rondani. Attributed to “authors”. [6600968]
- REFS—Bezzi 1920[463]: 245 ((*Acidia*) key to 3 spp. [AF]); Shiraki 1933[4432]: 165 ((*Pseudospheniscus*) key to 4 spp. [OR: Taiwan]); Hardy 1951[1922]: 179 ((*Hendelina*) key to 5 spp. [AU]); Hardy 1973[1942]: 254 ((*Myoleja*) key to 6 spp. [OR: Southeast Asia]); Hardy 1974[1943]: 198 ((*Myoleja*) key to 6 spp. [OR: Philippines]); Ito 1984[2418]: 166, 169 ((*Philophylla* & *Hendelina*) keys to 5 spp. [PA: Japan]); Hardy 1987[1963]: 314 ((*Myoleja*) key to 10 spp. [OR, AU: Indonesia to Solomon Is.]); Permkam & Hancock 1995[3795]: 1194 (revision of 4 spp. [AU: Australia]).
- aethiops.** China (Fujian) [OR].
Neanomoea aethiops Hering 1939[2183]: 143.—China. Fujian: Shaowu, 500 m. HT ♀ ZFMK. [6602425]
- andobana.** Madagascar [AF].
Myoleja andobana Hancock 1985[1885]: 291.—Madagascar. Mahajanga: Antsalova district, Andobo, Antsingy forest. HT ♀ MNHNP. [6601469]
- angulata.** Taiwan [OR].
Spheniscus angulatus Hendel 1913[2099]: 38.—Taiwan. Alikang. ST ♂ DEI, NMW? [6601920]
- angusta.** China (Sichuan) [PA].
Myoleja angusta Wang 1989[4990]: 458.—China. Sichuan: Mt. Emei [Emei Shan] (29°N, 103°E), 1800-2000 m. HT ♀ IZAS. [6604685]
- atrata.** Zaire [AF].
Pseudospheniscus atratus Munro 1938[3485]: 170.—Zaire. Shaba: Kapanga. HT ♂ SANC. [6603605]
- australina.** Australia (n. Qld.) [AU].
Hendelina australina Hardy 1951[1922]: 180.—Australia. Queensland: Hartley’s Creek. HT ♂ USNM. [6601491]
- basihyalina.** China [PA].
Euleia basihyalina Hering 1951[2214]: 8.—China. Manchuria, Erzendjanzsy. HT ♀ BMNH. [6602664]
- bifida.** Fiji [AU].
Pseudospheniscus bifidus Bezzi 1928[478]: 112.—Fiji. Vanua Levu: Labasa [Lambasa, 16°26’S 179°24’E]. HT ♀ BMNH. [6600538]
- bisecta.** Northern Mariana Is., Guam [AU].
Hendelina bisecta Hardy & Adachi 1956[1970]: 17.—Guam. Pt. Ritidian. HT ♂ USNM. [6601876]
- caesio.** Britain & Scandinavia E to Ural Mts., S to Switzerland, Ukraine & Caucasus [PA].
Musca caesio Harris 1780[1999]: 75.—England. T A Unknown. [6601899]
Musca lynchnidis Fabricius 1787[1376]: 353.—Germany. Kiliae [Kiel]. T A UZMC. ST apparently lost (Zimsen 1964: 493). [6601210]
Tephritis lynchnidis Persson 1958[3797]: 118.—missp. *lynchnidis* Fabricius. [6605774]
Myiolia caesio Persson 1958[3797]: 110.—missp. *caesio* Harris. [6605775]
Myoleja caesar Foote 1984[1517]: 98.—missp. *caesio* Harris. Attributed to “authors”. [6605776]
Tephritis centaureae: Fallen 1820[1384]: 16.—misid. [6601249]
Trypeta discoidea: Meigen 1826[3306]: 323.—misid. [6605649]
- cerataex.** Zaire [AF].
Pseudospheniscus cerataex Munro 1938[3485]: 171.—Zaire. Shaba: Kapanga. HT ♂ SANC. [6603606]
Pseudospheniscus cerataex Munro 1938[3485]: 171.—incosp. *cerataex* Munro. Automatic correction under Art. 32(d). [6605709]
- chuanensis.** China (Sichuan) [PA].
Myoleja chuanensis Wang 1989[4990]: 460.—China. Sichuan: Mt. Emei [Emei Shan] (29°N, 103°E), 550-570 m. HT ♀ IZAS. [6604687]
- conjuncta.** Indonesia (Maluku, Irian Jaya), Bismarck Arch., Solomon Is. [AU].
Anomoea conjuncta Meijere 1913[3315]: 61.—Indonesia. Irian Jaya: S of Waigeo, Saonek I. HT ♂ ZMAN. Type data (Hardy 1987: 320). [6604911]
Pseudospheniscus apicifasciatus Malloch 1939[3135]: 267.—Solomon Is. Florida Is., Tulagi. HT ♂ BMNH. [6603332]
- connexa.** Malaysia (w. & Sarawak), Taiwan, Philippines (Luzon, Panay) [OR].
Pseudospheniscus connexus Hendel 1915[2105]: 453.—Taiwan. Kankau. ST ♂ ♀ DEI, NMW. [6602096]
- curvinervis.** Fiji [AU].
Pseudospheniscus curvinervis Bezzi 1928[478]: 114.—Fiji. Rarawai. HT ♀ BMNH. [6600539]
- discreta.** China (Yunnan) [OR].
Myoleja discreta Wang 1989[4990]: 458.—China. Yunnan: Jingdong (24°N, 100°E), 1250 m. HT ♂ IZAS. [6604684]
- diversa.** China (Sichuan) [PA].
Myoleja diversa Wang 1989[4990]: 459.—China. Sichuan: Mt. Gongga (29°N, 101°E), 2500 m. HT ♂ IZAS. [6604686]
- dividua.** Papua New Guinea (Morobe) [AU].
Anomoea dividua Hardy 1987[1963]: 277.—Papua New Guinea. Morobe: Wau, Big Wau Cr., 1300 m. HT ♀ BBM. [6601817]
- erebia.** Malaysia (Sabah), Papua New Guinea, Australia (Qld., NSW) [OR, AU].
Pseudospheniscus erebius Hering 1941[2194]: 62.—Papua New Guinea. Madang: Astrolabe Bay, Eriba. HT ♂ MNM. [6602503]
- erythraspis.** India (W. Bengal) [OR].
Acidia erythraspis Bezzi 1913[448]: 145.—India. W. Bengal: e. Himalayas, Kurseong, 5000 ft. ST ♀ ZSI. [6600221]
- farinosa.** Taiwan [OR].
Neanomoea farinosa Hendel 1915[2105]: 455.—Taiwan. Chip-Chip; & Mount Hoozan. ST ♀ MNM. [6602099]
- fossata.** India, Korea & Japan SE to Solomon Is. & Australia (n. Qld.) [PA, OR, AU].
Tephritis fossata Fabricius 1805[1380]: 320.—India. Tamil Nadu: Tranquebariae [Tranquebar]. T A UZMC. Type data (Zimsen 1964: 493). [6601232]
Trypeta elimia Walker 1849[4957]: 1033.—Philippines. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 214. [6604574]
Ortalis regularis Doleschall 1858[1203]: 119.—Indonesia. Maluku: Amboina [Ambon I.]. T A ZMHU? ST possibly lost (Hardy 1987: 322) or in NMW (Bezzi 1913: 78). [6600938]
Neanomoea lieftincki Hering 1952[2218]: 286.—Indonesia. Java: Mount Semeru, R. Darungan, 800 m. HT ♀ RNH. [6602683]
Trypeta fessata Bigot 1892[511]: 224.—missp. *fossata* Fabricius. [6605519]
- fossataeformis.** Malawi [AF].
Acidia fossataeformis Bezzi 1920[463]: 245.—Malawi. Chiromo, Ruo R. ST ♂ ♀ BMNH. [6600344]
- homogenea.** Malawi [AF].
Acidia homogenea Bezzi 1920[463]: 246.—Malawi. Port Herald. HT ♀ BMNH. [6600345]

- humeralis**. Papua New Guinea, New Britain, Australia (Qld.) [AU].
Pseudospheniscus humeralis Hendel 1915[2105]: 452.—Papua New Guinea. Madang: Friedrich-Wilhelmshafen [Madang, 5°13'S 145°48'E]. HT ♀ MNM. [6602095]
- incerta**. China [PA].
Euleia incerta Chen 1948[814]: 108.—China. Sikong. HT ♀ IZAS. [6600710]
- inconspicua**. Madagascar [AF].
Euleia inconspicua Hancock 1985[1885]: 287.—Madagascar. Sambirano, Mailaka. HT ♂ SANC. [6601466]
- indica**. India (Karnataka) [OR].
Philophylla indica Hancock & Drew 1994[1900]: 581.—India. Karnataka: Western Ghats Mts., nr. Tarikere, Kemmannugundi, 1400 m. HT ♂ BMNH. [6605380]
- invida**. Burma [OR].
Pseudospheniscus invidus Hering 1938[2181]: 17.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602343]
- ismayi**. Indonesia (Sumatra) [OR].
Myoleja ismayi Hardy 1987[1963]: 324.—Indonesia. Sumatra: Bohorok. HT ♂ BBM. [6601830]
- kraussi**. Thailand, w. Malaysia, Vietnam [OR].
Anomoia kraussi Hardy 1973[1942]: 238.—Malaysia. Negeri Sembilan: Ampangan, nr. Serembam. HT ♂ USNM. [6601586]
- latipennis**. China (Sichuan) [PA].
Euleia latipennis Chen 1948[814]: 109.—China. Sichuan: Omeishan [Emei Shan]. HT ♀ IZAS. [6600711]
- mailaka**. Madagascar [AF].
Myoleja mailaka Hancock 1985[1885]: 293.—Madagascar. Sambirano, Mailaka. HT ♂ SANC. [6601470]
- marumoi**. Russia (Sakhalin), Korea, Japan (Hokkaido, Honshu) [PA].
Acidia marumoi Miyake 1919[3391]: 151.—Japan. Honshu: Nagano Pref., Kamikochi, 5000 ft. HT ♂ Unknown. HT probably lost (Shiraki 1933: 264). [6603459]
Pseudospheniscus inflatus Shiraki 1933[4432]: 171.—Russia. Sakhalin: Tomarikishi; & Kaibato; Japan. Hokkaido: Toikanbetsu. ST ♂ ♀ NTU. [6604266]
- mindanaoensis**. Philippines (Mindanao) [OR].
Myoleja mindanaoensis Hardy 1974[1943]: 200.—Philippines. Mindanao, Lanao del Sur: Lake Lanao, Tagaya, 470-720 m. HT ♀ BBM. [6601648]
- mushaensis**. Taiwan [OR].
Acidiella mushaensis Shiraki 1933[4432]: 261.—Taiwan. Musha. HT ♀ NTU. [6604289]
- nigrescens**. Japan (Kyushu, Ryukyu Is.), Indonesia (Irian Jaya), Papua New Guinea [PA, OR, AU].
Hendelina nigrescens Shiraki 1968[4435]: 42.—Japan. Ryukyu Is.: Amami-Oshima I. HT ♀ NIAS. [6604344]
Hendelina shirozui Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604974]
- nigriceps**. China (Zhejiang, Fujian) [PA, OR].
Euleia alboscuteolata ssp. *nigriceps* Chen 1948[814]: 110.—China. Zhejiang: Mokanshan; or Fukien [Fujian]. HT A IZAS. Described from both sexes, but sex & locality of HT not specified. [6600712]
- nigripennis**. Philippines (Luzon) [OR].
Myoleja nigripennis Hardy 1974[1943]: 202.—Philippines. Luzon, Mountain: Ifugao, Mayoyao, 1200-1500 m. HT ♂ BBM. [6601649]
- nigrofasciata**. China (Gansu) [PA].
Myiolia nigrofasciata Zia 1938[5309]: 50.—China. se. Gansu: Cheumenn [Yumen]. HT ♂ IZAS. [6604858]
- nigroscutellata**. China (Hebei, Sichuan), Burma, Indonesia (Java), Malaysia (Sarawak) [PA, OR].
Neanomoea nigroscutellata Hering 1938[2181]: 18.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602345]
- nitida**. Philippines (Luzon) [OR].
Myoleja nitida Hardy 1974[1943]: 203.—Philippines. Luzon, Mountain: 60 km. S of Bontoc, Abatan, Buguias, 1800-2000 m. HT ♀ BBM. [6601650]
- nummi**. Taiwan [OR].
Neanomoea nummi Munro 1935[3477]: 254.—Taiwan. Toa Tsui Kutsu. HT ♂ DEI. [6603554]
- okinawaensis**. Japan (Honshu, Kyushu, Ryukyu Is.) [PA, OR].
Acidiella okinawaensis Shiraki 1968[4435]: 29.—Japan. Ryukyu Is.: Okinawa, Mount Yonaha. HT ♂ USNM. [6604341]
- perineta**. Madagascar [AF].
Myoleja perineta Hancock 1985[1885]: 294.—Madagascar. Toamasina: Moramanga district, Perinet. HT ♂ MNHNP. [6601471]
- propreincerta**. Bougainville I., Solomon Is. [AU].
Myoleja propreincerta Hardy 1987[1963]: 331.—Papua New Guinea. North Solomons: Bougainville I., Buin. HT ♂ BBM. [6601832]
- pulla**. Japan (Honshu, Shikoku, Kyushu) [PA].
Hendelina pulla Ito 1952[2405]: 3.—Japan. Shikoku: Awa, Kyozyo, Iya. HT ♂ UOPJ. [6602772]
- quadrata**. Papua New Guinea, New Britain, Solomon Is., Australia (NT, Qld.) [AU].
Anomoia quadrata Malloch 1939[3135]: 275.—Solomon Is. Florida Is., Tulagi. HT ♂ BMNH. [6603336]
Myoleja shirakii Hardy 1987[1963]: 335.—Solomon Is. Kolombangara, Gollifer's Camp, 700 m. HT ♂ BBM. [6601836]
- radiata**. China (Yunnan), Laos, Malaysia (Sarawak) [OR].
Myoleja radiata Hardy 1973[1942]: 257.—Laos. Kien Then. HT ♂ UZMH. [6601592]
- ravida**. China (Yunnan), Thailand, Laos [OR].
Myoleja ravida Hardy 1973[1942]: 258.—Thailand. Nakhon Ratchasima: Khao Yai. HT ♂ KUB. [6601593]
- rufescens**. Taiwan [OR].
Neanomoea rufescens Hendel 1915[2105]: 456.—Taiwan. Kankau; & Sokutsu. ST ♂ ♀ MNM, DEI. [6602100]
- sandrangato**. Madagascar [AF].
Myoleja sandrangato Hancock 1985[1885]: 296.—Madagascar. Toamasina: Moramanga district, Sandrangato. HT ♀ MNHNP. [6601472]
- setigera**. China (Yunnan), Thailand [OR].
Myoleja setigera Hardy 1973[1942]: 260.—Thailand. Petchaboon [Phetchabun]. HT ♂ KUB. [6601594]
- seychellensis**. Seychelles [AF].
Acidia seychellensis Lamb 1914[2827]: 316.—Seychelles. Silhouette I.: plateau of Mare aux Cochons. HT ♀ BMNH. [6602923]
- superflucta**. s. China, Malaysia (w. & Sarawak), Japan (Ryukyu Is.), Taiwan, Philippines, Indonesia (Maluku) [OR, AU].
Trypeta superflucta Enderlein 1911[1326]: 428.—Taiwan. Takao. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601149]
- taylori**. Indonesia (Irian Jaya), Papua New Guinea, New Britain, Solomon Is., Caroline Is. [AU].
Pseudospheniscus taylori Malloch 1939[3137]: 450.—Papua New Guinea. Morobe: Bulolo. HT ♂ AMS. [6603360]
Hendelina parva Hardy & Adachi 1956[1970]: 18.—Belau. Merir I. HT ♂ USNM. [6601877]
- tsaratanana**. Madagascar [AF].
Myoleja tsaratanana Hancock 1985[1885]: 297.—Madagascar. North, Massif Tsaratanana, below Andohanisambirana, Matsabory, 1900 m. HT ♀ MNHNP. [6601473]

Genus PHORELLIOSOMA

Phorelliosoma Hendel 1914[2102]: 85, *hexachaeta* Hendel (OD). [6600361]

ambitosum. India (W. Bengal) [OR].

Phorelliosoma ambitosum Hering 1941[2196]: 25.—India. W. Bengal: Darjeeling. ST ♂ ♀ ZMHU. [6602521]

hexachaeta. Burma, Taiwan [OR].

Phorelliosoma hexachaeta Hendel 1914[2102]: 85.—Formosa [Taiwan]. T A MNM, DEI. [6601940]

Phorelliosoma hexachaeta Hendel 1915[2105]: 447.—Taiwan. Fuhosho; Mount Hoozan; & Toyenmongai. ST ♂ ♀ MNM, DEI. Preocc. Hendel 1914. [6602091]

hilaratum. Burma [OR].

Phorelliosoma hilaratum Hering 1941[2196]: 25.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602522]

Genus PHYTALMIA

Phytalmia Gerstaecker 1860[1665]: 169, *cervicornis* Gerstaecker, Enderlein 1936[1334]: 229 (SD). [6600583]

Elaphomyia Saunders 1861[4283]: 413, *alcicornis* Saunders, Enderlein 1936[1334]: 230 (SD). [6600584]

Archiphytalmia Enderlein 1936[1334]: 230, *prisca* Enderlein (OD) = *cervicornis* Gerstaecker. [6600585]

REFS—Malloch 1939[3134]: 171 (key to 4 spp. [AU: New Guinea]); McAlpine & Schneider 1978[3249]: 164 (revision of 6 spp. [AU]).

alcicornis. Indonesia (Irian Jaya) [AU].

Elaphomyia alcicornis Saunders 1861[4283]: 415.—Indonesia. Irian Jaya: Dorey I. [Manokwari]. LT ♂ BMNH. Lectotype designated by McAlpine & Schneider 1978: 170. [6604169]

antilocapra. Papua New Guinea (Morobe) [AU].

Phytalmia antilocapra McAlpine & Schneider 1978[3249]: 170.—Papua New Guinea. Morobe: near Lae, Bubia. HT ♂ AMS. [6603422]

biarmata. Indonesia (Irian Jaya), Papua New Guinea [AU].

Phytalmia biarmata Malloch 1939[3134]: 174.—Papua New Guinea. Central: upper St. Joseph [Angabanga] R., Mondo [8°33'S 147°7'E], 5000 ft. HT ♂ BMNH. Type data (McAlpine & Schneider 1978: 171). [6603306]

cervicornis. Indonesia (Irian Jaya), Papua New Guinea [AU].

Phytalmia cervicornis Gerstaecker 1860[1665]: 173.—Nova Guinea [New Guinea]. LT ♂ ZMHU. Lectotype designation by inference of holotype by McAlpine & Schneider 1978: 166. [6601398]

Elaphomyia cervicornis Saunders 1861[4283]: 414.—Indonesia. Irian Jaya: Dorey I. [Manokwari]. LT ♂ BMNH. Preocc. Gerstaecker 1860; Lectotype designated by McAlpine & Schneider 1978: 166. [6604168]

Archiphytalmia prisca Enderlein 1936[1334]: 230.—Indonesia. Irian Jaya: Sattelberg on Huongolf. HT ♂ ZMHU. [6601203]

megalotis. Indonesia (Irian Jaya), Papua New Guinea [AU].

Phytalmia megalotis Gerstaecker 1860[1665]: 172.—Nova Guinea [New Guinea]. LT ♂ ZMHU. Lectotype designation by inference of holotype by McAlpine & Schneider 1978: 166. [6601397]

Elaphomyia wallacei Saunders 1861[4283]: 414.—Indonesia. Irian Jaya: Dorey I. [Manokwari]. LT ♂ BMNH. Lectotype designated by McAlpine & Schneider 1978: 166. [6604166]

mouldsi. Australia (n. Qld.) [AU].

Phytalmia mouldsi McAlpine & Schneider 1978[3249]: 166.—Australia. Queensland: Iron Range District, 8 km. W of Mt. Lamond, West Claudie R. HT ♂ AMS. [6603421]

robertsi. Papua New Guinea (Morobe, Madang) [AU].

Phytalmia robertsi Schneider 1993[4307]: 3.—Papua New Guinea. Morobe: Bulolo, Robbies Creek. HT ♂ AMS. [6605347]

Genus PIESTOMETOPON

Piestometopon Meijere 1914[3319]: 213, *luteiceps* Meijere (MO). [6600386]

Elleipsa Hardy 1970[1940]: 90, *quadrifasciata* Hardy (OD) = *luteiceps* Meijere. [6600380]

REF.—Permkam & Hancock 1995[3795]: 1145 ((*Elleipsa*) revision of 2 spp. [AU]).

distinctum. Australia (se. Qld.) [AU].

Elleipsa distincta Permkam & Hancock 1995[3795]: 1146.—Australia. Queensland: Toowoomba. HT ♂ QMBA. [6605859]

luteiceps. Singapore, Philippines (Palawan), Indonesia (Java), Australia (Torres Strait), Tonga [OR, AU].

Piestometopon luteiceps Meijere 1914[3319]: 214.—Indonesia. Java: Tandjong Priok [Port of Jakarta]. HT ♂ ZMAN. Type data (Hardy 1987: 349). [6604932]

Elleipsa quadrifasciata Hardy 1970[1940]: 90.—Philippines. Palawan: Balabac I., Dalawan Bay. HT ♂ UZMC. [6601534]

Genus PLACACIURA

Placaciura Hendel 1927[2107]: 110, *Aciura alacris* Loew (OD). [6600310]

alacris. sw. Russia [PA].

Aciura alacris Loew 1869[3041]: 24.—Russia. Sarepta. T ♀ ZMHU. [6603146]

Genus PLATENSINA

Platensina Enderlein 1911[1326]: 453, *sumbana* Enderlein (OD). [6600623]

Tephrostola Bezzi 1913[448]: 153, *Trypeta acrostacta* Wiedemann (OD). [6600432]

REFS—Shiraki 1933[4432]: 338 (key to 2 spp. [OR: Taiwan]); Munro 1937[3481]: 12 (key to 4 spp. [AF]); Munro 1947[3496]: 209 (key to 6 spp. [AF]); Hardy 1973[1942]: 300 (key to 7 spp. [OR: Southeast Asia]); Hardy 1974[1943]: 223 (key to 4 spp. [OR: Philippines]); Hardy 1988[1965]: 43 (key to 5 spp. [OR, AU: Indonesia to Solomon Is.]); Kapoor 1993[2600]: 60 (key to 5 spp. [OR: India]); Hardy & Drew 1996[1972]: 317 (revision of 4 spp. [AU: Australia]).

acrostacta. Pakistan, India, Sri Lanka, Bangladesh, Thailand, Cambodia [OR].

Tephritis acrostacta Wiedemann 1824[5133]: 54.—India orient. [e. India]. LT ♂ UZMC. Lectotype designated by Hardy 1969: 478. [6604716]

Ensina guttata Macquart 1843[3076]: 387.—India. Tamil Nadu: coast of Coromandel. T ♀ MNHNP? Type data (Hardy 1973: 301). [6603226]

Trypeta stella Walker 1849[4957]: 1030.—India. North Bengal. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 224. [6604570]

alboapicalis. Burma [OR].

Platensina alboapicalis Hering 1938[2181]: 46.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602383]

- amita**. Philippines (Luzon) [OR].
Platensina amita Hardy 1974[1943]: 224.—Philippines. Luzon, Benguet: Mount Santo Tomas, near Baguio, 2196 m. HT ♂ BBM. [6601654]
- ampla**. Indonesia (Java, Nusa Tenggara, Maluku), Papua New Guinea [OR, AU].
Platensina ampla Meijere 1914[3319]: 217.—Indonesia. Java: Batavia [Jakarta]; & Semarang. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1988: 44 invalid. [6604934]
- amplipennis**. India & Taiwan SE to Australia (Qld.) & Solomon Is., Guam, Micronesia, Northern Marianas [OR, AU].
Trypeta amplipennis Walker 1860[4966]: 159.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 208. [6604630]
Platensina platyptera Hendel 1915[2105]: 461.—Taiwan. Taihorin. HT ♀ MNM. [6602106]
Platensina malaita Curran 1936[1047]: 29.—Solomon Is. Malaita I., Tai Lagoon. HT ♀ CAS. Type data (Arnaud 1979: 331). [6600872]
Platensina dubia Malloch 1939[3137]: 459.—Australia. Queensland: Gordonvale. HT ♀ AMS? HT in ANIC according to Hardy & Drew 1996: 318. [6603364]
Platensina dilatata Hering 1941[2194]: 63.—Papua New Guinea. Madang: Astrolabe Bay, Stephansort [Bogadjim, 5°26'S 145°44'E]. HT ♂ MNM. [6602504]
Platensina amplissima Osten Sacken 1882[3722]: 228.—*Nomen nudum*. Attributed to Walker. [6605650]
- apicalis**. Taiwan [OR].
Platensina apicalis Hendel 1915[2105]: 462.—Taiwan. Chip-Chip. HT ♀ MNM. [6602108]
- aptata**. Philippines (Luzon) [OR].
Platensina aptata Hardy 1974[1943]: 225.—Philippines. Luzon, Nueva Vizcaya: Dalton Pass, 915 m. HT ♀ BBM. [6601655]
- bezzii**. Philippines (Luzon) [OR].
Platensina bezzii Hardy 1974[1943]: 226.—Philippines. Luzon, Laguna: Mount Makiling. HT ♂ MCSNM. [6601656]
- diaphasis**. Ivory Coast & Tanzania to South Africa, Madagascar [AF].
Aedaspis diaphasis Bigot 1891[509]: 384.—Ivory Coast. Assinie. ST ♂ UMO. [6600558]
Euaesta strictifrons Bezzi 1918[456]: 31.—South Africa. Natal: Durban, Umbilo. HT ♀ BMNH. [6600301]
Pliomelaena stigmatica Bezzi 1924[470]: 533.—South Africa. Natal: Durban. HT ♂ SAMCT. [6600414]
- euryptera**. Burma, Thailand, Indonesia (Nusa Tenggara) [OR].
Tephritis euryptera Bezzi 1913[448]: 162.—Burma. Tenasserim. HT ♀ ZSI. [6600229]
Platensina extincta Hering 1952[2217]: 47.—Indonesia. Nusa Tenggara: e. Sumba I., Baing, Wai Lekabe. HT ♂ NMB. [6602669]
- fukienica**. China (Fujian) [OR].
Platensina fukienica Hering 1939[2183]: 146.—China. Fujian: Kwang-Tseh. HT ♀ ZFMK. [6602428]
- fulvifacies**. India (Maharashtra) [OR].
Platensina fulvifacies Hering 1941[2195]: 71.—India. Maharashtra: Lonauli [Lonaula]. HT ♂ MNM. [6602544]
- guttatolimbata**. Madagascar [AF].
Trypeta guttatolimbata Enderlein 1911[1326]: 429.—Madagascar. Ambodimanga. HT ♂ PAN. [6601150]
- intacta**. Thailand, Cambodia, Vietnam [OR].
Platensina intacta Hardy 1973[1942]: 305.—Thailand. Chiang Mai: Doi Suthep. HT ♂ BBM. [6601608]
- katangana**. Zaire, Uganda [AF].
Platensina katangana Munro 1937[3481]: 23.—Zaire. Shaba: Sandoa. HT ♀ SANC. [6603589]
- nigrodiscalis**. Uganda [AF].
Platensina nigrodiscalis Munro 1947[3496]: 213.—Uganda. Budongo Forest. HT ♂ BMNH. [6603681]
- parvipuncta**. Australia (Qld.) [AU].
Platensina parvipuncta Malloch 1939[3137]: 458.—Australia. Queensland: Cairns. HT ♂ AMS? HT in ANIC according to Hardy & Drew 1996: 320. [6603363]
- quadrula**. Thailand, Cambodia [OR].
Platensina quadrula Hardy 1973[1942]: 307.—Thailand. Phra Nakhon: Bangkhen [Bang Khen, 13°52'N 100°36'E]. HT ♂ KUB. [6601609]
- sumbana**. Indonesia (Java, Nusa Tenggara); Borneo? [OR].
Platensina sumbana Enderlein 1911[1326]: 454.—Indonesia. Nusa Tenggara: Sumba I. HT ♀ PAN. Type data (Hardy 1988: 48). [6601165]
- tetrica**. India (Tamil Nadu), Vietnam, w. Malaysia [OR].
Platensina tetrica Hering 1939[2182]: 179.—India. Tamil Nadu: Trichinopolis. HT ♂ MNHNP. [6602412]
- trimaculata**. Australia (Qld.) [AU].
Platensina trimaculata Hardy & Drew 1996[1972]: 320.—Australia. Queensland: 52 km. SSW of Mt. Garnet, 18°5'S 144°52'E, 700 m. HT ♀ ANIC. [6605935]
- voneda**. probably Afrotropical or Oriental Region [UK].
Trypeta voneda Walker 1849[4957]: 1028.—Brazil. Bahia [error, not neotropical]. LT ♀ BMNH. Lectotype designation by inference of holotype by Foote 1964: 325. N. Comb. [6604568]
- woodi**. Malawi, Zimbabwe [AF].
Pliomelaena woodi Bezzi 1924[472]: 131.—Malawi. HT ♂ BMNH. [6600485]
- zodiacalis**. Sri Lanka, Nepal to Laos, Malaysia, Philippines, Indonesia (Maluku), n. Australia [OR, AU].
Tephritis zodiacalis Bezzi 1913[448]: 163.—India. W. Bengal: Calcutta. HT ♀ ZSI. [6600233]
Platensina zodiakalis Hering 1956[2226]: 69.—missp. *zodiacalis* Bezzi. [6602726]

Genus *PLATOMMA*

Platomma Bezzi 1924[470]: 526, *Trypeta lunifera* Loew (OD). [6600179]

REF.—Munro 1963[3516]: 53 (key to 2 spp. [AF]).

luniferum. Namibia, South Africa [AF].

Trypeta lunifera Loew 1861[3031]: 268.—Caffreri [South Africa, probably Cape: Little Namaqualand]. T ♀ ZMHU. Type data (Munro 1963: 57). [6603065]

Trypeta lunifera Loew 1862[3037]: 4.—Caffraria [South Africa, probably Cape: Little Namaqualand]. T ♀ ZMHU. Preocc. Loew 1861; type data (Munro 1963: 57). [6605257]

nigrantior. South Africa [AF].

Platomma nigrantior Munro 1963[3516]: 58.—South Africa. Cape: Kalahari Gemsbok National Park. HT ♂ SANC. [6603814]

Genus *PLATYPAREA*

Platyparea Loew 1862[3038]: 25, *Musca discoidea* Fabricius, Rondani 1870[4204]: 9 (SD). Designation of *Musca poeciloptera* Schrank by Hendel 1914: 84 invalid. [6600307]

Platyparella Hendel 1914[2102]: 83, *Musca discoidea* Fabricius (OD). [6600309]

Platiparea Rondani 1870[4205]: 9, missp. *Platyparea* Loew. [6600853]

Platiparea Foote 1984[1517]: 118, missp. *Platyparea* Loew. Attributed to “authors”. [6600969]

discoidea. Britain & Scandinavia S to France, Bulgaria & Ukraine [PA].

Musca discoidea Fabricius 1787[1376]: 351.—Denmark. Hafniae [Copenhagen]. T A UZMC. Type data (Zimsen 1964: 494). [6601208]

Trypeta lychnidis: Meigen 1826[3306]: 324.—misid. [6605651]

dorsata. China (Gansu) [PA].

Platyparella dorsata Zia 1938[5309]: 26.—China. se. Gansu: Cheumen [Yumen]. HT ♂ IZAS. [6604848]

Genus *PLATYSTOMOPSIS*

Platystomopsis Hering 1939[2182]: 172, *clathrata* Hering (OD). [6600362]

clathrata. Vietnam [OR].

Platystomopsis clathrata Hering 1939[2182]: 172.—Vietnam. Ha Son Binh: Hoa Binh. HT ♀ MNHNP. [6602404]

Genus *PLAUMANNIMYIA*

Plaumannimyia Hering 1938[2178]: 190, *pallens* Hering (OD). [6600057]

costaemaculata. Brazil (Santa Catarina) [NT].

Plaumannimyia costaemaculata Hering 1940[2188]: 29.—Brazil. Santa Catarina: Nova Teutonia. HT ♀ BMNH. [6602463]

pallens. Brazil (Santa Catarina) [NT].

Plaumannimyia pallens Hering 1938[2178]: 190.—Brazil. Santa Catarina: Nova Teutonia, Correio Ita. ST ♂ ♀ BMNH. [6602329]

Genus *PLIOMELAENA*

Pliomelaena Bezzi 1918[455]: 220, *Euaesta brevifrons* Bezzi, Munro 1937[3481]: 13 (SD). Proposed as a subgenus. [6600624]
Protephritis Shiraki 1933[4432]: 439, *Tephritis sauteri* Enderlein (OD). [6600438]

Indaresta Hering 1941[2192]: 36, *callista* Hering (OD). [6600430]

Pliomelaena Bezzi 1918[456]: 30, *Euaesta brevifrons* Bezzi, Munro 1937[3481]: 13 (SD). Preocc. Bezzi 1918: 220. [6600817]

Oliomelaena Bezzi 1924[471]: 89, missp. *Pliomelaena* Bezzi. [6600825]

REFS—Shiraki 1933[4432]: 441 ((*Protephritis*) key to 2 spp. [OR: Taiwan]); Munro 1937[3481]: 10 (key to 4 spp. [AF]); Munro 1947[3496]: 194 (key to 12 spp. [AF]); Ito 1984[2419]: 225 (key to 2 spp. [OR: Japan: Ryukyu Is.]); Hardy 1988[1965]: 51 (key to 9 spp. [OR, AU]); Kapoor 1993[2600]: 60 (key to 3 spp. [OR: India]).

assimilis. Japan (Ryukyu Is.), Taiwan [OR].

Protephritis assimilis Shiraki 1968[4435]: 79.—Japan. Ryukyu Is.: Ishigaki I. HT ♂ USNM. [6604355]

brevifrons. Cameroon & Ethiopia to South Africa [AF].

Euaesta brevifrons Bezzi 1918[456]: 30.—South Africa. Natal: Durban, Umbilo. ST ♂ ♀ BMNH. [6600300]

Pliomelaena brevifrons var. *aspila* Bezzi 1924[472]: 130.—Malawi. Ruo. HT ♂ BMNH. [6600484]

Pliomelaena xyphosiina Bezzi 1924[472]: 129.—Ethiopia. Harar: Dire-Daua [Dire Dawa]. LT ♂ MNM. [6600482]

Pliomelaena brevifrons var. *rufiventris* Bezzi 1924[470]: 532.—South Africa. Natal: Zululand, M'fongosi. ST ♂ ♀ SAMCT. [6600413]

Pliomelaena brevifrons ssp. *perspicua* Munro 1947[3496]: 206.—Kenya. slopes of Mt. Kenya, Nanyuki. HT ♂ SANC. [6603678]

Pliomelaena brevifrons ssp. *regressa* Munro 1947[3496]: 206.—Uganda. Ruwenzori Range, Namwamba Valley, 6500 ft. HT ♀ BMNH. [6603679]

caeca. Malawi [AF].

Pliomelaena caeca Bezzi 1924[472]: 130.—Malawi. Limbe. HT ♂ BMNH. [6600483]

callista. Indonesia (Nusa Tenggara, Irian Jaya), Papua New Guinea [OR, AU].

Indaresta callista Hering 1941[2192]: 36.—Indonesia. Nusa Tenggara: Soembawa [Sumbawa I.], Batoe Doelang. HT ♀ DEI. [6602481]

discosa. South Africa [AF].

Pliomelaena discosa Munro 1947[3496]: 198.—South Africa. Natal: Durban, Benmore. HT ♂ SANC. [6603677]

Pliomelaena brevifrons: Munro 1937[3481]: 15.—misid. See Munro 1947: 198. [6605815]

exilis. Zimbabwe [AF].

Pliomelaena exilis Munro 1947[3496]: 197.—Zimbabwe. Limpopo River, Birchenough Bridge. HT ♂ SANC. HT transferred from TMP. [6603676]

joanetta. Ethiopia, South Africa [AF].

Pliomelaena joanetta Munro 1947[3496]: 207.—South Africa. Transvaal: Njelele River, farm Joan. HT ♀ SANC. [6603680]

luzonica. Philippines (Luzon) [OR].

Pliomelaena luzonica Hardy 1974[1943]: 242.—Philippines. Luzon, Laguna: Los Banos. HT ♂ UZMH. [6601658]

Pliomelaena sauteri Hardy 1974[1943]: 243.—*Nomen nudum*. Attributed to Frey. [6605840]

parviguttata. Ethiopia [AF].

Pliomelaena parviguttata Hering 1952[2219]: 97.—Ethiopia. Caschei. HT ♀ BMNH. [6602689]

quadrimaculata. India (Himachal Pradesh) [OR].

Pliomelaena quadrimaculata Agarwal & Kapoor 1989[47]: 33.—India. Himachal Pradesh: Simla, Glen. HT ♀ INPC. [6600075]

sauteri. Taiwan; Indonesia (Java)? [OR].

Tephritis sauteri Enderlein 1911[1326]: 456.—Taiwan. Ryukokado. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601168]

shirouzui. Japan (Ryukyu Is.) [OR].

Pliomelaena shirouzui Ito 1984[2419]: 226.—Japan. Ryukyu Is.: Okinawahonto, Gogayama. HT ♂ UOPI. [6602824]

sonani. Taiwan [OR].

Protephritis sonani Shiraki 1933[4432]: 443.—Taiwan. Taikan; Arisan. ST ♂ ♀ NTU. [6604316]

stevensoni. Kenya, Zimbabwe, South Africa [AF].

Pliomelaena stevensoni Munro 1937[3481]: 16.—Zimbabwe. Bulawayo; & South Africa. Transvaal: Nylstroom. ST ♂ ♀ SANC. [6603587]

translucida. Sri Lanka [OR].

Pliomelaena translucida Hering 1942[2207]: 5.—Ceylon [Sri Lanka]. HT ♂ ZMHU. [6602624]

udhampurensis. India (Jammu & Kashmir) [OR].

Pliomelaena udhampurensis Agarwal & Kapoor 1988[45]: 119.—India. Jammu & Kashmir: Udhampur. HT ♂ INPC. [6600070]

zonogastra. India (Punjab, Himachal Pradesh, Orissa, Uttar Pradesh) [OR].

Tephritis zonogastra Bezzi 1913[448]: 164.—India. Orissa: Puri. T A ZSI. ST apparently lost (Zaka-ur-Rab 1963: 657). [6600230]

Genus *PLIOREOCEPTA*

Plioreocepta Korneyev 1987[2726]: 39, n. n. *Poeciloptera* Loew. [6600716]

Poeciloptera Loew 1846[3022]: 95, *Ortalis fulminans* Meigen (OD) = *poeciloptera* Schrank. Preocc. Latreille 1804. [6600308]
Pliorecepta White & Elson-Harris 1992[5111]: 408, missp. *Pliorecepta* Korneyev. [6600879]

poeciloptera. Britain & Sweden S to France, cent. Europe & Bulgaria, E to Central Asia [PA].
Musca poeciloptera Schrank 1776[4311]: 96.—Austria. Linz. T A Unknown. [6604200]
Ortalis fulminans Meigen 1826[3306]: 275.—Germany. Berlin. HT ♀ MNHNP. [6603425]

Genus *POECILOTHEA*

Poecilothea Hendel 1914[2102]: 83, *angustifrons* Hendel (OD). [6600428]

angustifrons. Taiwan [OR].
Poecilothea angustifrons Hendel 1914[2102]: 83.—Formosa [Taiwan]. T A MNM. [6601936]
Poecilothea angustifrons Hendel 1915[2105]: 443.—Taiwan. Toyenmongai; & Mount Hoozan. ST ♂ ♀ MNM. Preocc. Hendel 1914: 83. [6602088]

Genus *POLIONOTA*

Polionota Wulp 1899[5217]: 409, *Acrotaxa mucida* Giglio-Tos (OD). [6600058]
Polionota Aczel 1950[14]: 247, missp. *Polionota* Wulp. [6600904]

REF.—Norrbon 1988[3651]: 108 (revision of 8 spp. [NT]).

beckeri. Guatemala [NT].
Polionota beckeri Hering 1953[2221]: 7.—Guatemala. near Quezaltenango, Berg Baul, 2500 m. HT ♂ BMNH. [6602715]
fantastica. Mexico (Chiapas), Guatemala [NT].
Polionota fantastica Norrbom 1988[3651]: 115.—Mexico. Chiapas: San Cristobal de las Casas. HT ♂ UCB. [6603921]
kohnae. Mexico (Puebla, Chiapas), Guatemala; Belize? [NT].
Polionota kohnae Norrbom 1988[3651]: 117.—Guatemala. Sacatepequez: Finca San Rafael. HT ♀ FMNH. [6603923]
magnipennis. Costa Rica, Bolivia [NT].
Polionota magnipennis Hendel 1914[2103]: 27.—Bolivia. La Paz: Mapiri, Sarampioni, 700 m. HT ♀ SMT. [6601975]
mucida. Mexico (Jalisco, Guerrero, Morelos, Veracruz, Oaxaca), Costa Rica [NE, NT].
Acrotaxa mucida Giglio-Tos 1893[1685]: 10.—Mexico. HT ♂ IMZ. Type data (Giglio-Tos 1895: 58). [6601403]
Polionota mucida Norrbom 1988[3651]: 120.—missp. *mucida* Giglio-Tos. [6605798]
parva. Brazil (Sao Paulo, Santa Catarina) [NT].
Polionota parva Norrbom 1988[3651]: 110.—Brazil. Sao Paulo: Salesopolis, Est. Biol. Boraceia. HT ♀ USP. [6603920]
radians. Mexico (Guerrero) [NE].
Polionota radians Wulp 1899[5217]: 410.—Mexico. Guerrero: Sierra de las Aguas Escondidas, 9500 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 240. [6604788]
reedae. Mexico (Chiapas), Guatemala [NT].
Polionota reedae Norrbom 1988[3651]: 116.—Guatemala. Sacatepequez: Antigua. HT ♀ USNM. [6603922]

Genus *POLYARA*

Polyara Walker 1859[4964]: 122, *insolita* Walker (MO). [6600522]

REF.—Hardy 1986[1962]: 104 (key to 3 spp. [AU]).

bambusae. Papua New Guinea (Morobe) [AU].
Polyara bambusae Hardy 1986[1962]: 105.—Papua New Guinea. Morobe: near Bulolo, upper Stony logging area. HT ♂ BBM. [6601760]
insolita. Indonesia (Maluku, Irian Jaya), Papua New Guinea [AU].
Polyara insolita Walker 1859[4964]: 123.—Indonesia. Maluku: Aru Is. ST ♂ UMO, BMNH. Type data (Smith & Taylor 1964: 30, Hardy 1959: 191). [6604617]
leptotrichosa. Papua New Guinea (Morobe) [AU].
Polyara leptotrichosa Hardy 1986[1962]: 107.—Papua New Guinea. Morobe: Bulolo, Manki logging area. HT ♂ BBM. [6601761]

Genus *POLYAROIDEA*

Polyaroidea Hardy 1988[1964]: 105, *distincta* Hardy (OD). [6600549]
Polyaroidea Hardy 1988[1964]: 78, incosp. *Polyaroidea* Hardy, by present revision. [6601017]

REF.—Hardy 1988[1964]: 105 (key to 3 spp. [AU]).

distincta. Papua New Guinea [AU].
Polyaroidea distincta Hardy 1988[1964]: 106.—Papua New Guinea. Morobe: Mt. Kaindi [7°21'S 146°41'E], 2350 m. HT ♂ BBM. [6601846]
opposita. Papua New Guinea (E. Highlands) [AU].
Polyaroidea opposita Hardy 1988[1964]: 106.—Papua New Guinea. Eastern Highlands: Kawkaw. HT ♀ BBM. [6601847]
univittata. Papua New Guinea (Morobe) [AU].
Polyaroidea univittata Hardy 1988[1964]: 107.—Papua New Guinea. Morobe: Mt. Kaindi [7°21'S 146°41'E], 350 m. HT ♀ BBM. [6601848]

Genus *POLYMORPHOMYIA*

Polymorphomyia Snow 1894[4527]: 165, *basilica* Snow (MO). [6600059]

REFS—Aczel 1953[24]: 149 (revision of 3 spp. [NT]); Korytkowski 1971[2761]: 446 (key to 4 spp. [NT]).

basilica. Cuba, Dominican Republic, Jamaica, Puerto Rico [NT].
Polymorphomyia basilica Snow 1894[4527]: 165.—Dominican Republic. Santo Domingo. HT ♀ UKaL. Type data (Byers et al. 1962: 180). [6604371]
footei. Peru [NT].
Polymorphomyia footei Korytkowski 1971[2761]: 446.—Peru. Lambayeque: Lambayeque. HT ♀ UPRG. [6602905]
pilosula. Mexico (San Luis Potosi & Veracruz) SE to Costa Rica [NT].
Polymorphomyia pilosula Wulp 1899[5217]: 411.—Mexico. Tabasco: Teapa. LT ♀ BMNH. Lectotype designated by Foote 1965: 240. [6604789]
striola. Guyana [NT].
Tephritis striola Fabricius 1805[1380]: 318.—America meridionali [Guyana]. T A UZMC. Type data (Zimsen 1964: 493). **N. Comb.** [6601231]
tridentata. Ecuador, Peru, Bolivia, Paraguay, Argentina, s. Brazil [NT].
Pseudeutreta tridentata Hendel 1914[2103]: 58.—Peru. Callanga; Paraguay. Central: Asuncion. ST ♂ ♀ MNM, NMW. [6602020]

Genus *PROANOPLOMUS*

Proanoplomus Shiraki 1933[4432]: 127, *japonicus* Shiraki (OD). [6600311]

- Paranoplomus* Shiraki 1933[4432]: 131, *formosanus* Shiraki (OD). [6600405]
Parnaoplomus Hardy 1977[1946]: 96, missp. *Paranoplomus* Shiraki. Attributed to “authors”. [6600970]
- REFS—Hardy 1973[1942]: 266 (key to 8 spp. (obsolete) [OR: Southeast Asia]); Ito 1984[2416]: 66 (key to 2 spp. [PA: Japan]); Hancock & Drew 1994[1242]: 878 (key to 10 spp. [OR]).
- affinis.** China (Zhejiang) [PA, OR].
Proanoplomus affinis Chen 1948[814]: 89.—China. Zhejiang: Tianmushan. HT ♀ IZAS. [6600720]
- arcus.** Japan (Honshu) [PA].
Paranoplomus arcus Ito 1949[2402]: 53.—Japan. Honshu: Wakayama Prov., Koyasan, 900 m. HT ♀ UOPJ. [6602759]
- caudatus.** China (Yunnan) [OR].
Anoplomus caudatus Zia 1964[5314]: 44.—China. Yunnan: Shishong-Baanna [Xishuangbanna], 700 m. HT ♀ IZAS. [6604874]
- cylindricus.** Taiwan [OR].
Proanoplomus cylindricus Chen 1948[814]: 91.—Formosa [Taiwan]. HT ♀ IZAS. [6600721]
- formosanus.** Burma, Taiwan [OR].
Paranoplomus formosanus Shiraki 1933[4432]: 131.—Taiwan. Arisan. ST ♂ ♀ NTU. [6604262]
- intermedius.** China (Fujian) [OR].
Proanoplomus intermedius Chen 1948[814]: 91.—China. Fujian: Shao-Woo [Shaowu]. HT ♀ IZAS. [6600722]
- japonicus.** Japan (Hokkaido, Honshu, Shikoku, Kyushu); Burma? [PA].
Proanoplomus japonicus Shiraki 1933[4432]: 128.—Japan. Nagano; Kogota; Otoineppu; & Fukuoka. ST ♂ ♀ NTU. [6604261]
Paragastrozoa nigricaudus Shinji 1940[4428]: 162.—Japan. Honshu: near Morioka, Kamiyonai. HT ♀ Shinji. [6604257]
Paragastrozoa nigricaudus Shinji 1940[4429]: 194.—Japan. Honshu: near Morioka. HT ♀ Shinji. Preocc. Shinji 1940: 162. [6605279]
- longimaculatus.** Burma [OR].
Proanoplomus longimaculatus Hardy 1973[1942]: 268.—Burma. Kachin: Kambaiti [25°24'N 98°9'E], 2000 m. HT ♀ UZMH. Depository misstated?, NRS? [6601596]
- nigroscutellatus.** China (Yunnan) [OR].
Proanoplomus nigroscutellatus Zia 1964[5314]: 45.—China. Yunnan: Shishong-Baanna [Xishuangbanna], 1200 m. HT ♂ IZAS. [6604875]
- omeiensis.** China (Sichuan) [PA].
Proanoplomus omeiensis Zia 1964[5314]: 47.—China. Sichuan: Omeishan [Emei Shan]. HT ♀ IZAS. [6604877]
- spenceri.** Vietnam [OR].
Proanoplomus spenceri Hardy 1973[1942]: 273.—Vietnam. Fyan, 1200 m. HT ♀ BBM. [6601599]
- yunnanensis.** China (Yunnan, Guangxi), Laos, Thailand [OR].
Proanoplomus yunnanensis Zia 1964[5314]: 46.—China. Yunnan: Shishong-Baanna [Xishuangbanna]. HT ♀ IZAS. [6604876]
Proanoplomus trimaculatus Hardy 1973[1942]: 274.—Laos. Nam Tiene. HT ♂ UZMH. [6601600]
- Genus PROCECIDOCHARES**
- Procecidochares* Hendel 1914[2102]: 91, *Trypeta atra* Loew (OD). [6600580]
Callachna Aldrich 1929[70]: 11, *Trypeta gibba* Loew (OD). N. Syn. [6600728]
- Procecidochares* Hendel 1914[2103]: 42, *Trypeta atra* Loew (OD). Preocc. Hendel 1914: 91. [6600778]
Oedaspis-solidago Patton 1897[3765]: 247, *Nomen nudum*. [6600731]
Procecidochares Aldrich 1929[70]: 11, missp. *Procecidochares* Hendel. [6600894]
- REFS—Bezzi & Tavares 1916[480]: 161 (key to 7 spp. [NE, NT]); Aldrich 1929[70]: 2 (key to 9 spp. [NE]); Aczel 1953[24]: 125 (key to 2 spp. [NE, NT]); Foote & Blanc 1963[1521]: 50 (key to 5 spp. [NE: USA: California]); Foote, Blanc & Norrbom 1993[1523]: 304 (key to 11 spp. [NE: USA & Canada]).
- alani.** Mexico (Veracruz); introduced Australia, Hawaii [NT, AU].
Procecidochares alani Steyskal 1974[4638]: 639.—Mexico. Veracruz: La Barranca del Tigre, 760 m. HT ♀ USNM. [6604395]
- anthracina.** USA (Oregon & Montana S to California, Arizona & Colorado) [NE].
Oedaspis anthracina Doane 1899[1189]: 180.—USA. Idaho: Collins. LT ♀ WSU. Lectotype designated by Foote 1966: 121; type data (Zack 1984: 32). [6600917]
- atra.** Canada to Mexico (Idaho, Ontario & Nova Scotia, S to Sonora, Missouri & Florida) [NE].
Trypeta atra Loew 1862[3036]: 219.—USA. New York. ST ♂ ♀ NMW. [6603109]
Oedaspis setigera Coquillett 1899[953]: 262.—USA. Rhode Island: Bristol; Virginia; Georgia; Missouri: Kirkwood; & Kansas: Baldwin. ST ♂ ♀ USNM. [6600776]
- australis.** USA (Maryland S to Florida, Texas) [NE].
Procecidochares australis Aldrich 1929[70]: 9.—USA. Texas: Waco. HT ♀ USNM. [6600088]
- blantoni.** USA (Oregon) [NE].
Procecidochares blantoni Hering 1940[2189]: 12.—USA. Oregon: Salem. HT ♀ BMNH. [6602430]
- flavipes.** USA (California, New Mexico), Mexico (Baja California) [NE].
Procecidochares flavipes Aldrich 1929[70]: 5.—Mexico. Baja California: Gulf of California [error?], Socorro I. [Revillagigedo Is.?, 2000 ft. HT ♀ CAS. Type data (Arnaud 1979: 331, Foote et al. 1993: 312). [6600085]
- gibba.** Canada & USA (Iowa & Nova Scotia S to Texas & Florida) [NE].
Trypeta gibba Loew 1873[3042]: 260.—USA. Texas. HT ♀ MCZ. N. Comb. [6603167]
Trypeta gibbosa Viereck 1917[4921]: 453.—missp. *gibba* Loew. [6605552]
- grindeliae.** USA (California, Colorado) [NE].
Procecidochares grindeliae Aldrich 1929[70]: 6.—USA. California: Alameda. HT ♂ USNM. [6600086]
- minuta.** USA (Washington E to Montana, S to Arizona & Texas) [NE].
Oedaspis minuta Snow 1894[4527]: 164.—USA. Montana. HT ♂ UKaL. Type data (Foote 1962: 176). [6604370]
Oedaspis atra: Felt 1918[1407]: 198.—misid. [6605611]
- montana.** USA (Montana, Colorado, Arizona), Mexico (Guerrero, Morelos, Veracruz) [NE].
Oedaspis montana Snow 1894[4527]: 163.—USA. Montana. HT ♂ UKaL. Type data (Foote 1962: 176). [6604368]
- pleuralis.** USA (Arizona), Mexico (Durango) [NE].
Procecidochares pleuralis Aldrich 1929[70]: 9.—USA. Arizona: Fort Huachuca. HT ♀ USNM. [6600087]
- pleuritica.** Paraguay [NT].
Procecidochares pleuritica Hendel 1914[2103]: 43.—Paraguay. La Cordillera: San Bernardino. HT ♂ NMW. [6602000]

- polita**. USA (Massachusetts S to Florida, Mississippi) [NE].
Trypeta polita Loew 1862[3033]: 77.—USA. Mississippi; & Washington, DC. ST ♀ MCZ. [6603095]
- stonei**. USA (California) [NE].
Procecidochares stonei Blanc & Foote 1961[522]: 77.—USA. California: San Diego Co., San Ysidro. HT ♀ USNM. [6600570]
- utilis**. Mexico (Michoacan, Morelos); introduced Australia, New Zealand, Hawaii, South Africa, India, China [NE, AF, OR, AU].
Procecidochares utilis Stone 1947[4676]: 97.—Mexico. Morelos: Cuernavaca. HT ♀ USNM. [6604500]

Genus *PROCECIDOCHAROIDES*

Procecidocharoides Foote 1960[1492]: 671, *Trypeta penelope* Osten Sacken (OD). [6600732]

REFS—Foote 1960[1492]: 671 (revision of 3 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 319 (key to 3 spp. [NE]).

- flavissimus**. USA (n. California) [NE].
Procecidocharoides flavissima Foote 1960[1492]: 672.—USA. California: Siskiyou Co., Yreka, Humbug. HT ♀ USNM. [6601272]
- penelope**. Canada & USA (Iowa, Michigan, Ontario & New York, S to w. South Carolina) [NE].
Trypeta penelope Osten Sacken 1877[3718]: 346.—USA. New York: Manlius. ST ♂ ♀ MCZ. [6603940]
- pullatus**. USA & Mexico (Arizona & New Mexico S to Puebla) [NE].
Procecidocharoides pullata Foote 1960[1492]: 673.—USA. Arizona: Chiricahua. HT ♀ USNM. [6601273]

Genus *PROEPACROCERUS*

Proepacrocerus Hardy 1988[1964]: 110, *pallidoviridis* Hardy (OD). [6600550]

- pallidoviridis**. Indonesia (Irian Jaya) [AU].
Proepacrocerus pallidoviridis Hardy 1988[1964]: 110.—Indonesia. Irian Jaya: Bokondini, 40 km. N of Baliem Val., c. 1300 m. HT ♀ BBM. [6601849]

Genus *PROSPHENISCUS*

Prospheiscus Shiraki 1933[4432]: 174, *miyakei* Shiraki (OD). [6600429]

- miyakei**. Taiwan [OR].
Prospheiscus miyakei Shiraki 1933[4432]: 175.—Taiwan. Muscha [Musha]. HT ♀ NTU. [6604267]

Genus *PROTORTALOTRYPETA*

Protortalotrypeta Norrbom 1994[3662]: 2, *grimaldii* Norrbom (OD). [6600866]

- grimaldii**. Dominican Republic (Miocene or Oligocene) [NT].
Protortalotrypeta grimaldii Norrbom 1994[3662]: 4.—Dominican Republic. El Valle region (Miocene or Oligocene amber). HT ♀ AMNH. [6605331]

Genus *PSEDNOMETOPUM*

Psednometopum Munro 1937[3481]: 21, *Tephritis aldabrensis* Lamb (OD). [6600155]
Psednometopum Munro 1937[3481]: 22, incosp. *Psednometopum* Munro by present revision. [6600850]

- aldabrensis**. Seychelles (Aldabra) [AF].
Tephritis aldabrensis Lamb 1914[2827]: 319.—Seychelles. Aldabra. ST ♂ ♀ BMNH. [6602925]
- nigritum**. Kenya, Zimbabwe, South Africa [AF].
Pseudonmetopum aldabrensis var. *nigritum* Munro 1937[3481]: 22.—South Africa. Transvaal: Barberton, Stentor; & Cape: East London. ST ♂ ♀ SANC. [6603588]

Genus *PSEUDACANTHONEURA*

Pseudacanthoneura Malloch 1939[3137]: 434, *septemnotata* Malloch (OD) = *sexguttata* Meijere. [6600523]

- aberrans**. Papua New Guinea [AU].
Pseudacanthoneura aberrans Hardy 1986[1962]: 109.—Papua New Guinea. Morobe: near Bulolo, upper Stony logging area, 765 m. HT ♂ BBM. [6601762]
- sexguttata**. Indonesia (Irian Jaya), Papua New Guinea, Australia (n. Qld.) [AU].
Acanthoneura sexguttata Meijere 1913[3316]: 364.—Indonesia. Irian Jaya: Lorentz R. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1986: 110 invalid. [6604916]
Pseudacanthoneura septemnotata Malloch 1939[3137]: 434.—Papua New Guinea. West Sepik: Vanimo [2°41'S 141°18'E]. HT ♂ AMS. Type data (Permkam & Hancock 1995: 1110). [6603354]

Genus *PSEUDACROTOXA*

Pseudacrotoxa Hering 1941[2193]: 51, *appendicigera* Hering (OD). [6600551]

- appendicigera**. Papua New Guinea [AU].
Pseudacrotoxa appendicigera Hering 1941[2193]: 52.—Papua New Guinea. Morobe: Huon Gulf, Simbana. HT ♀ MNM. [6602493]

Genus *PSEUDAFREUTRETA*

Pseudafreutreta Hering 1942[2207]: 7, *fatua* Hering (OD). [6600180]

- bicolor**. Uganda [AF].
Pseudafreutreta bicolor Munro 1957[3510]: 896.—Uganda. Budongo Forest. HT ♂ BMNH. [6603769]
- biseriata**. Kenya, Uganda, Zimbabwe, South Africa [AF].
Afreutreta biseriata Bezzi 1924[470]: 528.—South Africa. Natal [error, Zimbabwe]. ST A BMNH. [6605062]
Afreutreta biseriata Bezzi 1924[472]: 128.—Zimbabwe. Chirinda Forest. HT ♂ BMNH. Preocc. Bezzi 1924: 528. [6600481]
- fatua**. Ghana, Nigeria, Cameroon [AF].
Pseudafreutreta fatua Hering 1942[2207]: 8.—Cameroon. Jaunde [Yaounde] region, “im Buschwald”. ST ♂ ♀ ZMHU. [6602626]

Genus *PSEUDEUTRETA*

Pseudeutreta Hendel 1914[2102]: 86, *Trypeta adspersa* Wiedemann (OD). [6600062]
Pseudeutreta Hendel 1914[2103]: 56, *Trypeta adspersa* Wiedemann (OD). Preocc. Hendel 1914: 86. [6600772]

REFS—Hendel 1914[2103]: 56 (key to 5 spp. [NT]); Aczel 1953[24]: 149 ((*Polymorphomyia*) revision of 10 spp. [NT]).

- adspersa**. Brazil (Santa Catarina) [NT].
Trypeta adspersa Wiedemann 1830[5136]: 487.—Brasilien [Brazil]. ST ♀ NMW. [6604732]

- anteapicalis**. Bolivia, Paraguay, Argentina, s. Brazil [NT].
Pseudeutreta anteapicalis Hendel 1914[2103]: 57.—Brazil. Rio Grande do Sul; Paraguay. Central: Asuncion. ST ♂ NMW, MNM. [6602019]
Pseudeutreta bosqui Aczel 1953[24]: 161.—*Nomen nudum*. T ♀ IPV? Attributed to Blanchard. [6605800]
- baccharidis**. Argentina (San Juan, Mendoza) [NT].
Aciura baccharidis Kieffer & Jorgensen 1910[2670]: 370.—Argentina. Mendoza: Pedregal, San Ignacio, & Chacras de Coria; & San Juan: Cancete. ST ♂ ♀ Kieffer (destroyed). [6602867]
- falcigera**. Argentina (San Juan, Mendoza) [NT].
Aciura falcigera Kieffer & Jorgensen 1910[2670]: 371.—Argentina. Mendoza: Pedregal, San Ignacio, & Chacras de Coria; & San Juan: Cancete. ST ♂ Kieffer (destroyed). [6602868]
- ilonae**. Argentina (Tucuman) [NT].
Polymorphomyia ilonae Aczel 1953[24]: 161.—Argentina. Tucuman: San Pedro de Colalao. HT ♂ IML. [6600023]
- ligularis**. Bolivia, Brazil (Minas Gerais, Sao Paulo), Argentina (Misiones) [NT].
Pseudeutreta ligularis Bates 1933[349]: 52.—Bolivia. “Sara Prov.” HT ♂ MCZ. [6600096]
Pseudeutreta nitida Aczel 1953[24]: 165.—*Nomen nudum*. T ♀ IPV? Attributed to Blanchard. [6605801]
- lunulata**. Brazil [NT].
Platystoma lunulata Macquart 1851[3085]: 255.—Brazil. Valle Grande. T ♂ MNHNP. Sex of ST misstated as female; Taf. 26, Fig. 3 & ST in MNHNP is male. **N. Comb.** [6603238]
- nobilis**. Argentina (Santa Fe) [NT].
Polymorphomyia nobilis Aczel 1953[24]: 165.—Argentina. Santa Fe: Piquete. HT ♂ IML. [6600024]
- orfilai**. Bolivia to Argentina (San Luis & Santa Fe) [NT].
Polymorphomyia orfilai Aczel 1953[24]: 168.—Argentina. Cordoba: Arguello. HT ♂ MACN. [6600025]
- paragranum**. Argentina (Jujuy to Mendoza & Santa Fe) [NT].
Pseudeutreta paragranum Hering 1942[2207]: 4.—Argentina. Salta: 2500 m. ST ♂ ♀ ZMHU. [6602623]
- quadrigutta**. South America [NT].
Trypeta quadrigutta Walker 1853[4959]: 386.—South America. LT A BMNH. Lectotype designation by inference of holotype by Foote 1964: 323. [6604592]

Genus PSEUDOEDASPIS

- Pseudoedaspis* Hendel 1914[2102]: 86, *biseta* Hendel (OD). [6600064]
Pseudoedaspis Hendel 1914[2103]: 44, *biseta* Hendel (OD). Preocc. Hendel 1914: 86. [6600773]
 REF.—Aczel 1953[24]: 178 (revision of 3 spp. [NT]).

- biseta**. cent. & s. Argentina [NT].
Pseudoedaspis biseta Hendel 1914[2102]: 86.—Argentina. T A SMT, NMW. [6601942]
Pseudoedaspis biseta Hendel 1914[2103]: 44.—Argentina. Mendoza: Rivadavia. ST ♂ ♀ SMT, NMW. Preocc. Hendel 1914: 86. [6602003]
- decorata**. Chile [NT].
Ortalis decorata Blanchard 1852[525]: 453.—Chile. Coquimbo. T A MNHNP. ST apparently lost. **N. Comb.** [6605077]
- mendozaana**. Argentina (Mendoza) [NT].
Pseudoedaspis mendozaana Aczel 1953[24]: 182.—Argentina. Mendoza: Chacras de Coria. HT ♂ IML. [6600027]

- oreiplana**. Argentina (Mendoza) [NT].
Trypeta oreiplana Kieffer & Jorgensen 1910[2670]: 434.—Argentina. Mendoza: cordillera. ST ♂ ♀ Kieffer (destroyed). [6602872]
- striolata**. Chile [NT].
Ortalis striolata Blanchard 1852[525]: 454.—Chile. Coquimbo. T A MNHNP. 1 male ST in MNHNP. **N. Comb.** [6605078]

Genus PSEUDOMYOLEJA

- Pseudomyoleja* Han & Freidberg 1994[1871]: 548, *nigricrus* Han & Freidberg (OD). [6600869]
- flavicus**. Nigeria [AF].
Pseudomyoleja flavicus Han & Freidberg 1994[1871]: 552.—Nigeria. Kaduna: Zaria, Samar. HT ♀ NMWC. [6605364]
- nigricrus**. Zaire, Malawi [AF].
Pseudomyoleja nigricrus Han & Freidberg 1994[1871]: 549.—Zaire. Upemba Nat. Park. “R. Bowa af. dr. Kalule N. pres Kiamalwa”. HT ♂ MRAC. [6605363]

Genus PSEUDONEOTHEMARA

- Pseudoneothemara* Hardy 1986[1962]: 111, *Themarohystrix exul* Curran (OD). [6600524]
- exul**. New Britain, New Ireland, Solomon Is. [AU].
Themarohystrix exul Curran 1936[1047]: 27.—Solomon Is. Mouo I. HT ♀ AMNH. [6600870]
- repleta**. Indonesia (Maluku) [AU].
Strumeta repleta Walker 1861[4971]: 296.—Indonesia. Maluku: Batchian [Bacan I.]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 205. [6604651]

Genus PSEUDOPELMATOPS

- Pseudopelmatops* Shiraki 1933[4432]: 49, *nigricostalis* Shiraki (OD). [6600314]
Pseudopelmatopus Hardy 1977[1946]: 76, missp. *Pseudopelmatops* Shiraki. Attributed to “authors”. [6600971]
- angustifasciatus**. China (Sichuan, Yunnan, Hubei, Zhejiang, Fujian) [PA, OR].
Pseudopelmatops angustifasciatus Zia & Chen 1954[5317]: 310.—China. Zhejiang: Tianmushan; Fujian: Shao-Woo [Shaowu]. ST ♀ IZAS. [6604883]
- continentalis**. China (Sichuan, Yunnan, Zhejiang, Fujian) [OR].
Pseudopelmatops nigricostalis ssp. *continentalis* Zia & Chen 1954[5317]: 310.—China. Zhejiang: Tienmushan [Tianmushan]; Fujian: Chongan. ST ♂ IZAS. Type data on p. 314 partly erroneous. [6604882]
- nigricostalis**. Taiwan; Japan? [OR].
Pseudopelmatops nigricostalis Shiraki 1933[4432]: 51.—Taiwan. Arisan. ST ♂ NTU. [6604325]

Genus PSEUDOPHORELLIA

- Pseudophorellia* Lima 1934[2957]: 139, *maculata* Lima (OD). [6600065]
- maculata**. Brazil (Amazonas, Rio de Janeiro) [NT].
Pseudophorellia maculata Lima 1934[2957]: 140.—Brazil. Rio de Janeiro: Praia Vermelha. HT ♂ IOC. [6602930]
- stonei**. Panama [NT].
Pseudophorellia stonei Lima 1953[2970]: 151.—Panama. Canal Zone, Barro Colorado I. HT ♀ USNM. [6602971]

Genus PSEUDOPOLIONOTA

Pseudopolionota Lima 1935[2958]: 200, *radians* Lima (OD). [6600066]

radians. Brazil (Rio de Janeiro) [NT].

Pseudopolionota radians Lima 1935[2958]: 202.—Brazil. Rio de Janeiro: Corcovado, Paineiras. HT ♀ IOC. [6602957]

Pseudopolionota radicans Aczel 1950[14]: 257.—missp. *radians* Lima. [6605742]

Genus PSEUDORELLIA

Pseudorellia Shiraki 1933[4432]: 376, *nigrinotum* Shiraki (OD). [6600416]

nigrinotum. Taiwan [OR].

Pseudorellia nigrinotum Shiraki 1933[4432]: 378.—Taiwan. Daisuikutsu. HT ♀ NTU. [6604304]

Genus PSEUDOSOPHIRA

Pseudosphira Malloch 1939[3137]: 414, *bakeri* Malloch (OD). [6600377]

bakeri. Philippines (Samar, Bohol, Mindanao) [OR].

Pseudosphira bakeri Malloch 1939[3137]: 415.—Philippines. Mindanao, Lanao del Norte: Kolambugan [8°07'N 123°55'E]. HT ♂ USNM. [6603342]

Genus PTEROPE

Pterope Munro 1957[3510]: 877, *rubens* Munro (OD). [6600107]

rubens. Uganda [AF].

Pterope rubens Munro 1957[3510]: 877.—Uganda. Ruwenzori Range, Namwamba Valley, 6500 ft. HT ♂ BMNH. [6603758]

Genus PTILOEDASPIS

Ptiloedaspis Bezzi 1920[462]: 9, *tavaresiana* Bezzi (OD). [6600313]

tavaresiana. Spain [PA].

Ptiloedaspis tavaresiana Bezzi 1920[462]: 10.—Spain. Saragossa. HT ♀ MCSNM. [6600360]

Genus PTILONA

Ptilona Wulp 1880[5209]: 183, *brevicornis* Wulp, Bezzi 1913[448]: 110 (SD) = *confinis* Walker. [6600577]

Ptilona Malloch 1939[3137]: 441, missp. *Ptilona* Wulp. [6600932]

REFS—Shiraki 1933[4432]: 325 (key to 2 spp. [OR: Taiwan]); Hardy 1973[1942]: 160 (key to 5 spp. [OR]); Hardy 1974[1943]: 145 (key to 6 spp. [OR, AU]).

confinis. India & s. China to New Guinea, sw. Pacific [OR, AU].

Rioxa confinis Walker 1856[4962]: 132.—Malaysia. Sarawak. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 192. [6604604]

Themara alboguttata Doleschall 1858[1203]: 124.—Indonesia. Maluku: Amboina [Ambon I.]. T A ZMHU. Possibly also ST in NMW (Bezzi 1913: 66). [6600942]

Trypeta basifascia Walker 1860[4966]: 158.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 211. [6604627]

Rioxa bimaculata Walker 1860[4967]: 164.—Indonesia. Maluku: Amboina [Ambon I.]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 192. [6604638]

Ptilona brevicornis Wulp 1880[5209]: 185.—Indonesia. Java. HT ♀ ZMAN. Lectotype designated by Hardy 1969: 477 invalid, described from one female. [6604768]

Ptilona nigriventris Bezzi 1913[448]: 110.—Bangladesh. Sylhet; & India. Assam. ST ♂ ♀ ZSI. [6600198]

Ptilona armatipes Hering 1953[2221]: 4.—China. Fujian: Kuantun. HT ♂ ZFMK. [6602712]

Trypeta nigricauda Bezzi 1913[448]: 111.—*Nomen nudum*. India. Assam. ST A ZSI. Attributed to Bigot. [6605051]

continua. Philippines (Luzon, Mindanao) [OR].

Ptilona continua Hardy 1974[1943]: 147.—Philippines. Mindanao, Zamboanga del Norte: Masawan-Gundawan, 1260-1350 m. HT ♀ BBM. [6601637]

dolorosa. Burma [OR].

Ptilona dolorosa Hering 1938[2181]: 50.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602388]

malaisei. Burma [OR].

Ptilona malaisei Hering 1938[2181]: 50.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602387]

nigrifacies. Vietnam [OR].

Ptilona nigrifacies Hardy 1973[1942]: 164.—Vietnam. Fyan, 1200 m. HT ♀ BBM. [6601561]

persimilis. s. China, Burma, Thailand, Laos, w. Malaysia, Taiwan [OR].

Ptilona persimilis Hendel 1915[2105]: 446.—Taiwan. Taihorin; Taitorinsho; & Polisha. ST ♂ ♀ MNM. [6602090]

Ptilona maligna Hering 1938[2181]: 51.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602389]

Ptilona conformis Zia 1965[5315]: 214.—China. Yunnan: Da-Mon-Long [Damenglong]. HT ♀ IZAS. [6605036]

Genus PTILONIOLA

Ptiloniola Hendel 1914[2102]: 79, *preussi* Hendel (OD) = *tripunctulata* Karsch. [6600108]

REF.—Munro 1967[3521]: 589 (revision of 3 spp. [AF]).

edwardsi. Uganda [AF].

Ptiloniola edwardsi Munro 1967[3521]: 591.—Uganda. Ruwenzori Range, Namwamba Valley, 6500 ft. HT ♂ BMNH. [6603847]

rotunda. Kenya [AF].

Ptiloniola rotunda Munro 1967[3521]: 591.—Kenya. Kalifi. HT ♂ SANC. [6603846]

tripunctulata. Nigeria, Cameroon, Kenya, Angola, Malawi, Zimbabwe [AF].

Hemilea tripunctulata Karsch 1887[2618]: 5.—Angola. Pungo Andongo. ST ♀ ZMHU. Inference of HT by Munro (1967: 589) invalid. [6602857]

Ptiloniola preussi Hendel 1914[2102]: 79.—Cameroon. T A Unknown. [6601927]

Ptiloniola neavei Bezzi 1918[455]: 247.—Malawi. Mlanje: Mt. Mlanje [Sapitwa]. ST ♂ ♀ BMNH. [6600292]

Genus PTOSANTHUS

Ptosanthus Munro 1957[3510]: 1010, *Trypeta helva* Loew (OD). [6600193]

REF.—Munro 1957[1560]: 924 (key to 2 spp. [AF]).

aida. Ethiopia [AF].

Paroxyna aida Hering 1937[2173]: 261.—Ethiopia. Harrar [Harar: Harar]. ST ♂ ♀ ZMHU. [6602282]

Paroxyna aida Hering 0137[2173]: 261.—incosp. *aida* Hering. Automatic correction under Art. 32(d). [6605900]

helvus. Ethiopia, Uganda, Kenya, South Africa [AF].

Trypeta helva Loew 1861[3031]: 294.—Caffrerei [South Africa. probably Natal: Durban-Pietermaritzburg area]. T ♀ NRS? Type data (Munro 1957: 1011). [6603080]

Euribia lightfooti Bezzi 1924[470]: 556.—South Africa. Cape: East London. ST ♂ ♀ SAMCT. [6600436]

Mesoclanis trifasciata Hering 1939[2182]: 182.—Kenya. Escarpment. ST ♂ ♀ NMW. [6602415]

Paroxyna zavattariana Hering 1952[2219]: 98.—Ethiopia. Sidamo: Mega. ST ♂ ♀ BMNH. [6602690]

Trypeta helva Loew 1862[3037]: 6.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605272]

Genus PYCNELLA

Pycnella Munro 1947[3496]: 95, *Zacerata taomyioides* Bezzi (OD). [6600181]

taomyioides. South Africa [AF].

Zacerata taomyioides Bezzi 1924[470]: 500.—South Africa. Cape: Great Brak R., Mossel Bay. HT ♂ SANC. [6600397]

Genus PYRGOTOIDES

Pyrgotoides Curran 1934[1046]: 289, *crassipes* Curran (OD). [6600067]

crassipes. Panama [NT].

Pyrgotoides crassipes Curran 1934[1046]: 289.—Panama. T A AMNH? ST possibly lost, not found in AMNH (Arnaud & Owen 1981: 151). [6600868]

Pyrgotoides clavipes Curran 1934[1046]: 290.—incosp. *crassipes* Curran. Arnaud & Owen 1981: 151 (FR). [6605831]

Genus QUASICOORONGA

Quasicooronga Hardy & Drew 1996[1972]: 328, *connecta* Hardy & Drew (OD). [6601014]

REF.—Hardy & Drew 1996[1972]: 328 (revision of 2 spp. [AU]).

connecta. Australia (Vic.) [AU].

Quasicooronga connecta Hardy & Drew 1996[1972]: 328.—Australia. Victoria: Melbourne. HT ♂ ANIC. [6605936]

disconnecta. Australia (NSW) [AU].

Quasicooronga disconnecta Hardy & Drew 1996[1972]: 330.—Australia. New South Wales: 1 mi. W of West Wyalong. HT ♂ ANIC. [6605937]

Genus QUASIRHABDOCHAETA

Quasirhabdochaeta Hardy 1986[1962]: 114, *singularis* Hardy (OD). [6600525]

singularis. New Britain [AU].

Quasirhabdochaeta singularis Hardy 1986[1962]: 114.—Papua New Guinea. New Britain: Baining Vill. HT ♀ BBM. [6601763]

Genus RABAUZIA

Rabaulia Malloch 1939[3135]: 257, *fascifacies* Malloch (OD). [6600526]

REFS—Hardy 1986[1962]: 116 (key to 3 spp. [AU]); Permkam & Hancock 1995[3795]: 1112 (revision of 2 spp. [AU: Australia]).

fascifacies. New Britain, Solomon Is., Australia (Qld.) [AU].

Rabaulia fascifacies Malloch 1939[3135]: 258.—Solomon Is. Guadalcanal: Lunga. HT ♂ BMNH. [6603327]

invittata. Indonesia (Irian Jaya) [AU].

Rabaulia invittata Hering 1951[2214]: 6.—Indonesia. Irian Jaya: Holl. [Jayapura]. HT ♂ BMNH. [6602661]

nigrotibia. Papua New Guinea, Australia (n. Qld.) [AU].

Rabaulia nigrotibia Hering 1941[2194]: 61.—Papua New Guinea. West Sepik: Berlinhafen [Aitape], Seleo [3°8'S 142°29'E]. ST ♂ ♀ MNM. Inference of HT by Hardy 1986: 117, Permkam & Hancock 1995: 1114 invalid. [6602502]

Genus RABULIOMORPHA

Rabauliomorpha Hardy 1970[1940]: 122, *gibbosa* Hardy (OD). [6600527]

gibbosa. New Guinea, New Britain [AU].

Rabauliomorpha gibbosa Hardy 1970[1940]: 124.—Papua New Guinea. New Britain: Yalom, 1000 m. HT ♂ UZMC. [6601522]

Genus RACHIPTERA

Rachiptera Bigot 1859[497]: 313, *limbata* Bigot (MO). [6600068]

Percnoptera Philippi 1873[3823]: 306, *angustipennis* Philippi (MO) = *limbata* Bigot. [6600069]

Eupterocalla Brethes 1916[611]: 12, *opazoi* Brethes (OD) = *limbata* Bigot. [6600070]

Rhachiptera Marschall 1873[3187]: 344, missp. *Rachiptera* Bigot. [6600880]

Rhachiptera Bigot 1883[500]: LXXXVIII, missp. *Rachiptera* Bigot. [6600991]

REF.—Hendel 1914[2103]: 53 ((*Rhachiptera*) key to 3 spp. [NT]).

biarcuata. Chile [NT].

Rhachiptera biarcuata Hendel 1914[2103]: 54.—Chile. Bio Bio: Concepcion. ST ♂ ♀ MNM, NMW. [6602016]

limbata. Bolivia, Chile, Argentina [NT].

Rachiptera limbata Bigot 1859[497]: 313.—Chile [Chile]. HT ♂ UMO. Type data (Bigot 1883: LXXXVIII). [6600550]

Percnoptera angustipennis Philippi 1873[3823]: 306.—Chile. ST ♂ ♀ MNHNS. [6603992]

Eupterocalla opazoi Brethes 1916[611]: 12.—Chile. Coquimbo: La Serena. ST ♀ MACN? [6600630]

percnoptera. Chile [NT].

Rhachiptera percnoptera Hendel 1914[2103]: 53.—Chile. Antofagasta: Taltal; & Bernardo O'Higgins: Rancagua. ST ♂ ♀ SMT, NMW. [6602015]

virginalis. Brazil [NT].

Rhachiptera virginalis Hering 1942[2207]: 8.—Brazil. ST ♂ ♀ ZMHU. [6602625]

Genus RHABDOCHAETA

Rhabdochaeta Meijere 1904[3311]: 109, *pulchella* Meijere (MO). [6600609]

REFS—Bezzi 1924[472]: 151 (key to 5 spp. [AF]); Bezzi 1926[475]: 309 (key to 2 spp. [OR]); Shiraki 1933[4432]: 486 (key to 2 spp. [OR: Taiwan]); Lin & Tseng 1974[2978]: 220 (key to 2 spp. [OR: Taiwan]); Hardy 1974[1943]: 207 (key to 3 spp. [OR: Philippines]); Ito 1984[2420]: 281 (key to 3 spp. [PA: Japan]); Hardy

1985[1960]: 60 (key to 5 spp. [OR, AU]); Kapoor 1993[2600]: 30 (key to 3 spp. [OR: India]); Hardy & Drew 1996[1972]: 332 (key to 5 spp. [AU]).

advena. Tanzania [AF].

Rhabdochaeta advena Hering 1942[2206]: 290.—Tanzania. Lake Nyassa, Langenburg. HT ♀ ZMHU. [6602598]

affinis. China (Guangxi) [OR].

Rhabdochaeta affinis Zia 1939[5310]: 16.—China. Guangxi: Yangso [Yangshuo]. HT ♀ IZAS. [6604863]

ampla. Thailand, Vietnam [OR].

Rhabdochaeta ampla Hardy 1973[1942]: 286.—Vietnam. Mount Lang Bian, 1500-2000 m. HT ♂ BBM. [6601606]

asteria. Japan (Honshu, Kyushu, Ryukyu Is.), Taiwan, India to Vietnam, Philippines, Papua New Guinea [PA, OR, AU].

Rhabdochaeta asteria Hendel 1915[2105]: 462.—Taiwan. Tainan: Takao; & Chip-Chip. ST ♂ ♀ MNM, NMW. Type data (Hardy 1968: 121). [6602107]

crockeri. Indonesia (Irian Jaya), Papua New Guinea, New Britain, Australia (Torres Strait), Solomon Is. [AU].

Rhabdochaeta crockeri Curran 1936[1047]: 28.—Solomon Is. Santa Cruz Group, Matema I., Mohawk Bay. HT ♀ CAS. Type data (Arnaud 1979: 332). [6600871]

Rhabdochaeta cockeri Hardy 1985[1960]: 66.—missp. *crockeri* Curran. [6601753]

formosana. Taiwan [OR].

Rhabdochaeta formosana Shiraki 1933[4432]: 491.—Taiwan. Taito; Chipon; Koshun; Kanshirei. ST ♂ ♀ NTU. [6604324]

gladifera. India [OR].

Rhabdochaeta gladifera Hering 1941[2195]: 73.—India. Maharashtra: Lonauli [Lonaula]. HT ♀ MNM. [6602547]

guamae. Guam [AU].

Rhabdochaeta guamae Malloch 1942[3143]: 204.—Guam. HT ♂ USNM. [6603373]

lutescens. Ethiopia, Rwanda, Tanzania [AF].

Rhochmopterum lutescens Bezzi 1924[472]: 153.—Uganda [error, Ethiopia. Tshertsher; & Tanzania. Kilimanjaro: Moshi[3°21'S 37°20'E]]. ST ♂ ♀ MNM. Type data (Munro 1935: 161). [6600507]

multilineata. Thailand, Malaysia (w. & Sarawak), Philippines, Indonesia (Nusa Tenggara) [OR].

Rhabdochaeta multilineata Hering 1941[2192]: 44.—Indonesia. Nusa Tenggara: Flores I., Rana Mese. HT ♀ MLUH. [6602488]

naevia. Japan (Ryukyu Is.) [OR].

Rhabdochaeta naevia Ito 1984[2420]: 283.—Japan. Ryukyu Is.: Iriomotezima, Hunaura. HT ♀ UOPI. [6602830]

neavei. Malawi, Zimbabwe [AF].

Rhabdochaeta neavei Bezzi 1920[463]: 270.—Malawi. SW of Lake Chilwa. HT ♀ BMNH. [6600359]

nigra. Liberia; Uganda & Tanzania to Namibia & South Africa [AF].

Rhabdochaeta nigra Bezzi 1924[472]: 151.—Malawi. Ruo; & Uganda. Mujenje. ST ♂ ♀ BMNH, MNM. Type data (Munro 1935: 159). [6600502]

obsoleta. Ethiopia [AF].

Rhabdochaeta obsoleta Bezzi 1924[472]: 151.—Ethiopia. Harar: Dire-Daua [Dire Dawa]. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 160. [6600504]

pluscula. Bismarck Arch. (Mussau I.) [AU].

Rhabdochaeta pluscula Hardy 1970[1940]: 128.—Papua New Guinea. New Ireland: Mussau I., Boliu. HT ♂ UZMC. [6601524]

pulchella. India, Sri Lanka, Thailand, Laos, Vietnam, Japan (Ryukyu Is.), Philippines, Malaysia, Indonesia, Papua New Guinea, Australia (Qld.) [OR, AU].

Rhabdochaeta pulchella Meijere 1904[3311]: 109.—Indonesia. Java: Pasuruan. LT ♀ ZMAN. Lectotype designated by Hardy 1969: 478. [6604900]

Rhabdochaeta bakeri Bezzi 1914[450]: 328.—Philippines. Luzon, Laguna: Los Banos. ST ♂ ♀ Baker. ST currently in MCSNM. [6600250]

Rhabdochaeta mucronata Hering 1942[2206]: 289.—Ceylon [Sri Lanka]. HT ♀ ZMHU. [6602597]

Rhabdochaeta assidua Ito 1984[2420]: 284.—Japan. Ryukyu Is.: Isigakizima, Arakawa. HT ♀ UOPI. [6602831]

queenslandica. Australia (Qld.) [AU].

Rhabdochaeta queenslandica Hardy & Drew 1996[1972]: 336.—Australia. Queensland: Broadbeach. HT ♂ ANIC. [6605938]

spinosa. Seychelles [AF].

Rhabdochaeta spinosa Lamb 1914[2827]: 320.—Seychelles. Silhouette I.: nr. Mont Pot-a-eau, ca. 1500 ft.; Mahe: near Morne Blanc; & Cascade Estate, ca. 800 ft. ST ♂ ♀ BMNH. [6602926] *Rhabdochaeta speciosa* Cogan & Munro 1980[882]: 553.—missp. *spinosa* Lamb. Attributed to “authors”. [6605778]

subspinosa. Uganda [AF].

Rhabdochaeta subspinosa Bezzi 1924[472]: 151.—Uganda. Mujenje. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 159. [6600503]

Rhabdochaeta nigra var. *anteroflava* Munro 1929[3459]: 14.—Namibia. Kaokoveld, Warmbad, 10 mi. se. Zesfontein. ST ♂ ♀ SAMCT. **N. Syn.** [6603473]

wedelia. Australia (Qld.) [AU].

Rhabdochaeta wedelia Hardy & Drew 1996[1972]: 338.—Australia. Queensland: Marcus Beach. HT ♂ ANIC. [6605939]

Genus RHAGOLETIS

Rhagoletis Loew 1862[3038]: 44, *Musca cerasi* Linnaeus (MO). [6600602]

Zonosema Loew 1862[3038]: 43, *Tephritis alternata* Fallen, Rondani 1870[4204]: 6 (SD). [6600315]

Microrrhagoletis Rohdendorf 1961[4172]: 187, *samojlovitshae* Rohdendorf (OD). [6600317]

Megarrhagoletis Rohdendorf 1961[4172]: 196, *magniterebra* Rohdendorf (OD). [6600316]

Zonosema Johnson 1903[2505]: 106, missp. *Zonosema* Loew. [6600881]

Rhagoletis Van Duzee 1911[4886]: 244, missp. *Rhagoletis* Loew. [6600900]

REFS—Hendel 1927[2107]: 74 (key to 4 spp. [PA]); Hering 1941[2202]: 141 (key to 3 spp. [NT: Peru]); Westcott 1982[5078]: 25 (diagnosis of 2 spp. of *pomonella* group [NE]); Aczel 1954[25]: 76 (key to 10 spp. [NT]); Hering 1958[2231]: 1 (key to 9 spp. [PA]); Rohdendorf 1961[4172]: 176 (revision of 16 spp. [PA]); Jermy 1961[2479]: 136 (key (tabular) to 2 spp. [PA]); Kandybina 1961[2565]: 109 (key to larvae of 5 spp. [PA]); Foote & Blanc 1963[1521]: 55 (key to 8 spp. [NE: USA: California]); Bush 1966[683]: 454 (revision of 22 spp. [NE]); Richter 1970[4087]: 146 (key to 8 spp. [PA: e. Europe]); Kandybina 1972[2575]: 543 (key to 3 spp. [NE, PA]); Steyskal 1973[4636]: 522 (key to larvae of 3 spp. of *suavis* group [NE]); Kandybina 1977[2576]: 129 (key to larvae of 15 spp. [NE, PA]); Foote 1981[1515]: 9 (revision of 21 spp. [NT]); Berlocher & Bush 1982[415]: 136 (phylogeny [NE, PA]); White 1988[4235]: 39 (key to 3 spp. [PA: Britain]); White & Elson-Harris 1992[5111]: 99, 125 (keys to adults of 16 spp. & larvae of 13 spp.

[NE, NT, PA]); Berlocher et al. 1993[417]: 716 (phylogeny of *pomonella* group [NE]); Foote, Blanc & Norrbom 1993[1523]: 328 (key to 25 spp. [NE: USA & Canada]); Merz 1994[3343]: 107 (key to 7 spp. [PA: cent. Europe]); Jenkins 1996[2476]: 1 (phylogeny [NE, NT, PA, OR]).

acuticornis. USA (California, Arizona, New Mexico, w. Texas) [NE].
Urophora acuticornis Steyskal 1979[4647]: 43.—USA. Texas: El Paso. HT ♂ USNM. [6604400]

adusta. Brazil (Sao Paulo) [NT].

Rhagoletis adusta Foote 1981[1515]: 45.—Brazil. Sao Paulo: Chapadao, Cantareira. HT ♀ USP. [6601291]

almatensis. Kazakstan [PA].

Rhagoletis almatensis Rohdendorf 1961[4172]: 181.—Kazakstan. Alma-Ata. HT ♂ ZISP. [6604108]

alternata. British Is. & Scandinavia S to France, Slovenia, Bulgaria & Kazakstan [PA].

Tephritis alternata Fallen 1814[1382]: 162.—Sweden. Esperod [Kristianstads: Asperod]. ST ♂ ♀ NRS. [6601236]

Trypeta continua Meigen 1826[3306]: 312.—Not stated [probably, Germany. Stolberg]. T ♂ MNHNP. [6603426]

Zonosema alternatum ssp. *orientale* Rohdendorf 1961[4172]: 194.—Russia. Khabarovskiy: Khekhstirsk Forestry. HT ♀ ZISP. [6604112]

Tephritis alternata Fallen 1820[1383]: 5.—Sweden. Esperod Scaniae [Kristianstads: Asperod]. LT A NRS. Preocc. Fallen 1814; Lectotype designated by Persson 1958: 106, sex of LT not stated. [6605166]

basiola. Canada & USA (Alaska & Yukon E to Nova Scotia, S to California, n. Mississippi & Maryland) [NE].

Trypeta basiolium Osten Sacken 1877[3718]: 348.—USA. Massachusetts: Brookline. LT ♀ MCZ. Lectotype designated by Bush 1966: 510. [6603942]

Spilographa setosa Doane 1899[1189]: 178.—USA. Idaho: Vollmer. LT ♀ USNM. Lectotype designated by Stone 1951: 47. [6600915]

Zonosema flavinotata Strickland 1938[4696]: 204.—missp. *flavonotata* Macquart. [6605555]

Trypeta flavinotata: Loew 1873[3042]: 244.—misid. See Stone 1951: 45. [6605652]

Rhagoletis alternata: Muesebeck 1950[3440]: 254.—misid. See Foote et al. 1993: 336. [6605566]

batava. Sweden, Netherlands, Switzerland, Caucasus, Russia (Tuva) [PA].

Rhagoletis batava Hering 1958[2231]: 2.—Netherlands. Terschelling I., Boschplaat. HT ♀ Theowald. [6602741]

Rhagoletis obscuriosa Kolomietz 1970[2703]: 41.—Russia. Tuva: Sarmagaltai, Altai Region, Biysk. T A ZISP? [6602875]

berberidis. Switzerland, Austria, Hungary, Ukraine, Caucasus [PA].

Rhagoletis berberidis Jermy 1961[2479]: 133.—Hungary. Akali. HT ♂ MNM. [6602836]

berberis. Canada & USA (British Columbia S to California & Utah) [NE].

Rhagoletis berberis Curran 1932[1042]: 8.—USA. Oregon: Hood River. HT ♀ AMNH. [6600863]

bezziana. India (Uttar Pradesh) [OR].

Zonosema bezzianum Hendel 1931[2114]: 13.—n. n. *dubium* Bezzi 1913. [6602201]

Zonosema dubium Bezzi 1913[448]: 135.—India. Uttar Pradesh: Naini Tal. HT ♂ ZSI? Preocc. Johnson 1903. [6600213]

blanchardi. Bolivia to Argentina (Cordoba & Santa Fe) [NT].

Rhagoletis blanchardi Aczel 1954[25]: 78.—Argentina. Salta: Urundel. HT ♂ MACN. [6600031]

Rhagoletis ochraspis: Blanchard 1942[532]: 32.—misid. See Aczel 1954: 78. [6605653]

boycei. USA (Arizona, New Mexico), Mexico (Sonora) [NE].

Rhagoletis boycei Cresson 1929[1014]: 413.—USA. Arizona: Cochise Co., Huachuca Mts., Carr Canyon. HT ♂ ANSP. [6600829]

caucasica. Russia (Caucasus) [PA].

Rhagoletis caucasica Kandybina & Richter 1976[2579]: 184.—Russia. Kabardino-Balkar: Tyrny-Auz, 2500 m. HT ♀ ZISP. [6602846]

cerasi. Europe, except British Is., & w. Siberia to Caucasus & Central Asia [PA].

Musca cerasi Linnaeus 1758[2981]: 600.—[France?]. LT A Reaumur. Lectotype designated by White 1987: 102, specimen of Reaumur 1737, pl. 38, fig. 23. [6602996]

Trypeta signata Meigen 1826[3306]: 332.—Not stated [Europe]. ST ♂ ♀ MNHNP. NMW ST from Megerle probably destroyed (Pont 1986). [6603438]

Urophora liturata Robineau-Desvoidy 1830[4148]: 771.—France. HT A Dejean. [6604079]

Urophora cerasorum Dufour 1845[1264]: 212.—France. T A MNHNP? Attributed to Redi 1671 (nonbinominal). [6601122]

Rhagoletis cerasi f. *obsoleta* Hering 1936[2168]: 182.—Germany. Berlin-Frohnau. HT ♂ BMNH. [6602241]

Rhagoletis cerasi spp. *fasciata* Rohdendorf 1961[4172]: 180.—Russia. Volgogradskaya: Sarepta. HT ♀ ZISP. [6604106]

Rhagoletis cerasi ssp. *nigripes* Rohdendorf 1961[4172]: 180.—Tadzhikistan. 60 km. from Zaamin, Turkestan range, Gurolash. HT ♀ ZISP. [6604107]

Tephritis ceraci Persson 1958[3797]: 111.—missp. *cerasi* Linnaeus. [6603990]

Musca solstitialis: Sulzer 1776[4714]: 216.—misid. [6605886]

chionanthi. USA (Pennsylvania, South Carolina, Georgia, Florida) [NE].

Rhagoletis chionanthi Bush 1966[683]: 482.—USA. Florida: Apopka. HT ♀ USNM. [6600644]

chumsanica. s. Kazakstan [PA].

Zonosema chumsanicum Rohdendorf 1961[4172]: 190.—Kazakstan. Bostandysk distr., Khumsan, Ugam R. HT ♀ ZISP. [6604110]

cingulata. Canada to USA (Iowa & Quebec S to Mississippi & Florida; Arizona, Texas), central Mexico; introduced Switzerland, n. Italy [NE, PA].

Trypeta cingulata Loew 1862[3033]: 76.—USA. “Middle States”. T ♀ MCZ. Type data (Bush 1966: 473). [6603094]

Ortalis cerasi: Harris 1835[2019]: 600.—misid. See Bush 1966: 473. [6605894]

Trypeta pomonella: Cook 1889[941]: 152.—misid. See Foote et al. 1993: 341. [6605584]

Rhagoletis cingulata ssp. *indifferens*: Padilla 1964[3731]: 9.—misid. See Foote 1981: 48. [6605598]

completa. USA & Mexico (Minnesota S to Nuevo Leon & Mississippi); introduced USA (Washington & Utah to California), Switzerland & n. Italy [NE, PA].

Rhagoletis suavis ssp. *completa* Cresson 1929[1014]: 412.—USA. California: San Bernardino Co., Chino. HT ♂ ANSP. [6600828]

Rhagoletis juglandis: Boyce 1929[583]: 269.—misid. See Foote et al. 1993: 341. [6605588]

conversa. Chile (Coquimbo to Los Lagos); introduced Easter I.? [NT].
Spilographa conversa Brethes 1919[612]: 43.—Chile. Rio Blanco. T A MACN. [6600631]

cornivora. Canada (Ontario), USA (costal plain, Maine S to Florida & S. Alabama) [NE].

Rhagoletis cornivora Bush 1966[683]: 470.—USA. Massachusetts: Lincoln. HT ♂ MCZ. [6600642]

- ebbettsi**. USA (California) [NE].
Rhagoletis ebbettsi Bush 1966[683]: 504.—USA. California: Alpine Co., 4 mi. E of Ebbetts Pass. HT ♀ USNM. [6600647]
- electromorpha**. USA (Nebraska, Kansas, Illinois) [NE].
Rhagoletis electromorpha Berlocher 1984[411]: 237.—USA. Illinois: Lisle. HT ♂ INHS. [6600167]
- emiliae**. Tadjikistan [PA].
Rhagoletis emiliae Richter 1974[4091]: 76.—Tadjikistan. n. slope of Hissar Range, Pereval Anzov, 2200 m. HT ♀ ZISP. [6604027]
- fausta**. Canada & USA (British Columbia & Montana S to California, Manitoba & New Brunswick S to Michigan & Pennsylvania) [NE].
Trypeta fausta Osten Sacken 1877[3718]: 346.—USA. New Hampshire: Mt. Washington, alpine region. LT ♀ MCZ. Lectotype designated by Bush 1966: 518. [6603939]
Rhagoletis intrudens Aldrich 1909[67]: 70.—Canada. British Columbia: Victoria. HT ♀ USNM. [6600077]
- ferruginea**. Brazil (Santa Catarina to Rio Grande do Sul), Uruguay, Argentina (Buenos Aires) [NT].
Rhagoletis ferruginea Hendel 1927[2110]: 64.—Brazil. Santa Cruz. ST ♀ ZSZMH. [6602147]
- flavicincta**. Ukraine, cent. & s. Russia to Kazakstan & Central Asia [PA].
Rhagoletis flavicincta Enderlein 1934[1332]: 426.—Russia. Sarepta. HT ♀ ZMHU. [6601201]
Rhagoletis flavicincta Loew 1873[3042]: 263.—*Nomen nudum*. [6603168]
- flavigenualis**. Turkey [PA].
Rhagoletis flavigenualis Hering 1958[2231]: 3.—Turkey. s. Anatolia, Antalya-Kas, Katrandag, 1100 m. HT ♂ SMN. [6602742]
- indifferens**. Canada & USA (British Columbia, Montana & Colorado S to n. California & New Mexico) [NE].
Rhagoletis indifferens Curran 1932[1042]: 8.—USA. Oregon: Hood River. HT ♂ AMNH. [6600864]
Rhagoletis cingulata: Wilson & Lovett 1913[5162]: 160.—misid. [6605560]
- jamaicensis**. Jamaica, Costa Rica, Venezuela [NT].
Rhagoletis jamaicensis Foote 1981[1515]: 39.—Jamaica. Hardwar Gap, 4000 ft. HT ♀ CNC. [6601290]
- juglandis**. USA (Utah, Arizona, New Mexico), Mexico (Durango) [NE].
Rhagoletis juglandis Cresson 1920[1013]: 65.—USA. Arizona: Cochise Co., Huachuca Mts., Carr Canyon. HT ♂ ANSP. [6600827]
- juniperina**. Canada & USA (Oregon & Idaho S to California & Arizona; s. Manitoba, New York, Massachusetts, Texas) [NE].
Rhagoletis juniperinus Marcovitch 1915[3175]: 171.—USA. New York: Ithaca, Six Mile Creek. LT ♂ MCZ. Lectotype designated by Bush 1966: 500. [6603380]
- kurentsovi**. e. Russia (Amurskaya) [PA].
Zonosema kurentsovi Rohdendorf 1961[4172]: 191.—Russia. Amurskaya: Khingan-Arkharin distr., Nikitin. HT ♂ ZISP. [6604111]
- lycopersella**. w. Peru [NT].
Rhagoletis lycopersella Smyth 1960[4522]: 16.—Peru. Libertad: Rio Chicama, near Trujillo. HT ♂ USNM. [6604365]
Rhagoletis ochraspis: Wille 1940[5147]: 382.—misid. [6605605]
- macquartii**. Brazil (Goias, Minas Gerais) [NT].
Trypeta macquartii Loew 1873[3042]: 267.—n. n. *scutellaris* Macquart 1851. [6603169]
Urophora scutellaris Macquart 1851[3085]: 261.—Brazil. Goias [Goias]. T A MNHNP. Preocc. Wiedemann 1830. [6603242]
- magniterebra**. Kazakstan, Central Asia [PA].
Megarrhagoletis magniterebra Rohdendorf 1961[4172]: 197.—Kazakstan. Alma Ata area, Zapovednik. HT ♂ ZISP. [6604114]
- meigenii**. n. Europe & w. Russia S to France, Hungary & Caucasus; introduced Canada (Nova Scotia) & USA (Maine, New Hampshire) [PA, NE].
Trypeta meigenii Loew 1844[3020]: 316.—not stated. T A ZMHU. Suspension of I.C.Z.N. rules required to validate usage. Female(s) misidentified by Meigen 1826 as *alternata* also are ST. [6603002]
Tephritis vicina Macquart 1835[3073]: 465.—France. T ♀ MHNLI. Has priority over *meigenii*, but synonymy uncertain. [6603200]
Zonosema meigeni Becker 1905[370]: 114.—missp. *meigenii* Loew. [6605655]
Trypeta alternata: Meigen 1826[3306]: 313.—misid. See Loew 1844: 316. [6605654]
- mendax**. Canada & USA (Wisconsin E to Nova Scotia, S to Texas & Florida) [NE].
Rhagoletis mendax Curran 1932[1042]: 7.—USA. Maine. HT ♂ AMNH. [6600862]
Rhagoletis pomonella: Britton 1906[623]: 260.—misid. See Foote et al. 1993: 353. [6605587]
- metallica**. Venezuela, Peru [NT].
Spilographa metallica Schiner 1868[4296]: 265.—South America [Venezuela]. HT ♀ NMW. Type data (Hardy 1968: 139). [6604180]
- mongolica**. Mongolia [PA].
Rhagoletis mongolica Kandybina 1972[2574]: 913.—Mongolia. S. Gobi: Gurvan-Saikhan Range, 100 km. SE of Bulgan, Yel. HT ♀ ZISP. [6602844]
- nova**. Chile (Coquimbo to Chiloe I.) [NT].
Spilographa nova Schiner 1868[4296]: 264.—Chile. ST ♂ NMW. ST not found by Hardy (1968: 140), but now in NMW. [6604177]
Rhagoletis ochraspis: Kisliuk & Cooley 1933[2680]: 239.—misid. See Foote 1981: 20. [6605575]
- ochraspis**. Brazil [NT].
Ortalis ochraspis Wiedemann 1830[5136]: 466.—Brasilien [Brazil]. T ♂ UZMC. ST apparently lost (Foote 1981: 11). [6604724]
Rhagoletis ochrastis Hardy 1968[1937]: 140.—missp. *ochraspis* Wiedemann. [6601514]
- osmanthi**. USA (Florida) [NE].
Rhagoletis osmanthi Bush 1966[683]: 478.—USA. Florida: Osceola Co. HT ♂ USNM. [6600643]
- penela**. Chile (Araucania) [NT].
Rhagoletis penela Foote 1981[1515]: 26.—Chile. Araucania: Pichinahuel. HT ♀ CNC. [6601289]
- persimilis**. Canada (British Columbia) [NE].
Rhagoletis persimilis Bush 1966[683]: 503.—Canada. British Columbia: Robson. HT ♂ CNC. [6600646]
- pomonella**. Canada to Mexico (Manitoba & Nova Scotia to Texas & Florida; Utah; Colorado; Coahuila to Michoacan; introd. Washington to California) [NE].
Trypeta pomonella Walsh 1867[4981]: 343.—USA. Illinois. LT ♀ MCZ. Lectotype designated by Bush 1966: 457. [6604679]
Trypeta albiscutellata Harris 1835[2019]: 600.—*Nomen nudum*. T A MCZ. Attributed to Say; see Johnson 1925:97. [6605395]
- psalida**. Peru [NT].
Rhagoletis psalida Hendel 1914[2103]: 30.—Peru. Cuzco: Urubamba, 3000 m.; & Cuzco, 3500 m. ST ♂ ♀ SMT, NMW. [6601977]

ramosae. Mexico (Michoacan, Guerrero) [NT].

Rhagoletis ramosae Hernandez-Ortiz 1985[2236]: 75.—Mexico. Guerrero: 5 km. from El Tejocote. HT ♂ UNAM. [6602754]

reducta. China [PA].

Rhagoletis reducta Hering 1936[2168]: 182.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602242]

rhytida. Ecuador, Bolivia [NT].

Rhagoletis rhytida Hendel 1914[2103]: 30.—Bolivia. La Paz: La Paz; & Yungas Road, 3800-4200 m. ST ♂ SMT, NMW. [6601978]

ribicola. Canada & USA (British Columbia & Wyoming, S to California & New Mexico) [NE].

Rhagoletis ribicola Doane 1898[1188]: 69.—USA. e. Washington: Washington Experiment Station. LT ♀ WSU. Lectotype designated by Bush 1966: 505; type data (Foote 1966: 124, Zack 1984: 32). [6600914]

rumpomaculata. Nepal [OR].

Rhagoletis rumpomaculata Hardy 1964[1934]: 159.—Nepal. Taplejung Dist., evergreen forest above Sangu, c. 9200 ft. HT ♀ BMNH. [6601506]

samojlovitshae. s. Kazakstan [PA].

Microrrhagoletis samojlovitshae Rohdendorf 1961[4172]: 187.—Kazakstan. Bostandysk distr., Khumsan, Ugam R. HT ♀ ZISP. [6604109]

scutellata. China (Gansu) [PA].

Rhagoletis scutellata Zia 1938[5309]: 34.—China. ne. Gansu: King-yuan-fu [Kingyuanfu]. HT ♂ IZAS. [6604851]

striatella. USA & Mexico (Iowa & Wisconsin E to Massachusetts; New Mexico & Texas S to Jalisco & Guerrero) [NE].

Rhagoletis striatella Wulp 1899[5216]: 408.—Mexico. Guerrero: Amula [Amulango], 6000 ft. HT ♀ BMNH. Type data (Foote 1965: 239, Bush 1966: 514). [6604786]

suavis. USA (Minnesota E to Massachusetts, S to Arkansas & n. Florida; Oregon?) [NE].

Trypeta suavis Loew 1862[3033]: 75.—USA. "Middle States". HT ♂ MCZ. [6603093]

tabellaria. Canada & USA (British Columbia S to California & Arizona; Manitoba & e. Quebec S to Nebraska & Pennsylvania) [NE].

Tephritis tabellaria Fitch 1855[1437]: 770.—USA. New York: Salem, Small's I., Batten Kill. T A destroyed? Type data (Bush 1966: 495, Barnes 1988: 111), ST apparently lost. [6601253]
Rhagoletis tabernella Cresson 1929[1014]: 402.—missp. *tabellaria* Fitch. [6605517]

tomatis. sw. Peru to n. Chile; cent. Chile? [NT].

Rhagoletis tomatis Foote 1981[1515]: 18.—Chile. Atacama: Copiapo. HT ♀ USNM. [6601288]

Rhagoletis achraspis Aczel 1954[25]: 77.—missp. *ochraspis* Wiedemann. [6605523]

Rhagoletis ochraspis: Kisliuk & Cooley 1933[2680]: 240.—misid. See Foote 1981: 18. [6605576]

turanica. s. Kazakstan, Kirghizia [PA].

Zonosema turanicum Rohdendorf 1961[4172]: 195.—Kazakstan. Alma-Ata area. HT ♂ ZISP. [6604113]

turpiniae. Mexico (Veracruz), Guatemala [NT].

Rhagoletis turpiniae Hernandez-Ortiz 1993[2243]: 419.—Mexico. Veracruz: Xalapa, Jardin Botanico, 1280 m. HT ♂ IEXV. [6605407]

willinki. Argentina (Neuquen) [NT].

Rhagoletis willinki Aczel 1951[16]: 319.—Argentina. Neuquen: Villa Angostura. HT ♂ IML. [6600007]

Rhagoletis willincki Foote 1967[1508]: 41.—missp. *willinki* Aczel. [6605095]

zephyria. Canada & USA (British Columbia E to Manitoba, S to California, Colorado & Minnesota; Pennsylvania) [NE].

Rhagoletis zephyria Snow 1894[4527]: 164.—USA. California: Baron. LT ♂ UKaL. Lectotype designated by Foote 1962: 179. [6604369]

Rhagoletis symphoricarpi Curran 1924[1035]: 63.—Canada. British Columbia: Victoria. HT ♂ CNC. [6600833]

Rhagoletis zephyrina Woodworth 1913[5204]: 137.—missp. *zephyria* Snow. [6605610]

Rhagoletis pomonella: Downes 1919[1209]: 2.—misid. See Foote et al. 1993: 364. [6605599]

zernyi. Spain [PA].

Rhagoletis zernyi Hendel 1927[2107]: 76.—Spain. Teruel: Albarracin. HT ♂ NMW. [6602149]

zoqui. Mexico (Hidalgo) [NE].

Rhagoletis zoqui Bush 1966[683]: 493.—Mexico. Hidalgo: Zacualtipan. HT ♂ MCZ. [6600645]

Genus RHAGOLETOTRYPETA

Rhagoletotrypeta Aczel 1951[16]: 313, *xanthogastra* Aczel (OD). [6600072]

Serpentinographa Aczel 1951[16]: 308, *argentiniensis* Aczel (OD). [6600073]

Chaetorhagoletis Aczel 1954[26]: 138, *Nomen nudum*. Attributed to Blanchard. [6600074]

REFS—Aczel 1954[26]: 142 (key to 3 spp. [NT]); Foote 1966[1505]: 803 (key to 5 spp. [NE, NT]); Steyskal 1981[4648]: 707 (key to 6 spp. [NE, NT]); Foote, Blanc & Norrbom 1993[1523]: 366 (key to 2 spp. [NE: USA]); Norrbom 1994[3663]: 51 (revision of 9 spp. [NE, NT]).

annulata. Mexico (San Luis Potosi, Tamaulipas), Costa Rica [NT].

Rhagoletotrypeta annulata Aczel 1954[26]: 142.—Mexico. San Luis Potosi: Tamazunchale. HT ♂ USNM. [6600033]

argentiniensis. Argentina [NT].

Serpentinographa argentiniensis Aczel 1951[16]: 308.—Argentina. HT ♀ IML. [6600005]

intermedia. Mexico (Morelos) [NE].

Rhagoletotrypeta intermedia Norrbom 1994[3663]: 55.—Mexico. Morelos: Canon de Lobos. HT ♀ USNM. [6605342]

morgantei. Brazil (Sao Paulo) [NT].

Rhagoletotrypeta morgantei Norrbom 1994[3663]: 55.—Brazil. Sao Paulo: Rib. Preto, Guatapara. HT ♂ USP. [6605341]

parallela. Argentina (Salta) [NT].

Rhagoletotrypeta parallela Norrbom 1994[3663]: 56.—Argentina. Salta: Cuel. Moldes. HT ♀ MACN. [6605343]

pastranai. Paraguay & s. Brazil to n. Argentina & Uruguay [NT].

Rhagoletotrypeta pastranai Aczel 1954[26]: 146.—Argentina. Cordoba: Sierra Zala, San Javier. HT ♂ MACN. [6600034]

rohweri. USA (Illinois, Pennsylvania, New Jersey) [NE].

Rhagoletotrypeta rohweri Foote 1966[1505]: 804.—USA. New Jersey: Camden. HT ♀ USNM. [6601277]

uniformis. USA (New Mexico, Texas) [NE].

Rhagoletotrypeta uniformis Steyskal 1981[4648]: 709.—USA. Texas: San Antonio. HT ♂ USNM. [6604420]

Rhagoletotrypeta annulata: Foote 1966[1505]: 806.—misid. See Steyskal 1981: 707. [6605580]

xanthogastra. Argentina (Cordoba, Tucuman) [NT].

Rhagoletotrypeta xanthogastra Aczel 1951[16]: 315.—Argentina. Tucuman: Villa Padre Monte. HT ♀ IML. [6600006]

Chaetorhagoletis bahamondesi Aczel 1954[26]: 150.—*Nomen nudum*. Attributed to Blanchard. [6605431]

Genus RHAIBOPHLEPS

Rhaibophleps Hardy 1973[1942]: 203, *seclusa* Hardy (OD). [6600408]

seclusa. Thailand, Laos, Cambodia [OR].

Rhaibophleps seclusa Hardy 1973[1942]: 204.—Thailand. Nakhon Ratchasima: “Khorat Prov.”, 300 km. NE Bangkok, Sakaerat [Ban Huai Sakae Rat], 300-400 m. HT ♂ BBM. [6601573]

Genus RHITHRUM

Rhithrum Hendel 1914[2102]: 85, *rivulatum* Hendel (OD). [6600075]

Rhithrum Hendel 1914[2103]: 45, *rivulatum* Hendel (OD). Preocc. Hendel 1914: 85. [6600769]

REF.—Aczel 1953[24]: 175 (revision of 2 spp. [NT]).

rivulatum. Peru, Bolivia [NT].

Rhithrum rivulatum Hendel 1914[2102]: 85.—Peru. T A SMT, NMW. [6601941]

Rhithrum rivulatum Hendel 1914[2103]: 45.—Peru. Cuzco: Cuzco, 3500 m.; Bolivia. La Paz: Lake Titicaca, Guaqui. ST ♀ SMT, NMW. Preocc. Hendel 1914: 85. [6602004]

vittatum. Argentina (Mendoza) [NT].

Rhithrum vittatum Aczel 1953[24]: 176.—Argentina. Mendoza: Potrerillos. HT ♀ IML. [6600026]

Genus RHOCHMOPTERUM

Rhochmopterum Speiser 1910[4561]: 185, *neuropteripenne* Speiser (MO). [6600207]

REFS—Bezzi 1924[472]: 153 (key to 2 spp. [AF]); Bezzi 1926[475]: 309 (*Rhabdochaeta*) key to 4 spp. [OR]; Hardy & Drew 1996[1972]: 341 (key to 6 spp. [OR, AU]).

antineurum. Zimbabwe [AF].

Rhabdochaeta antineurum Munro 1935[3475]: 54.—Zimbabwe. Mazoe. HT ♀ SANC. [6603570]

arcoides. South Africa [AF].

Rhochmopterum arcoides Munro 1935[3475]: 52.—South Africa. Transvaal: Pretoria, Waterkloof. ST ♂ ♀ SANC. [6603569]

centralis. Taiwan [OR].

Rhabdochaeta centralis Hendel 1915[2105]: 464.—Taiwan. Tainan. ST ♂ ♀ MNM. [6602110]

hirsutum. Mozambique [AF].

Rhochmopterum hirsutum Seguy 1933[4342]: 22.—Mozambique. Zambezia: Nova-Chaoupanga, near Chemba. HT ♂ MNHNP. [6604224]

major. Zimbabwe, Namibia, South Africa [AF].

Rhochmopterum munroi var. *major* Bezzi 1926[476]: 289.—South Africa. Transvaal: Barberton, Stentor. ST ♂ ♀ MCSNM? ST not in SANC (Holm & Wessels 1974). [6600524]

melanurum. Philippines [OR].

Rhabdochaeta melanura Bezzi 1926[475]: 311.—Philippines. Luzon, Benguet: Baguio. HT ♂ Baker. Lectotype designated by Hardy 1969: 480 invalid; HT currently in MCSNM. [6600531]

munroi. Malawi, Zimbabwe, South Africa [AF].

Rhochmopterum munroi Bezzi 1924[470]: 523.—South Africa. Transvaal: Pretoria; & Cape: East London. ST ♂ ♀ SANC. [6600410]

Rhochmopterum munroi Bezzi 1924[472]: 153.—Malawi. Cholo. HT ♀ BMNH. Preocc. Bezzi 1924: 523. [6605073]

neuropteripenne. Tanzania [AF].

Rhochmopterum neuropteripenne Speiser 1910[4561]: 186.—Tanzania. Kilimanjaro. ST ♂ ♀ NRS. [6604383]

parvum. Philippines (Luzon) [OR].

Rhabdochaeta parva Hardy 1974[1943]: 219.—Philippines. Luzon, Mountain: 60 km. S of Bontoc, Abatan, Buguias, 1800-2000 m. HT ♂ BBM. [6601653]

pygmaeum. South Africa [AF].

Rhochmopterum pygmaeum Munro 1935[3475]: 50.—South Africa. Natal: Durban. ST ♂ ♀ SANC. [6603567]

seniorwhitei. Sri Lanka [OR].

Rhabdochaeta seniorwhitei Bezzi 1926[475]: 313.—Sri Lanka. Central: Matale. HT ♀ BMNH. [6600532]

Rhabdochaeta senior-whitei Bezzi 1926[475]: 313.—incosp. *seniorwhitei* Bezzi. Automatic correction under Art. 32(d). [6605743]

tribullosum. Indonesia (Timor) [OR].

Rhabdochaeta tribullosa Hering 1940[2185]: 14.—Indonesia. Timor. HT ♂ ZSBS. [6602431]

venustum. Japan (Ryukyu Is.); Thailand & Vietnam SE to New Guinea & Australia [OR, AU].

Rhabdochaeta venusta Meijere 1914[3319]: 215.—Indonesia. Java: Salatiga. HT ♀ ZMAN. Type data (Hardy 1985: 71). [6604933]

Rhabdochaeta dorsosetosa Hardy 1970[1940]: 110.—Philippines. Palawan: Mantalingajan Mts., Pinigisan [Pinigasan], 600 m. HT ♂ UZMC. Type data (Hardy 1974: 216). [6601518]

Rhochmopterum subsolanum Ito 1984[2420]: 287.—Japan. Ryukyu Is.: Isigakizima. HT ♂ UOPJ. [6602832]

Genus RHYNENCINA

Rhynencina Johnson 1922[2514]: 24, *longirostris* Johnson (OD). [6600726]

Aleomyia Phillips 1923[3826]: 123, *alpha* Phillips (OD) = *longirostris* Johnson. [6600727]

Rhynencina Korneyev & White 1991[2754]: 218, missp. *Rhynencina* Johnson. [6601021]

dysphanes. Colombia, Ecuador [NT].

Urophora dysphanes Steyskal 1979[4647]: 47.—Ecuador. Pichincha: Cotocollao, 10000 ft. HT ♂ USNM. **N. Comb.** [6604405]

emphanes. Colombia [NT].

Urophora emphanes Steyskal 1979[4647]: 48.—Colombia. Cundinamarca: Guasca, 35 km. NE Bogota, 1800 m. HT ♀ AMNH. **N. Comb.** [6604406]

longirostris. USA (Pennsylvania S to Georgia) [NE].

Rhynencina longirostris Johnson 1922[2514]: 24.—USA. Pennsylvania: Mt. Alto. ST ♂ ♀ MCZ,BPIH. [6602841]

Aleomyia alpha Phillips 1923[3826]: 124.—USA. Maryland: Plummer's I. ST ♂ ♀ USNM,CUI. [6603993]

spilogaster. Mexico (Veracruz, Chiapas), Guatemala, Honduras [NT].

Urophora spilogaster Steyskal 1979[4647]: 56.—Guatemala. Yepocapa. HT ♀ USNM. **N. Comb.** [6604417]

xanthogaster. Venezuela [NT].

Urophora xanthogaster Steyskal 1979[4647]: 58.—Venezuela. Caracas. HT ♀ USNM. **N. Comb.** [6604419]

Genus RIOXA

Rioxa Walker 1856[4960]: 35, *lanceolata* Walker (MO). [6600528]

Ptilonina Enderlein 1911[1326]: 447, *Ptilona sexmaculata* Wulp

(OD). [6600363]

REFS—Bezzi 1913[448]: 112 (key to 8 spp. (obsolete) [OR: India]); Hardy 1973[1942]: 108 (key to 2 spp. [OR: Southeast Asia]); Hardy 1974[1943]: 76 (key to 3 spp. [OR: Philippines]); Hardy 1986[1962]: 120 (key to 4 spp. [OR: Indonesia]).

discalis. Burma, s. Thailand, Malaysia (w. & Sarawak), Indonesia (Sumatra, Java), Solomon Is. [OR, AU].

Tetanocera discalis Walker 1861[4968]: 321.—Burmah [Burma]. T A BMNH. ST male in BMNH. N. Comb. [6605884]

Rioxa sumatrana Enderlein 1911[1326]: 449.—Indonesia. Sumatra: Soekaranda. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. N. Syn. [6601163]

Rioxa sexmaculata: Tan, Hanifah & Chen 1994[4750]: 30.—misid. See Hancock & Drew 1995: 50. [6605875]

erebus. Malaysia (Sarawak) [OR].

Rioxa erebus Rondani 1875[4210]: 436.—Malaysia. Sarawak. T A MCSNG. Type data (Hardy 1986: 121; apparently 2 ST females). [6604154]

lanceolata. Sri Lanka, Malaysia (w. & Sarawak), Singapore, Indonesia (Sumatra, Java) [OR].

Rioxa lanceolata Walker 1856[4960]: 35.—Singapore. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 194 (assumes Walker misstated sex of ST). [6604602]

Rioxa nox Rondani 1875[4210]: 437.—Malaysia. Sarawak. LT ♀ MCSNG. Lectotype designation by inference of holotype by Hardy 1986: 122. [6604155]

lucifer. Philippines (Luzon, Samar, Negros, Bohol, Mindanao, Tawi-Tawi) [OR].

Rioxa lucifer Hering 1941[2196]: 23.—Philippines. Luzon, Imugan. HT ♂ ZMHU. [6602519]

manto. Philippines (Luzon, Negros, Mindanao) [OR].

Trypeta manto Osten Sacken 1882[3722]: 231.—Philippines. HT ♂ DEL. [6603949]

megaspilota. Philippines (Tawi-Tawi, Mindanao) [OR].

Rioxa megaspilota Hardy 1970[1940]: 82.—Philippines. Tawi-Tawi: Tarawakan. HT ♂ UZMC. [6601531]

sexmaculata. India, Sri Lanka, Burma, China (Yunnan), Thailand, Malaysia (w. & Sarawak), Philippines, Indonesia (Sumatra, Java, Irian Jaya) [OR, AU].

Ptilona sexmaculata Wulp 1880[5209]: 185.—Indonesia. Sumatra. LT ♂ ZMAN. Lectotype designated by Hardy 1969: 477. [6604767]

Rioxa sexmaculata var. *parvipunctata* Meijere 1911[3314]: 381.—Indonesia. Java: Depok. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1986: 122 invalid. [6604909]

Rioxa quinque maculata Bezzi 1913[448]: 115.—Burma. Tenasserim. HT ♀ ZSI. [6600201]

Rioxa infirma Hering 1941[2196]: 24.—Ceylon [Sri Lanka]. ST ♂ ♀ ZMHU. [6602520]

Rioxa vittata Zia 1963[5313]: 638.—China. Yunnan: Siao-meng-yan [Xiaomengyang], 900-1100 m. HT ♀ IZAS. [6604868]

vinnula. Cambodia [OR].

Rioxa vinnula Hardy 1973[1942]: 111.—Cambodia. Kiri Rom, 700 m. HT ♂ BBM. [6601542]

Genus RIVELLIOMIMA

Rivelliomima Bezzi 1924[470]: 502, *punctiventris* Bezzi (OD). [6600109]

punctiventris. Zambia, Zimbabwe, South Africa [AF].

Rivelliomima punctiventris Bezzi 1924[470]: 503.—South Africa. Cape: East London. ST ♂ ♀ SANC. [6600398]

Genus ROBERTSOMYIA

Robertsomyia Hardy 1983[1957]: 228, *paradoxa* Hardy (OD). [6600586]

paradoxa. Papua New Guinea [AU].

Robertsomyia paradoxa Hardy 1983[1957]: 230.—Papua New Guinea. Morobe: Upper Manki Logging Area, 5000 ft. HT ♂ BBM. [6601733]

Genus SAUCROMYIA

Saucromyia Hardy 1986[1962]: 125, *bicolor* Hardy (OD). [6600656]

bicolor. Indonesia (Sulawesi) [OR].

Saucromyia bicolor Hardy 1986[1962]: 126.—Indonesia. Sulawesi: Noongan, 50 km. S of Manado, 1200 m. HT ♀ BBM. [6601764]

Genus SCDELLA

Scdella Munro 1957[3510]: 988, *Trypeta caffra* Loew (OD). [6600625]

REFS—Bezzi 1924[472]: 137 ((*Euribia*) key to 4 spp. [AF]); Munro 1957[1560]: 924 (key to 14 spp. [AF]).

basilewskyi. Rwanda [AF].

Paroxyna basilewskyi Munro 1956[3508]: 471.—Rwanda. Ruhengeri, Kagogo, 1900 m. HT ♂ MRAC. [6603734]

boxiana. Ghana, Cameroon, Zaire [AF].

Scdella boxiana Munro 1957[3510]: 994.—Cameroon. Kumba. HT ♂ BMNH. [6603801]

caesia. Uganda [AF].

Scdella caesia Munro 1957[3510]: 1003.—Uganda. 20 mi. N of Kampala. HT ♂ SANC. [6605236]

caffra. Burundi, Uganda, Mozambique, Zimbabwe, South Africa [AF].

Trypeta caffra Loew 1861[3031]: 290.—Caffrerei [South Africa]. T ♂ NRS? [6603077]

Mesoclanis illuminata Hering 1939[2182]: 181.—Mozambique. Rikatla. HT ♂ NMW. [6602414]

Trypeta caffra Loew 1862[3037]: 6.—Caffraria [South Africa]. T ♂ NRS? Preocc. Loew 1861. [6605269]

cyana. Sierra Leone [AF].

Trypeta cyana Walker 1849[4957]: 1031.—Sierra Leone. LT ♀ BMNH. Lectotype designation by inference of holotype by Munro 1957: 994 (see also Hardy 1966: 661). [6604571]

dissoluta. Eritrea, Uganda, Kenya, Tanzania, Zimbabwe, Namibia [AF].

Trypeta dissoluta Loew 1861[3031]: 291.—Caffrerei [South Africa. probably Natal: near Durban]. T ♂ NRS? Type data (Munro 1957: 998). [6603078]

Euribia tristrigata Bezzi 1918[456]: 37.—Eritrea. Ghinda. ST ♂ ♀ MCSNM. [6600305]

Trypeta dissoluta Loew 1862[3037]: 6.—Caffraria [South Africa]. T ♂ NRS? Preocc. Loew 1861. [6605270]

flecta. Kenya [AF].

Scdella flecta Munro 1957[3510]: 1004.—Kenya. Chyulu Hills. HT ♂ SANC. [6603737]

formosella. Japan (Ryukyu Is.), Philippines, w. Malaysia to New Guinea, Solomon Is., Guam [OR, AU].

Euribia formosella Hendel 1915[2105]: 465.—Taiwan. Tainan: Takao; & Anping. ST ♂ ♀ MNM, NMW. [6602111]

Euaesta punctata Shiraki 1968[4435]: 73.—Japan. Ryukyu Is.: Iriomote I. HT ♂ USNM. [6604354]

glebosa. Kenya, Tanzania [AF].

Scedella glebosa Munro 1957[3510]: 990.—Kenya. Nairobi. HT ♂ SANC. [6603798]

incurva. Uganda [AF].

Scedella incurva Munro 1957[3510]: 1001.—Uganda. 20 mi. N of Kampala. HT ♂ SANC. [6603736]

kawandana. Uganda [AF].

Scedella kawandana Munro 1957[3510]: 1006.—Uganda. Kampala. HT ♀ BMNH? [6603738]

longiseta. Tanzania [AF].

Paroxyxa longiseta Hering 1941[2199]: 203.—Tanzania. Ugando. HT ♀ NMW. [6602558]

pilosa. Kenya [AF].

Scedella pilosa Munro 1957[3510]: 991.—Kenya. Bungoma. HT ♀ SANC. [6603799]

praetexta. Zaire, Burundi, Rwanda, Uganda, Tanzania, Zimbabwe, South Africa [AF].

Trypeta praetexta Loew 1861[3031]: 286.—Caffrerei [South Africa]. T ♂ NRS? [6603076]

Trypeta praetexta Loew 1862[3037]: 5.—Caffraria [South Africa]. T ♂ NRS? Preocc. Loew 1861. [6605268]

sandoana. Zaire, Rwanda, Kenya [AF].

Scedella sandoana Munro 1957[3510]: 992.—Zaire. Shaba: Sandoa. HT ♂ SANC. [6603800]

Scedella sandoana Munro 1956[3508]: 471.—*Nomen nudum*. Published after 1930 without a description. [6603733]

spatulata. Ethiopia, Uganda, Kenya, Malawi [AF].

Scedella spatulata Munro 1957[3510]: 1000.—Ethiopia. Addis Ababa. HT ♂ SANC. [6603735]

Euribia tristrigata: Munro 1934[3467]: 2.—misid. See Munro 1957: 1000. [6605816]

spiloptera. India, Nepal, Sri Lanka [OR].

Tephritis spiloptera Bezzi 1913[448]: 165.—India. W. Bengal: Calcutta. ST ♂ ZSI. [6600231]

Genus *SCHISTOPTERUM*

Schistopterum Becker 1903[369]: 137, *moebiusi* Becker (MO). [6600610]

REF.—Hardy 1982[1953]: 3 (key to 3 spp. [PA, AF, AU]).

ismayi. Papua New Guinea (Central) [AU].

Schistopterum ismayi Hardy 1982[1953]: 88.—Papua New Guinea. Central: 27 km “E.E.” Port Moresby. HT ♂ BBM. [6601693]

longulum. Kenya [AF].

Schistopterum longulum Munro 1937[3480]: 12.—Kenya. Naivasha. HT ♂ BMNH. [6603581]

moebiusi. Israel, Egypt, most of e. Africa, South Africa [PA, AF].

Schistopterum moebiusi Becker 1903[369]: 137.—Egypt. desert near Siala. ST ♂ ♀ ZMHU. [6600113]

Schistopterum moebii Bezzi 1908[443]: 139.—mispp. *moebiusi* Becker. [6605521]

Genus *SCLEROPITHUS*

Scleropithus Munro 1939[3487]: 42, *glaphyrochalyps* Munro (OD). [6600129]

glaphyrochalyps. South Africa [AF].

Scleropithus glaphyrochalyps Munro 1939[3487]: 43.—South Africa. Natal: Durban, Bluff. HT ♂ SANC. [6603627]

Genus *SCOLOCOLUS*

Scolocolus Hardy 1970[1940]: 95, *bicolor* Hardy (OD). [6600388]

bicolor. Philippines (Palawan) [OR].

Scolocolus bicolor Hardy 1970[1940]: 96.—Philippines. Palawan: Mantalingajan Mts., Tagabung, 1150 m. HT ♂ UZMC. Type data (Hardy 1974: 148). [6601537]

Genus *SESSILINA*

Sessilina McAlpine & Schneider 1978[3249]: 171, *Dacus nigrilinea* Walker (OD). [6600587]

REF.—McAlpine & Schneider 1978[3249]: 171 (revision of 3 spp. [AU]).

horrida. Indonesia (Irian Jaya) [AU].

Sessilina horrida McAlpine & Schneider 1978[3249]: 173.—Indonesia. Irian Jaya: Tor R. Distr., 11 km. SE of Oerberfaren, Bodem (2°20'S 138°55'E), 100 m. HT ♂ BBM. [6603424]

literata. Papua New Guinea (Morobe) [AU].

Sessilina literata McAlpine & Schneider 1978[3249]: 173.—Papua New Guinea. Morobe: Wau, 1050 m. HT ♀ BBM. [6603423]

nigrilinea. Indonesia (Irian Jaya), Papua New Guinea [AU].

Dacus nigrilinea Walker 1861[4969]: 251.—Indonesia. Irian Jaya: Dorey [Manokwari]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 178 (also see McAlpine & Schneider 1978: 173). [6604645]

Phytalmia wollastoni Edwards 1915[1290]: 418.—Indonesia. Irian Jaya: Mimika River. ST ♀ BMNH. Type data (McAlpine & Schneider 1978: 173). [6601125]

Genus *SINACIDIA*

Sinacidia Chen 1948[814]: 103, *Myioliola flexuosa* Zia (OD). [6600318]

REF.—Ito 1984[2418]: 173 (key to 2 spp. [PA]).

esakii. Japan (Kyushu) [PA].

Euleia esakii Ito 1960[2408]: 1.—Japan. Kyushu: Buzen, Hikosan. HT ♀ UOPJ. [6602779]

Euleia esakii Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604978]

flexuosa. China (Gansu), Japan (Hokkaido) [PA].

Myioliola flexuosa Zia 1938[5309]: 43.—China. Gansu: Tsien-Ou [Tsienou]. HT ♀ IZAS. [6604855]

Genus *SINANOPLOMUS*

Sinanoplomus Zia 1955[5311]: 64, *sinensis* Zia (OD). [6600872]

sinensis. China (Guangdong) [OR].

Sinanoplomus sinensis Zia 1955[5311]: 64.—China. Kwang-Tung [Guangdong]. HT ♀ IZAS. [6605382]

Genus *SOITA*

Soita Walker 1865[4975]: 135, *psiloides* Walker (MO). [6600578]

REF.—Hardy 1974[1943]: 150 (key to 3 spp. [OR]).

baltazarae. Philippines (Bohol) [OR].

Soita baltazarae Hardy 1974[1943]: 151.—Philippines. Bohol: S Bullones, 366 m. HT ♀ BBM. [6601638]

ensifera. Philippines (Luzon) [OR].

Soita ensifera Hardy 1974[1943]: 152.—Philippines. Luzon, Laguna: Mount Makiling. HT ♂ MCSNM. [6601639]

psiloides. Indonesia (Irian Jaya), Papua New Guinea, Australia (n. Qld.) [AU].

Soita psiloides Walker 1865[4975]: 136.—Indonesia. Irian Jaya: Salwatty [Salawati I.]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 197. [6604677]

Genus *SOPHIRA*

REF.—Hardy 1980[1949]: 126 (key to 4 subgenera & 22 spp. [OR]).

Subgenus *KAMBANGANIA*

Kambangania Meijere 1914[3319]: 196, *metatarsata* Meijere (MO). [6600411]

Proptilona Zia 1965[5315]: 213, *yunnana* Zia (OD). [6600812]

Spaniothrix Hardy 1973[1942]: 206, *vittata* Hardy (OD). [6600413]

Heterosiphira Hardy 1973[1942]: 130, *decora* Hardy (OD). [6600371]

REF.—Hardy 1980[1949]: 128 (key to 4 spp. [OR])

decora. s. Thailand [OR].

Heterosiphira decorata Hardy 1973[1942]: 131.—Thailand. Trang: Khaochang, Khaophappa, 200–400 m. HT ♀ BBM. [6601548]

metatarsata. Indonesia (Java) [OR].

Kambangania metatarsata Meijere 1914[3319]: 197.—Indonesia. w. Java: Nusa Kambangan. HT ♂ ZMAN. Type data (Hardy 1980: 143). [6604924]

simillima. Indonesia (Kalimantan) [OR].

Colobostrella simillima Hering 1952[2218]: 272.—Indonesia. Kalimantan: Balikpapan, Mentawir R., 50 m. HT ♂ RNH. [6602673]

vittata. n. Thailand, Laos [OR].

Spaniothrix vittata Hardy 1973[1942]: 206.—Thailand. Chiang Mai: Doi Suthep. HT ♂ BBM. [6601574]

ypsilon. Malaysia (w. & Sarawak), Indonesia (Sumatra) [OR].

Themara ypsilon Rondani 1875[4210]: 435.—Malaysia. Sarawak. LT ♂ MCSNG. Lectotype designation by inference of holotype by Hardy 1988: 114. [6604153]

Sophira disjuncta Hardy 1980[1949]: 141.—Indonesia. Sumatra: Ketambe, Mt. Leuser Reserve, Aceh, 300 m. HT ♀ BBM. [6601682]

yunnana. China (Yunnan) [OR].

Proptilona yunnana Zia 1965[5315]: 214.—China. Yunnan: Shishong-Baana [Xishuangbanna], 810 m. HT ♀ IZAS. [6605035]

Subgenus *PARASOPHIRA*

Parasophira Hardy 1980[1949]: 145, *Sophira concinna* Walker (OD). Proposed as a subgenus. [6600647]

biangulata. Indonesia (Sumatra) [OR].

Colobostrella biangulata Meijere 1924[3324]: 34.—Indonesia. Sumatra: Gunung Talamau. HT ♀ ZMAN. Type data (Hardy 1980: 145). [6604945]

concinna. Malaysia (Sarawak, Sabah), Indonesia (Kalimantan) [OR].

Sophira concinna Walker 1856[4962]: 132.—Malaysia. Sarawak. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1980: 147 (assumes Walker misstated sex of ST; also see Hardy 1959: 200). [6604603]

Subgenus *SOOSINA*

Soosina Hering 1941[2195]: 68, *Anastrepha extranea* Meijere (OD). [6600412]

Soosina Hering 1941[2195]: 68, incosp. *Soosina* Hering. Automatic correction under Art. 32(d). [6600923]

Zoosina Hardy 1959[1933]: 196, missp. *Soosina* Hering. [6600649]

extranea. Indonesia (Java) [OR].

Anastrepha extranea Meijere 1914[3319]: 193.—Indonesia. Java: Gunung Ungaran; & Nongkodjadar. ST ♀ ZMAN. Inference of HT by Hardy 1980: 148 invalid. [6604923]

malaysiae. w. Malaysia [OR].

Sophira malaysiae Hancock & Drew 1995[1903]: 52.—Malaysia. Pahang: 19 mi. SE Cameron Highlands. HT ♀ AMS. [6605836]

Subgenus *SOPHIRA*

Sophira Walker 1856[4960]: 34, *venusta* Walker (MO). [6600552]

Seraca Walker 1860[4966]: 164, *signifera* Walker, Hardy 1959[1933]: 197 (SD). [6600409]

Icteroptera Wulp 1899[5215]: 212, *limbipennis* Wulp, Hendel 1914[2104]: 81 (SD). [6600400]

Colobostrella Hendel 1914[2102]: 79, *ruficauda* Hendel (OD) = *plagifera* Walker. [6600410]

REFS—Hardy 1958[1931]: 367 (key to 6 spp. [OR]); Hardy 1980[1949]: 126 (key to 15 spp. [OR]).

appendiculata. Indonesia (Sumatra) [OR].

Sophira appendiculata Enderlein 1911[1326]: 434.—Indonesia. Sumatra: Soekaranda. HT ♂ PAN. Type data (Hardy 1980: 128). [6601154]

bistriga. Indonesia (Sulawesi) [OR].

Sophira bistriga Walker 1860[4966]: 160.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 200. [6604632]

cameronia. w. Malaysia [OR].

Sophira cameronia Hancock & Drew 1995[1903]: 53.—Malaysia. Pahang: Cameron Highlands. HT ♂ AMS. [6605837]

flavicans. Indonesia (Sumatra) [OR].

Rioxa flavicans Edwards 1919[1291]: 50.—Indonesia. Sumatra: Sungei Kumbang, 4500 ft. HT ♂ BMNH. [6601128]

flavomaculata. Indonesia (Sumatra), Malaysia (Sabah) [OR].

Colobostrella flavomaculata Meijere 1924[3324]: 35.—Indonesia. Sumatra: Suban Ajam. HT ♀ ZMAN. Type data (Hardy 1980: 130). [6604946]

insueta. Indonesia (Java) [OR].

Sophira insueta Hering 1952[2218]: 274.—Indonesia. Java: Mount Pangrango, Tjisarua Z., 1000 m. HT ♀ RNH. [6602675]

kurahashii. Indonesia (Sulawesi) [OR].

Sophira kurahashii Hardy 1980[1949]: 131.—Indonesia. n. Sulawesi: 50 km. S of Menado, Noongan, 1200 m. HT ♂ ENIH. [6601679]

limbata. Indonesia (Sumatra) [OR].

Sophira limbata Enderlein 1911[1326]: 435.—Indonesia. Sumatra: Soekaranda. ST ♀ PAN. Inference of HT by Hardy 1980: 133 invalid. [6601155]

limbata borneensis. Indonesia (Kalimantan) [OR].

Sophira limbata ssp. *borneensis* Hering 1952[2218]: 273.—Indonesia. Kalimantan: Balikpapan, Mentawir R., 50 m. HT ♀ RNH. [6602674]

limbipennis. Indonesia (Java) [OR].

Icteroptera limbipennis Wulp 1899[5215]: 213.—Indonesia. w. Java: Sukabumi, 2000 ft. HT ♀ ZMAN. HT presumed lost (Hardy 1988: 112). [6604777]

linduensis. Indonesia (Sulawesi) [OR].

Sophira linduensis Hardy 1980[1949]: 135.—Indonesia. cent. Sulawesi: 65 km. SE of Palu, Sadaunta, trail to Lindu Valley, 650 m. HT ♂ BBM. [6601680]

maculata. Indonesia (Sumatra) [OR].

Icteroptera maculata Wulp 1899[5215]: 213.—Indonesia. Sumatra: Nias I., Hili Madjedja. HT ♂ ZMAN. HT presumed lost (Hardy 1988: 112). [6604776]

philippinensis. Philippines (Negros, Mindanao) [OR].

Sophira philippinensis Hardy 1974[1943]: 84.—Philippines. Mindanao, Misamis Oriental: Minubanan, 1050-1200 m. HT ♀ BBM. [6601673]

phlox. India (Assam) [OR].

Sophira phlox Munro 1935[3473]: 25.—India. Assam: Garo Hills, above Tura, 3500-3900 ft. HT ♀ ZSI. [6603541]

plagifera. Indonesia (Sulawesi) [OR].

Enicoptera plagifera Walker 1860[4966]: 156.—Indonesia. Sulawesi: near Makassar [Ujung Padang]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 187 (assumes Walker misstated sex of ST). [6604625]

Colobostrella ruficauda Hendel 1914[2102]: 79.—Indonesia. Celebes [Sulawesi]. T A NMW. [6601928]

Colobostrella ruficauda Hendel 1915[2105]: 429.—Indonesia. Sulawesi: Patunuang. HT ♂ NMW. Preocc. Hendel 1914: 79. [6602075]

signifera. Indonesia (Sulawesi) [OR].

Seraca signifera Walker 1860[4966]: 165.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 196 (assumes Walker misstated sex of ST). [6604634]

Colobostrella heinrichi Hering 1942[2206]: 275.—Indonesia. Sulawesi: Ile-Ile, 1700 m. HT ♀ ZMHU. [6602582]

spectabilis. Indonesia (Sulawesi) [OR].

Sophira spectabilis Hardy 1980[1949]: 139.—Indonesia. cent. Sulawesi: 65 km. SE of Palu, Sadaunta, 650 m. HT ♂ BBM. [6601681]

venusta. s. Thailand, w. Malaysia, Singapore, Indonesia (Sumatra, Kalimantan) [OR].

Sophira venusta Walker 1856[4960]: 35.—Singapore. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 202. [6604601]

Genus SOPHIROIDES

Sophiroides Hendel 1914[2102]: 78, *flammosa* Hendel (OD). [6600389]

flammosus. Sri Lanka [OR].

Sophiroides flammosa Hendel 1914[2102]: 78.—Sri Lanka. Central: Peradeniya [7°15'N 80°50'E]. LT ♀ NMW. Lectotype designation by inference of holotype by Hering 1940: 27 (see also Hardy 1968: 133). [6601926]

Rioxa magnifica Senior-White 1921[4358]: 390.—Sri Lanka. Central: Matale, Suduganga. HT ♀ BMNH. [6604242]

Genus SOPHIOPSIS

Sophiopsis Hardy 1986[1962]: 126, *Termitorioxia improbata* Hering (OD). [6600529]

calcarata. Papua New Guinea [AU].

Sophiopsis calcarata Hardy 1986[1962]: 128.—Papua New Guinea. Morobe: Mt. Kaindi, 2350 m. HT ♀ BBM. [6601765]

improbata. Indonesia (Irian Jaya), Papua New Guinea [AU].

Termitorioxia improbata Hering 1941[2196]: 22.—Papua New Guinea. Kaiserin Augusta [Sepik] R. Expedition, camp, 1050 m. HT ♀ ZMHU. [6602518]

Genus SORAIDA

Soraida Hering 1941[2192]: 34, *tenebricosa* Hering (OD). [6600439]

tenebricosa. Indonesia (Lombok) [OR].

Soraida tenebricosa Hering 1941[2192]: 35.—Indonesia. Nusa Tenggara: Lombok, Plawangan. HT ♀ DEI. [6602480]

Genus SOSIOPSISILA

Sosiopsila Bezzi 1920[463]: 214, *trisetosa* Bezzi (OD)=*metadacus* Speiser. [6600099]

metadacus. Cameroon, Malawi, Mozambique, Zimbabwe, South Africa [AF].

Polystodes metadacus Speiser 1915[4563]: 99.—Cameroon. Mandarra Mts., Gela [Zela]. ST ♂ ♀ Unknown. 1 ST in SANC. [6604389]

Sosiopsila trisetosa Bezzi 1920[463]: 215.—Mozambique. Mlanje: E of Mt. Mlanje [Sapitwa]. ST ♂ ♀ BMNH. [6600331]

rotunda. South Africa [AF].

Sosiopsila rotunda Munro 1933[3464]: 26.—South Africa. Transvaal: Rosslyn. ST ♂ ♀ SANC. [6603503]

Genus SPATHULINA

Spathulina Rondani 1856[4195]: 113, *Spathylina sicula* Rondani (OD). [6600611]

REFS—Bezzi 1924[472]: 132 (key to 8 spp. [AF]); Bezzi 1924[470]: 534 (key to 6 spp. [AF: South Africa]); Hendel 1927[2107]: 116 (key to 2 spp. [PA]); Bezzi 1928[478]: 117 (key to 3 spp. (obsolete) [AU: Fiji]); Munro 1938[3486]: 417 (key to 9 spp. [PA, AF]).

abyssinica. Ethiopia [AF].

Spathulina abyssinica Bezzi 1924[472]: 133.—Ethiopia. Hamaraja. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 150. [6600487]

acroleuca. Egypt, widespread Afrotropical, Oriental, & Australasian Regions [PA, AF, OR, AU].

Tephritis acroleuca Schiner 1868[4296]: 268.—Australia. New South Wales: Sydney. HT ♀ NMW. Type data (Hardy 1968: 140). [6604185]

Trypeta undecimguttata Thomson 1869[4809]: 581.—Australia. New South Wales: Sidney [Sydney]. T ♀ NRS. [6604517]

Oxya parceguttata Becker 1903[369]: 134.—Egypt. Cairo. ST ♂ ♀ ZMHU. [6600110]

Oxya parca Bezzi 1913[448]: 159.—India. W. Bengal: Calcutta. ST ♂ ♀ ZSI. [6600227]

Oxya nigrifemorata Meijere 1914[3319]: 220.—Indonesia. Java: Nongkodjadar. HT ♀ ZMAN. Lectotype designated by Hardy 1969: 478 invalid, described from one female. [6604937]

Spathulina acrosticta Bezzi 1918[456]: 29.—South Africa. Natal: Durban, Umbilo. HT ♀ BMNH. [6600299]

Trypeta 11-guttata Thomson 1869[4809]: 581.—incosp. *undecimguttata* Thomson. Automatic correction under Art. 32(d). [6605656]

arcucincta. Namibia, South Africa, Lesotho [AF].

Spathulina arcucincta Bezzi 1924[470]: 540.—South Africa. Cape: Kleinfontein. HT A SAMCT. [6600422]

Spathulina elegantula Bezzi 1924[470]: 541.—South Africa. Matroosberg, Ceres Division. HT ♀ SAMCT. [6600423]

- Spathulina elegantula* var. *diminuta* Bezzi 1924[470]: 542.—South Africa. Matroosberg, Ceres Division. ST ♂ ♀ SAMCT. [6600424]
- Spathulina hessii* var. *simplex* Bezzi 1924[470]: 543.—South Africa. Hottentots Holland Mts., Caledon Division. ST ♂ ♀ SAMCT. [6600425]
- Spathulina arcuincta* var. *arida* Munro 1938[3486]: 427.—South Africa. Amandelpan. HT ♂ SANC. [6603608]
- biseuarestina.** South Africa [AF].
- Spathulina biseuarestina* Bezzi 1924[470]: 539.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6600421]
- euarestina.** South Africa [AF].
- Spathulina hessii* var. *euarestina* Bezzi 1924[470]: 543.—South Africa. Orange Free: Bethulie. HT ♀ SANC. [6600426]
- Spathulina euarestina* var. *piscatoria* Munro 1938[3486]: 427.—South Africa. Cape: Cape Peninsula, Fishhoek. HT ♀ SANC. [6603609]
- euryomma.** Ethiopia [AF].
- Spathulina euryomma* Bezzi 1924[472]: 133.—Ethiopia. Harar: Dire-Daua [Dire Dawa]. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 151. [6600486]
- hessii.** South Africa [AF].
- Tephritis hessii* Wiedemann 1818[5131]: 47.—Vorgebirge der gutten Hoffnung [South Africa. Cape: Cape of Good Hope]. T ♂ NMW. Type data (Wiedemann 1830: 501). [6604710]
- peringueyi.** South Africa [AF].
- Spathulina peringueyi* Bezzi 1924[470]: 538.—South Africa. Cape: Stellenbosch. HT ♀ SAMCT. [6600419]
- Spathulina peringueyi* var. *triplex* Munro 1938[3486]: 429.—South Africa. Cape: Swellendam. HT ♀ BMNH. [6603610]
- sicula.** Spain, Portugal, Italy, Israel, Canary Is. [PA].
- Spathulina sicula* Rondani 1856[4195]: 113.—not stated [Italy. Sicily]. HT ♂ MZLS? Type data (Rondani 1871: 167). [6604116]
- Tephritis tristis* Loew 1869[3041]: 23.—Spain. Andalusia. ST ♂ ♀ ZMHU. [6603145]
- Trypeta luisieri* Tavares 1901[4768]: 77.—Portugal. Setubal, collegio de S. Francisco. T ♂ Tavares. [6604505]
- Urellia sepi* Becker 1908[374]: 142.—Canary Is. Tenerife. HT ♀ ZMHU. [6600138]
- Genus SPHAENISCUS**
- Sphaeniscus* Becker 1908[374]: 138, *brevicauda* Becker (MO) = *filiola* Loew. [6600561]
- Pseudopheniscus* Hendel 1913[2100]: 82, *Urophora sexmaculata* Macquart (MO). Designation of *Spheniscus angulatus* Hendel by Hendel 1914: 88 invalid, not an originally included species. [6600324]
- Spheniscomyia* Bezzi 1913[448]: 146, n. n. *Sphaeniscus* Becker. [6600424]
- Spheniscus* Bezzi 1913[448]: 147, emend. *Sphaeniscus* Becker. Preocc. Brisson 1760. [6600657]
- Spheniscomyia* Foote 1984[1517]: 125, missp. *Spheniscomyia* Bezzi. Attributed to “authors”. [6600973]
- Pseudopsphenisca* Foote 1984[1517]: 125, missp. *Pseudopheniscus* Hendel. Attributed to “authors”. [6600972]
- REFS—Bezzi 1913[448]: 147 ((*Spheniscomyia*) key to 2 spp. [OR: India]); Hendel 1927[2107]: 106 ((*Spheniscomyia*) key to 3 spp. [PA, OR]); Munro 1938[3483]: 35 ((*Spheniscomyia*) key to 2 spp. [AF, OR]); Munro 1947[3496]: 159 ((*Spheniscomyia*) key to 5 spp. [PA, AF, OR]); Hardy 1955[1926]: 77 (key to 3 spp. [OR, AU]); Kapoor 1993[2600]: 46 (key to 2 spp. [OR: India]).
- atilius.* India to e. Russia & Japan, SE to Australasian & Oceanian Region [PA, OR, AU].
- Trypeta atilia* Walker 1849[4957]: 1021.—China. Jiangxi: Foochow [Fuzhou]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 210. [6604561]
- Trypeta melaleuca* Walker 1864[4973]: 238.—Indonesia. Maluku: N. Ceram [Seram Laut]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 216. [6604663]
- Trypeta sexincisa* Thomson 1869[4809]: 579.—China. ST ♀ NRS. [6604513]
- Trypeta formosana* Enderlein 1911[1326]: 427.—Taiwan. Akau. HT ♀ PAN. [6601148]
- Trypeta 6-incisa* Thomson 1869[4809]: 579.—incosp. *sexincisa* Thomson. Automatic correction under Art. 32(d). [6605657]
- Spheniscomyia sexmaculata*: Bezzi 1913[448]: 148.—misid. See Hardy 1973: 121. [6605589]
- binoculatus.** Fiji [AU].
- Spheniscomyia binoculata* Bezzi 1928[478]: 115.—Fiji. Yasawa. LT ♂ BMNH. Lectotype designated by Hardy 1969:479. [6600540]
- filiolus.** s. Europe, Israel, Egypt, Canary Is., Ethiopia [PA, AF].
- Aciura filiola* Loew 1869[3041]: 12.—Spain. Andalusia. T ♀ ZMHU. [6603128]
- Sphaeniscus brevicauda* Becker 1908[374]: 138.—Canary Is. Tenerife. ST ♂ ♀ ZMHU. [6600131]
- Spheniscomyia aegyptiaca* Efflatoun 1924[1293]: 136.—Egypt. near Helwan, Wadis Hussein, Hoff, Rashid, Rishrash & Garawi; & Suez Road. ST ♂ ♀ ESEE. [6601131]
- lindbergi.** Cape Verde Is. [AF].
- Sphaeniscus lindbergi* Hering 1958[2230]: 22.—Cape Verde Is. Fogo: Supra Fte., Aleixo. HT ♂ UZMH. [6602740]
- melanotrichotus.** Sri Lanka [OR].
- Sphaeniscus melanotrichotus* Hering 1956[2226]: 67.—Sri Lanka. Central: Hakgala [6°55'N 80°49'E], 1800-1900 m. HT ♀ NMB. [6602725]
- quadrincisus.** India, Sri Lanka, s. China, Taiwan [OR].
- Tephritis quadrincisa* Wiedemann 1824[5133]: 55.—India orient. [e. India or Bangladesh]. T ♀ UZMC. Type data (Zimsen 1954: 28). [6604720]
- Trypeta tucia* Walker 1849[4957]: 1021.—India. North Bengal. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 226. [6604560]
- Euxesta parvula* Wulp 1897[5214]: 141.—Ceylon [Sri Lanka]. HT ♀ MNM? [6604774]
- Trypeta tacia* Wulp 1896[5213]: 192.—missp. *tucia* Walker. [6605823]
- sexmaculatus.** Sudan S to South Africa, Madagascar, Reunion, Mauritius [AF].
- Urophora sexmaculata* Macquart 1843[3076]: 379.—Ile Bourbon [Reunion]. ST ♂ MNHNP. [6603214]
- Ortalis sanctaemariae* Bigot 1860[498]: 548.—Madagascar. “Sainte-Marie”. T ♀ UMO. [6605501]
- Acidia melania* Bezzi 1908[442]: 193.—South Africa. Cape: Mafeking. “British-Beshuanaland”. HT ♀ ZMHU? [6600182]
- Ortalis sanctae-mariae* Bigot 1860[498]: 548.—incosp. *sanctae-mariae* Bigot. Automatic correction under Art. 32(d). [6605500]
- Acidia melanica* Shiraki 1933[4432]: 354.—missp. *melania* Bezzi. [6605557]
- Genus SPHENELLA**
- Sphenella* Robineau-Desvoidy 1830[4148]: 773, *linariae* Robineau-Desvoidy (MO) = *marginata* Fallen. [6600626]

- Sinevra* Lioy 1864[**2986**]: 1024, *Tephritis marginata* Fallen, Hardy 1977[**1946**]: 130 (SD). See Foote & Freidberg 1981: 32. [6600325]
Sinevra Hendel 1927[**2108**]: 169, missp. *Sinevra* Lioy. [6600663]
Sphenella Hardy 1977[**1946**]: 130, missp. *Sphenella* Robineau-Desvoidy. Attributed to “authors”. [6600974]
- REFS—Bezzi 1924[**472**]: 135 (key to 3 spp. [PA, AF]) Bezzi 1924[**470**]: 544 (key to 3 spp. [PA, AF]); Munro 1957[**3511**]: 26 (key to 13 spp. [PA, AF, OR, AU]); Hardy 1988[**1965**]: 61 (key to 4 spp. [OR, AU]).
- atra.** South Africa [AF].
Sphenella atra Munro 1957[**3511**]: 42.—South Africa. Natal: Drakensberg, Cathkin area. HT ♂ SANC. [6603808]
- aureliani.** Hungary, Romania [PA].
Sphenella aureliani Gheorghiu 1985[**1670**]: 173.—Romania. Tulcea, Danube delta, Caraorman. HT ♂ MGAB. [6601400]
- austrina.** Eritrea, Kenya, Mozambique, Lesotho, South Africa [AF].
Sphenella marginata ssp. *austrina* Munro 1957[**3511**]: 31.—South Africa. Cape: Kimberley, Picardi. HT ♂ SANC. [6603805]
- crenata.** Kenya [AF].
Sphenella crenata Munro 1957[**3511**]: 37.—Kenya. Nairobi. HT ♂ SANC. [6603807]
- deletrix.** South Africa [AF].
Sphenella deletrix Munro 1957[**3511**]: 44.—South Africa. Cape: East London, Buffalo Pass. HT ♂ SANC. [6603810]
- helianthoides.** Zimbabwe, South Africa [AF].
Acanthiophilus helianthoides Bezzi 1926[**476**]: 296.—South Africa. Cape: Toise R. ST ♂ ♀ SANC. Designation of HT by Munro 1957: 46 invalid. [6600527]
- hessei.** South Africa [AF].
Acanthiophilus hessei Munro 1929[**3459**]: 30.—South Africa. Cape: Swellendam dist., Tradouw Pass. ST ♂ ♀ SAMCT. [6603480]
- marginata.** n. Europe E to w. Siberia, S to Spain, Egypt & Afghanistan [PA].
Tephritis marginata Fallen 1814[**1382**]: 165.—Sweden. Esperods mark i Skane [Kristianstads: Asperod]. T ♀ ZIL? No ST in NRS (Persson 1958: 109). [6601239]
Sphenella linariae Robineau-Desvoidy 1830[**4148**]: 774.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604086]
Acinia miranda Wollaston 1858[**5174**]: 116.—Madeira Is. Porto Santo. T A BMNH. [6604759]
Tephritis tenerifensis Bigot 1892[**510**]: 278.—Canary Is. Tenerife, station No. 122. HT ♀ UMO [6600561]
Tephritis marginata Fallen 1820[**1383**]: 7.—Sweden. Kristianstads: near Kivik, Mellby, Asperod. LT ♀ ZIL. Preocc. Fallen 1814; Lectotype designated by Persson 1958: 109. [6605171]
Tephritis tenerifensis Hendel 1927[**2108**]: 213.—missp. *tenerifensis* Bigot. [6605659]
Trupanea arcuata: Schrank 1803[**4315**]: 142.—misid. [6605658]
- melanostigma.** South Africa [AF].
Sphenella melanostigma Bezzi 1908[**442**]: 194.—South Africa. Cape: Steinkopf, “Klein Namaland”. HT ♀ ZMHU? Type data (Munro 1957: 39). [6600180]
- nigricornis.** Namibia, South Africa, Lesotho [AF].
Sphenella nigricornis Bezzi 1924[**470**]: 545.—South Africa. n. Transvaal: Messina. HT ♂ SAMCT. [6600427]
- nigropilosa.** Indonesia (Java) [OR].
Sphenella nigropilosa Meijere 1914[**3319**]: 220.—Indonesia. Java: Gunung Ungaran. HT ♂ ZMAN. Type data (Hardy 1988: 62). [6604936]
- novaguineensis.** Indonesia (Irian Jaya), Papua New Guinea, New Britain [AU].
Sphenella novaguineensis Hardy 1988[**1965**]: 62.—Papua New Guinea. New Britain: Sio, N Coast, 60 m. HT ♂ BBM. [6601859]
- orbicula.** South Africa [AF].
Sphenella orbicula Munro 1957[**3511**]: 37.—South Africa. Transvaal: Pilgrims Rest. HT ♂ SANC. [6603806]
- rostrata.** Lesotho [AF].
Sphenella rostrata Munro 1957[**3511**]: 43.—Lesotho. Drakensberg, top of Sani Pass. HT ♂ SANC. [6603809]
- ruficeps.** Australia (WA, NT, SA, Qld., NSW, Vic., Tas.) [AU].
Urophora ruficeps Macquart 1851[**3085**]: 261.—Australia. Queensland: Stanthorpe. NT ♂ UQIC. Neotype designated by Munro 1957: 33, but 2 possible ST in MNHNP (White, pers. obs.). [6603243]
Trypeta heterura Thomson 1869[**4809**]: 584.—Australia. New South Wales: Sidney [Sydney]. T ♀ NRS. [6604523]
- semisphenella.** South Africa [AF].
Acanthiophilus semisphenella Bezzi 1926[**476**]: 297.—South Africa. Transvaal: Barberton, Stentor. HT ♂ SANC. [6600528]
- sinensis.** India, s. China & Japan (Ryukyu Is.) to New Guinea [OR, AU].
Sphenella sinensis Schiner 1868[**4296**]: 267.—China. Shanghai. HT ♀ NMW. Type data (Hardy 1968: 140). [6604184]
Sphenella indica Schiner 1868[**4296**]: 267.—India. Tamil Nadu: Madras. HT ♂ NMW. Type data (Hardy 1968: 137). [6604183]
Trypeta sinensis Thomson 1869[**4809**]: 585.—China. LT ♀ NRS. Preocc. Schiner 1868; Lectotype designated by Munro 1957: 42. [6604524]
- ypsilon.** South Africa [AF].
Sphenella ypsilon Munro 1933[**3464**]: 41.—South Africa. Cape: Cape Peninsula, Muizenberg. ST ♂ ♀ SANC. [6603516]

Genus *SPILOCOSMIA*

- Spilocosmia* Bezzi 1914[**450**]: 327, *bakeri* Bezzi (OD). [6600414]
Prospilocosmia Shiraki 1933[**4432**]: 212, *punctata* Shiraki (MO). Proposed as a subgenus. [6600407]

REF.—Hardy 1988[**1964**]: 115 (key to 4 spp. [OR]).

- bakeri.** Laos, Vietnam, Philippines [OR].
Spilocosmia bakeri Bezzi 1914[**450**]: 327.—Philippines. Luzon, Laguna: Mt. Makiling. ST ♂ Baker. Lectotype designated by Hardy 1969: 481 invalid; ST currently in MCSNM. [6600249]
- kotoshoensis.** Taiwan [OR].
Prospilocosmia punctata f. *kotoshoensis* Shiraki 1933[**4432**]: 216.—Taiwan. Kotosho. ST ♂ ♀ NTU. [6604275]
- octavia.** Taiwan, Indonesia (Nusa Tenggara) [OR].
Prospilocosmia octavia Munro 1935[**3477**]: 256.—Taiwan. Taihoku. HT ♂ DEI. [6603555]
- punctata.** Taiwan [OR].
Prospilocosmia punctata Shiraki 1933[**4432**]: 214.—Taiwan. Musha; Arisan; Rikiriki; Taito; & Urai. ST ♂ ♀ NTU. [6604274]

Genus *STAMNOPHORA*

- Stamnophora* Munro 1955[**3507**]: 415, *Tephritis vernoniicola* Bezzi (OD). [6600094]

vernoniicola. Eritrea, Kenya, Uganda, Malawi, South Africa [AF].
Tephritis vernalicola Bezzi 1918[456]: 15.—Eritrea. Adi Ugri.
HT ♂ MCSNM. [6600294]

Genus *STAURELLINA*

Staurellina Hering 1941[2190]: 6, *trypetopsis* Hering (OD).
[6600390]

trypetopsis. Burma [OR].

Staurellina trypetopsis Hering 1941[2190]: 6.—Burma. Kachin:
Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602473]

Genus *STEMONOCERA*

Stemonocera Rondani 1870[4205]: 30, *Musca cornuta* Scopoli
(MO). [6600605]

Stemonocera Foote 1984[1517]: 146, missp. *Stemonocera* Rondani.
Attributed to “authors”. [6600975]

REFS—Hendel 1927[2107]: 71 ((*Vidalia*) key to 2 spp. [PA,
OR]); Hering 1936[2166]: 56 ((*Vidalia*) key to 2 spp. (supplement to
Hendel 1927) [PA]); Hering 1937[2173]: 246 ((*Vidalia*) key to 4 spp.
[PA]); Richter 1970[4087]: 145 ((*Vidalia*) key to 2 spp. [PA: e.
Europe]); Ito 1984[2417]: 98 ((*Vidalia*) key to 2 spp. [PA: Japan]);
Wang 1991[4998]: 463 ((*Vidalia*) key to 5 spp. [PA: China]).

bipunctata. China (Zhejiang) [PA].

Vidalia bipunctata Zia 1937[5308]: 163.—China. Zhejiang:
Tien-Mu-Shan [Tianmushan]. HT ♀ IZAS. [6604834]

brevialis. Japan (Hokkaido) [PA].

Vidalia brevis Ito 1985[2422]: 339.—Japan. Hokkaido: Isikari,
Sapporo. HT ♂ HUS. [6602833]

cervicornis. Pakistan, India (Himachal Pradesh, Uttar Pradesh, Bihar)
[OR].

Vidalia cervicornis Brunetti 1917[640]: 95.—India. Himachal
Pradesh: Simla Hills, Phagu. ST ♂ ♀ ZSI. [6600634]

cornuta. Britain, Netherlands, cent. Europe, Slovenia, Siberia, China
[PA].

Musca cornuta Scopoli 1772[4332]: 123.—Slovenia. Idrija. T A
Unknown. [6604215]

Trypeta abrotani Meigen 1826[3306]: 314.—Not stated [probably
Germany. Stolberg]. T ♀ MNHNP? [6603428]

Vidalia cornuta ssp. *sinica* Wang 1991[4998]: 467.—China.
Xizang: Zhamo (29°N 95°E), 2700 m. HT ♂ BAUC. [6605160]

Trypeta cervus Frauenfeld 1857[1537]: 554.—*Nomen nudum*.
Austria. Schneeberg. ST ♂ NMW. [6605400]

corruca. Russia (Primorskiy), China (Heilongjiang, Jilin, Shanxi,
Beijing) [PA].

Trypeta corruca Hering 1937[2173]: 248.—Russland [Russia].
HT ♂ ZMHU. [6602266]

Myiolia lucens Zia 1938[5309]: 47.—China. sw. Shanxi:
Ho-Chan, 2255 m.; Tsi-li-yu [Tsiliyu], 2100 m. ST ♀ IZAS.
[6604857]

discalis. India (Himachal Pradesh) [OR].

Acidia discalis Brunetti 1917[640]: 97.—India. Himachal
Pradesh: Simla District, between Phagu & Kufri. HT A ZSI.
[6600636]

hendeli. China (Sichuan) [PA].

Vidalia hendeli Munro 1938[3483]: 29.—n. n. *cervicornis* Hendel
1927. [6605277]

Vidalia hendeli Hering 1938[2181]: 38.—n. n. *cervicornis* Hendel
1927. Preocc. Munro 1938. [6602369]

Vidalia cervicornis Hendel 1927[2107]: 73.—China. Sichuan:
near Washan, 7000-9000 ft. T ♂ USNM. Preocc. Brunetti 1917.
[6602129]

japonica. Japan (Honshu) [PA].

Vidalia cornuta ssp. *japonica* Ito 1984[2417]: 99.—Japan.
Honshu: Sinano, Tokugo-toge, 1600-2135 m. HT ♂ UOPJ.
[6602806]

Vidalia cornuta ssp. *japonica* Ito 1956[2407]: 25.—*Nomen nudum*.
Published after 1930 without a description. [6604965]

mica. Korea, Russia (Kurile Is.), Japan (Hokkaido, Honshu) [PA].

Vidalia mica Richter & Kandybina 1981[4098]: 131.—Russia.
Kurile Is., Kunashir I., Golovnin volcano. HT ♂ ZISP.
[6605251]

Vidalia montivaga Ito 1984[2417]: 100.—Japan. Honshu: Kawati,
Iwawakisan. HT ♂ UOPJ. [6602792]

Vidalia koreana Kwon 1985[2802]: 66.—South Korea.
Kyongsangpuk: Mt. P'algongsan. HT ♀ KUTK. [6602912]

Vidalia montivaga Ito 1956[2407]: 25.—*Nomen nudum*. Publish-
ed after 1930 without a description. [6604963]

spinulosa. Poland [PA].

Vidalia spinulosa Hering 1936[2166]: 56.—Poland. Silesia:
Tannenburg [Stebark]. HT ♂ BMNH. [6602230]

unicinata. China (Qinghai) [PA].

Vidalia uncinata Wang 1991[4998]: 464.—China. Qinghai:
Yushu (33°N 97°E), 3700 m. HT ♂ IZAS. [6605162]

Genus *STENOPEA*

Stenopa Loew 1873[3042]: 234, *Trypeta vulnerata* Loew (MO).
[6600745]

REF.—Foote, Blanc & Norrbom 1993[1523]: 370 (key to 2 spp.
[NE]).

affinis. USA (Oregon, Colorado, Nevada, Arizona) [NE].

Stenopa affinis Quisenberry 1949[3992]: 87.—USA. Colorado:
Bennet Creek. HT ♂ USNM. HT transferred from CSUFC to
USNM. [6604013]

vulnerata. Canada & USA (British Columbia & Manitoba S to
California & Arizona; Michigan & e. Quebec S to North
Carolina) [NE].

Trypeta vulnerata Loew 1873[3042]: 232.—USA. Massachusetts.
ST ♂ ♀ MCZ. [6603156]

Genus *STEPHANOTRYPETA*

Stephanotrypeta Hendel 1931[2113]: 8, *brevicosta* Hendel (MO).
[6600326]

Terpnodesma Munro 1956[3508]: 469, *Terellia taeniptera* Bezzi
(OD). [6600197]

REF.—Freidberg 1979[1551]: 165 (revision of 4 spp. [PA, AF]).

brevicosta. Sudan, Kenya [AF].

Stephanotrypeta brevicosta Hendel 1931[2113]: 9.—Sudan. Ash
Sharqui: Gebel [Jabal] Elba, Wadi Edeib. ST ♂ ♀ ESEE?
[6602200]

nigrofemorata. Namibia [AF].

Terellia nigrofemorata Munro 1929[3459]: 7.—Namibia. Kaross.
HT ♀ SAMCT. [6603484]

taeniptera. Zaire, Uganda, Burundi, Kenya, Zimbabwe, South
Africa [AF].

Terellia taeniptera Bezzi 1923[467]: 581.—South Africa.
Transvaal: Barberton. LT ♂ SANC. Lectotype designated by
Freidberg 1979: 166. [6600372]

Terellia taeniptera Bezzi 1924[470]: 506.—South Africa.
Transvaal: Pretoria [error, Barberton]. HT ♂ SANC. Preocc.
Bezzi 1923: 581; type data (Munro 1956:470; Freidberg 1979:
166). [6605057]

vittata. Saudi Arabia, Yemen, Kenya, Tanzania, Madagascar [PA, AF].
Stephanotrypeta vittata Freidberg 1979[1551]: 168.—Kenya. Tsavo. HT ♂ TAUI. [6601325]
 Terellia taeniaptera: Bezzi 1923[467]: 581.—misid. See Freidberg 1979: 168. [6605789]

Genus *STIGMATOMYIA*

Stigmatomyia Hardy 1986[1962]: 129, *arcuata* Hardy (OD). [6600530]

arcuata. Papua New Guinea (Morobe) [AU].

Stigmatomyia arcuata Hardy 1986[1962]: 129.—Papua New Guinea. Morobe: nr. Bulolo. HT ♂ BBM. [6601766]

Genus *STONEOLA*

Stoneola Hering 1941[2202]: 140, *Anastrepha fuscobasalis* Hering (OD). [6600076]

fuscobasalis. Peru, Argentina [NT].

Anastrepha fuscobasalis Hering 1935[2161]: 226.—Peru. Chanchamayo. ST ♂ PAN. [6602225]

Genus *STRAUZIA*

Strauzia Robineau-Desvoidy 1830[4148]: 718, *inermis* Robineau-Desvoidy, Coquillett 1910[966]: 609 (SD) = *longipennis* Wiedemann. Suspension of I.C.Z.N. rules required to validate usage. [6600751]

Straussia Loew 1873[3042]: 243, emend. *Strauzia* Robineau-Desvoidy = *longipennis* Wiedemann. In the interest of stability, the authors reject this justified emendation. [6600896]

REFS—Steyskal 1986[4652]: 101 (revision of 7 spp. [NE]); Stoltzfus 1988[4668]: 119 (revision of 13 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 375 (key to 7 spp. [NE]).

arculata. USA (Wyoming, North Dakota & Wisconsin, S to New Mexico, Kansas & Illinois) [NE].

Trypeta longipennis var. *arculata* Loew 1873[3042]: 242.—USA. Illinois. HT ♂ MCZ. Type data (Steyskal 1986: 107). [6603164]

gigantei. USA (Michigan, Ohio) [NE].

Strauzia gigantei Steyskal 1986[4652]: 107.—USA. Ohio: Portage Co., 1 mi. S Kent. HT ♀ USNM. [6604422]

intermedia. Canada & USA (Manitoba, Ontario & New Hampshire, S to Arkansas & n. Georgia) [NE].

Trypeta longipennis var. *intermedia* Loew 1873[3042]: 241.—Unknown. HT ♂ MCZ. Type data (Steyskal 1986: 108). [6603163]

longipennis. Canada & USA (Alberta E to Ontario & Massachusetts, S to California, New Mexico, n. Mississippi & n. Florida) [NE].

Trypeta longipennis Wiedemann 1830[5136]: 483.—Nordamerika [North America]. ST ♂ ♀ NMW. [6604729]

Strauzia inermis Robineau-Desvoidy 1830[4148]: 718.—USA. Pennsylvania: Philadelphia. T A Dejean. [6604043]

Strauzia armata Robineau-Desvoidy 1830[4148]: 719.—USA. Pennsylvania: Philadelphia. T A Dejean. [6604044]

Tephritis trimaculata Macquart 1843[3076]: 383.—North America. T ♂ MNHNP. ST in MNHNP apparently lost; possible ST in UMO. [6603219]

Trypeta cornigera Walker 1849[4957]: 1010.—North America. LT ♂ BMNH. Lectotype designation by inference of holotype by Foote 1964: 320. [6604555]

Trypeta cornigera Walker 1849[4957]: 1011.—USA. New York. LT ♂ BMNH. Lectotype designation by inference of holotype by Foote 1964: 319. [6604556]

Trypeta longipennis var. *confluens* Loew 1873[3042]: 241.—USA. Connecticut. HT ♂ MCZ. Type data (Steyskal 1986: 109). [6603161]

Trypeta longipennis var. *typica* Loew 1873[3042]: 239.—USA. Pennsylvania. LT ♀ MCZ. Lectotype designated by Steyskal 1986: 108. [6603158]

Trypeta sepentaria Harris 1835[2019]: 600.—*Nomen nudum*. ST A MCZ. Attributed to Say; see Johnson 1925: 97. [6605536]

Trypeta septenaria Osten Sacken 1858[3716]: 80.—missp. *sepentaria* Harris. [6605534]

Trypeta serpentaria Johnson 1925[2516]: 97.—missp. *sepentaria* Harris. [6605530]

longitudinalis. USA (Ohio, New York, Connecticut, Pennsylvania, North Carolina) [NE].

Trypeta longipennis var. *longitudinalis* Loew 1873[3042]: 240.—USA. New York: Sharon Springs. LT ♂ MCZ. Lectotype designated by Steyskal 1986: 108. [6603160]

noctipennis. Canada & USA (Oregon, Alberta & Wisconsin, S to New Mexico & Indiana) [NE].

Strauzia noctipennis Stoltzfus 1988[4668]: 124.—USA. Iowa: 2 mi. S Ames, along railroad. HT ♂ USNM. [6604434]

perfecta. Canada & USA (South Dakota, Ontario, & Massachusetts, S to New Mexico, Tennessee & North Carolina) [NE].

Trypeta longipennis var. *perfecta* Loew 1873[3042]: 239.—Not stated. ST ♂ ♀ MCZ. Type data (Steyskal 1986: 109), inference of holotype invalid. [6603159]

rugosa. USA (Ohio, West Virginia, Virginia) [NE].

Strauzia rugosum Stoltzfus 1988[4668]: 125.—USA. Ohio: 2 mi. S Wadsworth. HT ♀ USNM. [6604435]

stoltzfusi. USA (Minnesota) [NE].

Strauzia stoltzfusi Steyskal 1986[4652]: 110.—USA. Minnesota: Ramsey Co., St. Paul, St. Anthony Park. HT ♀ USNM. [6604423]

uedaliae. USA (Maryland, Virginia, North Carolina) [NE].

Strauzia uedaliae Stoltzfus 1988[4668]: 125.—USA. Virginia: 1 mi. S Elkton. HT ♂ USNM. [6604436]

verbesinae. USA (Kentucky, Virginia) [NE].

Strauzia verbesinae Steyskal 1986[4652]: 110.—USA. Virginia: Rockingham Co., 5 mi. E Harrisonburg. HT ♀ USNM. [6604424]

vittigera. Canada & USA (Montana E to Ontario, S to Arizona & Virginia) [NE].

Trypeta longipennis var. *vittigera* Loew 1873[3042]: 241.—USA. Nebraska. LT ♀ MCZ. Lectotype designated by Steyskal 1986: 109. [6603162]

Genus *STROBELIA*

Strobelia Rondani 1868[4200]: 29, *baccharidis* Rondani, Hendel 1914[2104]: 93 (SD). [6600077]

REF.—Hendel 1914[2103]: 50 (key to 6 spp. [NT]).

albuguttata. Chile [NT].

Strobelia albuguttata Hendel 1914[2103]: 52.—Chile. Bio Bio: Talcahuano. HT ♂ NMW. [6602014]

baccharidis. Argentina (Buenos Aires, Mendoza, Cordoba) [NT].

Strobelia baccharidis Rondani 1868[4200]: 29.—Argentina. Buenos Aires. T A MZLS. Described from female or both sexes. [6604119]

Trypeta scudderi Weyenbergh 1883[5087]: 363.—Argentina. Cordoba. T ♀ (destroyed?). Type data (Horn & Kahle 1937: 301). [6604701]

Trypeta cuculi Kieffer & Jorgensen 1910[2670]: 372.—Argentina. Mendoza: Pedregal; & Chacras de Coria. ST ♂ ♀ Kieffer (destroyed). [6602869]

bimaculata. Brazil (Rio Grande do Sul) [NT].

Strobelia bimaculata Hendel 1914[2103]: 52.—Brazil. Rio Grande do Sul. HT ♀ NMW. [6602012]

ferruginea. Argentina [NT].

Strobelia ferruginea Hendel 1928[2111]: 369.—Argentina. Mendoza. ST ♂ DEI, NMW. Inference of HT by Hardy (1968: 123) invalid. [6602196]

lutulenta. Argentina [NT].

Strobelia lutulenta Hendel 1914[2103]: 52.—Argentina. Mendoza: Rivadavia. LT ♀ NMW. Lectotype designated by Hardy 1968: 123. [6602013]

paralella. Peru, Bolivia [NT].

Strobelia paralella Hendel 1914[2103]: 51.—Peru. Callanga; Bolivia. La Paz: Mapiro, Sarampiuni, 700 m. ST ♀ MNM, SMT. [6602011]

Strobelia paralella Aczel 1950[14]: 263.—missp. *paralella* Hendel. [6600004]

rubiginosa. Argentina (Mendoza) [NT].

Strobelia rubiginosa Rondani 1868[4200]: 30.—Argentina. Mendoza. T A MZLS. Described from female or both sexes. [6604120]

Genus *STYLIA*

Stylia Robineau-Desvoidy 1830[4148]: 754, *maculata* Robineau-Desvoidy, Desmarest 1848[1121]: 78 (SD). Unrecognized, see Evenhuis & Thompson 1990: 239. [6600615]

maculata. France [PA].

Stylia maculata Robineau-Desvoidy 1830[4148]: 754.—France. Loire: Saint-Sauveur. ST ♀ MNHNP (destroyed). Unrecognized. [6604053]

Genus *STYMBARA*

Stymbara Walker 1865[4974]: 127, *vagaria* Walker (MO) = *concosa* Walker. [6600553]

Curvinervus Hardy 1959[1933]: 203, *Strumeta concisa* Walker (OD). [6600554]

concosa. Indonesia (Irian Jaya), Papua New Guinea [AU].

Strumeta concisa Walker 1864[4973]: 227.—Indonesia. Irian Jaya: Waigiou [Waigeo I.]. T ♀ BMNH. Walker probably misstated sex of ST, only male in BMNH (see Hardy 1959: 203). [6604661]

Stymbara vagaria Walker 1865[4974]: 127.—New Guinea. HT ♂ BMNH. Type data (Hardy 1966: 666). [6604675]

Curvinervus walkeri Hardy 1959[1933]: 203.—n. n. *concosa* Walker 1864. [6601503]

Genus *SUNDARESTA*

Sundaresta Hering 1953[2222]: 78, *hilaris* Hering (OD). [6600431]

hilaris. Indonesia (Java, Nusa Tenggara) [OR].

Sundaresta hilaris Hering 1953[2222]: 79.—Indonesia. Nusa Tenggara: w. Sumba I., Pogobina. HT ♀ NMB. [6602718]

Genus *TAENIORIOXA*

Taeniorioxa Permkam & Hancock 1995[3795]: 1115, *quinaria* Permkam & Hancock (OD). [6600998]

quinaria. Australia (se. Qld.) [AU].

Taeniorioxa quinaria Permkam & Hancock 1995[3795]: 1115.—Australia. Queensland: Gatton. HT ♀ QMBA. [6605855]

Genus *TAENIOSTOLA*

Taeniosstola Bezzi 1913[448]: 119, *vittigera* Bezzi (OD). [6600555]

REFS—Bezzi 1926[474]: (key to 3 spp. [OR]); Shiraki 1933[4432]: 140 (key to 2 spp. [OR: Taiwan]); Hardy 1973[1942]: 210 (key to 8 spp. [OR]); Kapoor 1993[2600]: 45 (key to 2 spp. [OR: India];).

apicata. Burma, Thailand, Borneo [OR].

Taeniosstola apicata Hering 1938[2177]: 250.—Borneo, Bidang Menabai, 700 m. HT ♀ ZSZMH. [6602224]

Taeniosstola plagiata Hering 1938[2177]: 245.—incosp. *apicata* Hering. Hardy 1973: 210 (FR). [6605660]

connecta. Taiwan [OR].

Taeniosstola connecta Hendel 1915[2105]: 436.—Taiwan. Kosempo. ST ♂ MNM. [6602081]

gracilis. Burma [OR].

Taeniosstola gracilis Bezzi 1913[448]: 120.—Burma. Karen: base of Dawna Hills. HT ♀ ZSI. [6600206]

limbata. India, Nepal, Thailand, Taiwan, Papua New Guinea [OR, AU].

Taeniosstola limbata Hendel 1915[2105]: 435.—Taiwan. Taitorinsho; Taihorin; Sokutsu. ST ♂ ♀ DEI, MNM. Also possible ST in NMW (Hardy 1968: 124). [6602080]

melli. China (Guangdong) [OR].

Taeniosstola melli Hering 1942[2206]: 276.—China. Guangdong: Canton [Guangzhou]. HT ♂ ZMHU. [6602583]

morosa. Burma [OR].

Taeniosstola morosa Hering 1938[2181]: 15.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602340]

paragoga. Burma [OR].

Taeniosstola paragoga Hering 1938[2181]: 16.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602341]

striatipennis. Malaysia (Sabah) [OR].

Taeniosstola striatipennis Hering 1941[2195]: 68.—Malaysia. Sabah: Kinabalu. HT ♂ MNM. [6602542]

vittigera. Bangladesh, India (Assam, Mizoram) [OR].

Taeniosstola vittigera Bezzi 1913[448]: 119.—Bangladesh. Sylhet; & India. Assam: Lungleh. ST ♂ ♀ ZSI. [6600205]

Genus *TANAICA*

Tanaica Munro 1957[3510]: 1018, *Ensina hyalipennis* Bezzi (OD). [6600194]

hyalipennis. Namibia, South Africa [AF].

Ensina hyalipennis Bezzi 1924[470]: 549.—South Africa. Cape: Cedarbergen, Clanwilliam, 4000-5000 ft. HT ♀ SAMCT. [6600430]

Genus *TANAODEMA*

Tanaodema Hardy 1987[1963]: 350, *porrecta* Hardy (OD). [6600603]

porrectum. Papua New Guinea (Eastern Highlands) [AU].

Tanaodema porrecta Hardy 1987[1963]: 351.—Papua New Guinea. Eastern Highlands: Mt. Gahavisuka Prov. Park, Goroka. HT ♂ AMS. [6601841]

Genus TANYMETOPUS

Tanymetopus Hardy 1982[1954]: 88, *claripennis* Hardy (OD). [6600556]

claripennis. Papua New Guinea, New Britain [AU].

Tanymetopus claripennis Hardy 1982[1954]: 88.—Papua New Guinea. Eastern Highlands: 20-26 km. SE Opaka [Okapa?], Purosa [6°39'S 145°32'E], 1800-2020 m. HT ♂ BBM. [6601698]

Genus TAOMYIA

Taomyia Bezzi 1920[463]: 240, *marshalli* Bezzi (OD). [6600130]

REFS—Bezzi 1924[469]: 111 (key to 2 spp. [AF]); Hancock 1991[1895]: 124 (key to 4 spp. [AF]).

marshalli. Ghana, Kenya, Zimbabwe, South Africa [AF].

Taomyia marshalli Bezzi 1920[463]: 241.—South Africa. Natal: Verulam. HT ♂ BMNH. [6600342]

mauritaniana. Mauritius [AF].

Taomyia mauritaniana Hancock 1991[1895]: 125.—Mauritius. Magenta. HT ♀ SANC. [6605194]

ocellata. Seychelles [AF].

Acidia ocellata Lamb 1914[2827]: 317.—Seychelles. Marie Anne I. HT ♂ BMNH. [6602924]

pictipennis. Madagascar [AF].

Taomyia pictipennis Hancock 1985[1885]: 290.—Madagascar. East, Ambatondrazaka district, Andranomandevy, Didy, 1039 m. HT ♀ MNHNP. [6601468]

Genus TARCHONANTHEA

Tarchonanthea Freidberg & Kaplan 1993[1569]: 217, *Icaria frauenfeldi* Schiner (OD). [6600865]

REF.—Freidberg & Kaplan 1993[1569]: 217 (revision of 2 spp. [AF]).

coleoprata. Kenya, Tanzania [AF].

Tarchonanthea coleoprata Freidberg & Kaplan 1993[1569]: 218.—Kenya. Rt. A104, Gilgil (00.30°S 36.20°E). HT ♀ TAU. [6605282]

frauenfeldi. Namibia, South Africa [AF].

Icaria frauenfeldi Schiner 1868[4296]: 276.—South Africa. Cape: Cap der guten Hoffnung [Cape of Good Hope]. LT ♀ NMW. Lectotype designated by Hardy 1968: 135. [6604198]

Genus TARPLOBREGMA

Tarphobregma Hardy 1987[1963]: 353, *pandani* Hardy (OD). [6600604]

carinatifrons. Papua New Guinea (Morobe) [AU].

Tarphobregma carinatifrons Hardy 1987[1963]: 354.—Papua New Guinea. Morobe: Lae, Sip Paia. HT ♂ BBM. [6601842]

pandani. Papua New Guinea [AU].

Tarphobregma pandani Hardy 1987[1963]: 356.—Papua New Guinea. Morobe: Bulolo, Nawata Banda logging area road. HT ♂ BBM. [6601843]

Genus TELALETES

Telaletes Munro 1938[3482]: 119, *Trypeta ochracea* Loew (OD). [6600195]

REF.—Munro 1957[3510]: 1015 (key to 2 spp. [AF]).

obscuratus. Uganda, Kenya [AF].

Telaletes obscurata Munro 1957[3510]: 1017.—Kenya. Mt. Elgon, Heath Zone, 10500-11500 ft. HT ♂ BMNH. [6603739]

ochraceus. Kenya, Zimbabwe, South Africa [AF].

Trypeta ochracea Loew 1861[3031]: 295.—Caffreri [South Africa]. LT ♀ ZMHU. Lectotype designation by inference of holotype by Munro 1957: 18. [6603081]

Trypeta ochracea Loew 1862[3037]: 6.—Caffraria [South Africa]. LT ♀ ZMHU. Preocc. Loew 1861 Lectotype, here designated, lectotype female of *Trypeta ochracea* Loew 1861. [6605274]

Genus TEPHRACIURA

Tephraeciura Hering 1941[2200]: 108, *Trypeta oborinia* Walker (OD). [6600157]

Jacotella Munro 1947[3496]: 136, *Trypeta angusta* Loew (OD). [6600158]

REFS—Munro 1947[3496]: 136 ((*Jacotella*) key to 7 spp. [AF, OR]); Kapoor 1993[2600]: 55 (key to 2 spp. [OR: India]).

angusta. Ethiopia, Burundi, Kenya, Namibia, South Africa, Socotra [AF].

Trypeta angusta Loew 1861[3031]: 271.—Caffreri [South Africa]. ST ♂ ♀ NRS? [6603067]

Trypeta angusta Loew 1862[3037]: 4.—Caffraria [South Africa]. ST ♂ ♀ NRS? Preocc. Loew 1861. [6605260]

basimacula. India (Tamil Nadu, Lakshadweep Is.), Sri Lanka [OR].

Aciura basimacula Bezzi 1924[472]: 123.—India. Lakshadweep Is., Minikoi. HT ♂ BMNH. [6600475]

Tephraeciura basivitta Hering 1951[2214]: 10.—India. Tamil Nadu: Coimbatone [Coimbatore]. HT ♀ BMNH. [6602650]

flavimacula. Madagascar [AF].

Tephraeciura flavimacula Hancock 1991[1896]: 179.—Madagascar. North, Montagne d'Ambre, Les Roussettes, 1100 m. HT ♂ MNHNP. [6605197]

latecuneata. Zaire, Namibia, Zimbabwe, South Africa [AF].

Jacotella latecuneata Munro 1947[3496]: 137.—South Africa. Transvaal: Pretoria. HT ♂ SANC. [6603665]

oborinia. Zaire, Uganda, Rwanda, Zambia, Malawi, Lesotho, South Africa [AF].

Trypeta oborinia Walker 1849[4957]: 1041.—Congo [Congo or Zaire]. ST ♂ ♀ BMNH. Type data Hardy (1966: 662). [6604581]

pachmarica. India (Madhya Pradesh) [OR].

Tephraeciura pachmarica Agarwal & Kapoor 1988[44]: 226.—India. Madhya Pradesh: Hoshangabad dist., Pachmarhi, 1067 m. HT ♀ INPC. [6605417]

phantasma. Namibia [AF].

Tephrella phantasma Hering 1935[2162]: 154.—Namibia. Otjiwarongo, Farm Okosongomingo. HT ♂ ZSZMH. [6602216]

semiangusta. Ethiopia, Zaire, Zambia, Zimbabwe [AF].

Aciura semiangusta Bezzi 1918[456]: 19.—Zambia. Chilanga. HT ♀ BMNH. [6600295]

sphenoptera. Ethiopia, Rwanda, Tanzania [AF].

Aciura sphenoptera Bezzi 1924[472]: 122.—Tanzania. Arusha-Ju. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 141. [6600473]

tulearensis. Madagascar [AF].

Tephraeciura tulearensis Hancock 1991[1896]: 181.—Madagascar. Toliara: 16 km. E of Tulear [Toliara]. HT ♀ MNHNP. [6605198]

Genus TEPHRELALIS

Tephrelalis Korneyev 1993[2740]: 142, *sexincisa* Korneyev (OD). [6600874]

sexincisa. e. Russia (Primorskiy) [PA].

Tephrelalis sexincisa Korneyev 1993[2740]: 142.—Russia. Primorskiy: Kedrovaya Pad State Natural Reserve. HT ♀ ZMM. [6605397]

Genus *TEPHRELLA*

Tephrella Bezzi 1913[448]: 151, *decipiens* Bezzi (OD). [6600327]

decipiens. India, Burma [OR].

Tephrella decipiens Bezzi 1913[448]: 152.—India. W. Bengal: Darjeeling, 7000 ft. HT ♀ ZSI. [6600224]

Genus *TEPHRITIS*

Tephritis Latreille 1804[2866]: 196, *Musca arnicae* Linnaeus, Cresson 1914[1011]: 278 (SD). Designations of *Musca artemisiae* Fabricius by Desmarest 1849: 455, *Musca leontodontis* De Geer by Rondani 1856: 112 & *Musca solstitialis* Linnaeus by Coquillett 1910: 613 invalid, not originally included species. [6600328]

Tephritoides Benjamin 1934[398]: 58, *Euaresta subpura* Johnson (OD). [6600740]

Acrorellia Wang 1990[4994]: 298, *sinica* Wang (OD). [6600835]

Terbita Bassov & Tolstoguzova 1994[341]: 83, *academica* Bassov & Tolstoguzova (OD). Proposed as a subgenus. **N. Syn.** [6600908]

Tephritis Wiedemann 1828[5135]: XXI, missp. *Tephritis* Latreille. [6600983]

Tephritis Robineau-Desvoidy 1830[4148]: 765, missp. *Tephritis* Latreille. [6600976]

Tephritis Griffith et al. 1832[1815]: 716, missp. *Tephritis* Latreille. [6600878]

Tephrites Scudder 1882[4334]: 328, missp. *Tephritis* Latreille. [6600984]

Tephritis Ballou 1926[307]: 28, missp. *Tephritis* Latreille. [6600890]

Tephritis Hennig 1952[2138]: 211, missp. *Tephritis* Latreille. [6600917]

Tephritis Foote 1984[1517]: 127, missp. *Tephritis* Latreille. Attributed to “authors”. [6600977]

Euribia: Hendel 1914[2102]: 96, misid. See Hendel 1927: 176. [6600664]

REFS—Hendel 1927[2108]: 178 (key to 41 spp. [PA]); Malloch 1931[3126]: 390 (key to 5 spp. [AU: New Zealand]); Hering 1934[2156]: 251 (key to 3 spp. (supplement to Hendel 1927) [PA]); Hering 1937[2173]: 254 (keys to 7 spp. (supplements to Hendel 1927) [PA]); Hering 1938[2180]: 402 (key to 5 spp. (*matricariae* - *simplex* group) [PA]); Hering 1938[2177]: 247 (keys to 10 spp. (supplements to Hendel 1927) [PA]); Hering 1944[2211]: 17 (key to 84 spp. [NE, PA, AF, OR, AU]); Quisenberry 1951[3994]: 60 (key to 10 spp. [NE: USA & Canada]); Hering 1956[2225]: 2 (key to 8 spp. (supplement to Hendel 1927) [PA]); Foote 1960[1488]: 72 (key to 15 spp. [NE: USA & Canada]); Hering 1961[2232]: 326 (keys to 10 spp. (supplements to Hering 1944) [PA]); Foote & Blanc 1963[1521]: 64 (key to 11 spp. [NE: USA: California]) Richter 1970[4087]: 163 (key to 38 spp. [PA: e. Europe]); Foote & Blanc 1979[1522]: 173 (key to 2 spp. (supplement to Foote 1960) [NE: USA & Canada]); Ito 1984[2420]: 246 (key to 4 spp. [PA: Japan]); Kwon 1985[2802]: 90 (key to 2 spp. [PA: Korea]); Janzen 1985[2464]: 409 (key to larvae of 8 spp. [PA: Sweden]); White 1988[4235]: 51 (key to 11 spp. [PA: Britain]); Jenkins & Turner 1989[2477]: 675 (key to 6 spp. infesting *Baccharis* [NE]); Freidberg & Kugler 1989[1571]: 119 (key to 13 spp. [PA: Israel & Sinai]); Kapoor 1993[2600]: 59 (key to 4 spp. [OR: India]); Foote, Blanc & Norrbom 1993[1523]: 389 (key to 18 spp. [NE: USA &

Canada]); Merz 1994[3343]: 57 (key to 34 spp. [PA: cent. Europe]); Hardy & Drew 1996[1972]: 350 (revision of 15 spp. [AU: Australia]).

academica. Russia (w. Siberia) [PA].

Tephritis academica Bassov & Tolstoguzova 1994[341]: 84.—Russia. Novosibirsk, Akademgorodok, forest-park. HT ♂ ZISP. [6605494]

acanthiophilopsis. Turkey [PA].

Tephritis acanthiophilopsis Hering 1938[2177]: 247.—Not stated [Turkey]. T A SMN, BMNH. [6602323]

Tephritis acanthiophilopsis Hering 1941[2203]: 134.—Turkey. Sultan-Dagh. ST ♂ ♀ SMN, BMNH. Preocc. Hering 1938. [6605499]

admissa. Afghanistan [PA].

Tephritis admissa Hering 1961[2232]: 326.—Afghanistan. Kataghan, Kalagchan, 1600 m. HT ♂ ZFMK. [6602747]

afra. Tanzania [AF].

Trypanea afra Hering 1941[2199]: 200.—Tanzania. Ugano. HT ♀ NMW. [6602555]

alini. China [PA].

Tephritis alini Hering 1936[2168]: 188.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602251]

amata. France [PA].

Tephritis amata Hering 1938[2177]: 247.—France. Lot: Douelle. ST ♀ BMNH. [6602324]

angulatofasciata. Iran [PA].

Tephritis angulatofasciata Portschinsky 1892[3876]: 220.—Iran. Schakuh [Shah Kuh Mt.]. ST ♂ ♀ ZISP. [6604005]

angustipennis. Scandinavia S to Belgium, Switzerland & Bulgaria, E to Kazakstan; Canada & USA (Alaska to N.S., S to Colo. & Mich.) [NE, PA].

Trypeta angustipennis Loew 1844[3020]: 382.—not stated [Europe]. ST ♂ ♀ ZMHU? cited Zetterstedt specimen(s) also ST. [6603014]

Trypeta segregata Frauenfeld 1864[1542]: 147.—Denmark. Halmstad, between Gothaborg & Copenhagen. T ♀ NMW. [6601311]

annuliformis. China (Nei Mongol) [PA].

Tephritis annuliformis Wang 1990[4994]: 293.—China. Nei Mongol: Xilin Gol L., Xilin Hot T. HT ♀ IZAS. [6605026]

araneosa. Canada to Mexico (British Columbia, Northwest Terr. & Ontario S to Baja California, New Mexico & Michigan; North Carolina, Georgia?) [NE].

Trypeta araneosa Coquillett 1894[948]: 74.—USA. southern California [Los Angeles Co.]. ST ♀ USNM. [6600765]

Urellia pacifica Doane 1899[1189]: 192.—USA. Oregon: Corvallis. LT ♀ WSU. Lectotype designated by Foote 1966: 124; type data (Zack 1984: 33). [6600934]

Urellia aldrichii Doane 1899[1189]: 192.—USA. South Dakota: Brookings. LT ♀ WSU. Lectotype designated by Foote 1966: 121; type data (Zack 1984: 33). [6600933]

arizonaensis. USA & Mexico (s. California, Arizona, New Mexico, Baja California, Sonora) [NE].

Tephritis arizonaensis Quisenberry 1951[3994]: 62.—USA. Arizona: “Tumicari Mts.” [probably Tumucacori Mts.]. HT ♀ UKaL. Type data (Jenkins & Turner 1989: 676). [6604015]

Tephritis arizonensis Foote 1960[1488]: 76.—missp. *arizonaensis* Quisenberry. [6605513]

arnicae. Britain & Scandinavia S to France, Bulgaria & Ukraine [PA].

Musca arnicae Linnaeus 1758[2981]: 600.—[Italy?]. LT A Unknown. Lectotype designated by White 1987: 101, specimen of *Aldrovandus* 1602, pl. 1, fig. 5, presumed lost. [6602991]

Trypeta flavicauda Meigen 1826[3306]: 336.—Not stated [probably Germany. Stolberg]. T A MNHNP. [6603440]

- Trypeta arnicivora* Loew 1844[3020]: 384.—Germany. Hesse: Frankfurt-am-Main region; & Poland. Schlesien [Silesia]. ST ♂ ♀ ZMHU? [6603016]
- Trypeta eggeri* Frauenfeld 1857[1537]: 544.—Austria. Schneeberg, Alpeck. ST ♂ ♀ NMW? [6601304]
- Tephritis melanotrichota* Hendel 1903[2092]: 383.—Norway. T A Unknown. [6601902]
- Tephritis melanotrichota* Becker 1905[370]: 139.—missp. *melanotrichota* Hendel. [6605624]
- Trypeta dilacerata*: Zetterstedt 1855[5303]: 4777.—misid. [6605661]
- atocoptera.** India (Jammu & Kashmir) [OR].
- Tephritis atocoptera* Agarwal & Kapoor 1988[45]: 122.—India. Jammu & Kashmir: Srinagar, University of Kashmir field. HT ♂ INPC. [6600072]
- baccharis.** USA & Mexico (California, Kansas & Texas S to Baja California, Michoacan & Hidalgo) [NE].
- Trypeta baccharis* Coquillett 1894[948]: 73.—USA. California: Los Angeles Co. LT ♀ USNM. Lectotype designated by Jenkins & Turner 1989: 678. [6600763]
- Icterica fasciata* Adams 1904[32]: 449.—USA. Arizona: Bill Williams Fork. LT ♀ UKaL. Lectotype designated by Foote 1962: 174. [6605049]
- Icterica fasciata* Snow 1904[4526]: 345.—*Nomen nudum*. Attributed to Adams. [6604381]
- bardanae.** British Is. & Scandinavia S to France & cent. Europe, E to Kazakstan [PA].
- Trupanea bardanae* Schrank 1803[4315]: 149.—Germany. Bavaria. ST ♂ ♀ Unknown. Specimens of Guettard 1762: 172 also are ST. [6604212]
- Trypeta confusa* Meigen 1826[3306]: 337.—Not stated [Europe]. ST ♂ ♀ MNHNP. Attributed to Wiedemann; also ST in NMW. [6603441]
- Xyphosia lappae* Robineau-Desvoidy 1830[4148]: 763.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604067]
- Xyphosia arvensis* Robineau-Desvoidy 1830[4148]: 763.—not stated [probably France]. T A MNHNP (destroyed). [6604068]
- Acinia heraclei*: Walker 1835[4955]: 77.—misid. [6605662]
- bimaculata.** Israel, Egypt (Sinai) [PA].
- Tephritis bimaculata* Freidberg 1981[1554]: 27.—Israel. Mt. Hermon, 2000 m. HT ♂ TAUI. [6601334]
- biparitata.** China (Jiangsu) [PA].
- Tephritis biparitata* Hendel 1938[2119]: 8.—China. Jiangsu. HT ♀ NRS. [6602206]
- brachyura.** Ukraine & s. Russia to Kirghizia, Iran, China [PA].
- Tephritis brachyura* Loew 1869[3041]: 22.—Russia. Sarepta region. ST ♂ ♀ ZMHU. [6603143]
- brachyura nigrofemorata.** Mongolia, China [PA].
- Tephritis brachyura* var. *nigrofemorata* Hendel 1927[2108]: 184.—China. Qinghai: Kuku-noor [Qinghai Hu] region. HT ♀ ZSZMH. [6602161]
- brunnea.** Australia (ACT, Vic.) [AU].
- Tephritis brunnea* Hardy & Drew 1996[1972]: 352.—Australia. Victoria: 7.4 km. E Marysville, Tommy's Bend. HT ♂ ANIC. [6605940]
- bushi.** Australia (NSW, ACT, Vic.) [AU].
- Tephritis bushi* Hardy & Drew 1996[1972]: 354.—Australia. Australian Capital Territory: Mt. Gingera. HT ♂ ANIC. [6605941]
- californica.** USA (California; Texas?) [NE].
- Tephritis californica* Doane 1899[1189]: 190.—USA. California: Palo Alto. HT ♀ WSU. Type data (Foote 1966: 122, Zack 1984: 32). [6600930]
- calliopsis.* China (Nei Mongol) [PA].
- Tephritis calliopsis* Wang 1990[4994]: 296.—China. Nei Mongol: Xilin Gol L., Xilin Hot T. HT ♀ IZAS. [6605029]
- candidipennis.** Canada & USA (Northwest Terr., Alberta, Oregon, n. California, Montana, Manitoba, Michigan) [NE].
- Tephritis candidipennis* Foote 1960[1488]: 82.—USA. California: Fieldbrook. HT ♀ USNM. [6601266]
- carcassa.** Korea [PA].
- Tephritis carcassa* Dirlbek & Dirlbekova 1974[1155]: 4.—North Korea. Pchenjang. HT ♀ Dirlbek. [6600909]
- cardualis.** Pakistan [OR].
- Tephritis cardualis* Hardy 1974[1944]: 373.—Pakistan. Northwest Frontier: Swat Dist., Choprial. HT ♂ BMNH. [6601677]
- carmen.** Belgium, Austria & Ukraine S to Spain, Italy & Bulgaria [PA].
- Tephritis carmen* Hering 1937[2173]: 254.—Spanien [Spain]. ST ♂ ♀ ZMHU. [6602275]
- cassinae.** New Zealand [AU].
- Tephritis cassinae* Malloch 1931[3126]: 395.—New Zealand. Nelson. HT ♂ NZAC. [6603258]
- cincta.** Denmark, Germany [PA].
- Trypeta cincta* Loew 1844[3020]: 395.—Deutschland [Germany or Poland]. ST A ZMHU? Described from females or both sexes. [6603023]
- cinerea.** Lesotho, South Africa [AF].
- Tephritis cinerea* Munro 1931[3462]: 123.—South Africa. Cape: Lady Grey. ST ♂ ♀ SANC. [6603492]
- cirsicola.** Poland to w. Russia [PA].
- Tephritis cirsicola* Hering 1938[2177]: 249.—Poland. Oder R., Crossen [Krosno Odrzanskie]; & Germany. near Magdeburg, Sulldorf. ST A BMNH. [6602325]
- collina.** China (Nei Mongol) [PA].
- Tephritis collinus* Wang 1990[4994]: 292.—China. Nei Mongol: Hulun Buir L., Ergun Right B. HT ♂ IZAS. [6605024]
- cometa.** Britain, Scandinavia & w. Siberia S to France [PA].
- Trypeta cometa* Loew 1840[3019]: 157.—Austria. Wiener [Vienna] region. ST A ZMHU. Described from females or both sexes. [6603001]
- Tephritis radiata*: Fallen 1820[1383]: 12.—misid. [6605663]
- cometa cingulata.** Mongolia, e. Russia, ne. China; Israel, Afghanistan? [PA].
- Tephritis cometa* ssp. *cingulata* Hering 1936[2168]: 189.—China. Heilongjiang: Charbin [Harbin]. HT ♀ BMNH. [6602252]
- Tephritis cometa* ssp. *israelis* Freidberg 1974[1549]: 58.—Israel. Upper Galilee, Tel Dan. HT ♂ TAUI. Status needs to be checked; may not be synonymous. [6601321]
- conflata.** Kirghizia [PA].
- Tephritis conflata* Dirlbek & Dirlbek 1995[1150]: 48.—Kirghizia, Tienshan, Kirgiss. Alatau, Alaartscha R., 1808-2000 m. HT ♀ Dirlbek. [6605989]
- consimilis.** China (Shanxi) [PA].
- Tephritis consimilis* Chen 1938[811]: 158.—China. s. Shanxi: Ta-ning. HT ♀ IZAS. [6600687]
- consuta.** China (Nei Mongol) [PA].
- Tephritis consutus* Wang 1990[4994]: 295.—China. Nei Mongol: Chifeng C., Bairin Right B. HT ♂ IZAS. [6605027]
- conura.** British Is. & Scandinavia S to n. Italy, Bulgaria, Kirghizia & Caucasus [PA].
- Trypeta conura* Loew 1844[3020]: 378.—Austria. Wien [Vienna]. ST A ZMHU? Described from females or both sexes. [6603011]
- Tephritis conura* ssp. *ziegenhageni* Hering 1940[2188]: 30.—Slovenia. Julian Alps, origin of the Wintgar-Klamm, 700 m. ST ♂ ♀ BMNH. [6602465]

- Tephritis conura* ssp. *hartigi* Hering 1940[2188]: 30.—Italy. “Acqua Steppani, Grp. di Brenta”, 2300 m. ST ♂ ♀ BMNH. [6602464]
- conyzifoliae*. Switzerland [PA].
Tephritis conyzifoliae Merz 1992[3341]: 230.—Switzerland. Valais: Oberwald, 1450 m. HT ♂ ETHZ. [6605231]
- corolla*. Mongolia [PA].
Tephritis corolla Richter 1975[4093]: 596.—Mongolia. Arhangay: 10 km. NNE of Egin Daba Pass, Kangay, 3000 m. HT ♀ ZISP. [6604035]
- crepidis*. Netherlands, cent. Europe & Ukraine S to Spain, n. Italy, Bulgaria, & Caucasus [PA].
Tephritis crepidis Hendel 1927[2108]: 186.—Austria. Schneeberg. LT ♂ NMW. Lectotype designated by Merz 1992: 233; Lectotype designated by Hardy 1968: 124 invalid, nontype. [6602164]
- Tephritis cornupuncta* Hendel 1927[2108]: 185.—Austria or Spain. LT ♂ BMNH. Lectotype designated by Merz 1992: 233; Lectotype designated by Hardy 1968: 124 invalid, nontype. [6602163]
- Tephritis leontodontis*: Frauenfeld 1863[1541]: 219.—misid. See Hendel 1927: 186. [6605664]
- crinita*. Afghanistan [PA].
Tephritis crinita Hering 1961[2232]: 328.—Afghanistan. Hazaradjad, Banda-e-mir, 2900 m. HT ♀ ZFMK. [6602749]
- daedala*. Nepal [OR].
Tephritis daedala Hardy 1964[1934]: 166.—Nepal. Taplejung Dist., N of Sangu, above river bank, c. 5000 ft. HT ♂ BMNH. [6601508]
- darjeelingensis*. India (W. Bengal) [OR].
Tephritis darjeelingensis Agarwal, Grewal et al. 1992[40]: 21.—India. W. Bengal: Darjeeling. HT ♂ INPC. [6605213]
- dentata*. China (Nei Mongol) [PA].
Tephritis dentatus Wang 1990[4994]: 293.—China. Nei Mongol: Ih Ju L., Uxin B. HT ♂ IZAS. [6605025]
- Tiphritis dentalytus* Wang 1990[4994]: 302.—incosp. *dentatus* Wang, by present revision. [6605242]
- dilacerata*. Scandinavia S to cent. Europe, Balkans & Ukraine, E to Kazakstan [PA].
Trypeta dilacerata Loew 1846[3021]: 509.—Germany. various regions; Poland. near Posen [Poznan]. ST ♂ ♀ ZMHU? [6603039]
- Tephritis confusa*: Rondani 1871[4208]: 14.—misid. [6605471]
- dioscurea*. Sweden & France to Kazakstan & Caucasus, e. Russia [PA].
Trypeta dioscurea Loew 1856[3029]: 53.—France. Corsica; & Hungary. ST ♂ ♀ ZMHU? [6603057]
- Tephritis dioscurea* var. *nigripes* Strobl 1910[4701]: 195.—Austria. Ennswiesen. ST ♂ ♀ NMBA? [6604503]
- Tephritis dioscurea* Rondani 1871[4208]: 11.—missp. *dioscurea* Loew. [6605665]
- distigmata*. Australia (WA) [AU].
Tephritis distigmata Hardy & Drew 1996[1972]: 356.—Australia. Western Australia: Porongurup Nat. Pk. HT ♂ ANIC. [6605942]
- divisa*. Spain, s. France, s. Switzerland, Italy, Greece (Crete), Israel [PA].
Tephritis conjuncta var. *divisa* Rondani 1871[4208]: 18.—Italy. LT ♀ MZLS. Lectotype designated by Merz 1992: 236. [6604146]
- dudichi*. Switzerland, Romania, Ukraine, n. Caucasus [PA].
Tephritis dudichi Aczel 1939[12]: 124.—Romania. Ferencfalva [near Resita, Valiug]. LT ♂ MNM. Lectotype designated by White & Mihalyi 1987: 243. [6600001]
- duguma*. Pakistan [OR].
Tephritis duguma Dirlbek 1975[1136]: 1.—Pakistan. Kashmir: Karakoram, Haramosh. HT ♂ MMB. [6600883]
- euarestelloides*. Mongolia [PA].
Tephritis euarestelloides Richter 1975[4093]: 598.—Mongolia. Bayan-Hongar: Toroin Bulak, 13 km. E of Tsagan Bulak. HT ♀ ZISP. [6604036]
- fallax*. Sweden & nw. Russia S to Alps Mts., Balkans & Ukraine [PA].
Trypeta fallax Loew 1844[3020]: 383.—Deutschland [Germany or Poland]. T A ZMHU. Described from female or both sexes. [6603015]
- Trypeta leontodontis* var. *nesii* Roser 1840[4216]: 60.—missp. *neesii* Meigen. Misident. [6604157]
- fascigera*. New Zealand [AU].
Tephritis fascigera Malloch 1931[3126]: 391.—New Zealand. Nelson. HT ♂ NZAC. [6603254]
- femoralis*. Mongolia, China (Nei Mongol, Gansu, Shanxi) [PA].
Tephritis femoralis Chen 1938[811]: 155.—China. Nei Mongol: Ordos, Tchoan-tsinn; Gansu: Ma-ho-shan; Shanxi: Mao-eull-ting. ST ♂ ♀ IZAS. [6600685]
- flaviventris*. Italy (Sicily) [PA].
Tephritis flaviventris Hering 1938[2180]: 403.—Italy. Sicily: Zappulla. HT ♀ BMNH. [6602302]
- flaviventris obscurata*. Italy (Sardinia) [PA].
Tephritis flaviventris ssp. *obscurata* Hering 1938[2180]: 404.—Italy. Sardinia: Aritzo, Cant. Sa. Casa, 950 m. HT ♀ BMNH. [6602304]
- formosa*. Europe, except Scandinavia, to Israel & Iran [PA].
Trypeta formosa Loew 1844[3020]: 388.—Deutschland [Germany or Poland]. T A ZMHU? Described from female or both sexes. [6603019]
- frauenfeldi*. Austria, Slovakia, Hungary, Romania, n. Italy, Albania, Turkey [PA].
Tephritis frauenfeldi Hendel 1927[2108]: 187.—Austria; Albania; & Romania. ST ♂ ♀ NMW. Lectotype designated by Hardy 1968: 124 invalid, nontype. [6602165]
- Trypeta leontodontis*: Frauenfeld 1857[1537]: 548.—misid. See Hendel 1927: 187. [6605666]
- furcata*. Australia (Qld.) [AU].
Tephritis furcata Hardy & Drew 1996[1972]: 358.—Australia. Queensland: 6.5 mi. SE of Mt. Nebo, c. 1500 m. HT ♂ ANIC. [6605943]
- glaciatrrix*. Tadzhikistan [PA].
Paroxyna glaciatrrix Enderlein 1934[1331]: 135.—Tadzhikistan. n. Pamir, glacial valley E of Kara-Kul, 4400 m. HT ♀ ZMHU. [6601202]
- goberti*. France [PA].
Tephritis goberti Seguy 1932[4340]: 10.—France. Landes. HT ♂ MNHNP. Type data (Seguy 1934, pl. XV). [6604220]
- heiseri*. Cent. Europe & w. Siberia to Caucasus, Kazakstan & Mongolia [PA].
Tephritis heiseri Frauenfeld 1865[1544]: 262.—Austria. Mahren. ST A NMW. Described from females or both sexes. [6601314]
- Trypeta hyoscyami*: Loew 1844[3020]: 392.—misid. See Hendel 1927: 188. [6605667]
- heliophila*. France, Germany, Austria, Switzerland [PA].
Tephritis heliophila Hendel 1927[2108]: 188.—Austria. Wachau; & Germany. Thuringia. ST ♀ ZSZMH. [6602166]
- hemimelaena*. Ghana [AF].
Trypanea hemimelaena Bezzi 1920[463]: 264.—Ghana. Aburi. HT ♂ BMNH. [6600357]
- hendeliana*. France, Germany & cent. Russia S to Spain, Italy, Ukraine, Caucasus & Mongolia [PA].
Tephritis hendeliana Hering 1944[2210]: 16.—France. Lot: Douelle. ST ♂ ♀ BMNH. [6602634]

- Tephritis heiseri*: Hendel 1927[2108]: 188.—misid. See Hering 1944: 16. [6605668]
- hengduana**. China (Sichuan) [PA].
Tephritis hengduana Wang 1990[4996]: 492.—China. Sichuan: Hengduan Mts., Ganzi (31.36°N 100°E), 3400 m. HT ♂ IZAS. [6605017]
- hesperia**. Australia (WA) [AU].
Tephritis hesperia Hardy & Drew 1996[1972]: 360.—Australia. Western Australia: Midlands, Cervantes. HT ♂ ANIC. [6605944]
- hospita**. Mongolia [PA].
Tephritis hospita Richter 1975[4093]: 599.—Mongolia. Govialtay: Khasagt-Khairkhan range, 15 km. S of Dzargalan. HT ♀ ZISP. [6604037]
- hungarica**. Hungary, Romania [PA].
Tephritis hungarica Hering 1937[2173]: 255.—Hungary. Sandsteppe near Deliblat. HT ♀ ZMHU. [6602276]
- hurvitzi**. Greece, Turkey, Cyprus, Israel, Iran, Uzbekistan [PA].
Tephritis hurvitzi Freidberg 1981[1554]: 28.—Israel. Mt. Hermon, 1600 m. HT ♂ TAUI. [6601335]
- hyoscyami**. Britain & Scandinavia S to France, Romania, Kirghizia & Caucasus, e. Russia, China [PA].
Musca hyoscyami Linnaeus 1758[2981]: 600.—not stated. ST ♂ LSL. Type data (White 1987: 103). [6602994]
Tephritis personatae Loew 1869[3041]: 9.—Germany. Saxony: “Altwater” in the vicinity of Carlsbrunn. ST A ZMHU. [6603148]
Musca leontodontis De Geer 1776[1087]: 46.—n. n. *hyoscyami* Linnaeus 1758. [6600878]
Musca cinerea Linnaeus 1764[2983]: 301.—*Nomen nudum*. Sweden. T A LSL? Published in non-binominal work. [6605432]
Tephritis hyosciami Rondani 1871[4208]: 13.—missp. *hyoscyami* Linnaeus. [6605472]
- impunctata**. Taiwan [OR].
Tephritis impunctata Shiraki 1933[4432]: 427.—Taiwan. Musha; Horisha; Niitaka Prefecture. ST ♂ ♀ NTU. [6604312]
- jabeliae**. Egypt (Sinai) [PA].
Tephritis jabeliae Freidberg 1981[1554]: 27.—Egypt. Sinai Mts., Mt. Katharina, 2500 m. HT ♂ TAUI. [6601333]
- joanae**. USA (California) [NE].
Tephritis joanae Goeden 1993[1728]: 428.—USA. California: San Diego Co., Lake Morena. HT ♀ USNM. [6605330]
- jocaste**. Russia (Primorskiy), ne. China [PA].
Tephritis jocaste Hering 1953[2221]: 11.—China. Manchuria, Chandaochezsy. HT ♂ BMNH. [6602703]
- kogardtauca**. China [PA].
Tephritis kogardtauca Hering 1944[2210]: 15.—China. Central Asia, “Togus Tjurae, Kogard Tau”. HT ♀ ZSZMH. [6602633]
- koreacola**. Korea [PA].
Tephritis koreacola Kwon 1985[2802]: 91.—South Korea. Kwangwon: Mt. Solaksan. HT ♂ KUTK. [6602921]
- kovalevi**. Kazakstan [PA].
Tephritis kovalevi Korneyev & Kameneva 1990[2750]: 138.—Kazakstan. Alma Ata Nature Reserve, near Mt. Talgar. HT ♂ UASK. [6604996]
- kukunoria**. Mongolia, China [PA].
Tephritis kukunoria Hendel 1927[2108]: 189.—China. Qinghai: Kuku-noor [Qinghai Hu] region. LT ♀ NMW. Lectotype designation by inference of holotype by Hardy 1968: 125. [6602167]
- labecula**. USA (Oregon E to Wyoming, S to California & Arizona) [NE].
Tephritis labecula Foote 1959[1482]: 13.—USA. Utah: Grand Co. HT ♀ CMP. [6601259]
- leavittensis**. USA (Oregon E to Montana & South Dakota, S to n. California & Utah) [NE].
Tephritis leavittensis Blanc 1979[520]: 173.—USA. California: Mono Co., Leavitt Lake. HT ♀ USNM. [6600565]
- ludhianaensis**. India (Punjab) [OR].
Tephritis ludhianaensis Agarwal & Kapoor 1988[45]: 121.—India. Punjab: Ludhiana, Punjab Agricultural University field. HT ♀ INPC. [6600071]
- luteipes**. Canary Is. [PA].
Tephritis luteipes Merz 1992[3340]: 227.—Canary Is. Tenerife, Ladera Guimar, 400 m. HT ♂ ETHZ. [6605214]
Tephritis praecox f. *luteipes* Frey 1936[1585]: 94.—*Nomen nudum*. Canary Is. Tenerife: Las Mercedes; Pico de Teyde; La Esperanza; & Gomera: San Sebastian. ST A NRS. [6605388]
- maccus**. s. France [PA].
Tephritis maccus Hering 1937[2173]: 256.—France. Pyrenees-Orientales: Vernety [Vernet]. HT ♀ ZMHU. [6602277]
- maccus virgulata**. Afghanistan [PA].
Tephritis maccus ssp. *virgulata* Hering 1961[2232]: 329.—Afghanistan. Badakhshan: Ischkaschim, 2500 m. HT ♂ ZIL. [6602750]
- majuscula**. Russia (Sakhalin, Kuril Is.), Japan (Hokkaido, Honshu, Kyushu) [PA].
Tephritis majuscula Hering & Ito 1953[2235]: 1.—Japan. Honshu: Kawati, Iwakakisan. HT ♂ UOPJ. [6602753]
- marginata**. New Zealand [AU].
Tephritis marginata Malloch 1931[3126]: 394.—New Zealand. Cass. HT ♂ NZAC. [6603257]
- mariannae**. Switzerland [PA].
Tephritis mariannae Merz 1992[3341]: 233.—Switzerland. Valais: Visppterterminen, 1400 m. HT ♀ ETHZ. [6605232]
- matricariae**. Netherlands, Austria & Balkans S to Mediterranean, Turkey, Egypt [PA].
Trypeta matricariae Loew 1844[3020]: 389.—Greece. Greek Is.; & Rhodus [Rhodes]; Turkey. Kleinasien [Asia Minor]. ST A ZMHU. Described from females or, probably, both sexes. [6603020]
- megalura**. Italy (Sardinia) [PA].
Tephritis megalura Hering 1938[2180]: 404.—Italy. Sardinia: Porto Santoru. ST ♂ ♀ BMNH. [6602379]
- michiganensis**. Canada & USA (n. Alberta & Manitoba to e. Ontario & Michigan) [NE].
Tephritis michiganensis Quisenberry 1951[3994]: 68.—Canada. Manitoba: Birch River. HT ♂ UKaL. [6604016]
- mixta**. India or Indonesia (Java)? [OR].
Trypeta mixta Walker 1853[4959]: 385.—East Indies. T A BMNH. ST apparently lost (Hardy 1959: 240). [6604590]
- monapunctata**. China (Nei Mongol) [PA].
Tephritis monapunctatum Wang 1990[4994]: 295.—China. Nei Mongol: Ih Ju L., Uxin B. HT ♀ IZAS. [6605028]
- mongolica**. Mongolia, China [PA].
Tephritis mongolica Hendel 1927[2108]: 191.—China. Qinghai: Kuku-noor [Qinghai Hu] region. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 125 (destroyed specimen). [6602168]
- mongolica occidentalis**. Kazakstan [PA].
Tephritis mongolica ssp. *occidentalis* Dirlbek & Dirlbek 1995[1150]: 47.—Kazakstan. Tienshan, Talass. Alatau, Akxy-Dshabagly, 1200 m. HT ♂ ??? [6605990]
- multiguttata**. Iran [PA].
Euribia multiguttata Becker 1913[378]: 645.—Iran. Baluchestan: Megas Oasis; & between Dus-abad & Gurmuk. ST ♂ ♀ ZISP. Also ST in ZMHU. [6600148]

- multiguttulata.** China (Fujian) [OR].
Tephritis multiguttulata Hering 1953[2221]: 14.—China. Fujian: Kuantun. HT ♂ ZFMK. [6602708]
Tephritis heringi Korneyev 1996[2749]: 123.—n. n. *multiguttulata* Hering. [6605985]
Tephritis multiguttata Korneyev 1996[2749]: 123.—missp. *multiguttulata* Hering. [6605986]
- mutabilis.** France, Germany, Austria, Switzerland, Italy [PA].
Tephritis mutabilis Merz 1992[3341]: 237.—Switzerland. Graubunden: Rothenbrunnen, 650 m. HT ♀ ETHZ. [6605234]
- nartshukovi.** Russia (Tatarstan) [PA].
Tephritis nartshukovi Bassov & Tolstoguzova 1994[341]: 89.—Russia. Tatarstan: Buinsk region, 3 km. S of Buinsk. HT ♂ ZISP. [6605495]
- nebulosa.** China (e. Xizang) [PA].
Urellia nebulosa Becker 1908[373]: 286.—China. e. Xizang: “Schlucht Chatu”, N of “Burchan-Budda-Kette”. HT ♂ ZISP? [6600118]
- neesii.** British Is. to Finland, S to s. France, Italy & Bulgaria [PA].
Trypeta neesii Meigen 1830[3307]: 382.—Germany. Stolberg; & unstated locality. ST A NMW. Published in synonymy, validated by Roser 1840: 60 & Hendel 1927: 191; possibly also ST in MNHNP. [6603453]
Trypeta conjuncta Loew 1844[3020]: 407.—Germany. Siegen region; & unstated locality. ST ♂ ZMHU? [6603029]
Trypeta nusii Loew 1844[3020]: 408.—missp. *neesii* Meigen. [6605811]
- nigricauda.** cent. & s. Europe E to Ural Mts., e. Russia [PA].
Trypeta nigricauda Loew 1856[3029]: 53.—Austria. ST ♂ ♀ ZMHU? [6603058]
Tephritis matutina Rondani 1871[4208]: 22.—Italy. colle sub-apennino [foothills of Apennine Mts.]; & Sicily. ST ♂ ♀ MZLS? [6604148]
Trypeta matricariae: Frauenfeld 1861[1538]: 167.—misid. See Hendel 1927: 192. [6605669]
- obscuricornis.** Italy [PA].
Tephritis obscuricornis Rondani 1871[4208]: 21.—Italy. Sicily. HT ♀ MZLS? [6604147]
- oedipus.** Kazakstan, Central Asia, Mongolia, China (Xizang) [PA].
Tephritis oedipus Hendel 1927[2108]: 192.—n. n. *cribrata* Becker 1908. [6602169]
Urellia cribrata Becker 1908[373]: 287.—China. ne. Xizang: NE Zaidam, Bomyn-Itshegyn R. ST ♂ ♀ ZISP. Preocc. Bigot 1892; also ST in ZMHU. [6600120]
- okera.** e. Russia, ne. China, Japan (Hokkaido, Honshu) [PA].
Platensia okera Shinji 1940[4425]: 2.—Japan. Honshu: Iwate Pref., Morioka City. T A Shinji. [6604255]
Tephritis ismene Hering 1953[2221]: 14.—China. Manchuria, Tigrowa Padj. HT ♂ BMNH. [6602707]
Tephritis separata: Ito 1994[2420]: 248.—misid. See Korneyev 1996: 123. [6605988]
- oligostictica.** Syria, Afghanistan [PA].
Tephritis oligostictica Dirlbek & Dirlbek 1971[1146]: 6.—Afghanistan. Hindu Kush, Ishmurkh Darrah Valley. HT ♂ NMPC. [6600891]
- ovatipennis.** Canada (British Columbia), USA (California, Minnesota) [NE].
Tephritis ovatipennis Foote 1960[1488]: 81.—USA. California: Halfmoon Bay. HT ♀ USNM. [6601265]
- pallescens.** Afghanistan [PA].
Tephritis pallescens Hering 1961[2232]: 326.—Afghanistan. Hindukush, Do-Schak [Do-Shakh], Khinjan Val., 2500 m. HT ♂ ZFMK. [6602748]
- palmeri.** USA & Mexico (Utah to Texas, S to Durango & Chihuahua) [NE].
Tephritis palmeri Jenkins 1989[2474]: 681.—USA. Texas: Val Verde Co., Langtry. HT ♀ USNM. [6602835]
Tephritis palmerii Jenkins 1985[2473]: 45.—*Nomen nudum*. [6605532]
- pantosticta.** Australia (Qld., NSW, ACT, Vic.) [AU].
Tephritis pantosticta Hardy & Drew 1996[1972]: 362.—Australia. Australian Capital Territory: Black Mt. Reserve. HT ♂ ANIC. [6605945]
- pelia.** Australia (WA, NT, SA, Qld., NSW, Vic., Tas.) [AU].
Tephritis pelia Schiner 1868[4296]: 271.—Australia. New South Wales: Sydney. HT ♀ NMW. Type data (Hardy 1968: 138). [6604191]
- pentagonella.** Fiji [AU].
Euribia pentagonella Bezzi 1928[478]: 117.—Fiji. Kaviti; & Natova. ST ♂ ♀ BMNH. [6600541]
- phaeostigma.** Australia (SA, Vic.) [AU].
Tephritis phaeostigma Hardy & Drew 1996[1972]: 367.—Australia. Victoria: 9.6 km. S Hattah. HT ♂ ANIC. [6605946]
- plebeia.** New Zealand [AU].
Tephritis plebeia Malloch 1931[3126]: 393.—New Zealand. Cass. HT ♂ NZAC. [6603256]
- poenia.** widespread New Guinea, Australia (WA, NT, SA, Qld., NSW, Vic., Tas.) [AU].
Trypeta poenia Walker 1849[4957]: 1025.—New Holland [Australia]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 218. [6604564]
Acinia leontodontis: Macquart 1848[3081]: 225.—misid. See Hardy & Drew 1996: 367. [6605744]
Tephritis pelia: Malloch 1939[3137]: 461.—misid. See Hardy & Drew 1996: 367. [6605670]
- posis.** s. Europe, Ukraine, sw. Russia [PA].
Tephritis posis Hering 1939[2182]: 186.—Spain. Teruel: Albarracin. ST ♂ ♀ BMNH. [6602419]
- postica.** France, cent. Europe, Ukraine & Uzbekistan, S to North Africa, Israel & Iran [PA].
Trypeta postica Loew 1844[3020]: 393.—n. n. *heraclei* Fabricius 1794. [6603022]
Musca heraclei Fabricius 1794[1377]: 354.—Germany. Kiel. ST A UZMC. Preocc. Linnaeus 1758. [6605442]
- praecox.** coastal w. & s. Europe, Canary Is., North Africa, Israel, Afghanistan [PA].
Trypeta praecox Loew 1844[3020]: 391.—Greece. Rhodes. LT ♀ ZMHU. Lectotype designated by Merz 1992:221. [6603021]
Tephritis poecilura Loew 1869[3041]: 21.—Spain. T ♀ ZMHU. [6603141]
Tephritis cincta: Costa 1884[975]: 46.—misid. See Hendel 1927: 193. [6605671]
- prolixa.** Australia (WA, NT, SA) [AU].
Tephritis prolixa Hardy & Drew 1996[1972]: 371.—Australia. Western Australia: 25 km. ESE of Cocklebidy. HT ♂ ANIC. [6605947]
- protrusa.** Australia (Qld., NSW) [AU].
Tephritis protrusa Hardy & Drew 1996[1972]: 373.—Australia. Queensland: Mt. Spec, Star Valley Lookout. HT ♂ ANIC. [6605948]
- ptarmicae.** Germany, Poland; Czech Rep.? [PA].
Tephritis ptarmicae Hering 1935[2160]: 171.—Poland. Oder R., Crossen [Krosno Odrzanskie]. ST ♂ ♀ BMNH. [6602221]
- pterostigma.** China (Shanxi, Hebei) [PA].
Tephritis pterostigma Chen 1938[811]: 156.—China. n. Hebei: Nankeou; & Paita; s. Shanxi: Kiao-cheu. ST ♂ ♀ IZAS. [6600686]

- pulchra**. cent. & s. Europe to Turkey, North Africa [PA].
Trypeta pulchra Loew 1844[3020]: 406.—Austria. Wien [Vienna]; & Turkey. Smyrna [Izmir]. ST ♂ ♀ ZMHU. [6603028]
Tephritis pulchra f. *pulchrina* Hering 1944[2210]: 15.—Austria. Gumpoldskirchen. ST ♂ ♀ BMNH. [6602632]
- pumila**. Australia (WA, Qld., NSW, ACT, SA) [AU].
Tephritis pumila Hardy & Drew 1996[1972]: 376.—Australia. Australian Capital Territory. HT ♂ ANIC. [6605949]
- puncta**. Mongolia, China (Xinjiang) [PA].
Urellia punctum Becker 1908[373]: 285.—China. Xinjiang: Turkestan, Gaschun-Gobi, btw. Schigusa & Bugas R. S of Hami; R. Danche, S of Satschou. ST ♀ ZISP? [6600116]
- pura**. Canada & USA (Alaska, Northwest Terr. & Nova Scotia, S to Washington, Colorado & South Carolina) [NE].
Trypeta pura Loew 1873[3042]: 320.—USA. Massachusetts. HT ♀ MCZ. [6603182]
Trypeta tribulis Harris 1835[2019]: 600.—*Nomen nudum*. T A MCZ. Attributed to Say; see Johnson 1925:97. [6605394]
Trypeta tribulis Foote, Blanc & Norrbom 1993[1523]: 406.—missp. *tribulis* Harris. [6605511]
- quasiprolixa**. Australia (SA, NSW) [AU].
Tephritis quasiprolixa Hardy & Drew 1996[1972]: 378.—Australia. South Australia: Flinders Ra., Wilpena Pound. HT ♂ ANIC. [6605950]
- rasa**. France [PA].
Tephritis rasa Seguy 1934[4346]: 163.—France. Hyeres. T ♂ MNHNP. Attributed to Pandelle. [6604232]
- recurrens**. s. Europe to Kazakstan & Caucasus, e. Russia, ne. China [PA].
Tephritis recurrens Loew 1869[3041]: 22.—Greece. ST ♀ ZMHU. [6603144]
- rufina**. Italy [PA].
Tephritis rufina Rondani 1871[4208]: 17.—Italy. Piemonte. HT ♀ MZLS? [6604143]
- rufipennis**. USA (California) [NE].
Tephritis rufipennis Doane 1899[1189]: 190.—USA. California: Santa Cruz Mts. LT ♂ WSU. Lectotype designated by Foote 1966: 124; type data (Zack 1984: 33). [6600931]
- ruralis**. Throughout Europe E to Ural Mts. [PA].
Trypeta ruralis Loew 1844[3020]: 386.—Poland. Posen [Posnan]; Schlesien [Silesia]; & Deutschland [Germany]. ST A ZMHU? Described from females or both sexes. [6603017]
- rydeni**. Sweden, n. & cent. Russia [PA].
Tephritis rydeni Hering 1956[2225]: 1.—Sweden. Angermanland, Vibyggera. HT ♂ Ryden. [6602736]
Tephritis rydeni Hering 1956[2225]: 1.—incosp. *rydeni* Hering. Automatic correction under Art. 32(d). [6605807]
- santolinae**. Spain, Italy (Sardinia) [PA].
Tephritis santolinae Hering 1934[2156]: 251.—Italy. Sardinia: Aritzo. HT ♂ BMNH. [6602213]
- sauterina**. Switzerland [PA].
Tephritis sauterina Merz 1994[3344]: 171.—n. n. *sauteri* Merz 1992. [6605345]
Tephritis sauteri Merz 1992[3341]: 235.—Switzerland. Graubunden: Juf, 2400 m. HT ♀ ETHZ. Preocc. Enderlein 1911. [6605233]
- schelkownikovi**. Armenia [PA].
Tephritis schelkownikovi Zaitzev 1945[5277]: 382.—Armenia. Negri district, village Lishkvaz. ST ♂ ♀ IZTG? [6604821]
- scitula**. Mexico (Sonora) [NE].
Euaeresta scitula Wulp 1900[5219]: 425.—Mexico. northern Sonora. HT ♀ BMNH. Type data (Foote 1965: 246). **N. Comb.** [6604813]
- scorzoneræ**. Italy [PA].
Tephritis scorzonerae Merz 1993[3342]: 119.—Italy. Puglia, S. Giovanni, 700 m. HT ♀ TAU. [6605245]
- separata**. Britain, cent. & s. Europe E to Russia (w. Siberia), Kazakstan & Israel [PA].
Tephritis conjuncta var. *separata* Rondani 1871[4208]: 18.—Italy. LT ♀ MZLS. Lectotype designated by Merz 1992: 236. [6604144]
Tephritis sejuncta Rondani 1871[4208]: 18.—Italy. Piemonte; Etruria; foothills of Apennine Mts. nr. Parna; & provinciiis australioribus [s. Italy]. ST ♂ ♀ MZLS. [6604145]
Tephritis decipiens Rondani 1871[4208]: 16.—Italy. Etruria; & Apennine Mts. near Parma. ST ♂ ♀ MZLS. [6604142]
Tephritis conjuncta: Hendel 1927[2108]: 185.—misid. See White 1986: 156, but name not available. [6602162]
- shansiana**. China (Shanxi) [PA].
Tephritis shansiana Chen 1940[813]: 529.—n. n. *affinis* Chen. [6600705]
Tephritis affinis Chen 1938[811]: 154.—China. Shanxi: Kiao-cheu. HT ♂ IZAS. Preocc. Snow 1894. [6600684]
- signatipennis**. USA (Washington E to Wyoming, S to California & w. Texas) [NE].
Tephritis signatipennis Foote 1960[1488]: 77.—USA. California: Tolumne Co., Dardanelles. HT ♀ USNM. [6601264]
- simplex**. s. Europe, Algeria, Tunisia, Crete, Turkey, Israel [PA].
Trypeta simplex Loew 1844[3020]: 379.—Turkey. Smyrna [Izmir]. ST A ZMHU? Described from females or both sexes. [6603012]
Tephritis fratella Becker 1907[372]: 385.—Tunisia. Tunis. ST ♂ ♀ ZMHU. [6600126]
- sinensis**. China (Nei Mongol, Shanxi) [PA].
Tephritis sinensis Chen 1940[813]: 529.—n. n. *ramulosa* Chen. [6600704]
Tephritis ramulosa Chen 1938[811]: 159.—China. Nei Mongol: Ordos, Ning-tiao-leang & Tchoan-tsinn; Shanxi: Tai-yuan-fu. ST ♂ IZAS. Preocc. Loew 1844. [6600688]
- sinica**. China (Nei Mongol) [PA].
Acrorellia sinica Wang 1990[4994]: 300.—China. Nei Mongol: Ertenhot C., Xilin Gol L. HT ♂ IZAS. [6605158]
- sonchina**. e. Russia, ne. China [PA].
Tephritis sonchina Hering 1937[2170]: 112.—China. Manchuria, environs of Chulan. ST ♂ ♀ DEI. Type data (Korneyev 1996: 121). [6602259]
Tephritis mandschurica Hering 1953[2221]: 12.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602705]
- spretæ**. Egypt [PA].
Trypeta spretæ Loew 1861[3031]: 297.—Egypt. ST ♀ NMW? [6603082]
- stictica**. s. Europe [PA].
Tephritis stictica Loew 1862[3038]: 109.—Spain; & s. France. ST ♂ ♀ ZMHU? [6603115]
Tephritis diotidis Rondani 1871[4207]: 12.—n. n. *stictica* Loew 1862. Attributed to Dufour. [6601124]
Tephritis diotidis Hendel 1927[2108]: 195.—missp. *diotidis* Rondani. [6605672]
- stigmatica**. USA (Washington to Montana, S to California & w. Texas) [NE].
Urellia stigmatica Coquillett 1899[953]: 266.—USA. Colorado. ST ♂ ♀ USNM. [6600784]
Trypanea stigmatica Sweet 1930[4733]: 123.—missp. *stigmatica* Coquillett. [6605613]

subpura. USA (coastal plain, New York S to Florida, W to Texas) [NE].
Euaesta subpura Johnson 1909[2509]: 114.—USA. New Jersey: Wildwood. LT ♀ MCZ. Lectotype designated by Jenkins & Turner 1989: 683. [6602839]

subradiata. Mexico (Guerrero) [NE].
Tephritis subradiata Wulp 1900[5219]: 420.—Mexico. Guerrero: Chilpancingo, 4600 ft. HT ♂ BMNH. Type data (Foote 1965: 244). [6604806]

tanacetii. s. France, Germany, Switzerland; Austria, Hungary? [PA].
Tephritis dioscurea ssp. *tanacetii* Hering 1956[2225]: 4.—Germany. between Biehain & Horka (Lausitz). HT ♂ BMNH. [6602737]

tasmaniae. Australia (Tas.) [AU].
Tephritis tasmaniae Hardy & Drew 1996[1972]: 380.—Australia. Tasmania: Iris R., 7 m from Cradle Mt., alpine meadow. HT ♂ QMBA. [6605951]

tatarica. Kirgizia, Uzbekistan [PA].
Tephritis tatarica Portschnsky 1892[3876]: 218.—Uzbekistan. Tashkent. ST ♂ ♀ ZISP. [6604004]

theryi. Morocco [PA].
Tephritis theryi Seguy 1930[4339]: 176.—Morocco. Marrakech; & Asni. ST ♀ MNHNP. [6604219]

thoracica. New Zealand [AU].
Tephritis thoracica Malloch 1931[3126]: 392.—New Zealand. Queenstown. HT ♂ NZAC. [6603255]

triangula. Japan (Honshu, Shikoku) [PA].
Tephritis triangula Ito 1952[2405]: 12.—Japan. Shikoku: Awa, Turugiyama. HT ♀ UOPJ. [6602771]

truncata. cent. & s. Europe to sw. Russia & Caucasus; Tunisia [PA].
Trypeta truncata Loew 1844[3020]: 379.—Austria. Wien [Vienna] region. ST A ZMHU. Described from females or both sexes. [6603013]

trupanea. Australia (WA, Qld., NSW, SA) [AU].
Tephritis trupanea Hardy & Drew 1996[1972]: 381.—Australia. South Australia: Robe District, Long Gully. HT ♂ AMS. [6605952]

trypaneina. China [PA].
Tephritis trypaneina Hering 1953[2221]: 13.—China. Manchuria, Chandaochezsy. HT ♀ BMNH. [6602706]

umbrosa. Afghanistan [PA].
Tephritis umbrosa Dirlbek & Dirlbek 1968[1144]: 178.—Afghanistan. Nengrahar: Darunta, 580 m. HT ♀ MMB. [6600889]

valida. Hungary to Turkey & Caucasus [PA].
Trypeta valida Loew 1858[3030]: 13.—Hungary. ST ♂ ♀ ZMHU. [6603060]
Tephritis procera Loew 1869[3041]: 21.—Russia. T ♀ ZMHU? [6603142]
Tephritis subvalida Portschnsky 1875[3875]: 36.—Russia. Caucasus. T ♀ ZISP? [6604000]

variata. Mongolia, China [PA].
Urellia variata Becker 1908[373]: 286.—China. Turkestan Gaschun-Gobi, Danche R. S of Satschou. HT ♀ ZISP? [6600117]

vespertina. n. Europe, except Sweden & Finland, S to North Africa [PA].
Trypeta vespertina Loew 1844[3020]: 387.—not stated [probably Poland. Posnan or Silesia]. T A ZMHU? Described from female or both sexes. [6603018]
Tephritis apicalis Becker 1907[372]: 387.—Algeria. Biskra; Tunisia. Zaghuan. ST ♂ ♀ ZMHU. [6600127]
Tephritis vespertina f. *dajtica* Dirlbek & Dirlbek 1966[1175]: 533.—*Nomen nudum*. Albania. S Vlora, Borshi; below Krraba, Iba; Dajti, Shkall Prisk; Djiti; Mali Me Grope; near Shengjergji,

Bize; Lurja w. Kurbnesi, Lan Lura. ST ♂ ♀ DEI. Form or variety proposed after 1960. [6600886]

webbii. Canada & USA (Northwest Terr. E to Prince Edward I., S to California, New Mexico, Minnesota & New Hampshire) [NE].
Tephritis webbii Doane 1899[1189]: 189.—USA. Idaho: Collins. LT ♀ WSU. Lectotype designated by Foote 1966: 126; type data (Zack 1984: 33). [6600929]

wulpi. Mexico (Distrito Federal) [NE].
Tephritis wulpi Norrbom 1997[This publication].—n. n. *angustipennis* Wulp 1900. **N. Name** [6605385]
Euaesta angustipennis Wulp 1900[5219]: 425.—Mexico. Distrito Federal: Mexico City. LT ♀ BMNH. Preocc. Loew 1844; Lectotype designated by Foote 1965: 246. [6604814]

zernyi. Spain, Switzerland, Italy, Hungary [PA].
Tephritis zernyi Hendel 1927[2108]: 197.—Spain. Teruel: Albarracin. LT ♂ NMW. Lectotype designated by Hardy 1968: 125. [6602136]

Genus *TEPHRITITES*

Tephritites Freidberg 1979[1551]: 172, *Terellia australis* Bezzi (OD). [6600666]

australis. Namibia, South Africa [AF].
Terellia planiscutellata var. *australis* Bezzi 1924[470]: 508.—South Africa. Transvaal: Barberton; & Pretoria. ST ♀ SANC. Possibly also ST in MCSNM. [6600401]

Genus *TEPHRITOMYIA*

Tephritomyia Hendel 1927[2108]: 202, *Oxyina lauta* Loew (OD). Proposed as a subgenus. [6600329]

REFS—Hendel 1927[2108]: 202 (key to 2 spp. (obsolete) [PA]); Munro 1957[1560]: 1026 (review of 5 spp. [PA, AF]).

caliginosa. Cameroon [AF].
Acanthiophilus caliginosus Hering 1942[2207]: 13.—Cameroon. Uam region, near Bosum. HT ♀ ZMHU. [6602601]

despoliata. Iran [PA].
Acanthiophilus despoliata Hering 1956[2227]: 88.—Iran. Khorasan: Birdjand [Birjand]. HT ♂ SMN. [6602734]
Euribia veliformis: Becker 1913[378]: 645.—misid. See Hering 1956: 88. [6605673]

grisea. Ethiopia, Kenya [AF].
Acanthiophilus griseus Munro 1934[3467]: 4.—Ethiopia. Addis Abbaba. HT ♀ AMNH. [6603521]

lauta. Greece, Israel, Iran, Tunisia, Egypt [PA].
Oxyina lauta Loew 1869[3041]: 18.—Greece. Aegean Is.: Naxos; & Rhodes. ST ♂ ♀ ZMHU. [6603138]
Tephritis veliformis Becker 1907[372]: 388.—Tunisia. Tunis. ST ♂ ♀ ZMHU. [6600128]
Tephritomyia velifera Foote 1984[1517]: 135.—missp. *veliformis* Becker. Attributed to “authors”. [6605780]

sericea. Sudan [AF].
Tephritomyia sericea Munro 1957[3510]: 1030.—Sudan. w. Darfur: N Jebel Murra, Deriba Lakes, 8000 ft. HT ♂ BMNH. [6603742]

xiphias. Ethiopia, Cameroon, Uganda, Kenya [AF].
Euribia xiphias Bezzi 1924[472]: 137.—Ethiopia. Tshertsher. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 154. [6600489]

Genus *TEPHRITORESTA*

Tephritoresta Hering 1942[2207]: 9, *debilis* Hering (OD). [6600196]

debilis. Togo [AF].

Tephritoresta debilis Hering 1942[2207]: 10.—Togo. Bismarckburg. HT ♂ ZMHU. [6602600]

Genus TERASTIOMYIA

Terastiomyia Bigot 1859[497]: 310, *lobifera* Bigot (MO). [6600566]

Neosphira Hendel 1914[2104]: 138, *Sophira distorta* Walker (OD). [6600567]

Terastomyia Loew 1873[3042]: 27, missp. *Terastiomyia* Bigot. [6600978]

REFS.—Hardy 1958[1930]: 77 ((*Neosphira*) key to 3 spp. [OR: Indonesia]); Hardy 1986[1961]: 73 (key to 3 spp. [OR, AU]).

clavigera. Indonesia (e. Maluku) [OR].

Neosphira clavigera Hardy 1958[1930]: 79.—Indonesia. Maluku: Sula I. HT ♀ BMNH. [6601502]

distorta. Indonesia (Sulawesi) [OR].

Sophira distorta Walker 1858[4963]: 230.—Indonesia. Celebes [Sulawesi]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1958: 81, but sex of LT misstated (see Hardy 1959: 201). [6604612]

Enicoptera pictipennis Walker 1860[4966]: 155.—Indonesia. Sulawesi: near Makassar [Ujung Padang]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 186. [6604624]

lobifera. Indonesia (Sulawesi, Maluku) [OR, AU].

Terastiomyia lobifera Bigot 1859[497]: 311.—Indonesia. Celebes [Sulawesi]. T ♂ UMO. ST possibly lost (Hardy 1986: 76). [6600549]

Enicoptera arcuosa Walker 1860[4966]: 156.—Indonesia. Sulawesi: near Makassar [Ujung Padang]. T ♂ BMNH. 3 ST males in BMNH (Hardy 1958: 79, 1959: 185). [6604626]

Neosphira ferruginea Hendel 1914[2104]: 138.—Indonesia. Maluku: Amboina [Ambon I.]. HT ♀ NMW. [6601952]

Henicoptera arenosa Hering 1938[2180]: 412.—missp. *arcuosa* Walker. [6602314]

Genus TERELLIA

REFS.—Korneyev 1985[2717]: 629 (key to 11 species groups [PA]).

Subgenus CERAJOCERA

Cerajocera Rondani 1856[4195]: 111, *Musca cornuta* Fabricius (OD) = *ceratocera* Hendel. [6600225]

Trichoterellia Hendel 1927[2107]: 127, *Terellia setifera* Hendel (OD). Proposed as a subgenus. [6600331]

Ceriocera Rondani 1870[4205]: 7, emend. *Cerajocera* Rondani. [6600226]

REFS.—Richter 1970[4087]: 150 (key to 2 spp. [PA: e. Europe]); Korneyev 1987[2727]: 238 (key to 11 spp. [PA]); White 1988[5103]: 41 (key to 3 spp. [PA: Britain]); Merz 1994[3343]: 86 (key to 5 spp. [PA: cent. Europe]).

armeniaca. Armenia [PA].

Cerajocera armeniaca Korneyev 1985[2717]: 640.—Armenia. Khosrov Reserve, Vedi. HT ♂ ZISP. [6602884]

ceratocera. Britain & Scandinavia E to w. Siberia, S to cent. Europe, Balkans, Turkey & Kazakstan [PA].

Musca ceratocera Hendel 1913[2100]: 82.—n. n. *cornuta* Fabricius 1794. [6601916]

Musca cornuta Fabricius 1794[1377]: 357.—not stated [Sweden?]. NT ♂ ZIL. Preocc. Scopoli 1772; Neotype designated by Persson 1958: 108; type data (Hering 1935:210). [6601217]

clarissima. Ukraine [PA].

Terellia clarissima Korneyev 1987[2727]: 241.—Ukraine. Kherson Reg.: 50 km. WSW of Kherson, Black Sea. HT ♂ UASK. [6602888]

cynarae. Italy [PA].

Tripeta cynarae Rondani 1870[4206]: 115.—Italy. colle ditionis parmensis [hills around Parma]. HT ♂ MZLS? [6604134]

Tripeta cinarae Rondani 1870[4206]: 108.—incosp. *cynarae* Rondani, by present revision. [6604130]

euura. Ukraine to Central Asia [PA].

Orellia euura Hering 1942[2207]: 3.—Russia. near Sarepta, Had. HT ♀ ZMHU. [6602619]

gynaecochroma. cent. & s. Europe, E to Caucasus, S to Cyprus, Israel & Iran [PA].

Orellia lappae f. *gynaecochroma* Hering 1937[2176]: 126.—Moldova. Tighina [Bendery]. ST ♂ BMNH. [6602253]

Trypeta lappae: Loew 1862[3038]: 56.—misid.

maculicauda. China (Hebei) [PA].

Orellia maculicauda Chen 1938[811]: 77.—China. Hebei: Tie-ling-sseu. HT ♀ IZAS. [6600692]

nigronota. w. Russia, Georgia, Armenia [PA].

Cerajocera nigronota Korneyev 1985[2717]: 640.—Georgia. Gruzia, Omalo. HT ♂ ZISP. [6602885]

occidentalis. Canada & USA (s. British Columbia E to North Dakota, S to s. California & Texas) [NE].

Trypeta occidentalis Snow 1894[4527]: 163.—USA. Colorado: Manitou Park. LT ♀ UKaL. Lectotype designated by McFadden & Foote 1961: 259. [6604367]

Trypeta straminea Doane 1899[1189]: 179.—USA. Washington: Pullman. LT ♂ WSU. Lectotype designated by Foote 1962: 177; type data (Zack 1984: 33). [6600916]

palposa. Canada & USA (Idaho, w. Ontario & Newfoundland, S to Arizona, s. Texas & Georgia) [NE].

Trypeta palposa Loew 1862[3033]: 74.—USA. n. Wisconsin. HT ♂ MCZ. Type data (Loew 1873: 253). [6603092]

plagiata. Britain, Norway, Sweden, n. Russia, Germany, Switzerland, Hungary, Ukraine [PA].

Tephritis plagiata Dahlbom 1850[1060]: 162.—Sweden. Gottland: Alskog. HT ♀ ZIL. Lectotype designated by Persson 1958: 108 invalid, that female is the HT. [6600875]

Ceriocera ceratocera ssp. *microceras* Hering 1936[2165]: 211.—Poland. Crossen, Oder R. [Krosno Odrzanskie], “Schaeferberg”. ST ♂ ♀ BMNH. [6602215]

rhapontici. Switzerland [PA].

Terellia rhapontici Merz 1990[3336]: 189.—Switzerland. Graubunden: Samedan, 1950 m. HT ♂ ETHZ. [6604998]

setifera. Austria, Hungary, Ukraine [PA].

Terellia setifera Hendel 1927[2108]: 129.—Austria. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 125. [6602151]

tussilaginis. Britain & Scandinavia E to Urals, S to France, n. Italy, Bulgaria & Caucasus [PA].

Musca tussilaginis Fabricius 1775[1374]: 787.—Daniae [Denmark]. T A UZMC. Type data (Zimsen 1964: 485). [6601205]

- Musca lappae* Cederhielm 1798[787]: 319.—Russia. Ingridiae, agri petropolensis [St. Petersburg area]. T A Unknown. **N. Syn.** [6600655]
Trupanea acanthi Schrank 1803[4315]: 142.—Germany. Bavaria. ST ♂ ♀ Unknown. Specimens of Guettard 1762: 171 also are ST. [6604206]
Trupanea tanacetii Schrank 1803[4315]: 143.—Germany. Bavaria. T ♀ Unknown. [6604207]
Tephritis impunctata Robineau-Desvoidy 1830[4148]: 767.—France. Loire: Saint-Sauveur. HT A MNHNP (destroyed). Synonymy uncertain. [6604074]

Subgenus *TERELLIA*

- Terellia* Robineau-Desvoidy 1830[4148]: 758, *palpata* Robineau-Desvoidy, Cogan & Munro 1980[882]: 552 (SD) = *serratulae* Linnaeus. Designations of *Tephritis pallens* Wiedemann by Desmarest 1849:472, *Musca serratulae* Linnaeus by Rondani 1856:114 invalid, not originally included species. [6600330]
Squamensina Hering 1938[2180]: 405, *oasis* Hering (OD). [6600290]
Galada Hering 1961[2232]: 324, *vilis* Hering (OD). [6600246]
Whitterellia Bassov & Nartshuk 1996[339]: 220, *Trypeta virens* Loew (OD). Proposed as a subgenus. **N. Syn.** [6601019]
- REFS.—Hendel 1927[2108]: 127 (key to 5 spp. [PA]); White 1988[5103]: 43 (key to 6 spp. [PA: Britain]); White 1989[5106]: 54 (key to 3 spp. of *virens* group [PA]); White, Groppe & Sobhian 1990[5113]: 110 (key to 2 spp. of *colon* group [PA]); Merz 1994[3343]: 86 (key to 7 spp. [PA: cent. Europe]);.
- amberboae.** Uzbekistan, se. Kazakstan [PA].
Terellia amberboae Korneyev & Merz 1996[2753]: 57.—Uzbekistan. Yaz'yavan region, Fergana Valley, 470 m. HT ♂ ETHZ. [6605987]
apicalis. China (Shaanxi) [PA].
Orellia apicalis Chen 1938[811]: 78.—China. Shaanxi: Wei-tze-ping; & Koan-yinn-miao. ST A IZAS. [6600693]
blanda. Mongolia [PA].
Orellia blanda Richter 1975[4093]: 592.—Mongolia. Dornod: Kerulen R., 40 km. above Choibalsan. HT ♀ ZISP. [6604034]
caerulea. China (Heilongjiang) [PA].
Orellia caerulea Hering 1939[2182]: 178.—China. Heilongjiang: Charbin [Harbin], Maoershan. ST ♂ ♀ BMNH. [6602410]
colon. Britain, Sweden & w. Siberia S to North Africa, Israel & Kazakstan [PA].
Trypeta colon Meigen 1826[3306]: 346.—Unknown [Europe]. T ♀ MNHNP. Type data (White, Groppe & Sobhian 1990: 109). [6603449]
Trypeta wenigeri Meigen 1826[3306]: 345.—Germany. Muhlheim am Rhein region; & unstated European locality. ST ♂ ♀ MNHNP. [6603448]
Sciomyza picta Meigen 1830[3307]: 18.—Not stated [probably Germany. Stolberg]. T ♂ MNHNP. Type data (White, Groppe & Sobhian 1990: 109). [6603451]
Tephritis obscura Brulle 1832[639]: 323.—Algeria. forest of Koubeh. T A MNHNP? [6600633]
Tephritis alciphron Newman 1833[3596]: 505.—England. Isle of Wight, Coomba, Birch, & Darent Woods. ST ♀ Unknown. [6603916]
Terellia abrotani Macquart 1835[3073]: 460.—France. Paris. T ♀ MNHNP. MHNLI ST (Macquart 1850: 544) apparently lost. [6603193]
Terellia nebulosa Macquart 1835[3073]: 460.—n. France. T ♀ MNHNP? [6603192]

- Trypeta nigricoma* Loew 1844[3020]: 422.—Poland. Schlesien [Silesia]; & Turkey. Kleinasien [Asia Minor]. ST ♂ ♀ ZMHU? [6603033]
Trypeta dispar Zetterstedt 1847[5301]: 2259.—Sweden. Gotland: Nygards; & Fardume. ST ♂ ♀ ZIL. Type data (Persson 1958: 117). [6604827]
Trypeta varia Loew 1869[3041]: 13.—Greece. Rhodes. ST ♂ ♀ ZMHU. [6603130]
Tripeta nebrodesia Rondani 1870[4206]: 116.—Italy. Sicily: Nebrodes [Nebrodi Mts.?]. ST ♀ MZLS. Type data (White, Groppe & Sobhian 1990: 109). [6604135]
Orellia colon var. *alis immaculatis* Hendel 1927[2108]: 131.—*Notmen nudum*. Name improperly formed (polynomial). [6602153]
Orellia colon var. *alis maculatis* Hendel 1927[2108]: 131.—*Notmen nudum*. Name improperly formed (polynomial). [6602152]
Terellia virens: Efflatoun 1924[1292]: 78.—misid. See Hendel 1927: 131. [6605674]
deserta. Turkmenistan [PA].
Terellia deserta Korneyev 1985[2717]: 632.—Turkmenistan. Repetek. HT ♂ ZISP. [6602880]
dubia. Kirghizia [PA].
Terellia dubia Korneyev 1985[2717]: 636.—Kirghizia. Osh: Ferghana Range, Mikhaylovka, Kugart R. valley. HT ♂ ZISP. [6602881]
ermolenkoi. Armenia, Azerbaijan [PA].
Terellia ermolenkoi Korneyev 1985[2717]: 638.—Azerbaijan. Apsheronk Dist., Atly-Agach, 1200 m. HT ♂ ZISP. [6602883]
fuscicornis. s. Europe, North Africa, Israel; introduced USA (Calif.) [NE, PA].
Trypeta fuscicornis Loew 1844[3020]: 420.—Italy. Sardinia. ST ♂ ♀ ZMHU. [6603032]
Terellia pallens: Macquart 1835[3073]: 460.—misid. See Hendel 1927: 127. [6605675]
latigenalis. Russia (Siberia) [PA].
Terellia latigenalis Hering 1942[2207]: 3.—Russia. Siberia. ST ♂ ♀ ZMHU. [6602620]
longicauda. Britain, cent. Europe & w. Siberia to Spain, Balkans & Iran [PA].
Trypeta longicauda Meigen 1838[3308]: 356.—Germany. Baiern [Bavaria]. T ♀ MNHNP? [6603455]
Trypeta acuticornis Loew 1846[3021]: 520.—not stated [Germany. Wurttemberg?]. HT ♀ ZMHU? [6603041]
luteola. Spain, Italy, Greece, Israel, Egypt, Tunisia [PA].
Trypeta luteola Wiedemann 1830[5136]: 491.—Egypt [Egypt]. LT ♀ SMF. Lectotype designation by inference of holotype by White, Groppe & Sobhian 1990: 109. [6604734]
Terellia serratulae: Efflatoun 1924[1292]: 76.—misid. See White, Groppe & Sobhian 1990: 109. [6605676]
Orellia colon: Kugler & Freidberg 1975[2795]: 63.—misid. See White, Groppe & Sobhian 1990: 109. [6602910]
matrix. Tadzhikistan [PA].
Terellia matrix Korneyev 1988[2728]: 872.—Tadzhikistan. w. Pamir, s. slope of Yazgulem Range, Ravdara R., Rushan, 3100-3400 m. HT ♂ UASK. [6602890]
megalopyge. Mongolia, China [PA].
Orellia megalopyge Hering 1936[2168]: 183.—China. Heilongjiang: Charbin [Harbin]. ST ♂ ♀ BMNH. [6602243]
Orellia testaceopleura Chen 1938[811]: 73.—China. Hebei: Mou-ze-chan. HT ♀ IZAS. [6600691]
nigripalpis. Turkey [PA].
Terellia nigripalpis Hendel 1927[2107]: 127.—Turkey. "Erdschias" [Ergies?]. HT ♂ NMW. [6602124]
oasis. Algeria [PA].
Squamensina oasis Hering 1938[2180]: 405.—Algeria. Biskra. HT ♀ BMNH. [6602305]

- odontolophi.** Ukraine [PA].
Terellia odontolophi Korneyev 1993[2741]: 144.—Ukraine. Odessa, 18 km. S of Berezovka, Tilihul Lagoon, right bank. HT ♂ UASK. [6605396]
- orheana.** Moldova [PA].
Terellia orheana Korneyev 1990[2735]: 67.—Moldova. nr. Orgheev, Trebugeni, Reut R., Archeological Reserve “Old Orhei”. HT ♂ UASK. [6604997]
- oriunda.** China [PA].
Orellia oriunda Hering 1941[2197]: 26.—China. Manchuria, Tschen. HT ♀ BMNH. [6602530]
- popovi.** Kirghizia [PA].
Terellia popovi Korneyev 1985[2717]: 632.—Kirghizia. Osh: Ferghana Range, Kara-Alma, 1800 m. HT ♂ ZMM. [6602879]
- pseudovirens.** Cyprus [PA].
Orellia pseudovirens Hering 1940[2185]: 7.—Cyprus. Perapedi, 2500 ft. ST ♂ ♀ BMNH. [6602437]
- quadratura.** Israel, Lebanon, Caucasus, Iran [PA].
Trypeta quadratura Loew 1869[3041]: 13.—Russia. ST ♂ ♀ ZMHU. [6603131]
- ruficauda.** n. & cent. Europe to e. Russia; introduced s. Canada, n. USA [NE, PA].
Musca ruficauda Fabricius 1794[1377]: 353.—Galliae [France]. T A MNHNP? Suspension of I.C.Z.N. rules required to validate usage. [6601215]
Musca florescentiae Linnaeus 1758[2981]: 601.—Europe. T A LSL? Has priority over *ruficauda*, but synonymy uncertain (Hendel 1927. [6605437])
Tephritis punctata Fallen 1814[1382]: 167.—Sweden. Skane [Kristianstads or Malmohus]. ST ♂ ♀ NRS. [6601240]
Orellia ruficauda f. *parvimaculata* Hering 1937[2175]: 110.—*Nomen nudum*. Published after 1930 without a description. [6602288]
Orellia ruficauda f. *amplimaculata* Hering 1937[2175]: 110.—*Nomen nudum*. Published after 1930 without a description. [6602289]
Terellia floriscientiae Curran 1934[1046]: 288.—missp. *florescentiae* Linnaeus. [6605616]
- sabroskyi.** Greece (Crete) [PA].
Terellia sabroskyi Freidberg 1982[1558]: 58.—Greece. Crete: Chania, Orthouni. HT ♂ TAUI. [6601337]
- serratulae.** British Is., Scandinavia & Kazakstan S to North Africa, Israel & Iran [PA].
Musca serratulae Linnaeus 1758[2981]: 600.—not stated. T A LSL. ST lost (White 1987: 104). [6602995]
Tephritis pallens Wiedemann 1824[5133]: 54.—Morocco. Tangier. T ♂ UZMC. Type data (Zimsen 1954: 28). [6604715]
Terellia luteola Robineau-Desvoidy 1830[4148]: 759.—France. Paris. T ♂ MNHNP (destroyed). [6604062]
Terellia palpata Robineau-Desvoidy 1830[4148]: 758.—France. Paris; & unstated locality. ST ♂ ♀ MNHNP (destroyed). [6604061]
Terellia dentata Loew 1844[3020]: 425.—Deutschland [Germany or Poland]; & Frankreich [France]. ST A ZMHU? Described from females or both sexes. [6603034]
Musca serratula Manuel 1811[3169]: 35.—emend. *serratulae* Linnaeus. [6605462]
- tribulicola.** India (Meghalaya) [OR].
Tephritis tribulicola Senior-White 1922[4359]: 161.—India. Meghalaya: Shillong. HT ♂ BMNH. [6604247]
- tristicta.** Iran [PA].
Orellia tristicta Hering 1956[2227]: 84.—Iran. Baluchestan: Iranshar, 800 m. HT ♂ SMN. [6602732]
- uncinata.** Italy, Albania, Bulgaria, Greece, Turkey [PA].
Terellia uncinata White 1989[5106]: 54.—Italy. Puglia, San Severo. HT ♂ BMNH. [6604703]
- vectensis.** Britain, Spain, Switzerland, Italy, Cyprus, Israel, Ukraine [PA].
Trypeta vectensis Collin 1937[896]: 1.—Britain. Isle of Wight: Newport, Cranmore Heath; & Hants, New Forest. ST ♂ ♀ UMO, BMNH. Type data (Pont 1995: 169). [6600755]
- vicina.** China (Shanxi) [PA].
Orellia vicina Chen 1938[811]: 80.—China. Shanxi: Tsien-ou. ST ♂ ♀ IZAS. [6600694]
- vilis.** Tadjikistan, Afghanistan [PA].
Galada vilis Hering 1961[2232]: 325.—Afghanistan. Badakhshan: Schiva, 2900 m. high steppe. HT ♀ ZFMK. [6602746]
- virens.** Netherlands to Kazakstan, S to Spain, Israel & Iran; introduced North America [PA, NE].
Trypeta virens Loew 1846[3021]: 523.—Poland. Posen [Poznan]. LT ♂ ZMHU. Lectotype designated by White 1989: 57. [6603042]
Tripeta syllibi Rondani 1870[4206]: 118.—Italy. colle agri parmensis [hills of Parma countryside]. LT ♂ MZLS. Lectotype designated by White 1989: 57. [6604136]
- volgensis.** Russia [PA].
Terellia volgensis Bassov & Tolstoguzova 1995[342]: 57.—Russia. Volga-Kama region, Zaj R., 20 km. S of Nychnekamsk. HT ♀ ZMM. [6605809]
- winthemi.** n. Europe & w. Siberia S to France, Albania, Ukraine & Kazakstan [PA].
Trypeta winthemi Meigen 1826[3306]: 320.—Germany. Stolberg. ST ♂ ♀ MNHNP. Possibly also ST in NMW. [6603432]
Orellia winthemi Persson 1958[3797]: 111.—missp. *winthemi* Meigen. [6605781]
- zerovae.** Romania, Greece, Turkey, Tadjikistan [PA].
Terellia zerovae Korneyev 1985[2717]: 637.—Tadjikistan. Dushanbe. HT ♂ ZISP. [6602882]

TERELLIA Incertae Sedis

- sarolensis.** India (Himachal Pradesh) [OR].
Chetostoma sarolensis Agarwal & Kapoor 1985[43]: 61.—India. Himachal Pradesh: Chamba Distr., Sarol. HT ♂ INPC. [6600069]
- virpana.** Iran [PA].
Terellia virpana Dirlbek 1980[1137]: 270.—nw. Iran. 30 km. NW Mianeh. HT ♀ NMPC. [6600885]

Genus TERMITORIOXA

- Termitorioxax* Hendel 1928[2111]: 351, *Rioxa termitoxena* Bezzi (MO). Proposed as a subgenus. [6600531]
Kertesziola Hering 1941[2193]: 50, *Ptilona lateralis* Kertész (OD) = *meritoria* Walker. [6600513]
Kertészziola Hering 1941[2193]: 50, incosp. *Kertesziola* Hering. Automatic correction under Art. 32(d). [6600922]

REFS—Hardy 1986[1962]: 75 ((*Kertesziola*) key to 3 spp. [AU: New Guinea]); Permkam & Hancock 1995[3795]: 1117 (revision of 6 spp. [AU: Australia]).

- acanthoneurides.** Indonesia (Irian Jaya) [AU].
Rioxina acanthoneurides Hering 1953[2220]: 516.—Indonesia. Irian Jaya: Rattan Camp, 1200 m. HT ♀ RNH. N. Comb. [6602696]

- bicalcaratus**. Australia (Qld.) [AU].
Diarrhgmoides bicalcaratus Hering 1944[2210]: 4.—Australia. Queensland: Cape York. HT ♀ NMW. [6602636]
- exleyae**. Australia (n. WA, NT, nw. Qld.) [AU].
Termitorixa exleyae Permkam & Hancock 1995[3795]: 1120.—Australia. Western Australia: 7 mi. E Kununurra. HT ♂ QMBA. [6605856]
- flava**. Papua New Guinea [AU].
Kertesziola flava Hardy 1986[1962]: 76.—Papua New Guinea. Morobe: Garaina [7°53'S 147°08'E], 1800 m. HT ♀ BBM. **N. Comb.** [6601805]
- inconnexa**. Australia (s. NT) [AU].
Termitorixa inconnexa Permkam & Hancock 1995[3795]: 1122.—Australia. Northern Territory: 15 km. S Barrow Creek, 21°30'S 134°00'E. HT ♂ QMBA. [6605857]
- laurae**. Australia (n. WA, NT, n. Qld.) [AU].
Termitorixa laurae Permkam & Hancock 1995[3795]: 1124.—Australia. Queensland: Cape York Peninsula, Hann R., N of Laura. HT ♂ QMBA. [6605858]
- meritoria**. Indonesia (Misool, Irian Jaya), Papua New Guinea [AU].
Helomyza meritoria Walker 1864[4973]: 218.—Indonesia. Irian Jaya: Mysol [Misool I.]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 664. [6604659]
Ptilona lateralis Kertész 1901[2656]: 428.—Papua New Guinea. Milne Bay; & Moroka. ST ♀ MNM. Inference of HT by Hardy 1986: 76 invalid. [6602864]
- termitoxena**. Australia (n. WA, NT, Qld.) [AU].
Rioxa termitoxena Bezzi 1919[460]: 2.—Australia. Northern Territory: Port Darwin. ST ♂ ♀ BMNH. [6600314]
- testacea**. Australia (n. Qld.) [AU].
Rioxa testacea Hendel 1928[2111]: 352.—Australia. n. Queensland. HT ♂ DEI. [6602182]
- timorensis**. Indonesia (Timor) [OR].
Termitorixa timorensis Hardy 1986[1962]: 132.—Indonesia. Nusa Tenggara: Timor, Koepang. HT ♂ BBM. [6601767]

Genus *TETREUARESTA*

- Tetreuaresta* Hendel 1928[2111]: 368, *Trypeta obscuriventris* Loew (OD). [6600078]
Tetraeuresta Aczel 1950[14]: 276, missp. *Tetreuaresta* Hendel. [6600933]
- REFS—Hering 1941[2202]: 154 (key to 5 spp. [NT: Peru]); Steyskal 1972[4634]: 404 (key to 15 spp. [NT]).
- audax**. Mexico (Veracruz) [NT].
Euaresta audax Giglio-Tos 1893[1685]: 9.—Mexico. Veracruz: Tuxpango. ST ♀ IMZ. Type data (Giglio-Tos 1895: 55). **N. Comb.** [6601410]
- bartica**. Venezuela, Trinidad, Guyana, French Guiana, Brazil (Para, Bahia) [NT].
Tetreuaresta bartica Bates 1933[349]: 53.—Guyana. Bartica. HT ♂ MCZ. [6600097]
- copiosa**. Brazil (Minas Gerais) [NT].
Tetreuaresta copiosa Hering 1942[2206]: 287.—Brazil. Minas Gerais: Sao Joao del Rey [Rei]. HT ♂ ZMHU. [6602595]
- crenulata**. Mexico (Sinaloa, Guerrero, Veracruz) [NE, NT].
Euaresta crenulata Wulp 1900[5219]: 423.—Mexico. Guerrero: Chilpancingo, 4600 ft. LT ♂ BMNH. Lectotype designated by Foote 1965: 246. [6604811]
- deleta**. Brazil (Pernambuco) [NT].
Tetreuaresta deleta Hering 1942[2205]: 478.—Brazil. Pernambuco. HT ♂ MNM. [6602539]

- ellipa**. Peru, Bolivia [NT].
Euaresta ellipa Hendel 1914[2103]: 73.—Bolivia. La Paz: Mapiri, San Carlos, 800 m.; Peru. Pichis Rd.; Lares Valley, 2000-3000 m.; Callanga. ST ♂ SMT, MNM. [6602039]
Tetreuaresta ellipta Foote 1967[1508]: 44.—missp. *ellipa* Hendel. [6601278]
- guttata**. Brazil (Minas Gerais) [NT].
Acinia guttata Macquart 1846[3077]: 341.—Brazil. Minas Gerais. T ♀ UMO. **N. Comb.** [6603231]
- heringi**. Colombia [NT].
Tetreuaresta heringi Norrbom 1997[This publication].—n. n. *rufula* Hering 1942. **N. Name** [6605422]
Tetreuaresta rufula Hering 1942[2206]: 286.—Colombia. “Cordillere, tierra caliente”. HT ♂ ZMHU. Preocc. Wulp 1900. [6602594]
- lata**. Paraguay [NT].
Tetreuaresta lata Hering 1942[2205]: 478.—Paraguay. Central: Asuncion. HT ♂ MNM. [6602538]
- latipennis**. Mexico [NT].
Euaresta latipennis Townsend 1893[4825]: 13.—Mexico. Veracruz: Papaloapam R., Chacaltianguis. LT ♀ UKaL. Lectotype designation by inference of holotype by Byers et al. 1962: 180. **N. Comb.** [6604529]
- myrtis**. Peru, Bolivia [NT].
Euaresta myrtis Hendel 1914[2103]: 73.—Peru. Chauchamayo, Pinipini; Cuzco: Vilcanota; & Bolivia. Songo. ST ♂ SMT, MNM. [6602040]
- obscuriventris**. Greater Antilles, Colombia, Brazil; introduced Hawaii, Fiji, Tonga [NT, AU].
Trypeta obscuriventris Loew 1873[3042]: 313.—Brazil. T ♀ NMW. [6603180]
Euaresta columbiana Enderlein 1911[1326]: 431.—Colombia. Hacienda Pehlke. HT ♂ PAN. [6601153]
Euaresta catharinensis Enderlein 1911[1326]: 431.—Brazil. Santa Catharina [Santa Catarina]. LT ♀ PAN. Lectotype designated by Hardy 1969: 480. [6601152]
- phthonera**. Peru [NT].
Euaresta phthonera Hendel 1914[2103]: 74.—Peru. Callanga. ST ♂ MNM, NMW. [6602041]
- platypteryx**. Venezuela [NT].
Tetreuaresta timida ssp. *platypteryx* Hering 1940[2185]: 12.—Venezuela. Aragua: Maracay. ST ♂ ♀ ZSBS. [6602443]
- plaumanni**. Brazil (Santa Catarina) [NT].
Tetreuaresta plaumanni Hering 1953[2221]: 10.—Brazil. Santa Catarina: Nova Teutonia. HT ♀ BMNH. [6602702]
- punctipennata**. Costa Rica [NT].
Tetreuaresta punctipennata Hering 1942[2205]: 476.—Costa Rica. Cartago: La Suiza de Turrialba. HT ♀ MNM. [6602537]
Tetreuaresta punctipennis Hering 1942[2206]: 287.—missp. *punctipennata* Hering. [6605677]
- rufula**. Mexico (Veracruz) [NT].
Euaresta rufula Wulp 1900[5219]: 424.—Mexico. Veracruz: Atoyac. LT ♂ BMNH. Lectotype designated by Foote 1965: 246. **N. Comb.** [6604812]
- spectabilis**. Bolivia, Brazil, Guyana? [NT].
Trypeta spectabilis Loew 1873[3042]: 309.—Brazil. ST ♂ ♀ NMW. [6603179]
- timida**. Mexico (Jalisco), Costa Rica [NE, NT].
Trypeta timida Loew 1862[3036]: 221.—Mexico. T ♂ NMW. [6603112]

Genus *THEMARA*

- Themara* Walker 1856[4960]: 33, *ampla* Walker (MO). [6600532]

REFS—Hardy 1974[1943]: 87 (key to 9 spp. [OR]); Hardy 1986[1962]: 134 (key to 8 spp. [OR, AU: Indonesia to Solomon Is.]).

alkestis. Philippines (Mindanao) [OR].
Trypeta alkestis Osten Sacken 1882[3722]: 229.—Philippines. HT ♂ DEI. [6603948]
Trypeta alcestis Bezzi 1913[448]: 66.—emend. *alkestis* Osten Sacken. [6605825]

ampla. Malaysia (w., Sarawak, Sabah), Singapore, Indonesia (Sumatra) [OR].
Themara ampla Walker 1856[4960]: 33.—Singapore. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 206. [6604599]
Themara microcephala Hering 1939[2182]: 175.—Borneo. HT ♂ MNHNP. [6602407]

extraria. Indonesia (Sumatra) [OR].
Themara extraria Hering 1952[2218]: 275.—Indonesia. Sumatra: Engano [Enggano] I., Buah-Buah. HT ♀ ZMAN. [6602676]

hirsuta. Malaysia (Sarawak) [OR].
Acanthoneura hirsuta Perkins 1938[3785]: 407.—Malaysia. Sarawak: foot of Mt. Dulit, junction of Tinjar R. & Lejok R. ST ♂ BMNH. [6603966]

hirtipes. India, Burma, China (Yunnan), Laos, Malaysia (w., Sarawak, Sabah), Brunei, Philippines, Indonesia (Sumatra, Java) [OR].
Themara hirtipes Rondani 1875[4210]: 435.—Malaysia. Sarawak. T ♂ MCSNG. [6604152]
Themara palawana Hering 1938[2180]: 410.—Philippines. n. Palawan: Binaluan. HT ♂ ZMHU. [6602310]
Themara enderleini Hering 1938[2180]: 409.—Indonesia. Sumatra: Soekaranda. ST ♂ ♀ PAN, DEI? [6602309]
Themara yunnana Zia 1963[5313]: 641.—China. Yunnan: Xi-Sang-Ban-Na [Xishuangbanna], Da-meng-lung, 650 m. HT ♂ IZAS. [6604872]
Trypeta lineata Bezzi 1913[448]: 117.—*Nomen nudum*. India. Assam: Sadiya. HT ♀ ZSI. Attributed to Bigot. [6600202]
Eurosta picta Bezzi 1913[448]: 117.—*Nomen nudum*. India. Assam: Sadiya. HT ♂ ZSI. Attributed to Bigot. [6600203]

jacobsoni. Indonesia (Sumatra) [OR].
Themara jacobsoni Meijere 1916[3321]: 47.—Indonesia. Sumatra: nr. Simalur I., Pulu Babi [Pulau Babi]. LT ♂ ZMAN. Lectotype designated by Hardy 1969: 478; type data (Hardy 1986: 139). [6604940]

lunifera. Philippines, Solomon Is. [OR, AU].
Themara lunifera Hering 1938[2180]: 408.—Philippines. Luzon, Laguna: Los Banos. HT ♂ BMNH. [6602308]

maculipennis. Singapore, Indonesia (Sumatra, Java), Malaysia (Sarawak, Sabah) [OR].
Achias maculipennis Westwood 1847[5082]: 38.—Indonesia. Java. ST ♂ ♀ UMO, BMNH. [6604696]
Achias horsfieldii Westwood 1850[5083]: 235.—Indonesia. Java. LT ♂ BMNH. Lectotype designated by Hardy 1969: 479. [6604698]
Acanthoneura montina Enderlein 1911[1326]: 416.—Indonesia. w. Java: Gette-Gebirge [Gede Mts.], 4000 ft. HT ♂ PAN. Type data (Hardy 1986: 140). [6601140]
Themara horsfieldi Osten Sacken 1881[3721]: 461.—missp. *horsfieldii* Westwood. [6605678]
Themara horsfieldi Bigot 1892[511]: 221.—missp. *horsfieldii* Westwood. [6605679]
Themara horsfieldii Hardy 1977[1946]: 69.—missp. *horsfieldii* Westwood. Attributed to “authors”. [6605782]

nigrifacies. Malaysia (Sarawak) [OR].
Acanthoneura hirsuta var. *nigrifacies* Perkins 1938[3785]: 409.—Malaysia. Sarawak: foot of Mt. Dulit, junction of Tinjar R. & Lejok R. HT ♂ BMNH. [6603967]

ostensackeni. Cambodia, Philippines (Mindanao) [OR].

Themara ostensackeni Hardy 1974[1943]: 91.—Philippines. Mindanao, Davao: E slope Mount McKinley. HT ♂ FMNH. [6601674]

Genus *THEMARICTERA*

Themarictera Hendel 1914[2102]: 77, *rufipennis* Hendel (OD) = *flaveolatus* Fabricius. [6600124]

Stigmatothemara Enderlein 1920[1330]: 340, *pterocallina* Enderlein (OD) = *flaveolatus* Fabricius. [6600125]

REF.—Bezzi 1924[469]: 108 (key to 3 spp. (obsolete) [AF]).

flaveolata. Benin, Nigeria, Cameroon, South Africa [AF].

Dacus flaveolatus Fabricius 1805[1380]: 275.—“Guinea”. T A UZMC. Type data (Zimsen 1964: 484). [6601226]

Trypeta laticeps Loew 1861[3031]: 260.—Caffrerei [South Africa]. T ♀ NRS? [6603062]

Themarictera rufipennis Hendel 1914[2102]: 77.—s. Nigeria [Oshogbo]. T A NMW. 1 female in NMW, type locality from label data. [6601923]

Stigmatothemara pterocallina Enderlein 1920[1330]: 340.—Cameroon. Johann-Albrechtshoehe. ST ♂ ZMHU. [6601175]

Trypeta laticeps Loew 1862[3037]: 3.—Caffraria [South Africa]. T ♀ NRS? Preocc. Loew 1861. [6605254]

Genus *THEMAROHYSTRIX*

Themarohystrix Hendel 1914[2102]: 78, *erinaceus* Hendel (OD) = *helomyzoides* Walker. [6600533]

REFS—Malloch 1939[3137]: 422 (key to 3 spp. [AU]); Hardy 1986[1962]: 142 (key to 9 spp. [AU]).

alpina. Papua New Guinea (Morobe, E. Highlands) [AU].

Themarohystrix alpina Hardy 1986[1962]: 143.—Papua New Guinea. Morobe: near Bulolo, Gumi, 2010 m. HT ♂ BBM. [6601768]

bivittata. Indonesia (Irian Jaya) [AU].

Themarohystrix bivittata Hardy 1986[1962]: 145.—Indonesia. Irian Jaya: “Hollandia-binnen” [Jayapura], 50 m. HT ♂ BBM. [6601769]

flaviceps. Papua New Guinea [AU].

Themarohystrix flaviceps Malloch 1939[3137]: 422.—Papua New Guinea. Morobe: Bulolo. HT ♀ AMS. [6603344]

helomyzoides. Indonesia (Irian Jaya), Papua New Guinea [AU].

Strumeta helomyzoides Walker 1864[4973]: 220.—Indonesia. Irian Jaya: Mysol [Misool I.]. ST ♂ ♀ BMNH. Female ST in UQIC (or QMBA), see Hardy 1959: 205, 1982: 286. [6604660]

Themarohystrix erinaceus Hendel 1914[2102]: 78.—not stated. T A NMW. [6601925]

Themarohystrix erinaceus Hendel 1915[2105]: 433.—“Indischen Archipel.” HT ♂ NMW. Preocc. Hendel 1914. [6602077]

Dacus helomyzoides Froggatt 1910[1620]: 34.—missp. *helomyzoides* Walker. [6605745]

hyalina. Papua New Guinea (Central) [AU].

Themarohystrix hyalina Hardy 1986[1962]: 147.—Papua New Guinea. Central: Eilago [Eilogo Estate?], in rain forest. HT ♂ BBM. [6601770]

nigrifacies. Indonesia (Irian Jaya) [AU].

Themarohystrix nigrifacies Hardy 1986[1962]: 149.—Indonesia. Irian Jaya: 40 km. W of Jayapura, Genjem, 100-200 m. HT ♂ BBM. [6601772]

perkinsi. Indonesia (Irian Jaya) [AU].

Themarohystrix perkinsi Hardy 1986[1962]: 149.—Indonesia. Irian Jaya: 40 km. W of Hollandia [Jayapura], Genjem, 100-200 m. HT ♂ BBM. [6601771]

suttoni. Indonesia (Irian Jaya), Papua New Guinea [AU].

Themarohystrix suttoni Malloch 1939[3137]: 423.—Papua New Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♂ AMS. [6603345]

variabilis. Indonesia (Irian Jaya), Papua New Guinea [AU].

Themarohystrix variabilis Hardy 1986[1962]: 151.—Papua New Guinea. Central: Moreguina, river margin. HT ♂ BBM. [6601774]

Genus *THEMAROIDES*

Themaroides Hendel 1914[2102]: 77, *Helomyza quadrifera* Walker (OD). [6600534]

Rioxina Hering 1941[2196]: 16, *Rioxina debeauforti* Meijere (OD) = *abbreviata* Walker. [6600535]

Rioxena Hardy & Foote 1989[1973]: 515, missp. *Rioxina* Hering. Attributed to “authors”. [6600979]

REF.—Hardy 1986[1962]: 153 (key to 5 spp. [AU]).

abbreviatus. Indonesia (Irian Jaya), Papua New Guinea [AU].

Seraca abbreviata Walker 1865[4974]: 117.—New Guinea. LT ♀ BMNH. Lectotype designated by Hardy 1959: 195. [6604666]

Rioxina debeauforti Meijere 1906[3312]: 94.—Indonesia. Irian Jaya: Manikion. HT ♂ ZMAN. Type data (Hardy 1986: 153). [6604901]

Rioxina de-beauforti Meijere 1906[3312]: 94.—incosp. *debeauforti* Meijere. Automatic correction under Art. 32(d). [6605821]

quadrifera. Indonesia (Maluku, Irian Jaya), Papua New Guinea [AU].

Helomyza quadrifera Walker 1861[4969]: 246.—Indonesia. Irian Jaya: Dorey [Manokwari]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 190 (assumes Walker misstated sex of ST). [6604643]

Helomyza optatura Walker 1865[4974]: 116.—New Guinea. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1959: 189. [6604665]

Themara ampla: Doleschall 1858[1203]: 124.—misid. See Bezzi 1913: 66. [6600943]

robertsi. Papua New Guinea (E. Highlands, Morobe) [AU].

Themaroides robertsi Hardy 1986[1962]: 156.—Papua New Guinea. Morobe: near Bulolo, upper Stony logging area. HT ♂ BBM. [6601775]

vittatus. Papua New Guinea [AU].

Themaroides vittata Hardy 1986[1962]: 158.—Papua New Guinea. Morobe: near Bulolo, Gumi. HT ♂ BBM. [6601776]

xanthosoma. Papua New Guinea [AU].

Themaroides xanthosoma Hardy 1986[1962]: 160.—Papua New Guinea. SE, Mura R. HT ♂ BBM. [6601777]

Genus *THEMAROIDOPSIS*

Themaroidopsis Hering 1941[2196]: 17, *Acanthoneura insignis* Meijere (OD). [6600536]

REF.—Hardy 1986[1962]: 161 (key to 4 spp. [AU]).

insignis. Indonesia (Irian Jaya) [AU].

Acanthoneura insignis Meijere 1913[3316]: 366.—Indonesia. Irian Jaya: Lorentz R.; & Bivak I. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1986: 162 invalid; also ST in BMNH. [6604917]

quinquevittata. Papua New Guinea (Western) [AU].

Themaroidopsis quinquevittata Hardy 1986[1962]: 162.—Papua New Guinea. Western: Fly R., Kiunga. HT ♂ BBM. [6601778]

rufescens. Bougainville I. [AU].

Themaroidopsis rufescens Hardy 1986[1962]: 163.—Papua New Guinea. North Solomons: Bougainville I., NW Emperor Range, Mt. Balbi, 2000-2400 m. HT ♂ BBM. [6601779]

tetraspilota. Papua New Guinea (Morobe) [AU].

Themaroidopsis tetraspilota Hardy 1986[1962]: 164.—Papua New Guinea. Morobe: near Bulolo, upper Manki logging area, 5000 ft. HT ♂ AMS. [6601780]

Genus *TOMOPLAGIA*

Tomoplagia Coquillett 1910[966]: 591, n. n. *Plagiotoma* Loew. [6600080]

Plagiotoma Loew 1873[3042]: 252, *Trypeta obliqua* Say, Coquillett 1910[966]: 591 (SD). Preocc. Dujardin 1841. [6600079]

REFS—Curran 1931[1040]: 15 ((*Plagiotoma*) key to 8 spp. [NE, NT]); Hering 1941[2202]: 144 (key to 9 spp. [NT: Peru]); Aczel 1955[27]: 321 (key to 43 spp. [NE, NT]); Aczel 1955[28]: 155 (key to 45 spp. [NE, NT]); Foote, Blanc & Norrbom 1993[1523]: 411 (key to 2 spp. [NE: USA]); Prado & Lewinsohn 1994[3878]: 669 (taxonomy of 9 spp. [NT: Brazil]).

aberrans. Brazil (Minas Gerais, Mato Grosso) [NT].

Tomoplagia aberrans Aczel 1954[26]: 157.—Brazil. Minas Gerais: Uberaba. HT ♂ IPV. HT currently in IML (Hayward & Golbach 1963: 403). [6600035]

Tomoplagia aberrans Aczel 1955[28]: 169.—Brazil. Minas Gerais. T ♂ IML. Preocc. Aczel 1954. [6605983]

argentinensis. Brazil (Minas Gerais, Rio de Janeiro, Sao Paulo), Argentina (Tucuman) [NT].

Tomoplagia argentinensis Aczel 1955[27]: 337.—Argentina. Tucuman: Quebrada de Cainzo, nr. Tafi Viejo. HT ♂ IML. [6600037]

Tomoplagia argentinense Aczel 1955[28]: 163.—Argentina. Tucuman. T ♂ IML. **N. Syn.** [6605977]

arsinoe. Colombia [NT].

Tomoplagia arsinoe Hering 1942[2206]: 285.—Colombia. “Cordillere, tierra templada”. HT ♂ ZMHU. [6602592]

Tomoplagia arsinoe Hering 1942[2206]: 285.—incosp. *arsinoe* Hering. Automatic correction under Art. 32(d). [6605706]

atelesta. Bolivia [NT].

Tomoplagia atelesta Hendel 1914[2103]: 37.—Bolivia. La Paz: Mapiro, San Carlos, 800 m.; Sarampioni, 700 m.; Suapi; Songo; & San Antonio. ST ♂ SMT, MNM. [6601987]

atimeta. Bolivia [NT].

Tomoplagia atimeta Hendel 1914[2103]: 35.—Bolivia. La Paz: Mapiro, Sarampioni, 700 m.; & Bellavista, 1200 m. ST ♂ SMT, NMW. [6601983]

biseriata. Ecuador, Brazil [NT].

Trypeta biseriata Loew 1873[3042]: 252.—Brazil. ST ♀ ZMHU? [6603166]

Trypeta obliqua: Schiner 1868[4296]: 267.—misid. [6605680]

brevipalpis. Panama [NT].

Tomoplagia brevipalpis Aczel 1955[27]: 339.—Panama. El Cermen. HT ♂ USNM. [6600038]

Tomoplagia brevipalpis Aczel 1955[28]: 165.—Panama. El Cermen. LT ♂ USNM. Preocc. Aczel 1955; lectotype, here designated, holotype of *brevipalpis* Aczel 1955: 339. [6605979]

carrerai. Brazil (Goias, Rio de Janeiro, Sao Paulo) [NT].

Tomoplagia carrerai Aczel 1955[27]: 341.—Brazil. Sao Paulo: Sao Sebastiao I., Castelhanos Bay. HT ♂ USP. [6600039]

- Tomoplagia carrerai* Aczel 1955[28]: 157.—Brazil. Sao Paulo: Sao Sebastiao I., Castelhanos Bay. LT ♂ USP. Preocc. Aczel 1955; lectotype, here designated, holotype of *carrerai* Aczel 1955: 341. [6605970]
- conjuncta**. Peru, Bolivia [NT].
Tomoplagia conjuncta Hendel 1914[2103]: 38.—Peru; Bolivia. Songo. ST ♂ MNM. [6601990]
- costalimai**. Argentina (Tucuman, Misiones, Corrientes, Entre Rios) [NT].
Tomoplagia costalimai Aczel 1955[27]: 344.—Argentina. Entre Rios: Concordia. HT ♂ IPV. Attributed to Blanchard. [6600040]
Tomoplagia costalimai Aczel 1955[28]: 164.—Argentina. Entre Rios; Tucuman; Brazil. ST ♂ ♀ IPV, IML. Preocc. Aczel 1955. [6605978]
- Tomoplagia costalimai* Hayward 1941[2046]: 95.—*Nomen nudum*. Attributed to Blanchard; see Aczel 1955: 344. [6605747]
Tomoplagia distincta Hayward 1942[2047]: 32.—*Nomen nudum*. Attributed to Blanchard; see Aczel 1955: 344. [6605746]
- cressoni**. USA & Mexico (n. California to Texas, S to Morelos) [NE].
Tomoplagia cressoni Aczel 1955[27]: 347.—USA. California: Ontario. HT ♂ USNM. [6600041]
Tomoplagia cressoni Aczel 1955[28]: 169.—USA. California: Ontario. LT ♂ USNM. Preocc. Aczel 1955; lectotype, here designated, holotype of *cressoni* Aczel 1955: 347. [6605982]
Tomoplagia obliqua: Snow 1904[4526]: 345.—misid. [6605565]
- deflorata**. Guatemala, Costa Rica, Panama [NT].
Tomoplagia deflorata Hering 1937[2172]: 296.—Costa Rica. 8 km. W of San Jose, Farm La Caja. HT ♀ ZSZMH. [6602290]
- dejeanii**. Probably Neotropical [UK].
Sitarea dejeanii Robineau-Desvoidy 1830[4148]: 764.—Unknown. HT ♀ Dejean. See Hendel 1927: 130. [6605186]
- diagramma**. Peru [NT].
Tomoplagia diagramma Hendel 1914[2103]: 36.—Peru. Urubamba R., Umahuankilia. ST ♂ SMT, NMW. [6601986]
- discolor**. Cuba, Puerto Rico [NT].
Trypeta discolor Loew 1862[3033]: 64.—Cuba. T ♂ MCZ. [6603087]
Tephritis obliqua: Bigot 1857[494]: 346.—misid. See Foote 1967: 46. [6600546]
- fiebrigi**. Paraguay, Argentina (Jujuy, E to Corrientes, S to Cordoba) [NT].
Tomoplagia fiebrigi Hendel 1914[2103]: 40.—Paraguay. La Cordillera: San Bernardino. LT ♀ NMW. Lectotype designated by Hardy 1968: 126. [6601998]
- formosa**. Argentina (Formosa), Brazil (Minas Gerais) [NT].
Tomoplagia formosa Aczel 1955[27]: 358.—Argentina. Formosa: Mision Laishi. HT ♀ IML. [6600042]
Tomoplagia formosa Aczel 1955[28]: 162.—Argentina. Formosa: Mision Laishi. LT ♀ IML. Preocc. Aczel 1955; lectotype, here designated, holotype of *formosa* Aczel 1955: 358. [6605976]
- heringi**. Paraguay, Brazil (Minas Gerais) [NT].
Tomoplagia heringi Aczel 1955[27]: 360.—Paraguay. Villarica. HT ♀ USNM. [6600043]
Tomoplagia heringi Aczel 1955[28]: 162.—Paraguay. Villarica. LT ♀ USNM. Preocc. Aczel 1955; lectotype, here designated, holotype of *heringi* Aczel 1955: 360. [6605975]
- incompleta**. West Indies, Paraguay, Brazil (Minas Gerais), Argentina [NT].
Trypeta incompleta Williston 1896[5157]: 378.—St. Vincent. ST ♂ ♀ BMNH. [6604758]
- jonasi**. Brazil (Mato Grosso, Rio de Janeiro) [NT].
Plagiotoma jonasi Lutz & Lima 1918[3063]: 10.—Brazil. Mato Grosso: Utiarety [Utiariti]. HT ♂ IOC. [6603186]
- kelloggi**. Peru [NT].
Tomoplagia kelloggi Aczel 1955[27]: 365.—Peru. Rio Charape. HT ♂ USNM. [6600044]
Tomoplagia kelloggi Aczel 1955[28]: 167.—Peru. Rio Charape. LT ♂ USNM. Preocc. Aczel 1966; lectotype, here designated, holotype of *kelloggi* Aczel 1955: 365. [6605981]
- minattai**. Argentina (Entre Rios) [NT].
Tomoplagia minattai Aczel 1955[27]: 368.—Argentina. Entre Rios: Concordia. HT ♀ IPV. Attributed to Blanchard. [6600045]
Tomoplagia minattai Aczel 1955[28]: 157.—Argentina. Entre Rios. T ♀ IPV. Preocc. Aczel 1955. [6605969]
- minuta**. Brazil (Minas Gerais, Sao Paulo, Santa Catarina) [NT].
Tomoplagia minuta Hering 1938[2178]: 187.—Brazil. Santa Catarina: Nova Teutonia, Correio Ita. HT ♂ BMNH. [6602327]
- monostigma**. Peru [NT].
Tomoplagia monostigma Hendel 1914[2103]: 38.—Peru. Lares Valley, 800 m.; & Callanga. ST ♂ ♀ SMT, MNM. [6601992]
- obliqua**. USA (N to Nebraska & New York) S to Costa Rica & Bahamas; Cuba? [NE, NT].
Trypeta obliqua Say 1830[4286]: 186.—USA. Indiana. T A ANSP (destroyed). [6604171]
- ovalipalpis**. Brazil (Sao Paulo) [NT].
Tomoplagia ovalipalpis Aczel 1955[27]: 374.—Brazil. Sao Paulo: Itanhaem. HT ♀ USP. [6600046]
Tomoplagia ovalipalpis Aczel 1955[28]: 161.—Brazil. Sao Paulo: Itanhaem. LT ♀ USP. Preocc. Aczel 1955; lectotype, here designated, holotype of *ovalipalpis* Aczel 1955: 374. [6605974]
- penicillata**. Peru [NT].
Tomoplagia penicillata Hendel 1914[2103]: 39.—Peru. Callanga. HT ♂ MNM. [6601996]
- phaedra**. Peru, Argentina (Corrientes, Santa Fe, Tucuman), s. Brazil [NT].
Tomoplagia phaedra Hendel 1914[2103]: 38.—Peru. Urubamba R., Rosalina. HT ♂ SMT. Male in NMW reported as HT by Hardy (1968: 126) is not type. [6601991]
Tomoplagia tucumana Hayward 1942[2047]: 32.—*Nomen nudum*. Attributed to Blanchard; see Aczel 1955: 378. [6605749]
Tomoplagia bosqi Aczel 1955[27]: 387.—*Nomen nudum*. Attributed to Blanchard. [6605748]
- pleuralis**. Peru, Ecuador, Argentina [NT].
Tomoplagia pleuralis Hendel 1914[2103]: 39.—Peru. Callanga. HT ♂ MNM. [6601993]
- propleuralis**. Puerto Rico [NT].
Tomoplagia propleuralis Aczel 1955[27]: 385.—Puerto Rico. Adjuntas, Petri Finca. HT ♀ USNM. [6600047]
Tomoplagia propleuralis Aczel 1955[28]: 165.—Puerto Rico. Adjuntas, Petri Finca. LT ♀ USNM. Preocc. Aczel 1955; lectotype, here designated, holotype of *propleuralis* Aczel 1955: 385. [6605980]
- pseudopenicillata**. Brazil (Minas Gerais, Sao Paulo) [NT].
Tomoplagia pseudopenicillata Aczel 1955[27]: 387.—Brazil. Sao Paulo: near Sao Paulo. HT ♂ USNM. [6600048]
Tomoplagia pseudopenicillata Aczel 1955[28]: 158.—Brazil. Sao Paulo: near Sao Paulo. LT ♂ USNM. Preocc. Aczel 1955; lectotype, here designated, holotype of *pseudopenicillata* Aczel 1955: 387. [6605971]
- punctata**. Argentina (Misiones) [NT].
Tomoplagia punctata Aczel 1955[27]: 390.—Argentina. Misiones: Iguazu. HT ♂ IML. [6600049]
Tomoplagia punctata Aczel 1955[28]: 160.—Argentina. Misiones: Iguazu. LT ♂ IML. Preocc. Aczel 1955; lectotype, here designated, holotype of *punctata* Aczel 1955: 390. [6605973]

- pura*. Cuba, Puerto Rico [NT].
Plagiotoma pura Curran 1931[1040]: 16.—Puerto Rico. Jajome Alto. HT ♂ AMNH. [6600845]
- quadriseriata*. Peru [NT].
Tomoplagia quadriseriata Hendel 1914[2103]: 37.—Peru. Callanga. ST ♀ MNM, NMW. [6601989]
- quadrivittata*. Brazil (Minas Gerais) [NT].
Tomoplagia quadrivittata Lima 1934[2956]: 119.—Brazil. Minas Gerais: Capela Nova do Betim. HT ♂ IOC. [6602928]
- quinquefasciata*. Paraguay [NT].
Tephritis quinquefasciata Macquart 1835[3073]: 700.—Paraguay. T ♀ MNHNP. **N. Comb.** [6605362]
Tephritis quinquefasciata Macquart 1835[3073]: 464.—incosp. *quinquefasciata* Macquart, by present revision. [6603197]
- reimoseri*. Trinidad, Venezuela, Paraguay, Argentina, Brazil [NT].
Tomoplagia reimoseri Hendel 1914[2103]: 39.—Paraguay. La Cordillera: San Bernardino. LT ♂ NMW. Lectotype designated by Hardy 1968: 126. [6601995]
- rudolphi*. Bolivia, Brazil (Mato Grosso & Espirito Santo to Parana) [NT].
Plagiotoma rudolphi Lutz & Lima 1918[3063]: 10.—Brazil. Sao Paulo; & E of Sao Paulo, on frontier of Rio de Janeiro. ST ♂ ♀ IOC. [6603185]
Plagiotoma biseriata: Ihering 1912[2359]: 14.—misid. see Lutz & Lima 1918: 10. [6605681]
- salesopolitana*. Brazil (Sao Paulo) [NT].
Tomoplagia salesopolitana Aczel 1955[27]: 400.—Brazil. Sao Paulo: Salesopolis. HT ♂ USP. [6600050]
Tomoplagia salesopolitana Aczel 1955[28]: 170.—Brazil. Sao Paulo: Salesopolis. LT ♂ USP. Preocc. Aczel 1955; lectotype, here designated, holotype of *salesopolitana* Aczel 1955: 400. [6605984]
- separata*. Peru [NT].
Tomoplagia separata Hendel 1914[2103]: 39.—Peru. Urubamba R., Rosalina. HT ♂ SMT. [6601994]
- stacta*. Bolivia, Argentina [NT].
Tomoplagia stacta Hendel 1914[2103]: 37.—Bolivia. La Paz: Las Yungas, Coroico. HT ♂ SMT. [6601988]
Tomoplagia stacta Aczel 1950[14]: 246.—missp. *stacta* Hendel. [6605750]
- stonei*. Panama [NT].
Tomoplagia stonei Aczel 1955[27]: 402.—Panama. El Cermeno. HT ♂ USNM. [6600051]
Tomoplagia stonei Aczel 1955[28]: 160.—Panama. El Cermeno. LT ♂ USNM. Preocc. Aczel 1955; lectotype, here designated, holotype of *stonei* Aczel 1955: 401. [6605972]
- titschacki*. Peru [NT].
Tomoplagia titschacki Hering 1941[2202]: 146.—Peru. Ayacucho: between Esperanza & Aina, “Rast am Wasser”. HT ♂ ZSZMH. [6602564]
- tripunctata*. Paraguay, Brazil (Minas Gerais) [NT].
Tomoplagia tripunctata Hendel 1914[2103]: 36.—Paraguay. La Cordillera: San Bernardino. HT ♂ MNM. [6601985]
- trivittata*. Argentina (Concordia, Entre Rios), Brazil (Mato Grosso, Minas Gerais, Sao Paulo) [NT].
Plagiotoma trivittata Lutz & Lima 1918[3063]: 10.—Brazil. Mato Grosso: Serra Acima. HT ♂ IOC. [6603187]
- unifascia*. Chile (Tarapaca) [NT].
Tomoplagia unifascia Hendel 1914[2103]: 39.—Chile. Tarapaca: Arica. HT ♂ SMT. [6601997]
- vernoniae*. Brazil (Santa Catarina) [NT].
Tomoplagia vernoniae Hering 1938[2180]: 414.—Brazil. Santa Catarina: Nova Bremen. ST ♂ ♀ BMNH. [6602316]

Genus *TOXOTRYPANA*

- Toxotrypana* Gerstaecker 1860[1665]: 191, *curvicauda* Gerstaecker (MO). [6600082]
Mikimyia Bigot 1884[502]: xxix, *furcifera* Bigot (MO) = *curvicauda* Gerstaecker. [6600083]
Toxotrypana Williston 1908[5158]: 283, missp. *Toxotrypana* Gerstaecker. [6600887]
Toxotrypana Curran 1931[1040]: 14, missp. *Toxotrypana* Gerstaecker. [6600815]
- REF.—Blanchard 1960[533]: 33 (revision of 6 spp. [NT: Argentina]).
- australis*. Argentina (Tucuman) [NT].
Toxotrypana australis Blanchard 1960[533]: 34.—Argentina. Tucuman: Tucuman. ST ♀ MACN. [6600589]
- curvicauda*. USA (s. Texas) S to Colombia & Venezuela, West Indies, Bahamas; introduced USA (Florida) [NE, NT].
Toxotrypana curvicauda Gerstaecker 1860[1665]: 194.—Virgin Is. Insula St. Jean [St. John]. T ♀ ZMHU. [6601399]
Mikimyia furcifera Bigot 1884[502]: xxix.—Brazil [probably erroneous]. HT ♂ UMO. [6600553]
Toxotrypana fairbatesi Munro 1984[3524]: 160.—Cuba. Soledad, Sta. Clara. HT ♂ SANC. [6603882]
Toxotrypana curvicauda Munro 1984[3524]: 160.—missp. *curvicauda* Gerstaecker. [6605903]
- littoralis*. Guatemala to Venezuela, following Andes to Argentina [NT].
Toxotrypana littoralis Blanchard 1960[533]: 36.—Argentina. Corrientes: Corrientes. HT ♀ MACN. [6600590]
- nigra*. Argentina (Jujuy, Entre Rios) [NT].
Toxotrypana nigra Blanchard 1960[533]: 42.—Argentina. Entre Rios: Concordia. HT ♀ MACN. [6600593]
- picciola*. Argentina (Tucuman) [NT].
Toxotrypana picciola Blanchard 1960[533]: 40.—Argentina. Tucuman: Estacion Experimental Agricola de Tucuman. HT ♀ MACN. [6600592]
- proseni*. Argentina (Jujuy, Buenos Aires) [NT].
Toxotrypana proseni Blanchard 1960[533]: 38.—Argentina. Buenos Aires: Punta Lara. HT ♀ MACN. [6600591]
- pseudopicciola*. Argentina (Cordoba) [NT].
Toxotrypana pseudopicciola Blanchard 1960[533]: 43.—Argentina. Cordoba: Cordoba. HT ♀ MACN. [6600594]

Genus *TRIANDOMELAENA*

- Triandomelaena* Hancock 1986[1891]: 22, *brevicostalis* Hancock (OD). [6600634]
- albina*. East Africa [AF].
Euribia albina Bezzi 1924[472]: 138.—East Africa. Shiraki. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 155. **N. Comb.** [6600491]
- brevicostalis*. Zimbabwe [AF].
Triandomelaena brevicostalis Hancock 1986[1891]: 22.—Zimbabwe. Mazowe district, Trianda Farm. HT ♂ NMBZ. [6601478]

Genus *TRIGONOCHORIUM*

- Trigonochorium* Becker 1913[378]: 647, *oculatum* Becker (MO). [6600333]

oculatum. Iran [PA].

Trigonochorium oculatum Becker 1913[378]: 647.—Iran. Baluchestan: Kirman, between Dech-i-Pabid & Chasyk. HT ♂ ZISP. [6600150]

Genus TRIRHITHRUM

Trirhithrum Bezzi 1918[455]: 236, *Ceratitis nigra* Graham (OD). [6600134]

REFS—Bezzi 1918[455]: 236 (key to 9 spp. [AF]; Bezzi 1924[470]: 483 (key to 4 spp. [AF: South Africa]); Bezzi 1924[469]: 105 (key to 16 spp. [AF]); Munro 1934[3468]: 475 (key to 23 spp. [AF]); Munro 1937[3480]: 11 (key to 3 spp. (supplement to Munro 1934) [AF]); Hancock 1984[1884]: 292 (key to 6 spp. [AF: Malagasy subregion]); White & Elson-Harris 1992[5111]: 105 (key to 2 spp. [AF]); Hancock 1987[1892]: 54 (key to 8 spp. [AF: Zimbabwe]).

albomaculatum. Mozambique, Zimbabwe, South Africa [AF].

Ceratitidis albomaculata Roder 1885[4160]: 136.—Mozambique. Delagoa Bay. T ♂ MLUH. [6604100]

Ceratitidis albo-maculata Roder 1885[4160]: 136.—incosp. *albomaculata* Roder. Automatic correction under Art. 32(d). [6605504]

albonigrum. Cameroon, Equatorial Guinea, Congo, Uganda [AF].

Ceratitidis albonigra Enderlein 1911[1326]: 410.—Cameroon. Barombi. ST ♂ ♀ PAN. [6601136]

argenteocuneatum. Madagascar [AF].

Trirhithrum argenteocuneatum Hancock 1984[1884]: 293.—Madagascar. Toamasina: Moramanga district, Perinet. HT ♂ SANC. [6601451]

argutum. Equatorial Guinea [AF].

Ceratitidis arguta Enderlein 1920[1330]: 354.—Equatorial Guinea. Nkolentangan. HT ♀ ZMHU. [6601193]

basale. Malawi [AF].

Trirhithrum basale Bezzi 1924[469]: 107.—Malawi. Cholo, 3000 ft. ST ♂ ♀ BMNH. [6600453]

bicinctum. Ghana [AF].

Ceratitidis bicincta Enderlein 1920[1330]: 349.—Ghana. Accra. HT ♀ ZMHU. [6601189]

bimaculatum. Equatorial Guinea, Mozambique [AF].

Ceratitidis bimaculata Roder 1885[4160]: 135.—Mozambique. Delagoa Bay. T ♀ MLUH. [6604099]

brachypterum. Uganda [AF].

Trirhithrum brachypterum Munro 1934[3468]: 480.—Uganda. Entebbe. ST ♂ ♀ BMNH. [6603528]

coffaeae. Ethiopia, Ghana, Ivory Coast, Cameroon, Uganda, Kenya, Tanzania [AF].

Trirhithrum nigerrimum var. *coffaeae* Bezzi 1918[455]: 241.—Ghana. Aburi. ST ♂ ♀ BMNH. [6600290]

Trirhithrum inscriptum: Bezzi 1924[469]: 106.—misid. See Munro 1934: 485. [6605179]

crescentis. Madagascar [AF].

Trirhithrum crescentis Hancock 1984[1884]: 294.—Madagascar. Antananarivo: Ambatolampy district, Andranotobaka, 1400 m. HT ♂ SANC. [6601452]

dimorphum. Sierra Leone, Ghana [AF].

Trirhithrum dimorphum Munro 1934[3468]: 484.—Sierra Leone. Gendema. ST ♂ ♀ BMNH. [6603531]

divisum. South Africa [AF].

Trirhithrum divisum Munro 1934[3468]: 486.—South Africa. Natal: Durban. HT ♀ SANC. [6603532]

ebenum. Ivory Coast [AF].

Trirhithrum ebenum Seguy 1941[4348]: 118.—Ivory Coast. Danane. T ♂ MNHNP. [6604239]

facetum. Equatorial Guinea, Zaire [AF].

Ceratitidis faceta Enderlein 1920[1330]: 349.—Equatorial Guinea. Uelleburg. HT ♀ ZMHU. [6601186]

festivum. Equatorial Guinea [AF].

Ceratitidis festiva Enderlein 1920[1330]: 349.—Equatorial Guinea. Nkolentangan. HT ♂ ZMHU. [6601188]

fraternum. Sierra Leone, Ghana, Uganda [AF].

Trirhithrum fraternum Munro 1934[3468]: 482.—Sierra Leone. Njala; & Uganda: Entebbe. ST ♂ ♀ BMNH. [6603529]

gagatinum. Ghana [AF].

Trirhithrum gagatinum Bezzi 1918[455]: 238.—Ghana. Aburi. HT ♀ BMNH. [6600287]

homogeneum. Uganda, Tanzania, Zimbabwe [AF].

Trirhithrum homogeneum Bezzi 1924[469]: 105.—Deutsch O. Africa [Tanzania]. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 135. [6600452]

inauratipes. Zaire [AF].

Trirhithrum inauratipes Munro 1933[3465]: 7.—Zaire. Equateur: Lukolela, left bank Congo River. HT ♂ AMNH. [6603500]

inscriptum. Ivory Coast, Ghana [AF].

Ceratitidis inscripta Graham 1910[1782]: 164.—Ghana. South Ashanti, Obuasi. HT ♂ BMNH. [6601414]

iridescens. Madagascar [AF].

Trirhithrum iridescens Hancock 1984[1884]: 296.—Madagascar. Antananarivo: Ambatolampy district, Andranotobaka, 1400 m. HT ♂ SANC. [6601453]

leucopsis. Eritrea, Uganda, Malawi [AF].

Trirhithrum nigerrimum var. *leucopsis* Bezzi 1918[455]: 240.—Malawi. Limbe, 4000 ft. HT ♂ BMNH. [6600289]

manganum. Madagascar [AF].

Trirhithrum manganum Munro 1954[3506]: 543.—Madagascar. Tananarive-Tsimbazaza. HT ♂ MNHNP. [6603719]

meladiscum. Ghana, Uganda, Kenya [AF].

Trirhithrum meladiscum Munro 1938[3484]: 166.—Kenya. Uplands. HT ♂ BMNH. [6603599]

micans. Uganda [AF].

Trirhithrum micans Munro 1957[3510]: 872.—Uganda. Ruwenzori Range, Kilembe, 4500 ft. HT ♂ BMNH. [6603755]

nigerrimum. Ghana & Niger E to Uganda, S to South Africa, Comoros Is. [AF].

Ceratitidis nigra var. *nigerrima* Bezzi 1913[447]: 26.—Nigeria. Lagos. ST ♂ ♀ IZUSN? [6600192]

Ceratitidis patagiata Enderlein 1920[1330]: 350.—Tanzania. Lake Nyassa, Langenburg. HT ♂ ZMHU. [6601190]

nigrum. Niger, Ghana, Nigeria, Cameroon, Zaire, Uganda [AF].

Ceratitidis nigra Graham 1910[1782]: 162.—Ghana. South Ashanti, Obuasi; or Nigeria. Lagos, Yaba. HT A BMNH. Type locality & sex of HT not specified. [6601413]

Ceratitidis obscura Enderlein 1911[1326]: 411.—Cameroon. Barombi. HT ♀ PAN. [6601137]

nitidum. Mozambique, South Africa [AF].

Ceratitidis nitida Roder 1885[4160]: 134.—Mozambique. Delagoa Bay. ST ♂ ♀ MLUH. [6604098]

notandum. Uganda [AF].

Trirhithrum notandum Munro 1957[3510]: 873.—Uganda. Budongo Forest. HT ♂ BMNH. [6603756]

occipitale. Malawi, Zimbabwe, South Africa [AF].

Trirhithrum occipitale Bezzi 1918[455]: 239.—Malawi. Limbe. HT ♀ BMNH. [6600288]

ochriceps. Kenya [AF].

Ceratitidis ochriceps Enderlein 1920[1330]: 347.—Kenya. Kikuyu. HT ♂ ZMHU. [6601184]

overlaeti. Zaire, Uganda [AF].

Trirhithrum overlaeti Munro 1934[3468]: 477.—Zaire. Shaba: Kapanga. HT ♂ SANC. [6603526]

queritum. Kenya [AF].

Trirhithrum queritum Munro 1937[3480]: 10.—Kenya. Nairobi. HT ♂ BMNH. [6603580]

resplendens. Madagascar [AF].

Trirhithrum resplendens Hancock 1984[1884]: 298.—Madagascar. Toamasina: Moramanga district, Sandrangato. HT ♂ SANC. [6601454]

scintillans. Zaire [AF].

Trirhithrum scintillans Munro 1934[3468]: 483.—Zaire. Shaba: Kapanga. ST ♂ ♀ SANC. [6603530]

senex. Kenya [AF].

Trirhithrum senex Munro 1938[3484]: 167.—Kenya. Rabai. HT ♂ BMNH. [6603600]

teres. Kenya [AF].

Trirhithrum teres Munro 1938[3484]: 165.—Kenya. Rabai. HT ♂ BMNH. [6603598]

torina. Tanzania [AF].

Trirhithrum torina Hering 1954[2224]: 168.—Tanzania. Torina. HT ♀ SMN. [6602721]

transiens. Uganda [AF].

Trirhithrum transiens Munro 1957[3510]: 874.—Uganda. Ruwenzori Range, Nyamgasani Valley, 8000-9000 ft. HT ♂ BMNH. [6603757]

validum. Uganda [AF].

Trirhithrum validum Bezzi 1920[463]: 236.—Uganda. Entebbe. HT ♀ BMNH. [6600340]

viride. South Africa [AF].

Trirhithrum viride Munro 1934[3468]: 479.—South Africa. Natal: Durban. HT ♀ SANC. [6603527]

unavailable name. [AF].

Ceratitis dispertita Enderlein 1920[1330]: 349.—*Nomen nudum*. Published without diagnosis or indication. [6601187]

Genus TRITAENIOPTERON

Tritaeniopteron Meijere 1914[3319]: 209, *eburneum* Meijere (MO). [6600365]

REFS—Hardy 1957[1931]: 377 (key to 2 spp. [OR]); Hardy 1973[1942]: 114 (key to 4 spp. [OR]).

eburneum. Indonesia (Java) [OR].

Tritaeniopteron eburneum Meijere 1914[3319]: 209.—Indonesia. Java: Tandjong Priok [Port of Jakarta]. ST ♂ ♀ ZMAN. Inference of HT by Hardy 1958: 378 invalid. [6604929]

excellens. Taiwan [OR].

Sophira excellens Hendl 1915[2105]: 441.—Taiwan. Kankau. LT ♂ MNM. Lectotype designated by Hardy 1969: 478. [6602086]

flavifacies. Philippines (Luzon) [OR].

Tritaeniopteron flavifacies Hardy 1974[1943]: 92.—Philippines. Luzon, Laguna: Mount Makiling. HT ♂ MCSNM. [6601675]

punctatipleurum. Sri Lanka [OR].

Rioxia punctatipleura Senior-White 1922[4359]: 160.—Sri Lanka. Western: Colombo. ST ♂ ♀ CNMS. Also ST in BMNH. [6604246]

tetraspilotum. Thailand [OR].

Tritaeniopteron tetraspilotum Hardy 1973[1942]: 115.—Thailand. Nan: Nan. HT ♂ BBM. [6601544]

Tritaeniopteron elachispilotum Hardy 1973[1942]: 115.—Thailand. Nakorn-patom. HT ♂ KUB. [6601543]

Genus TRUPANEA

Trupanea Schrank 1795[4314]: 147, *radiata* Schrank (MO) = *stellata* Fuesslin. [6600335]

Urellia Robineau-Desvoidy 1830[4148]: 774, *calcitrapae* Robineau-Desvoidy, Coquillett 1910[966]: 618 (SD) = *stellata* Fuesslin. [6600336]

Trypanoidea Bryan 1924[646]: 367, *Trypeta crassipes* Thomson (OD). Proposed as a subgenus. [6600627]

Trypanea Agassiz 1847[53]: 380, emend. *Trupanea* Schrank. [6600658]

Trupanea Guettard 1762[1830]: 170, *Nomen nudum*. Published in non-binominal work. [6600876]

Tripanea Bezzi 1924[471]: 91, missp. *Trupanea* Schrank. [6600826]

REFS—Brethes 1908[607]: 367 ((*Urellia*) key to 6 spp. [NT: Argentina]); Bezzi 1913[448]: 166 (key to 3 spp. [OR: India]); Hendl 1914[2103]: 74 ((*Trypanea*) key to 22 spp. [NT]); Bezzi 1918[456]: 41 ((*Trypanea*) key to 5 spp. [AF]); Bezzi 1924[472]: 140 ((*Trypanea*) key to 10 spp. [AF]); Bezzi 1924[470]: 559 ((*Trypanea*) key to 4 spp. [AF: South Africa]); Hendl 1927[2108]: 198 ((*Trypanea*) key to 4 spp. [PA]); Malloch 1931[3126]: 396 ((*Trypanea*) key to 12 spp. [AU: New Zealand]); Shiraki 1933[4432]: 451 ((*Trypanea*) key to 4 spp. [OR: Taiwan]); Malloch 1933[3130]: 275 ((*Trypanea*) keys to 5 species groups & 15 spp. [NT: Patagonia & s. Chile]); Hering 1936[2167]: 329 ((*Trypanea*) keys to 7 spp. (supplements to Hendl 1914) [NT]); Hering 1941[2202]: 167 ((*Trypanea*) key to 20 spp. [NT: Peru]); Malloch 1942[3142]: 2 (key to 22 spp. [NE, NT]); Aczel 1953[22]: 275 (keys to 6 species groups & to 5 spp. [NT]); Aczel 1953[23]: 366 (key to 7 spp. of *argentina* group [NT]); Hering 1956[2227]: 87 (key to 10 spp. [PA]); Foote 1960[1489]: 4 (revision of 20 spp. [NE: USA & Canada]); Foote & Blanc 1963[1521]: 73 (key to 15 spp. [NE: USA: California]); Munro 1964[3518]: 1 (revision of 40 spp. [AF]); Richter 1970[4087]: 170 (key to 2 spp. [PA: e. Europe]); Dirlbek & Dirlbekova 1971[1151]: 170 ((*Trypanea*) key to 8 spp. [PA]); Hardy 1973[1942]: 333 (key to 5 spp. [OR: Southeast Asia]); Hardy & Delfinado 1980[1971]: 59 (key to 21 spp. [AU: Hawaii]); Ito 1984[2420]: 252 (key to 4 spp. [PA: Japan]); Freidberg & Kugler 1984[1571]: 136 (key to 5 spp. [PA: Israel & Sinai]); Frias 1985[1590]: 370 (key to 4 spp. [NT: Chile]); Kwon 1985[2802]: 91 (key to 2 spp. [PA: Korea]); Hardy 1988[1965]: 69 (key to 14 spp. [OR, AU: Indonesia to Solomon Is.]); White 1988[4235]: 53 (key to 2 spp. [PA: Britain]); Kapoor 1993[2600]: 64 (key to 12 spp. [OR: India]); Foote, Blanc & Norrbom 1993[1523]: 417 (key to 20 spp. [NE: USA & Canada]); Merz 1994[3343]: 79 (key to 2 spp. [PA: cent. Europe]); Hardy & Drew 1996[1972]: 384 (revision of 8 spp. [AU: Australia]).

actinobola. Canada & USA (Saskatchewan E to New York, S to California & Florida), n. Mexico, Bermuda, Bahamas [NE, NT]. *Trypeta actinobola* Loew 1873[3042]: 326.—USA. Texas. LT ♂ MCZ. Lectotype designated by Foote 1960: 24. [6603184] *Trupanea actinobola* Phillips 1946[3827]: 125.—missp. *actinobola* Loew. [6605542] *Tephritis daphne*: Sweet 1930[4733]: 123.—misid. [6605612]

ageratae. USA (Florida), Cuba [NE, NT].

Trupanea ageratae Benjamin 1934[398]: 56.—USA. Florida: No Name Key. HT ♂ USNM. [6600165]

aira. Cameroon, Zaire, Burundi, Tanzania [AF].

Trypeta aira Walker 1849[4957]: 1023.—Congo [Congo or Zaire]. LT ♀ BMNH. Lectotype designation by inference of holotype by Munro 1964: 43. [6604562]

Trypanea pseudodecora Hering 1942[2207]: 24.—Cameroon. Bibundi. HT ♀ ZMHU. [6602613]

alboapicata. New Zealand [AU].

Trypanea alboapicata Malloch 1931[3126]: 401.—New Zealand. Cass. HT ♂ NZAC. [6603263]

- aldrichi**. Peru [NT].
Trypanea aldrichi Aczel 1953[22]: 278.—Peru. HT ♂ USNM. [6600014]
- ambigua**. Taiwan [OR].
Trypanea ambigua Shiraki 1933[4432]: 454.—Taiwan. Ranrun. HT ♀ NTU. [6604319]
- amoena**. widesp. s. Palearctic Region, Ethiopia, India, Sri Lanka, Australia [PA, AF, OR, AU].
Trypanea amoena Frauenfeld 1857[1537]: 542.—Croatia. Dalmatien [Dalmatia], Zara [Zadar]; & unstated locality [probably Germany (see p. 524) or Austria. Vienna area]. ST ♂ ♀ NMW. Suspension of I.C.Z.N. rules required to validate usage. [6601303]
Trypanea amoena var. *kotoshoensis* Shiraki 1933[4432]: 452.—Taiwan. Kotosho. ST ♂ ♀ NTU. [6604318]
Urellia parisiensis Robineau-Desvoidy 1830[4148]: 775.—France. Paris. ST A MNHNP (destroyed). Has priority over *amoena*, but synonymy uncertain (Hendel 192: 198). [6604088]
- andobana**. Madagascar [AF].
Trypanea andobana Munro 1964[3518]: 58.—Madagascar. Antsalova dct., Andoba, Antsingy Forest, 190 m. HT ♀ ISTM. HT currently in SANC. [6603831]
- antiqua**. India? [OR].
Trypanea antiqua Walker 1853[4959]: 378.—East Indies [e. India?]. ST ♀ BMNH. ST apparently lost (Hardy 1959: 208). [6604585]
- apicalis**. Hawaiian Is. (Hawaii) [AU].
Trypanea apicalis Hardy 1980[1948]: 64.—USA. Hawaii: Hawaii, Pohakuloa, 6500 ft. HT ♂ BBM. Not preoccupied by Macquart 1838: 100, these names originally combined with different homonymous nominal genera (see Art. 57h). **N. Status** [6601678]
Trypanea neoapicalis Hardy 1989[1966]: 530.—n. n. *apicalis* Hardy 1980. [6601866]
- arboreae**. Hawaiian Is. (Hawaii) [AU].
Trypanea arboreae Hardy 1980[1948]: 66.—USA. Hawaii: Hawaii, Kaula Gulch, above Keanakolu on NW slope of Mauna Kea, 7000 ft. HT ♂ BBM. [6601881]
- argentina**. Argentina (Jujuy & Chaco S to Mendoza & Buenos Aires) [NT].
Urellia argentina Brethes 1908[607]: 368.—Argentina. Buenos Aires: General Urquiza. HT ♀ MACN. [6600625]
- arizonensis**. USA & Mexico (California, Arizona & Texas, S to Baja California & Chiapas) [NE, NT].
Trypanea arizonensis Malloch 1942[3142]: 15.—USA. Arizona: Tucson. HT ♀ USNM. [6603375]
- artemisiae**. Hawaiian Is. (Maui) [AU].
Trypanea artemisiae Hardy 1980[1948]: 68.—USA. Hawaii: Maui, Haleakala, Kaupo Gap, 5800 ft. HT ♂ BBM. [6601882]
- asteria**. India, Indonesia (Java), New Guinea, Solomon Is. [OR, AU].
Tephritis asteria Schiner 1868[4296]: 270.—India. Tamil Nadu: Madras. LT ♂ NMW. Lectotype designated by Hardy 1968: 142. [6604189]
- asteroides**. Peru [NT].
Trypanea asteroides Hendel 1914[2103]: 78.—Peru. Arequipa: Mollendo. HT ♀ SMT. [6602048]
- aucta**. India, Sri Lanka [OR].
Trypanea aucta Bezzi 1913[448]: 166.—India. Orissa: Puri. HT ♀ ZSI. [6600234]
- austera**. Chile [NT].
Trypanea austera Hering 1942[2207]: 18.—Chile. “Mittel-Chile”, Cortaderal. HT ♀ ZMHU. [6602604]
- basiflava**. Argentina (Jujuy to Cordoba) [NT].
Trypanea basiflava Hering 1942[2207]: 19.—Argentina. Salta: 1200-2500 m. ST ♂ ♀ ZMHU. [6602605]
- basistriga**. Argentina (Salta, Mendoza) [NT].
Trypanea basistriga Malloch 1933[3130]: 291.—Argentina. Mendoza. HT ♀ BMNH. [6603294]
Trypanea secreta Hering 1942[2207]: 25.—Argentina. Salta: 2500 m. ST ♂ ♀ ZMHU. [6602614]
- beardsleyi**. Hawaiian Is. (Maui) [AU].
Trypanea beardsleyi Hardy 1980[1948]: 69.—USA. Hawaii: e. Maui, Halemanu Trail, 8000 ft. HT ♂ BBM. [6601883]
- bidensicola**. Hawaiian Is. (Kauai) [AU].
Trypanea bidensicola Hardy 1980[1948]: 72.—USA. Hawaii: Kauai, Kumuwela. HT ♂ BBM. [6601885]
- bifida**. Australia (NSW) [AU].
Trypanea bifida Hardy & Drew 1996[1972]: 387.—Australia. New South Wales: 58 km. Dorrigo-Coramba Road. HT ♀ ANIC. [6605953]
- bisdiversa**. Kenya, Malawi, Zimbabwe, South Africa [AF].
Trypanea bisdiversa Bezzi 1924[472]: 147.—Malawi. Cholo; & Limbe. ST ♂ ♀ BMNH. [6600499]
- bisetosa**. USA & Mexico (Idaho & Wyoming S to Baja California, Sonora, Zacatecas & w. Texas) [NE].
Urellia bisetosa Coquillett 1899[953]: 358.—USA. New Mexico: Las Cruces; & Utah: Marysvale. ST ♂ ♀ USNM. Inference of HT by Foote 1960: 11 invalid. [6600785]
- bisreducta**. Namibia, Zimbabwe, South Africa [AF].
Trypanea bisreducta Bezzi 1924[470]: 571.—South Africa. Orange Free: Modderpoort. HT ♀ SANC. [6600450]
- bistigmosa**. Peru, Chile [NT].
Trypanea bistigmosa Hering 1941[2202]: 170.—Chile. Tarapaca: Arica. ST ♂ ♀ SMT. [6602573]
- bistriga**. Uruguay [NT].
Trypanea bistriga Malloch 1933[3130]: 291.—Uruguay. Montevideo. HT ♂ BMNH. [6603295]
- bonariensis**. Bolivia, Paraguay, Argentina, s. Brazil [NT].
Urellia bonariensis Brethes 1908[607]: 369.—Argentina. Buenos Aires: Lujan; & unstated locality. ST ♀ MACN. [6600626]
Trypanea majuscula Bezzi & Tavares 1916[480]: 163.—Brazil. Rio de Janeiro: Nova Friburgo; Bahia: btw. Salvador & R. Vermelho. ST ♂ ♀ MCSNM? [6600544]
Trypanea ornatissima Hering 1935[2161]: 228.—Brazil. Santa Catarina. ST ♀ PAN. [6602228]
- brasiliensis**. Brazil (Ceara, Pernambuco, Espirito Santo, Rio de Janeiro, Rio Grande do Sul) [NT].
Trypanea brasiliensis Aczel 1953[22]: 279.—Brazil. Rio de Janeiro: Anchieta. HT ♀ USNM. **N. Status** [6600015]
- brevitarsis**. Peru [NT].
Trypanea brevitarsis Hering 1941[2202]: 170.—Peru. Mamara. ST ♂ ♀ SMT. [6602574]
- browni**. South Africa [AF].
Trypanea browni Munro 1964[3518]: 59.—South Africa. Orange Free: Bethlehem. HT ♀ SANC. [6603832]
- brunneipennis**. Thailand [OR].
Trypanea brunneipennis Hardy 1973[1942]: 333.—Thailand. Chiang Mai: Doi Pui, 1360 m. HT ♂ BBM. [6601614]
- bullocki**. Chile (Bio Bio, Araucania) [NT].
Trypanea bullocki Malloch 1933[3130]: 293.—Chile. Bio Bio: San Rosendo. HT ♀ BMNH. [6603296]
- caerulea**. Kenya [AF].
Trypanea caerulea Munro 1964[3518]: 68.—Kenya. Magadi. HT ♂ SANC. [6603838]
- californica**. Canada & USA (British Columbia E to Iowa, S to California & Texas) [NE].
Trypanea californica Malloch 1942[3142]: 17.—USA. California: Emerald River, Tahoe. HT ♂ USNM. [6603378]
Trypanea microsetulosa Malloch 1942[3142]: 17.—USA. California: Lakeside, Tahoe. HT ♂ USNM. [6603377]

- candida**. Argentina (Salta) [NT].
Trypanea candida Hering 1942[2207]: 20.—Argentina. Salta: 1200-2500 m. HT ♂ ZMHU. [6602608]
- celaenoptera**. Hawaiian Is. (Hawaii) [AU].
Trupanea celaenoptera Hardy 1980[1948]: 72.—USA. Hawaii: Hawaii, Pohakuloa, 6500 ft. HT ♂ BBM. [6601884]
- centralis**. New Zealand [AU].
Trypanea centralis Malloch 1931[3126]: 402.—New Zealand. Cass. HT ♀ NZAC. [6603265]
- chariessa**. Bolivia [NT].
Trypanea chariessa Hendel 1914[2103]: 78.—Bolivia. Yungas road, 3500 m. ST ♂ ♀ SMT, NMW. [6602047]
Trypanea chariessa Aczel 1950[14]: 301.—missp. *chariessa* Hendel. [6605751]
- chilensis**. Peru, Chile, Argentina [NT].
Acinia chilensis Macquart 1843[3076]: 385.—Chile. Concepcion. T ♀ MNHNP. [6603223]
Acinia simplex Blanchard 1852[525]: 459.—Chile. T A MNHNP. 1 male ST in MNHNP. **N. Syn.** [6600576]
- chrysanthemifolii**. Chile (Valparaiso) [NT].
Trupanea chrysanthemifolii Frias 1985[1590]: 366.—Chile. Valparaiso: Mirasol. HT ♀ UChS. [6601370]
- colligata**. South Africa [AF].
Trupanea colligata Munro 1964[3518]: 32.—South Africa. Transvaal: Pretoria. HT ♀ SANC. [6603816]
- completa**. New Zealand [AU].
Trypanea completa Malloch 1931[3126]: 400.—New Zealand. Cass. HT ♀ NZAC. [6603261]
- conjuncta**. USA (California, Arizona), Mexico (Baja California) [NE].
Urellia conjuncta Adams 1904[32]: 451.—USA. Arizona: Bill Williams Fork. HT ♀ UKaL. Type data (Foote 1962: 173). [6600061]
- constans**. Kenya, Zimbabwe [AF].
Trypanea constans Munro 1964[3518]: 54.—Kenya. Nairobi. HT ♂ SANC. [6603828]
- convergens**. Mongolia, e. Russia, China, w. Malaysia, Philippines [PA, OR].
Trypanea convergens Hering 1936[2168]: 188.—China. Heilongjiang: Charbin [Harbin]. HT ♀ BMNH. [6602250]
Trupanea cosmia Hendel 1938[2119]: 9.—China. Jiangsu. ST ♂ ♀ NRS, NMW. [6602207]
Trypanea sinensis Zia 1937[5308]: 218.—China. Jiangsu: Nanking [Nanjing]; Shanghai; Zhejiang: Chusan [Zhoushan]. HT ♀ IZAS. [6604842]
- cosmia**. Madeira Is.; India? [PA].
Tephritis cosmia Schiner 1868[4296]: 269.—Madeira. LT ♀ NMW. Lectotype designated by Hardy 1968: 144. [6604187]
- crassipes**. Hawaiian Is. [AU].
Trypeta crassipes Thomson 1869[4809]: 583.—USA. Hawaii: Oahu, Honolulu. ST ♂ ♀ NRS. [6604522]
- crassitarsis**. Brazil (Santa Catarina) [NT].
Trypanea crassitarsis Hering 1940[2188]: 32.—Brazil. Santa Catarina: Nova Teutonia. HT ♂ BMNH. [6602467]
- cratericola**. Hawaiian Is. (Maui) [AU].
Tephritis cratericola Grimshaw 1901[1818]: 46.—USA. Hawaii: Maui, Haleakala Crater, 8000 ft. ST ♂ ♀ BMNH. [6601436]
- curvata**. South Africa [AF].
Trupanea curvata Munro 1964[3518]: 38.—South Africa. Cape: Cape Town, Kirstenbosch. HT ♂ SANC. [6603818]
- cuspidiflexa**. Kenya [AF].
Trypanea cuspidiflexa Munro 1964[3518]: 45.—Kenya. Ngong Hills. HT ♂ SANC. [6603822]
- cyclops**. Brazil, Argentina [NT].
Trypanea cyclops Hendel 1914[2103]: 80.—Argentina. Tucuman; & Brazil. ST ♂ ♀ NMW, MNM. [6602053]
- dacetopectera**. Canada (Ontario & Quebec) S to USA (Florida), Bahamas, Puerto Rico, St. Croix [NE, NT].
Trypanea dacetopectera Phillips 1923[3826]: 148.—USA. New York: Karner. HT ♀ CUI. [6603996]
- daphne**. Uruguay, Argentina [NT].
Trypeta daphne Wiedemann 1830[5136]: 508.—Uruguay. Montevideo. ST ♀ NMW. [6604743]
Trypeta duplicata Wiedemann 1830[5136]: 510.—Uruguay. Montevideo. T ♀ ZMHU. [6604747]
Trypeta meteorica Thomson 1869[4809]: 582.—Argentina. Buenos Ayres [Buenos Aires]. T ♂ NRS. [6604518]
Trypanea neodaphne var. *alpha* Malloch 1933[3130]: 287.—Uruguay. Montevideo. HT A BMNH. [6603289]
Trypanea daphne Aczel 1950[14]: 301.—missp. *daphne* Wiedemann. [6605752]
- dealbata**. South Africa [AF].
Trupanea dealbata Munro 1964[3518]: 70.—South Africa. Natal: Durban, Malvern. HT ♂ SANC. [6603839]
- decepta**. Philippines (Palawan) [OR].
Trupanea decepta Hardy 1970[1940]: 114.—Philippines. Palawan: Uring Uring, Brooke's Point. HT ♂ UZMC. Type data (Hardy 1974: 33). [6601519]
- decora**. South Africa [AF].
Trypeta decorata Loew 1861[3031]: 300.—Vorgebirge der guten Hoffnung [South Africa. Cape: Cape of Good Hope]. LT ♀ NRS. Lectotype designation by inference of holotype by Munro 1960: 410, 1964: 33. [6603083]
Trupanea decorata ssp. *teretapicata* Munro 1964[3518]: 38.—South Africa. Cape: Grahamstown. HT ♂ SANC. [6603817]
Trypeta decorata Loew 1862[3037]: 7.—Cap Bon. Sp. [South Africa. Cape: Cape of Good Hope]. LT ♀ NRS. Preocc. Loew 1861. Lectotype, here designated, lectotype female of *decorata* Loew 1861 (see Munro (1964:33) for label data. [6605273]
- dempta**. Hawaiian Is. (Hawaii) [AU].
Trypanea dempta Hardy 1980[1948]: 78.—USA. Hawaii: Hawaii, Kilauea, 4000 ft. HT ♂ BBM. [6601886]
- denotata**. Hawaiian Is. (Maui) [AU].
Trypanea denotata Hardy 1980[1948]: 80.—USA. Hawaii: Maui, Haleakala, Kolekole Peak, 10000 ft. HT ♀ BBM. [6601887]
- digrammata**. Mexico (Guerrero) [NT].
Trypanea digrammata Hering 1947[2213]: 11.—Mexico. Guerrero: Chilapa. HT ♂ BMNH. [6602640]
Trypanea digrammata Aczel 1950[14]: 302.—missp. *digrammata* Hering. [6605753]
- diluta**. Argentina (Salta, Mendoza, Rio Negro) [NT].
Urellia diluta Enderlein 1911[1326]: 459.—Argentina. Mendoza. LT ♂ PAN. Lectotype designated by Hardy 1969: 480. [6601170]
- discyrta**. Kenya, Zambia [AF].
Trupanea discyrta Munro 1964[3518]: 44.—Kenya. Nairobi. HT ♂ SANC. [6603821]
- distincta**. Taiwan [OR].
Trypanea distincta Shiraki 1933[4432]: 458.—Taiwan. Rikiriki. HT ♀ NTU. [6604320]
- diversa**. South Africa [AF].
Trypeta diversa Wiedemann 1830[5136]: 498.—Kap [South Africa. Cape Province or Cape of Good Hope]. T ♀ ZMHU. [6604741]

- dubautiae.** Hawaiian Is. [AU].
Tephritis dubautiae Bryan 1921[645]: 477.—USA. Hawaii: Oahu, Ohulehule; Wahiawa; Lanihuli; Rooke Valley, Kaumuahoa & Mt. Kaala. ST ♂ ♀ BBM. [6600637]
Tephritis dubautiae Terry 1912[4779]: 147.—*Nomen nudum*. [6604508]
- dubia.** New Zealand [AU].
Trypanea dubia Malloch 1931[3126]: 401.—New Zealand. Waiho. HT ♂ NZAC. [6603262]
- dumosa.** South Africa [AF].
Trypanea dumosa Munro 1940[3492]: 78.—South Africa. Cape: Grahamstown. HT ♂ SANC. [6605235]
- durvillei.** Peru, Chile [NT].
Acinia durvillei Macquart 1843[3076]: 384.—Chile. Concepcion. T ♀ MNHNP. [6603221]
- eclipta.** USA (Alabama, Florida), Mexico, Belize, Guatemala, Greater & Lesser Antilles [NE, NT].
Trupanea eclipta Benjamin 1934[398]: 57.—USA. Florida: Orlando. HT ♂ USNM. [6600166]
- edwardsi.** Argentina (Catamarca, Mendoza) [NT].
Trypanea edwardsi Malloch 1933[3130]: 289.—Argentina. Mendoza: Potrerillos. HT ♀ BMNH. [6603293]
- erasa.** Peru [NT].
Trypanea erasa Malloch 1942[3142]: 16.—Peru. Lima. HT ♀ USNM. [6603376]
- erigeroni.** Israel [PA].
Trupanea erigeroni Freidberg 1974[1549]: 58.—Israel. Dead Sea area, Ein Gedi. HT ♂ TAUI. [6601322]
- excepta.** Chile (Valparaiso) [NT].
Trypanea excepta Malloch 1933[3130]: 288.—Chile. Valparaiso: Los Andes. HT ♂ BMNH. [6603291]
- extensa.** New Zealand [AU].
Trypanea extensa Malloch 1931[3126]: 402.—New Zealand. Waiho. HT ♂ NZAC. [6603264]
- falcata.** Liberia [AF].
Trypanea falcata Munro 1964[3518]: 50.—Liberia. Robert's Field. HT ♂ SANC. [6603825]
- femoralis.** USA & Mexico (Oregon E to Kansas, S to Baja California & New Mexico) [NE].
Trypeta femoralis Thomson 1869[4809]: 582.—USA. California. LT ♂ NRS. Lectotype designation by inference of holotype by Foote 1960: 8. [6604519]
Urellia occidentalis Adams 1904[32]: 452.—USA. California: Palo Alto. LT ♀ UKaL. Lectotype designated by Foote 1960: 9. [6600062]
- fenwicki.** New Zealand [AU].
Trypanea fenwicki Malloch 1931[3126]: 404.—New Zealand. Paradise. HT ♀ NZAC. [6603269]
- flavivena.** Costa Rica [NT].
Trypanea flavivena Hering 1937[2172]: 300.—Costa Rica. 8 km. W of San Jose, Farm La Caja. HT ♀ ZSZMH. [6602295]
- foliosi.** Chile (Valparaiso) [NT].
Trypanea foliosi Frias 1985[1590]: 364.—Chile. Valparaiso: Mirasol. HT ♀ UChS. [6601369]
- footei.** Chile (O'Higgins) [NT].
Trypanea footei Frias 1985[1590]: 368.—Chile. O'Higgins: Rapel. HT ♀ UChS. [6601371]
- formosae.** Taiwan [OR].
Trypanea formosae Hendel 1927[2108]: 201.—Taiwan. Tainan; & Polisha. ST ♂ ♀ MNM, DEI. [6602171]
Trypanea stellata: Hendel 1915[2105]: 467.—misid. See Hendel 1927: 201. [6605350]
- furcifera.** Ethiopia, Kenya, Zimbabwe, South Africa, Madagascar [AF].
Trypanea furcifera Bezzi 1924[472]: 142.—Ethiopia. Harar: Dire-Daua [Dire Dawa]. LT ♀ MNM. Lectotype designation by inference of holotype by Munro 1935: 158 (also see Munro 1964: 65). [6600495]
- glauca.** Philippines, Indonesia (Java), Australia (WA, SA, Qld., NSW, ACT, Vic.), widespread Oceania [OR, AU].
Trypeta glauca Thomson 1869[4809]: 581.—Australia. New South Wales: Sidney [Sydney]. ST ♂ ♀ NRS. Type data (Hardy 1974: 252). [6604516]
Trypanea amoena: Bezzi 1914[450]: 328.—misid. See Hardy 1974: 252. [6605590]
- gratiosa.** Korea, Japan (Honshu, Shikoku, Kyushu) [PA].
Trypanea gratiosa Ito 1952[2405]: 10.—Japan. Honshu: Yamasiro, Kyoto, Saga. HT ♀ UOPI. [6602770]
- guttistella.** Russia (Primorskiy, Kuril Is.), ne. China, Japan (Honshu) [PA].
Trypanea guttistella Hering 1951[2214]: 13.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602653]
Trupanea collina Ito 1984[2420]: 255.—Japan. Honshu: Kawati, Iwawakisan. HT ♀ UOPI. [6602827]
- helota.** Peru [NT].
Trupanea helota Hering 1941[2202]: 172.—Peru. Ayacucho: above Palco, 3240 m. ST ♂ ♀ ZSZMH. [6602578]
- hendeli.** Peru, Bolivia, Argentina, Brazil [NT].
Trypanea hendeli Hering 1941[2202]: 172.—Peru. Puno: Juliaca. ST ♂ ♀ SMT. [6602577]
Trypanea chilensis: Hendel 1914[2103]: 79.—misid. see Hering 1941: 172. [6605682]
- heronensis.** Australia (Qld.) [AU].
Trupanea heronensis Hardy & Drew 1996[1972]: 390.—Australia. Queensland: Heron I. HT ♂ ANIC. [6605954]
- horologii.** Kenya [AF].
Trupanea horologii Munro 1964[3518]: 52.—Kenya. Nairobi. HT ♂ SANC. [6603827]
- imperfecta.** USA & Mexico (California & Nevada S to Baja California Sur, Sonora & Veracruz) [NE, NT].
Urellia imperfecta Coquillett 1902[957]: 181.—USA. Arizona: Williams. HT ♂ USNM. [6600792]
- inaequabilis.** India (Punjab, Uttar Pradesh) [OR].
Trypanea inaequabilis Hering 1942[2207]: 22.—India. Uttar Pradesh: Bulandshahr. HT ♂ ZMHU. [6602610]
- infissa.** Zimbabwe [AF].
Trypanea infissa Munro 1964[3518]: 63.—Zimbabwe. Bulawayo. HT ♀ SANC. [6603837]
- inscia.** South Africa, Lesotho [AF].
Trypanea inscia Munro 1960[3513]: 410.—Lesotho. Mamathes. HT ♂ SANC. [6603812]
- insularum.** Canary Is. [PA].
Urellia insularum Becker 1908[374]: 141.—Canary Is. "allen drei Inseln" [Gran Canaria; La Palma; Tenerife]. ST ♂ ♀ ZMHU. [6600135]
- intermedia.** Botswana, South Africa [AF].
Trypanea intermedia Munro 1935[3471]: 611.—Botswana. Kalahari, Kuke Pan. ST ♂ ♀ NMP. [6605812]
intermedia Munro 1933[3464]: 43.—*Nomen nudum*. Not proposed in combination with generic name (Art. 11h, iii). [6603518]
- isolata.** Vietnam [OR].
Trupanea isolata Hardy 1973[1942]: 335.—Vietnam. Dalat, 1500 m. HT ♀ BBM. [6601615]
- jonesi.** Canada & USA (British Columbia, Alberta & Iowa S to California & w. Texas) [NE].
Trypanea jonesi Curran 1932[1043]: 6.—USA. Oregon: Corvallis. HT ♀ AMNH. [6600857]

- Trypanea microstigma* Curran 1932[1043]: 7.—USA. Oregon: Crater Lake, south rim, 7100 ft. HT ♀ AMNH. [6600858]
- joycei*. Hawaiian Is. (Maui, Oahu, Molokai) [AU].
- Trupanea joycei* Hardy 1980[1948]: 84.—USA. Hawaii: Oahu, Aina Haina. HT ♂ BBM. [6601888]
- keralaensis*. India (Kerala) [OR].
- Trupanea keralaensis* Agarwal, Grewal et al. 1989[39]: 93.—India. Kerala: Thekkady. HT ♀ INPC. [6604993]
- kraussi*. Liberia [AF].
- Trupanea kraussi* Munro 1964[3518]: 61.—Liberia. Robert's Field. HT ♂ SANC. [6603833]
- latinota*. Indonesia (Irian Jaya), Papua New Guinea [AU].
- Trupanea latinota* Hardy 1988[1965]: 74.—Papua New Guinea. Madang: Wanuma, 600-720 m. HT ♂ BBM. [6601860]
- lignoptera*. South Africa [AF].
- Trypanea lignoptera* Munro 1929[3460]: 399.—South Africa. Transvaal: Pretoria. ST ♂ ♀ SANC. [6603470]
- lilloi*. Argentina (La Rioja, Mendoza) [NT].
- Trupanea lilloi* Aczel 1953[23]: 383.—Argentina. La Rioja: Sanogasta. HT ♂ IML. [6600016]
- limpidapex*. Hawaiian Is. (Maui) [AU].
- Tephritis limpidapex* Grimshaw 1901[1818]: 46.—USA. Hawaii: Maui, Haleakala Crater. HT ♂ BMNH. [6601435]
- lipochaetae*. Hawaiian Is. (Oahu) [AU].
- Trupanea lipochaetae* Hardy 1980[1948]: 88.—USA. Hawaii: Oahu, Waimanalo. HT ♂ BBM. [6601889]
- longipennis*. New Zealand [AU].
- Trypanea longipennis* Malloch 1931[3126]: 398.—New Zealand. Cass. HT ♂ NZAC. [6603259]
- lunifrons*. South Africa [AF].
- Euaerista lunifrons* Bezzi 1924[470]: 530.—South Africa. Cape: East London. HT ♂ SANC. **N. Comb.** [6600412]
- lyneborgi*. New Ireland [AU].
- Trupanea lyneborgi* Hardy 1970[1940]: 131.—Papua New Guinea. New Ireland: Lemkamin, 900 m. HT ♂ UZMC. [6601526]
- maculaminuta*. Namibia, South Africa [AF].
- Trypanea maculaminuta* Munro 1929[3459]: 36.—Namibia. Kaokoveld, Warmbad, 10 mi. SE of Zesfontein. ST ♂ ♀ SAMCT. [6603482]
- maculigera*. USA (California) [NE].
- Trupanea maculigera* Foote 1960[1489]: 13.—USA. California: San Ysidro, Otay. HT ♀ USNM. [6601267]
- mallochi*. Mexico (Chihuahua, Nayarit, Mexico), Nicaragua, Costa Rica [NE, NT].
- Trypanea mallochi* Hering 1940[2187]: 50.—Costa Rica. 8 km. W of San Jose, Farm La Caja. HT ♂ DEI. [6602453]
- marginalis*. Hawaiian Is. (Hawaii) [AU].
- Trupanea marginalis* Hardy 1980[1948]: 90.—USA. Hawaii: Hawaii, Kilauea Iki, 3800 ft. HT ♂ BBM. [6601890]
- megaspila*. Hawaiian Is. (Hawaii) [AU].
- Trupanea megapila* Hardy 1980[1948]: 91.—USA. Hawaii: Hawaii, Pohakuloa, 6500 ft. HT ♂ BBM. [6601891]
- melantherae*. South Africa [AF].
- Trupanea melantherae* Munro 1964[3518]: 41.—South Africa. Natal: Umkomaas. HT ♂ SANC. [6603820]
- metoeca*. Peru, Chile, Argentina [NT].
- Trypanea metoeca* Hendel 1914[2103]: 77.—Peru. Cuzco, 4200 m.; & Mamara; Chile. Tarapaca: Arica. ST ♂ ♀ SMT, NMW. [6602044]
- mevarna*. USA (Tennessee & North Carolina S to Mississippi & Florida), Mexico (Guerrero), Puerto Rico [NE, NT].
- Trypeta mevarna* Walker 1849[4957]: 1023.—USA. Florida. LT ♀ BMNH. Lectotype designation by inference of holotype by Foote 1960: 17. [6604563]
- Trypeta solaris* Loew 1862[3033]: 84.—USA. Georgia. LT ♀ MCZ. Lectotype designation by inference of holotype by Foote 1960: 16. [6603100]
- Urellia maverna* Baker 1904[284]: 31.—missp. *mevarna* Walker. [6605620]
- modesta*. Chile [NT].
- Acinia modesta* Blanchard 1852[525]: 458.—Chile. Coquimbo. T A MNHNP. 1 female ST in MNHNP. **N. Comb.** [6600574]
- multisetosa*. Peru [NT].
- Trypanea multisetosa* Hering 1936[2167]: 330.—Peru. Cuzco: Cuzco, 3800-4000 m. HT ♂ SMT. [6602236]
- mutabilis*. Indonesia (Nusa Tenggara) [OR].
- Trypanea mutabilis* Hering 1941[2192]: 42.—Indonesia. Nusa Tenggara: e. Flores I., Geli Moetoe. ST ♂ ♀ MLUH, DEI. [6602485]
- neodaphne*. Paraguay, Uruguay [NT].
- Trypanea neodaphne* Malloch 1933[3130]: 286.—Uruguay. Montevideo. HT ♂ BMNH. [6603286]
- Trypanea neodaphne* var. *beta* Malloch 1933[3130]: 287.—Uruguay. Montevideo. HT ♂ BMNH. [6603287]
- Trypanea neodaphne* var. *gamma* Malloch 1933[3130]: 287.—Uruguay. Montevideo. HT A BMNH. [6603288]
- Urellia daphne*: Brethes 1908[607]: 370.—misid. see Malloch 1933: 286. [6605683]
- nigricornis*. USA & Mexico (Oregon & Montana S to Baja California, Sonora & New Mexico) [NE].
- Urellia nigricornis* Coquillett 1899[953]: 266.—USA. Colorado. HT ♂ USNM. [6600783]
- Tephritis daphne*: Knowlton & Cutler 1932[2695]: 111.—misid. See Foote et al. 1993: 441. [6605621]
- nigricornuta*. Argentina (Jujuy S to Corboda & Mendoza) [NT].
- Trypanea nigricornuta* Hering 1942[2207]: 23.—Argentina. Salta: 1200-2500 m. ST ♂ ♀ ZMHU. [6602611]
- Trypanea nigrocornuta* Aczel 1950[14]: 305.—missp. *nigricornuta* Hering. [6605623]
- nigripennis*. Hawaiian Is. (Hawaii) [AU].
- Trupanea nigripennis* Hardy 1980[1948]: 92.—USA. Hawaii: Hawaii, Kahaluu Forest, Kona side, Hualalai. HT ♂ BBM. [6601892]
- nigriseta*. s. Chile, Argentina [NT].
- Trypanea nigriseta* Malloch 1933[3130]: 283.—Argentina. Rio Negro: Bariloche. HT ♀ BMNH. [6603285]
- notata*. Australia (Qld., NSW) [AU].
- Trupanea notata* Hardy & Drew 1996[1972]: 393.—Australia. Queensland: Mt. Crosby. HT ♀ ANIC. [6605955]
- novarae*. Chile, Paraguay, Argentina, Brazil (Sao Paulo) [NT].
- Tephritis novarae* Schiner 1868[4296]: 269.—Chile. LT ♂ NMW. Lectotype designated by Hardy 1968: 142. [6604188]
- nubilata*. Chile (Tarapaca) [NT].
- Trypanea nubilata* Hering 1936[2167]: 330.—Chile. Tarapaca: Arica. HT ♀ SMT. [6602237]
- nudipes*. Brazil (Santa Catarina) [NT].
- Trypanea nudipes* Hering 1938[2178]: 191.—Brazil. Santa Catarina: Nova Teutonia, Correio Ita. HT ♂ BMNH. [6602330]
- nymphula*. Chile [NT].
- Acinia nymphula* Blanchard 1852[525]: 462.—Chile. Coquimbo: Arqueros. T A MNHNP. 1 male & 1 female ST in MNHNP. **N. Comb.** [6600581]
- obsoleta*. Chile [NT].
- Trypanea obsoleta* Hendel 1914[2103]: 77.—Chile. Palca. ST ♂ ♀ SMT, NMW. [6602045]
- ochthlera*. Kenya [AF].
- Trupanea ochthlera* Munro 1964[3518]: 62.—Kenya. Nairobi. HT ♂ SANC. [6603836]

- okinawaensis.** Japan (Ryukyu Is.) [OR].
Trypanea okinawaensis Shiraki 1968[4435]: 63.—Japan. Ryukyu Is.: Okinawa, Yogi. HT ♀ USNM. [6604351]
- omphale.** Chile [NT].
Trypanea omphale Hering 1936[2167]: 331.—Chile. Palea [Palca]. HT ♀ SMT. [6602238]
Trypanea omphale Stuardo 1946[4705]: 135.—missp. *omphale* Hering. [6605684]
- oppleta.** South Africa [AF].
Trypanea oppleta Munro 1964[3518]: 49.—South Africa. Cape: Jonkershoek, Stellenbosch. HT ♂ SANC. [6603824]
- opprimata.** Indonesia (Nusa Tenggara) [OR].
Trypanea opprimata Hering 1941[2192]: 43.—Indonesia. Nusa Tenggara: Lesser Sunda Is., Poeloe Endeh. HT ♂ MLUH. [6602486]
- orfila.** Ethiopia [AF].
Trypanea orfila Hering 1940[2187]: 57.—Ethiopia. Colubi. HT ♀ DEI. [6602459]
- ornum.** Kenya [AF].
Trypanea ornum Norrbom 1997[This publication].—n. n. *mutabilis* Munro 1964. **N. Name** [6605403]
Trypanea mutabilis Munro 1964[3518]: 71.—Kenya. Ngong Hills. HT ♂ SANC. Preocc. Hering 1941. [6603840]
Trypanea mutabilis f. *opipara* Munro 1964[3518]: 73.—*Nomen nudum*. Kenya. Ngong Hills. HT ♂ SANC. Form or variety proposed after 1960. [6603841]
Trypanea mutabilis f. *concisa* Munro 1964[3518]: 74.—*Nomen nudum*. Kenya. Magadi. HT ♂ SANC. Form or variety proposed after 1960. [6603842]
- pantosticta.** Hawaiian Is. (Hawaii) [AU].
Trypanea pantosticta Hardy 1980[1948]: 93.—USA. Hawaii: Hawaii, Kilauea, Makaopuhi. HT ♂ BBM. [6601893]
- paradaphne.** Brazil (Santa Catarina) [NT].
Trypanea paradaphne Hering 1953[2221]: 15.—Brazil. Santa Catarina: Nova Teutonia. HT ♂ BMNH. [6602709]
- paragoga.** Peru, Chile (Tarapaca) [NT].
Trypanea paragoga Hering 1936[2167]: 328.—Peru. Puno: L. Titicaca, Puno. HT ♂ SMT. [6602235]
- paraplesia.** Peru [NT].
Trypanea paraplesia Hendel 1914[2103]: 80.—Peru. Puno: Lake Titicaca, Puno. HT ♀ SMT. [6602052]
- patagonica.** Peru, Chile, Argentina [NT].
Urellia patagonica Brethes 1908[607]: 372.—Argentina. Buenos Aires: Carmen de Patagones. ST ♀ MACN. [6600627]
- paupercula.** Costa Rica [NT].
Trypanea paupercula Hering 1940[2187]: 51.—Costa Rica. 8 km. W of San Jose, Farm La Caja. HT ♀ DEI. [6602454]
- pekelo.** Hawaiian Is. (Molokai) [AU].
Trypanea pekelo Hardy 1980[1948]: 95.—USA. Hawaii: Molokai, Puu Kolekole. HT ♂ BBM. [6601894]
- pentheres.** Peru [NT].
Trypanea pentheres Hendel 1914[2103]: 79.—Peru. Cuzco: Cuzco, 4200 m. HT ♀ SMT. [6602050]
- pentziana.** South Africa [AF].
Trypanea pentziana Munro 1933[3464]: 42.—South Africa. Cape: 30 mi. SE of Colesberg; Orange Free: Fauresmith. ST ♂ ♀ SANC. [6603517]
- perkinsi.** Hawaiian Is. (Kauai) [AU].
Trypanea perkinsi Hardy 1980[1948]: 97.—USA. Hawaii: Kauai, Kokee, 3600 ft. HT ♂ BBM. [6601895]
- peruviana.** Peru [NT].
Trypanea peruviana Malloch 1942[3142]: 8.—Peru. Arequipa: Arequipa. HT ♂ USNM. [6603379]
- phrycta.** Peru [NT].
Trypanea phrycta Hendel 1914[2103]: 80.—Peru. Urubamba R., 3000 m. ST ♂ ♀ SMT, NMW. [6602051]
Trypanea phrycta Foote 1967[1508]: 57.—missp. *phrycta* Hendel. Attributed to “authors”. [6605783]
- pictofracta.** Zaire [AF].
Trypanea pictofracta Munro 1964[3518]: 51.—Zaire. Shaba: P N U [Parque Nacional l’Upemba], Mabwe, 585 m. HT ♂ MRAC. [6603826]
- platensis.** Paraguay, Argentina [NT].
Urellia platensis Brethes 1908[607]: 373.—Argentina. Buenos Aires; Paraguay. Villa Encarnacion. ST ♀ MACN. [6600628]
- plaumanni.** Brazil (Santa Catarina) [NT].
Trypanea plaumanni Hering 1940[2188]: 33.—Brazil. Santa Catarina: Nova Teutonia. HT ♀ BMNH. [6602469]
- pollens.** Uganda, Kenya [AF].
Trypanea pollens Munro 1957[3510]: 1042.—Kenya. Mt. Elgon, 10500-12500 ft. HT ♂ BMNH. [6603747]
- polyclona.** Cuba [NT].
Trypanea polyclona Loew 1873[3042]: 324.—Cuba. HT ♀ MCZ. [6603183]
- porteri.** Ecuador [NT].
Trypanea porteri Seguy 1933[4343]: 256.—Ecuador. Pajonales del Pichincha, 4000-4300 m. HT ♀ MNHNP. [6604226]
- proavita.** India (Tamil Nadu) [OR].
Trypanea proavita Hering 1939[2182]: 186.—India. Tamil Nadu: Trichinopolis. HT ♂ MNHNP. [6602420]
- prolata.** Australia (WA, SA, Qld., NSW, Vic.) [AU].
Trypanea prolata Hardy & Drew 1996[1972]: 395.—Australia. South Australia: 28 km. W Taillem Bend. HT ♂ ANIC. [6605956]
- prominens.** Kenya, Mozambique [AF].
Trypanea prominens Munro 1964[3518]: 58.—Kenya. Rabai. HT ♀ SANC. [6603830]
- propinqua.** Peru [NT].
Trypanea propinqua Hering 1941[2202]: 174.—Peru. Ica: Hacienda Huayuri. ST ♂ ♀ BMNH. ST in ZSZMH destroyed. [6602579]
- pseudoamoena.** Israel, Egypt (Sinai), Saudi Arabia [PA].
Trypanea pseudoamoena Freidberg 1974[1549]: 60.—Israel. n. Negev, Qeziot. HT ♂ TAU. [6601323]
- pseudodaphne.** Argentina (Salta), Brazil (Rio Grande do Sul) [NT].
Trypanea pseudodaphne Hering 1942[2207]: 24.—Brazil. Rio Grande do Sul. HT ♂ BMNH. [6602612]
- pseudovicina.** USA (California E to Kansas, S to Texas) [NE].
Trypanea pseudovicina Hering 1947[2213]: 12.—n. n. *texana* Hering 1942. [6602641]
Trypanea texana Hering 1942[2207]: 29.—USA. Texas: Dallas. HT ♂ ZMHU. Preocc. Malloch 1942. [6602618]
- pteralis.** India (Himachal Pradesh) [OR].
Trypanea pteralis Agarwal, Grewal et al. 1989[39]: 91.—India. Himachal Pradesh: Tatta Pani. HT ♂ INPC. [6604994]
- pubescens.** Peru, Bolivia, Argentina [NT].
Tephritis pubescens Kieffer & Jorgensen 1910[2670]: 433.—Argentina. cordilleras. ST ♂ ♀ Kieffer (destroyed). [6602871]
Trypanea fuscicubitalis Hering 1941[2202]: 171.—Peru. Puno: Julica; & Lake Titicaca, Puno. ST ♂ ♀ SMT. [6602576]
Trypanea patagonica: Hendel 1914[2103]: 80.—misid. See Hering 1941: 171. [6605685]
- pusilla.** Australia (WA, Qld.) [AU].
Trypanea pusilla Hardy & Drew 1996[1972]: 397.—Australia. Western Australia: Crossing Pool, Millstream. HT ♂ ANIC. [6605957]

- putata**. Brazil (Santa Catarina) [NT].
Trypanea putata Hering 1940[2188]: 33.—Brazil. Santa Catarina: Nova Teutonia. HT ♀ BMNH. [6602468]
- queenslandensis**. Australia (Qld.) [AU].
Trupanea queenslandensis Hardy & Drew 1996[1972]: 398.—Australia. Queensland: North West I., nr. Yeppoon. HT ♂ QMBA. [6605958]
- radifera**. Canada to Mexico (British Columbia & Manitoba S to Baja California Sur, Morelos & w. Texas) [NE].
Urellia radifera Coquillett 1899[953]: 267.—USA. Arizona: Tucson. HT ♂ USNM. [6600786]
Trypanea hebes Curran 1932[1043]: 9.—USA. Wyoming: Buck Creek. HT ♀ AMNH. [6600860]
- reducta**. Peru, Bolivia [NT].
Trypanea reducta Hendel 1914[2103]: 77.—Peru. Puno: Lake Titicaca, Puno; & Bolivia. La Paz: Lake Titicaca, Guaqui. ST ♂ SMT, NMW. [6602043]
- renschii**. Indonesia (Nusa Tenggara) [OR].
Trypanea renschii Hering 1941[2192]: 43.—Indonesia. Nusa Tenggara: Soembawa [Sumbawa I.], Sumbawa-Besar. HT ♀ MLUH. [6602487]
- repleta**. Cape Verde Is., Egypt, Eritrea [PA, AF].
Trypanea aucta var. *repleta* Bezzi 1918[456]: 45.—Eritrea. Ghinda. HT ♂ MCSNM. [6600310]
- richteri**. Iran [PA].
Trupanea richteri Hering 1956[2227]: 86.—Iran. Baluchestan: Iranshar. HT ♂ SMN. [6602733]
- rufa**. Papua New Guinea (Milne Bay) [AU].
Trupanea rufa Hardy 1988[1965]: 79.—Papua New Guinea. Milne Bay: Trobriand Is., Wawela. HT ♀ BBM. [6601861]
- sandoana**. Zaire, Tanzania [AF].
Trypanea sandoana Munro 1938[3485]: 172.—Zaire. Shaba: Sandoa. HT ♀ SANC. [6603607]
Trupanea sandoana Munro 1964[3518]: 63.—missp. *sandoana* Munro. [6605686]
- sarangana**. Indonesia (Java) [OR].
Trypanea sarangana Curran 1931[1041]: 4.—Indonesia. Java: Sarangan, summit of Mount Lawu, 10000 ft. HT ♂ AMNH. [6600844]
- sedata**. Kenya [AF].
Trupanea sedata Munro 1957[3510]: 1041.—Kenya. Mt. Elgon, 10500-12500 ft. HT ♂ BMNH. [6603746]
- semiguttata**. Ecuador [NT].
Tephritis semiguttata Becker 1919[379]: 196.—Ecuador. Casitagua. HT ♀ MNHNP. [6600158]
- setifrons**. Argentina (Buenos Aires) [NT].
Trypanea setifrons Malloch 1933[3130]: 288.—Argentina. Delta [probably Buenos Aires: Estacion Delta]. HT ♂ USNM. [6603290]
- shaula**. Pakistan [OR].
Trupanea shaula Dirlbek 1975[1136]: 3.—Pakistan. Kashmir: Karakoram, Haramosh. HT ♀ MMB. [6600884]
- signata**. Canada & USA (British Columbia E to Kansas, S to California & w. Texas) [NE].
Trupanea signata Foote 1960[1489]: 22.—USA. California: Los Angeles Co., Covina. HT ♀ LACM. Depository originally misstated as CAS (Arnaud 1979: 332). [6601268]
- simplex**. French Polynesia (Marquesas) [AU].
Trypanea simplex Malloch 1932[3129]: 146.—French Polynesia. Marquesas Is.: Hiva Oa, Atuona Valley, 330 ft. HT ♀ BBM. [6603274]
Trupanea simplicissima: Hardy & Foote 1989[1973]: 531.—misid. Not Meijere 1910 (Lauxaniidae); usage by Malloch 1929: 413 correct; hence, the synonymy by Hardy & Foote is a misidentification. [6601896]
- sirhindiensis**. India (Punjab) [OR].
Trupanea sirhindiensis Agarwal & Kapoor 1988[45]: 123.—India. Punjab: Patiala district, Sirhind. HT ♂ INPC. [6600073]
- solivaga**. Argentina (Salta) [NT].
Trypanea solivaga Hering 1942[2207]: 27.—Argentina. Salta: 2500 m. HT ♀ ZMHU. [6602616]
- spadix**. Nigeria, Zaire [AF].
Trupanea spadix Munro 1964[3518]: 61.—Nigeria. Oyo: Ibadan. HT ♀ BMNH. [6603835]
- stellata**. British Is. & Scandinavia E to Mongolia, S to North Africa, Middle East, Iran & India [PA, OR].
Musca stellata Fuesslin 1775[1629]: 56.—Switzerland. Zurich. T A ETHZ. ST lost (B. Merz, pers. comm.). [6601395]
Trupanea radiata Schrank 1795[4314]: 147.—Germany. Bavaria: Donau [Danube R.] moor, near Pottmes. T ♀ Unknown. [6604203]
Tephritis terminata Fallen 1814[1382]: 173.—Sweden. vid Sandhammar i Skane [Malmohus: near Sandhammaren]. T ♂ NRS. [6601246]
Urellia calcitrapae Robineau-Desvoidy 1830[4148]: 774.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604087]
Musca radiata Walckenaer 1802[4950]: 399.—France. Paris. T A Unknown. Preocc. Schrank 1795, Fabricius 1798. [6605459]
Tephritis terminata Fallen 1820[1384]: 13.—Sweden. Sandhammar [Malmohus: Sandhammaren]; aridis Esperod [Kristianstad: Asperod]; & Raflunda Scan. [Malmohus or Kristianstad]. ST ♂ ♀ NRS. Preocc. Fallen 1814. [6605175]
Musca stellata Roemer 1789[4164]: 84.—Switzerland. T A Unknown. Preocc. Fuesslin 1775. [6605463]
Musca radiata Fabricius 1798[1378]: 565.—France. Paris. T A UZMC. Preocc. Schrank 1795. [6605460]
- stenoptera**. Peru, Bolivia [NT].
Trypanea stenoptera Hendel 1914[2103]: 77.—Peru. Puno: Lake Titicaca, Puno; Tacna: Tacna [Tacna]; Bolivia. La Paz: Lake Titicaca, Guaqui; & Coroico. ST ♂ ♀ SMT, MNM. [6602046]
- stulta**. Indonesia (Nusa Tenggara) [OR].
Trypanea stulta Hering 1941[2192]: 42.—Indonesia. Nusa Tenggara: Soembawa [Sumbawa I.], Sumbawa-Besar. HT ♀ MLUH. [6602484]
- subsetosa**. South Africa [AF].
Trupanea subsetosa Munro 1964[3518]: 40.—South Africa. Cape: Jonkershoek, Stellenbosch. HT ♂ SANC. [6603819]
- superdecora**. Zaire, Uganda & Kenya to Namibia & South Africa, Reunion, Mauritius [AF].
Trypanea superdecora Bezzi 1924[470]: 570.—South Africa. Transvaal: Barberton. LT ♂ SANC. Lectotype designated by Munro 1964: 64. [6600449]
- swezeyi**. Hawaiian Is. [AU].
Tephritis swezeyi Bryan 1921[645]: 478.—USA. Hawaii: Oahu, Palolo; Olympus; Kaumuahona; & Pacific Hgts. ST ♂ ♀ BBM. [6600638]
- symmophora**. Chile (O'Higgins, Maule) [NT].
Trypanea symmophora Hering 1942[2207]: 27.—Chile. Maule: Cauquenes. HT ♂ ZMHU. [6602617]
- teitensis**. Kenya [AF].
Trupanea teitensis Munro 1964[3518]: 61.—Kenya. Teita Hills. HT ♂ SANC. [6603834]
- terryi**. Indonesia (Java) [OR].
Trupanea terryi Hardy 1988[1965]: 83.—Indonesia. Java: Dieng Plat, 2135 m. HT ♂ BBM. [6601862]
- tersa**. Zimbabwe [AF].
Trupanea tersa Munro 1964[3518]: 46.—Zimbabwe. Bulawayo. HT ♂ SANC. [6603823]

- texana.** USA & Mexico (California, Iowa & Louisiana, S to Chiapas) [NE, NT].
Trypanea texana Malloch 1942[3142]: 13.—USA. Texas: Arlington. HT ♂ USNM. [6603374]
- thuriferae.** Chile (Santiago) [NT].
Trupanea thuriferae Frias 1985[1590]: 369.—Chile. Santiago: Cerro San Cristobal. HT ♀ UChS. [6601372]
- tubulata.** Israel, Zambia, Mozambique, Namibia, Zimbabwe, South Africa [PA, AF].
Trupanea tubulata Munro 1964[3518]: 57.—South Africa. Transvaal: Njelele R., farm Joan. HT ♀ SANC. [6603829]
- tucumanensis.** Argentina (Tucuman) [NT].
Trypanea tucumanensis Malloch 1933[3130]: 288.—Argentina. Tucuman: San Pablo. HT ♂ USNM. [6603292]
- unimaculata.** New Zealand [AU].
Trypanea unimaculata Malloch 1931[3126]: 403.—New Zealand. Christchurch. HT ♀ NZAC. [6603268]
- unimaculosa.** Peru [NT].
Trypanea unimaculosa Hering 1941[2202]: 176.—Peru. Ayacucho: above Palco, 3240 m. HT ♂ ZSZMH. [6602575]
- vernoniae.** Thailand [OR].
Trupanea vernoniae Hardy 1973[1942]: 337.—Thailand. Bangkok, Bangpo. HT ♂ KUB. [6601616]
- vicina.** USA (California E to Texas; Georgia?) S to Baja California Sur & Guatemala [NE, NT].
Urellia vicina Wulp 1900[5219]: 427.—Mexico. Veracruz: Orizaba. LT ♀ BMNH. Lectotype designated by Foote 1965: 247. [6604817]
- viciniformis.** USA (Texas), Mexico (Puebla, Oaxaca) [NE].
Trupanea viciniformis Foote 1987[1518]: 432.—USA. Texas: Maverick Co., 15 mi. WSW Uvalde, Texas A&M Ranch. HT ♀ USNM. [6601295]
- vitiosa.** New Zealand [AU].
Trupanea vitiosa Foote 1989[1519]: 531.—n. n. *imperfecta* Malloch 1931. [6601299]
Trupanea imperfecta Malloch 1931[3126]: 403.—New Zealand. Otarama. HT ♀ NZAC. Preocc. Coquillett 1902. [6603266]
- vittigera.** New Zealand [AU].
Trypanea vittigera Malloch 1931[3126]: 400.—New Zealand. Mt. Arthur, 4500 ft. HT ♀ NZAC. [6603260]
- vulpina.** Argentina (Salta) [NT].
Trypanea vulpina Hering 1942[2207]: 31.—Argentina. Salta: Cachi, 2500 m. HT ♂ ZMHU. [6602622]
- watti.** New Zealand [AU].
Trypanea watti Malloch 1931[3126]: 403.—New Zealand. Cargill, Dunedin. HT ♂ NZAC. [6603267]
- wheeleri.** Canada to Mexico (British Columbia & Utah S to Baja California) [NE].
Trypanea wheeleri Curran 1932[1043]: 7.—USA. California: San Diego Co. HT ♀ AMNH. [6600859]
- xanthochaeta.** Namibia [AF].
Terellia xanthochaeta Munro 1929[3459]: 8.—Namibia. Kamanyab. ST ♂ ♀ SAMCT. [6603485]
Actinoptera maculifrons Hering 1938[2177]: 250.—Namibia. Okahandja. HT ♂ ZSZMH. [6602326]
- zonata.** Peru [NT].
Trypanea zonata Hendel 1914[2103]: 78.—Peru. Cuzco, 3700-4200 m.; & Puno: Lake Titicaca, Puna [Puno]. ST ♂ ♀ SMT, NMW. [6602049]
- Genus TRYPANARESTA**
- Trypanaresta* Hering 1940[2185]: 10, *Trypanea imitatrix* Hering (OD). [6600084]
- REFS—Malloch 1933[3130]: 278 ((*Tephritis*) key to 6 spp. [NT: Patagonia & s. Chile]); Hering 1940[2185]: 11 (key to 5 spp. [NT]); Hering 1941[2202]: 157 (key to 2 spp. (supplement to Hering 1940) [NT]).
- ameghinoi.** Argentina [NT].
Urellia ameghinoi Brethes 1908[608]: 471.—Argentina. Chubut: San Jorge. T ♀ MACN. ST apparently lost. **N. Comb.** [6600629]
- coelestina.** Brazil (Parana, Santa Catarina) [NT].
Trypanea coelestina Hering 1938[2178]: 192.—Brazil. Santa Catarina: Nova Teutonia, Correo Ita. HT ♂ BMNH. [6602331]
- delicatella.** Chile, Argentina [NT].
Acinia delicatella Blanchard 1852[525]: 459.—Chile. Coquimbo. T A MNHNP. 1 female ST in MNHNP. **N. Comb.** [6600575]
Trypanea aorista Hendel 1914[2103]: 82.—Chile. Valparaiso: Valparaiso. HT ♂ SMT. **N. Syn.** [6602055]
Trypanea tripuncta Malloch 1933[3130]: 281.—Argentina. Rio Negro: Bariloche. HT ♀ BMNH. **N. Syn.** [6603283]
Tephritis marisolae Frias 1988[1594]: 77.—Chile. Valparaiso: Algarrobo. HT ♂ UMCE. **N. Syn.** [6601373]
Acinia delicatella Aczel 1950[14]: 315.—missp. *delicatella* Blanchard. [6605754]
- difficilis.** Argentina (Mendoza) [NT].
Trypanea difficilis Malloch 1933[3130]: 280.—Argentina. Mendoza. HT ♀ BMNH. [6603282]
- dolores.** Brazil (Santa Catarina) [NT].
Trypanea dolores Hering 1938[2178]: 192.—Brazil. Santa Catarina: Nova Teutonia, Correo Ita. ST ♂ ♀ BMNH. **N. Comb.** [6602332]
- eugenia.** Mexico (Nayarit & Guanajuato) SE to Guatemala [NE, NT].
Urellia eugenia Wulp 1900[5219]: 427.—Mexico. Guerrero: Chilpancingo, 4600 ft. LT ♂ BMNH. Lectotype designated by Foote 1965: 247. **N. Comb.** [6604816]
- flava.** USA (coastal Oregon & California, Arizona E to w. Texas) S to Costa Rica [NE, NT].
Urellia flava Adams 1904[32]: 451.—USA. Arizona: Bill Williams Fork. HT ♀ UKaL. Type data (Foote 1962: 175). **N. Comb.** [6600060]
Euaestoides arnaudi Foote 1958[1481]: 291.—USA. California: San Mateo Co., Canada Road behind Belmont. HT ♀ USNM. **N. Syn.** [6601257]
- hestiae.** Argentina [NT].
Trypanea hestiae Hendel 1914[2103]: 82.—Argentina. Tucuman: Quebrada de Lules. HT ♀ MNM. [6602056]
- imitatrix.** Brazil (Sao Paulo to Santa Catarina), Argentina (Catamarca, Misiones) [NT].
Trypanea imitatrix Hering 1938[2178]: 193.—Brazil. Santa Catarina: Nova Teutonia, Correo Ita. ST ♂ ♀ BMNH. [6602333]
- miseta.** Brazil (Sao Paulo to Santa Catarina) [NT].
Trypanea miseta Hering 1938[2180]: 416.—Brazil. Santa Catarina: Nova Teutonia. HT ♂ BMNH. [6602318]
- plagiata.** Chile [NT].
Acinia plagiata Blanchard 1852[525]: 458.—Chile. southern provinces. T A MNHNP. 2 female ST in MNHNP. **N. Comb.** [6600573]
- scutellata.** Ecuador, Peru, Bolivia, n. Chile, Argentina [NT].
Acanthiophilus scutellatus Seguy 1933[4343]: 258.—Ecuador. Quito. HT ♂ MNHNP. **N. Comb.** [6604228]
- setulosa.** Chile (Los Lagos), Argentina (Rio Negro) [NT].
Trypanea setulosa Malloch 1933[3130]: 281.—Argentina. Rio Negro: L. Gutierrez. HT ♂ BMNH. **N. Comb.** [6603284]
- subaster.** Argentina (Rio Negro) [NT].
Trypanea subaster Malloch 1933[3130]: 280.—Argentina. Rio Negro: Bariloche. HT ♂ BMNH. [6603281]

- suspecta*. Chile (Santiago), Argentina (Rio Negro) [NT].
Trypanea suspecta Malloch 1933[3130]: 279.—Argentina. Rio Negro: L. Correntoso. HT ♀ BMNH. **N. Comb.** [6603280]
- thomsoni*. Bolivia, Argentina [NT].
Trypanea thomsoni Hendel 1914[2103]: 76.—n. n. *plagiata* Thomson 1869. **N. Comb.** [6602042]
Trypeta plagiata Thomson 1869[4809]: 583.—Argentina. Buenos Ayres [Buenos Aires]. T ♀ NRS. Preocc. Blanchard 1852. [6604520]
- titschacki*. Peru [NT].
Trypanaresta titschacki Hering 1941[2202]: 157.—Peru. Ayacucho: Sivia, 520 m. HT ♂ ZSZMH. [6602567]

Genus *TRYPANOCENTRA*

REFS.—Malloch 1939[3137]: 428 (key to 2 spp. [AU]); Hardy 1986[1962]: 166 (key to 11 spp. [AU])

Subgenus *CLUSIOMORPHA*

- Clusiomorpha* Hering 1941[2201]: 111, *Clusiosoma funebre* Hering (OD). [6600537]
- atrifacies*. Papua New Guinea (Eastern Highlands) [AU].
Trypanocentra atrifacies Hardy 1986[1962]: 173.—Papua New Guinea. Eastern Highlands: 48 km. E of Kainantu, Kassem [Kassam?], 1350 m. HT ♂ BBM. [6601784]
- biplectinata*. Papua New Guinea [AU].
Trypanocentra biplectinata Hardy 1986[1962]: 174.—Papua New Guinea. Morobe: Wau, 1250 m. HT ♂ BBM. [6601785]
- funebri*. Papua New Guinea [AU].
Clusiosoma funebre Hering 1941[2194]: 61.—Papua New Guinea. Morobe: Simbang [6°35'S 147°50'E]. HT ♂ MNM. [6602501]
- gressitti*. Indonesia (Irian Jaya) [AU].
Trypanocentra gressitti Hardy 1986[1962]: 176.—Indonesia. Irian Jaya: W of Swart [Ilim] Valley, Guega, 1200 m. HT ♂ BBM. [6601786]
- nigripennis*. Indonesia (Irian Jaya), Papua New Guinea, New Ireland, New Britain [AU].
Acanthoneura nigripennis Meijere 1913[3316]: 366.—Indonesia. Irian Jaya: Lorentz R., Alkmaar. HT ♀ ZMAN. Lectotype designated by Hardy 1986: 176 invalid. [6604918]
Clusiosoma tenuifemorale Hering 1941[2194]: 58.—Papua New Guinea. Madang: Friedrich-Wilhelms-Hafen [Madang, 5°13'S 145°48'E]. HT ♂ MNM. [6602498]
Clusiomorpha adustata Hering 1947[2213]: 3.—Papua New Guinea. New Britain: New Lauenburg [Duke of York I.]. HT ♀ BMNH. [6602645]
Trypanocentra adjusta Hardy 1986[1962]: 176.—missp. *adustata* Hering. [6601787]

Subgenus *TRYPANOCENTRA*

- Trypanocentra* Hendel 1914[2102]: 77, *nigripennis* Hendel (OD) = *atrifacies* Malloch. [6600538]
- atrifacies*. “Indischen-Archipel.”; Papua New Guinea? [AU].
Trypanocentra atrifacies Malloch 1939[3137]: 430.—n. n. *nigripennis* Hendel 1914. [6603352]
Trypanocentra nigripennis Hendel 1914[2102]: 77.—not stated [“Indischen Archipel.”]. LT ♀ NMW. Preocc. Meijere 1913 Lectotype, here designated, holotype female of *nigripennis* Hendel 1915 (see Hardy 1968: 128). [6601924]
Trypanocentra nigripennis Hendel 1915[2105]: 434.—“Indischen Archipel.” HT ♀ NMW. Preocc. Meijere 1913 & Hendel 1914; type data (Hardy 1968: 128). [6602078]

- longicornis*. Papua New Guinea (W. Highlands, Northern) [AU].
Trypanocentra longicornis Hardy 1986[1962]: 168.—Papua New Guinea. Western Highlands: Minj R. Valley, nr. Uinba, 6200 ft. HT ♂ ANIC. [6601781]
- mallochi*. Papua New Guinea (Morobe) [AU].
Trypanocentra mallochi Hardy 1986[1962]: 169.—Papua New Guinea. Morobe: Wau, 1150 m. HT ♂ BBM. [6601782]
- nigridorsalis*. Papua New Guinea [AU].
Clusiosoma nigridorsale Hering 1941[2194]: 59.—Papua New Guinea. Dilo. HT ♀ MNM. [6602499]
- nigrithorax*. Papua New Guinea, Australia (Qld.) [AU].
Trypanocentra nigrithorax Malloch 1939[3137]: 428.—Papua New Guinea. East Sepik: Wewak [3°33'S 143°38'E]. HT ♀ AMS. Depository misstated by Hardy 1986: 171. [6603350]
- tricuneata*. Papua New Guinea [AU].
Trypanocentra tricuneata Hardy 1986[1962]: 172.—Papua New Guinea. Morobe: Wau, 1200 m. HT ♂ BBM. [6601783]

Genus *TRYPANOPHION*

- Trypanophion* Bezzi 1924[469]: 91, *gigas* Bezzi (OD). [6600100]
- gigas*. Cameroon, Uganda, Zimbabwe [AF].
Trypanophion gigas Bezzi 1924[469]: 92.—Uganda. Entebbe; & Kampala. ST ♂ ♀ BMNH. [6600467]
Trypanophion vestigiale Hering 1941[2196]: 15.—Cameroon. Uam region, Bosum. HT ♂ ZMHU. [6602512]

Genus *TRYPETA*

- Trypeta* Meigen 1803[3305]: 277, *Musca artemisiae* Fabricius, Coquillett 1910[966]: 618 (SD). Designation of *Musca arctii* De Geer by Rondani 1870: 7 invalid, not an originally included species. [6600337]
Forellia Robineau-Desvoidy 1830[4148]: 760, *onopordi* Robineau-Desvoidy, Duponchel 1845[1271]: 676 (SD) = *artemisiae* Fabricius. [6600338]
Spilographa Loew 1862[3038]: 39, *Trypeta hamifera* Loew, Coquillett 1910[966]: 607 (SD) = *immaculata* Macquart. [6600339]
Heliotrypeta Richter & Kandybina 1985[4099]: 23, *Trypeta dorso-centralis* Richter & Kandybina (OD). Proposed as a subgenus. [6600465]
Trypeta Rondani 1870[4205]: 7, missp. *Trypeta* Meigen. [6600851]
Phorellia Rondani 1870[4205]: 7, missp. *Forellia* Robineau-Desvoidy. [6600847]
Trypeta Loew 1873[3042]: 329, missp. *Trypeta* Meigen. [6600897]
Siplographa Foote 1967[1508]: 53, missp. *Spilographa* Loew. Attributed to “authors”. [6600981]
Tripeta Foote 1984[1517]: 138, missp. *Trypeta* Meigen. Attributed to “authors”. [6600980]

REFS.—Wulp 1899[5216]: 406 (key to 3 spp. [NE: Mexico]); Hendel 1927[2107]: 77 (key to 4 spp. [PA]); Shiraki 1933[4432]: 270 (key to 3 spp. [PA, OR: Japan & Taiwan]); Hering 1937[2173]: 246 (key to 4 spp. [PA]); Hering 1938[2181]: 31 (key to 9 spp. [OR]); Foote 1960[1487]: 253 (revision of 4 spp. [NE: USA & Canada]); Richter 1970[4087]: 147 (key to 3 spp. [PA: e. Europe]); Ito 1984[2418]: 146 (key to 7 spp. [PA: Japan]); Kwon 1985[2802]: 72 (key to 2 spp. [PA: Korea]); Richter & Kandybina 1985[4099]: 20 (key to 9 spp. [PA]); White 1988[4235]: 40 (key to 3 spp. [PA: Britain]); Foote, Blanc & Norrbom 1993[1523]: 449 (key to 4 spp. [NE: USA & Canada]); Kapoor 1993[2600]: 54 (key to 2 spp. [OR: India]); Merz 1994[3343]: 112 (key to 3 spp. [PA: cent. Europe]).

- amanda.** Burma [OR].
Trypeta amanda Hering 1938[2181]: 38.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602368]
- apicalis.** Japan (Honshu) [PA].
Spheniscomyia apicalis Shinji 1939[4423]: 322.—Japan. Honshu: outskirts of Morioka, near Kuzakai Station. ST ♂ ♀ Shinji. [6604253]
- apicefasciata.** Burma [OR].
Trypeta apicefasciata Hering 1938[2181]: 39.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602370]
- arcifera.** Burma [OR].
Trypeta arcifera Hering 1938[2181]: 39.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602371]
- artemisiae.** n., cent. & e. Europe, Russia, Mongolia, n. China, Korea, Japan [PA].
Musca artemisiae Fabricius 1794[1377]: 351.—Daniae [Denmark]. T A UZMC. Type data (Zimsen 1964: 492). [6601213]
Tephritis interrupta Fallen 1814[1382]: 163.—Sweden. Skane [Kristianstads or Malmohus]. T ♂ NRS. [6601237]
Forellia onopordi Robineau-Desvoidy 1830[4148]: 761.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604063]
Trypeta flavida Zia 1938[5309]: 41.—China. ne. Gansu: Cheumenn [Yumen]; Tsien-ou [Tsienu]. ST ♂ ♀ IZAS. [6604854]
Tephritis interrupta Fallen 1820[1383]: 5.—Sweden. Scan. Esperod [Kristianstad: Asperod]. ST ♂ ♀ NRS. [6605794]
Spilographa onoperdi Becker 1905[370]: 113.—missp. *onopordi* Robineau-Desvoidy. [6605687]
- basifasciata.** Russia (Sakhalin) [PA].
Trypeta basifasciata Richter & Kandybina 1985[4099]: 25.—Russia. Sakhalin: Novoaleksandrovsk. HT ♂ ZISP. [6604041]
- beatifica.** Japan (Honshu) [PA].
Trypeta beatifica Ito 1984[2418]: 151.—Japan. Honshu: Sinano, Kamitoti [Kamikoti]. HT ♀ UOPJ. [6602807]
Trypeta beatifica Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604966]
- binotata.** Mongolia, Russia (Chitinskaya & Kamchatka to Primorskiy), China (Ningxia, Shanxi) [PA].
Trypeta binotata Zia 1938[5309]: 37.—China. Shanxi: Maoeullting; Ho-ye-ping-chan: Tsai-Tchang; Tsi-li-yu. ST ♂ ♀ IZAS. [6604852]
- buddha.** India (W. Bengal), Burma [OR].
Trypeta buddha Hering 1942[2206]: 278.—India. W. Bengal: Darjeeling. HT ♀ ZMHU. [6602586]
- choui.** China [PA].
Trypeta choui Chen 1948[814]: 101.—China. Sikong, Kongting. HT ♂ IZAS. [6600707]
- concolor.** Mexico (Jalisco & Michoacan to Veracruz) [NE].
Spilographa concolor Wulp 1899[5216]: 408.—Mexico. Distrito Federal: Mexico City. LT ♀ BMNH. Lectotype designated by Foote 1965: 239. [6604787]
- digesta.** Japan (Hokkaido, Honshu) [PA].
Trypeta digesta Ito 1984[2418]: 152.—Japan. Honshu: Sinano, Kamikoti. HT ♀ UOPJ. [6602808]
Trypeta digesta Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604968]
- dorsocentralis.** e. Russia (Amur, Primorskiy) [PA].
Trypeta dorsocentralis Richter & Kandybina 1985[4099]: 23.—Russia. Primorskiy: Spassk Dalny. HT ♂ ZISP. [6604040]
- flaveola.** e. Russia; Canada & USA (Alaska, Yukon & Alberta S to Colorado & Arizona) [NE, PA].
Trypeta flaveola Coquillett 1899[951]: 345.—Russia. Kamchatskaya: Commander Is., Bering I. HT ♀ USNM. [6600787]
Spilographa inaequalis Coquillett 1904[958]: 29.—USA. Nevada: Ormsby Co. HT ♀ USNM. [6600802]
- fractura.** USA (Oregon, Colorado, California, Arizona, New Mexico) [NE].
Spilographa fractura Coquillett 1902[956]: 125.—USA. New Mexico: White Mts., S fork Eagle Cr.; & Colorado. ST ♂ ♀ USNM. [6600799]
- hostilis.** Burma [OR].
Trypeta hostilis Hering 1938[2181]: 41.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602374]
- immaculata.** British Is. & Scandinavia S to France, Austria, Romania & Ukraine [PA].
Tephritis immaculata Macquart 1835[3073]: 467.—France. T ♂ MHNLI. [6603204]
Trypeta hamifera Loew 1846[3021]: 496.—Denmark. Copenhagen [Copenhagen] region. T ♂ ZMHU. [6603035]
- indica.** India (Sikkim, W. Bengal), Burma [OR].
Phorellia indica Hendel 1915[2105]: 448.—India. W. Bengal: Darjeeling. HT ♀ NMW. Type data (Hardy 1968: 128). [6602092]
- intermissa.** Germany [PA].
Trypeta intermissa Meigen 1826[3306]: 313.—Not stated [probably Germany. Stolberg]. T ♀ MNHNP? [6603427]
- luteonota.** Japan (Kyushu), Taiwan [PA, OR].
Trypeta luteonota Shiraki 1933[4432]: 274.—Taiwan. Shinchiku; Funkiko. ST ♂ ♀ NTU. [6604292]
- maculosa.** USA (California, Colorado, New Mexico) [NE].
Spilographa maculosa Coquillett 1899[953]: 261.—USA. Colorado. ST ♂ ♀ USNM. [6600772]
Zonosema dubia Johnson 1903[2505]: 102.—USA. New Mexico: Beulah. T ♂ ANSP. [6602838]
- oze.** Japan (Honshu) [PA].
Trypeta oze Ito 1984[2418]: 154.—Japan. Honshu: Simotuke, Oze. HT ♀ NIAS. [6602810]
Trypeta oze Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604967]
- pictiventris.** China [PA].
Trypeta pictiventris Chen 1948[814]: 101.—China. Sikong, Kongting. HT ♀ IZAS. [6600708]
- pseudozoe.** Burma [OR].
Trypeta pseudozoe Hering 1938[2181]: 43.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. See Hering 1941: 32 for correction to diagnosis. [6602378]
Trypeta pseudozoe Hering 1938[2181]: 43.—incosp. *pseudozoe* Hering. Automatic correction under Art. 32(d). [6605708]
- quadrangulifer.** e. Russia (Kurile Is.) [PA].
Trypeta quadrangulifer Richter & Kandybina 1985[4099]: 29.—Russia. Kurile Is., Kunashir I., Dubove. HT ♂ ZISP. [6604042]
- quaesita.** Japan (Hokkaido, Honshu) [PA].
Trypeta quaesita Ito 1984[2418]: 153.—Japan. Hokkaido: Kusiro, Akan. HT ♂ UOPJ. [6602809]
- rufata.** Mexico (Guerrero) [NE].
Spilographa rufata Wulp 1899[5216]: 407.—Mexico. Guerrero: Omilteme, 8000 ft. LT ♀ BMNH. Lectotype designated by Foote 1965: 239. [6604785]
- semipicta.** China (Sichuan) [PA].
Myiolia semipicta Zia 1939[5310]: 4.—China. Sichuan: Pehpei [Beibei]. HT ♂ IZAS. [6604865]

striata. Mexico (Guerrero) [NE].

Spilographa striata Wulp 1899[5216]: 406.—Mexico. Guerrero: Sierra de las Aguas Escondidas, 9500 ft. HT ♀ BMNH. [6604782]

Phorellia strigata Aczel 1950[14]: 251.—missp. *striata* Wulp. [6605755]

submicans. China (Gansu, Sichuan) [PA].

Trypeta submicans Zia 1938[5309]: 40.—China. se. Gansu: Cheumenn [Yumen]. ST ♀ IZAS. [6604853]

sumptuosa. Burma [OR].

Pseudacidia sumptuosa Hering 1938[2181]: 35.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602365]

thoracalis. China (Gansu) [PA].

Trypeta thoracalis Hendel 1934[2115]: 11.—China. s. Gansu. HT ♀ NRS? [6602203]

tortilis. Canada & USA (Alaska E to Quebec, S to California, New Mexico, Iowa & Pennsylvania) [NE].

Trypeta tortile Coquillett 1894[948]: 71.—USA. Washington. HT ♀ USNM. [6600757]

Acidia sigma Phillips 1923[3826]: 129.—USA. Maryland: Plummer's I. HT ♀ USNM. [6603994]

Trypeta angustigena Foote 1960[1487]: 258.—USA. California: San Simeon. HT ♀ USNM. [6601262]

trifasciata. Russia (Sakhalin), Japan (Honshu) [PA].

Trypeta trifasciata Shiraki 1933[4432]: 270.—Japan. Nagano-ken, Hakubasan; & Russia. Sakhalin: Kaiba-to. ST ♂ ♀ NTU. [6604291]

victrix. Burma [OR].

Trypeta victrix Hering 1938[2181]: 43.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602377]

zoe. n., cent. & e. Europe, w. & e. Russia, Korea, Japan [PA].

Trypeta zoe Meigen 1826[3306]: 315.—Germany. Stolberg. ST ♂ ♀ MNHNP. Attributed to Wiedemann. [6603429]

Musca perelegand Harris 1780[1999]: 74.—England. T A Unknown. [6601898]

Spilographa zoe var. *artemismicola* Hendel 1923[2106]: 398.—Germany. Bavaria: Donau-Auen [Au, near Danube R.]. ST ♂ ♀ NMW? [6602113]

Spilographa wiedemanni Hendel 1923[2106]: 397.—Germany. Kiel. LT ♂ NMW. Lectotype designation by inference of holotype by Hardy 1968: 123. [6602112]

Trypeta zoë Meigen 1826[3306]: 315.—incosp. *zoe* Meigen. Automatic correction under Art. 32(d). [6605707]

Musca perelegans Harris 1782[2000]: index.—missp. *perelegand* Harris. [6605454]

Acidia artemisiae: Walker 1835[4955]: 84.—misid. See Loew 1844: 318. [6605688]

Genus UDAMOLOBIUM

Udamolobium Hardy 1982[1954]: 90, *pictulum* Hardy (OD). [6600557]

pictulum. Papua New Guinea [AU].

Udamolobium pictulum Hardy 1982[1954]: 90.—Papua New Guinea. Morobe: Mt. Kaindi, 2500 m. HT ♀ BBM. [6601699]

Genus URELLIOSOMA

REFS.—Hendel 1927[2107]: 118 (key to 3 spp. [PA]); Freidberg & Kugler 1989[1571]: 145 (key to 2 spp. [PA: Israel & Sinai]).

Subgenus ALLOCRASPEDA

Allocraspeda Richter 1972[4088]: 1254, *Urelliosoma napaea* Richter (OD) = *atroptera* Dirlbek & Dirlbek. Proposed as a subgenus. [6600341]

atroptera. Russia (e. Siberia), Mongolia [PA].

Acinia atroptera Dirlbek & Dirlbek 1971[1147]: 10.—Mongolia. Tov: Nucht, Lok. Nr. 3-4 [15 km. SSW of Ulaanbaatar]. HT ♀ NMPC. [6600893]

Urelliosoma napaea Richter 1972[4088]: 1253.—Russia. s. Buryat Mongol: 7 km. S of Zakamensk, Khasura. HT ♀ ZISP. [6604025]

triste. China (Gansu) [PA].

Urelliosoma triste Chen 1938[811]: 93.—China. Gansu: Ha-si-tan. HT ♀ IZAS. [6600698]

Subgenus URELLIOSOMA

Urelliosoma Hendel 1927[2107]: 118, *Tephritis desertorum* Efflatoun (OD). [6600340]

REFS.—Hendel 1927[2107]: 118 (key to 3 spp. [PA]); Freidberg & Kugler 1989[1571]: 145 (key to 2 spp. [PA: Israel & Sinai]).

desertorum. Egypt [PA].

Tephritis desertorum Efflatoun 1924[1292]: 101.—Egypt. Eastern Desert, North Galala Hills [Gebel El Galala]. HT ♂ ESEE. [6601133]

guimari. Canary Is., North Africa [PA].

Urellia guimari Becker 1908[374]: 141.—Canary Is. Tenerife: Guimar. ST ♂ ♀ ZMHU. [6600136]

pulcherrimum. Israel, Egypt (Sinai), Saudi Arabia, Iran [PA].

Tephritis pulcherrima Efflatoun 1924[1292]: 102.—Egypt. Wadis Hoff & Hussein; 7th Tour, Suez Road; & Ezbet-el-Naghl. ST ♂ ♀ ESEE, DAC. [6601134]

Genus UROPHORA

REFS.—Foote & Blanc 1963[1521]: 89 (key to 2 spp. [NE: USA: California]); Richter 1970[4094]: 138 (key to 44 spp. [PA: e. Europe]); Steyskal 1979[4647]: 9 (key to 29 spp. [PA]) & 26 (keys to 85 spp. [NE NT]); Ito 1983[2415]: 25 (key to 4 spp. [PA: Japan]); Korneyev 1984[2714]: 62 (key to 4 spp. (tabular) [PA]); Korneyev 1987[2725]: 123 (key to 5 spp. [PA: e. Russia]); White & Clement 1987[5107]: 575 (key to 8 introduced spp. [NE]); White 1988[5103]: 33 (key to 7 spp. [PA: Britain]); White & Korneyev 1989[5115]: 327 (revision of 26 spp. [PA: w. Palearctic]); Freidberg & Kugler 1989[1571]: 54 (key to 7 spp. [PA: Israel & Sinai]); Korneyev & White 1991[2754]: 216 (key to 4 subgenera [PA]); Foote, Blanc & Norrbom 1993[1523]: 458 (key to 16 spp. [NE: USA & Canada]).

Subgenus EURASIMONA

Eurasimona Korneyev & White 1991[2754]: 217, *Trypeta stigma* Loew (OD). Proposed as a subgenus. [6600832]

fedotovae. Kazakstan [PA].

Urophora fedotovae Korneyev & White 1991[2754]: 222.—Kazakstan. Karatau Mts., 30 km. SW of Leont'ovo. HT ♀ UASK. [6605156]

stigma. Sweden & nw. Russia S to France, Hungary, Turkmenistan & Kirghizia [PA].

Trypeta stigma Loew 1840[3019]: 156.—Poland. Posen [Poznan]; & unstated loc. [Silesia]. ST ♂ ♀ ZMHU. Suspension of I.C.Z.N. rules required to validate usage. Type data (White & Korneyev 1989: 365). [6603000]

Trypeta unimaculata Roser 1840[4216]: 60.—Germany. Wurttemberg. ST ♂ ♀ SMN. Type data (White & Korneyev 1989: 365); also possible ST in ZMHU. [6604159]

Musca placida Muller 1764[**3448**]: 85.—Denmark. Fredericksdal. T A Muller. Has priority over *stigma*, but synonymy uncertain; type(s) lost (White & Korneyev 1989: 365). [6603462]

Subgenus *INUROMAESA*

Inuromaesa Korneyev & White 1991[**2754**]: 217, *Trypeta maura* Frauenfeld (OD). Proposed as a subgenus. [6600833]

maura. France, Germany & Ukraine S to Italy & Balkans, sw. Russia, China [PA].

Trypeta maura Frauenfeld 1857[**1537**]: 550.—Austria. near Wien [Vienna], Mauer. ST ♂ ♀ NMW. Type data (White & Korneyev 1989: 364). [6601306]

Euribia tecta Hering 1940[**2189**]: 2.—France. Lot: Douelle. HT ♀ BMNH. [6602447]

Subgenus *MYOPITORA*

Myopitora Korneyev & White 1991[**2754**]: 217, *shatalkini* Korneyev & White (OD). Proposed as a subgenus. [6600834]

shatalkini. Russia (Primorskiy) [PA].

Urophora shatalkini Korneyev & White 1991[**2754**]: 219.—Russia. Primorskiy: 40 km. SE Ussuri, Ussuri Preserve. HT ♂ ZMM. [6605155]

Subgenus *UROPHORA*

Urophora Robineau-Desvoidy 1830[**4148**]: 769, *Musca cardui* Linnaeus, Westwood 1840[**5081**]: 149 (SD). [6600342]

Euribia Meigen 1800[**3304**]: 36, *Musca cardui* Linnaeus, Hendel 1927[**2107**]: 49 (SD). Suppressed by I.C.Z.N. 1963: 339. Designation of *Musca artemisiae* by Coquillett 1910: 542 invalid, not one of species first associated with genus. [6600343]

Carpomya Rondani 1856[**4195**]: 111, *Musca arctii* De Geer (OD) = *solstitialis* Linnaeus. Preocc. Costa 1854. [6600289]

Euibia Foote 1984[**1517**]: 140, missp. *Euribia* Meigen. Attributed to “authors”. [6600982]

Tephritis: Hendel 1914[**2102**]: 90, misid. See Hendel 1927: 176. [6601004]

REFS.—Korneyev & White 1992[**2756**]: 688 (revision of 11 spp.[PA: e. Palearctic]); Merz 1994[**3343**]: 27 (key to 11 spp.[PA: cent. Europe])

affinis. France & Germany E to Ukraine & sw. Russia, S to Italy, Balkans, Turkey & Iran; introduced North America [NE, PA].

Trypeta affinis Frauenfeld 1857[**1537**]: 541.—Not stated [probably Germany (see p. 524) or Austria. Vienna area]. ST ♂ ♀ NMW. Type data (White & Korneyev 1989: 342). [6601302]

Urophora algira: Zwolfer 1965[**5348**]: 140.—misid. See White & Korneyev 1989: 340. [6605559]

affinis calcitrapae. Turkey, Lebanon, Israel, Egypt [PA].

Urophora affinis ssp. *calcitrapae* White & Korneyev 1989[**5115**]: 342.—Israel. Mt. Hermon, 1600 m. HT ♀ BMNH. [6604704]

anthropovi. Turkmenistan [PA].

Urophora anthropovi Korneyev & White 1992[**2756**]: 694.—Turkmenistan. 10 km. S of Ashkhabad. HT ♀ ZMM. [6605283]

aprica. Belgium, Sweden & Finland S to n. Italy, Bulgaria & Caucasus [PA].

Tephritis aprica Fallen 1814[**1382**]: 165.—not stated [Sweden?]. ST ♂ ♀ NRS. Cited Fabrician specimens also ST. [6601238]

Urophora centaureae var. *brunicornis* Robineau-Desvoidy 1830[**4148**]: 772.—not stated [probably France. Loire: Saint-Sauveur]. T A MNHNP (destroyed). [6604081]

Urophora scutellata Rondani 1870[**4205**]: 21.—Italy. montuosis agri brixianensis [Brescia]. HT ♀ MZLS. [6604129]

Tephritis aprica Fallen 1820[**1383**]: 7.—Sweden. Westrogothia [Ostergotland]; Scaniae [Kristianstad or Malmöhus]; or “Uplandia”. LT A NRS. Preocc. Fallen 1814; Lectotype designated by Persson 1958:111, restricted type locality & sex of LT not stated. [6605793]

Urophora centaureae: Robineau-Desvoidy 1830[**4148**]: 772.—misid. [6604083]

campestris. Japan (Honshu) [PA].

Urophora campestris Ito 1983[**2415**]: 28.—Japan. Honshu: Sinano, Yatugatake, 1260 m. HT ♂ UOPI. [6602782]

Euribia campestris Ito 1956[**2407**]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604956]

cardui. Britain & Sweden E to Ural Mts., S to n. Italy, Bulgaria, Syria, & Kazakhstan; introduced North America [NE, PA].

Musca cardui Linnaeus 1758[**2981**]: 600.—[France?]. LT ♀ Reaumur. Lectotype designated by White 1987: 102, female of Reaumur 1738, pl. 45, fig. 14, presumed lost. [6602992]

Scatophaga flexuosa Ahrens 1814[**58**]: 25.—Austria. T A Germar. ST possibly lost (White & Korneyev 1989: 348); also see Horn & Kahe 1935: 89. [6601396]

Urophora sonchi Robineau-Desvoidy 1830[**4148**]: 771.—France. near Paris, marsh of Bondy. T A MNHNP (destroyed). [6604082]

Urophora reaumurii Robineau-Desvoidy 1830[**4148**]: 770.—unknown. LT ♀ Reaumur. Lectotype designated by White & Korneyev 1989: 348, female of Reaumur 1738, pl. 45, fig. 14, presumed lost. [6604077]

chejudoensis. Korea [PA].

Urophora chejudoensis Kwon 1985[**2802**]: 56.—South Korea. Cheju: Chungmun. HT ♀ KUTK. [6602911]

christophi. sw. Russia [PA].

Urophora christophi Loew 1869[**3041**]: 14.—Russia. Sarepta region. LT ♀ ZMHU. Lectotype designated by Korneyev & White 1993: 238. [6603132]

congrua. France, s. Germany, Austria [PA].

Urophora congrua Loew 1862[**3038**]: 74.—Germany. Bavaria; & Austria. ST ♂ ♀ ZMHU. Type data (White & Korneyev 1989: 348). [6603119]

Trypeta aprica: Frauenfeld 1857[**1537**]: 543.—misid. See Hendel 1927: 42. [6605689]

coronata. Russia (Tatarstan) [PA].

Urophora coronata Bassov 1990[**335**]: 699.—Russia. Tatarstan: Elabuga, Kama R. floodplain. HT ♀ ZISP. [6605154]

cuspidata. n. & cent. Europe to w. Siberia & Caucasus [PA].

Trypeta cuspidata Meigen 1826[**3306**]: 328.—Not stated [Europe]. T ♀ MNHNP. Type data (White & Korneyev 1989: 349). [6603435]

digna. Mongolia [PA].

Urophora digna Richter 1975[**4093**]: 583.—Mongolia. Tov: Zaisan area, n. slope of Bogdo Ula Mt. HT ♀ ZISP. [6604030]

dzieduszyckii. Ukraine [PA].

Urophora dzieduszyckii Frauenfeld 1867[**1545**]: 498.—Not stated [Ukraine. Ternopol Prov., Zaleschitskiy, Bogdanivka?]. ST ♂ ♀ UASL, NMW. Type data (Korneyev & White 1992: 689), also ST in ZISP. [6601315]

Urophora wodzikii Frauenfeld 1867[**1545**]: 502.—incosp. *dzieduszyckii* Frauenfeld. Foote 1984: 141 (FR). [6605515]

egestata. Russia (e. Siberia), Mongolia, ne. China [PA].

Euribia egestata Hering 1953[**2221**]: 3.—China. Heilongjiang: Charbin [Harbin]. HT ♂ BMNH. [6602711]

Urophora ensata Richter 1975[**4093**]: 583.—Russia. Chitinsk: 25 km. NE of Olovyannaya. HT ♀ ZISP. [6604029]

Euribia stylata: Zia & Chen 1938[**5316**]: 56.—misid. [6605690]

- formosana**. Taiwan [OR].
Euribia formosana Shiraki 1933[4432]: 370.—Taiwan. Niitaka Prefecture. HT ♀ NTU. [6604303]
Euribia formosana Lin & Tseng 1974[2978]: 222.—missp. *formosana* Shiraki. [6605968]
- hermonis**. Israel, Iran [PA].
Urophora hermonis Freidberg 1974[1549]: 49.—Israel. Mt. Hermon, 2000 m. HT ♂ TAU. [6601317]
- hispanica**. s. France, Spain [PA].
Urophora affinis ssp. *hispanica* Strobl 1905[4700]: 358.—Spain. Barcelona: Malgrat. ST ♂ ♀ NMBA. [6604502]
Urophora affinis: Zwolfer 1965[5348]: 141.—misid. [6605618]
- hoenei**. China (Gansu, Beijing, Tianjin, Shandong, Shanghai) [PA].
Euribia hoenei Hering 1936[2166]: 55.—China. Shanghai. HT ♀ BMNH. [6602229]
Euribia bicoloricornis Zia 1937[5308]: 129.—China. Shandong: Tsinan [Jinan]. HT ♀ IZAS. [6604843]
Euribia hoenei Hering 1936[2166]: 55.—incosp. *hoenei* Hering. Automatic correction under Art. 32(d). [6605711]
Urophora hoenei Foote 1984[1517]: 142.—missp. *hoenei* Hering. Attributed to “authors”. [6605784]
- impicta**. sw. Russia, Turkmenistan, Afghanistan [PA].
Euribia impicta Hering 1942[2207]: 2.—Russia. near Sarepta, Had. LT ♀ ZMHU. Lectotype designated by Korneyev & White 1993: 244. [6602606]
- jaceana**. British Is. & Finland S to France, Italy, Romania & Ukraine, e. Rusaia; introduced e. Canada [NE, PA].
Euribia jaceana Hering 1935[2160]: 169.—Poland. Oder R., Crossen [Krosno-Odrzanskiel]. ST ♂ ♀ BMNH. Validated by I.C.Z.N. 1990:237, Opinion 1619 gave *jaceana* precedence over *conyzae*. [6602220]
Euribia conyzae Hering 1934[2157]: 310.—France. Paris, Seine-et-Oise, Lardy. ST ♂ ♀ BMNH. [6602210]
Euribia conyrac Hering 1934[2157]: 309.—incosp. *conyzae* Hering. Foote 1984: 141 (FR). [6605786]
Tephritis solstitialis: Zetterstedt 1849[5302]: 3344.—misid. See Persson 1958: 111. [6605785]
- jaculata**. s. Europe, Turkey, Caucasus [PA].
Urophora jaculata Rondani 1870[4205]: 18.—Italy. agri parmensis [Parma countryside]. LT ♀ MZLS. Lectotype designated by White & Clement 1987: 579. [6604126]
Urophora sirunaseva: Zwolfer 1969[5351]: 105.—misid. [6605558]
- japonica**. Japan (Hokkaido, Honshu) [PA].
Euribia japonica Shiraki 1933[4432]: 368.—Japan. Moji; Fukuoka; Tsugumi; Higashiyama; Sapporo. ST ♂ ♀ NTU. [6604302]
- kasachstanica**. Ukraine, Kazakstan, Uzbekistan, Tadzhikistan [PA].
Euribia kasachstanica Richter 1964[4082]: 287.—Kazakstan. Mt. Koksengir. HT ♂ ZISP. [6604020]
- korneyevi**. Ukraine [PA].
Urophora korneyevi White 1997[This publication].—n. n. *arctii* Korneyev & White 1993. N. Name [6605820]
Urophora arctii Korneyev & White 1993[2757]: 237.—Ukraine. Kherson: Kalanchak. HT ♀ UASK. Preocc. De Geer 1776. [6605285]
- longicauda**. sw. Russia, Armenia, Kazakstan, Uzbekistan, Kirghizia, Afghanistan [PA].
Euribia longicauda Hendel 1927[2107]: 44.—Russia. Astrakhan. ST ♂ ♀ ZSZMH. [6602126]
Euribia melanocera Hering 1938[2177]: 243.—Afghanistan. w. Hindu Kush, Banu-Ebene, Andarab, 2000-2500 m. HT ♀ BMNH. [6602319]
Urophora attingens: Ivannikov 1977[2426]: 32.—misid. [6605597]
- lopholomae**. Austria, Hungary, Moldova [PA].
Urophora lopholomae White & Korneyev 1989[5115]: 353.—Hungary. Budapest. HT ♀ BMNH. [6604705]
- mandschurica**. e. Russia, Mongolia, China [PA].
Euribia mandschurica Hering 1940[2189]: 3.—China. Heilongjiang: Maoershan. ST ♂ ♀ BMNH. [6602448]
- mauritanica**. Spain & Morocco to Israel [PA].
Urophora mauritanica Macquart 1851[3085]: 259.—Algeria. T ♀ UMO. Suspension of I.C.Z.N. rules required to validate usage. Type data (White & Korneyev 1989: 354). [6603241]
Trypeta macrura Loew 1855[3028]: 40.—Greece. ST ♂ ♀ ZMHU. [6603053]
Urophora lejura Rondani 1870[4205]: 19.—Italy. Apennine Mts. near Parma; & Sardinia. ST ♂ ♀ MZLS. Type data (White & Korneyev 1989: 354). [6604128]
Urophora sejuncta Becker 1907[372]: 390.—Tunisia. Tunis. ST ♂ ♀ ZMHU. [6600129]
Urophora algira Macquart 1843[3076]: 378.—Algeria. ST ♂ MHNLI. Has priority over *mauritanica*, but synonymy uncertain (White & Korneyev 1989: 353). [6603212]
- misakiana**. Japan (Honshu, Kyushu) [PA].
Trypeta misakiana Matsumura 1916[3220]: 418.—Japan. Honshu: Prov. Sagami, Misaki. T ♂ HUS. [6603387]
- neuenschwanderi**. Greece (Crete) [PA].
Urophora neuenschwanderi Freidberg 1982[1558]: 56.—Greece. Crete: Chania, Aerinos. HT ♀ TAU. [6601336]
- nigricornis**. Turkmenistan [PA].
Urophora nigricornis Hendel 1910[2095]: 106.—Turkmenistan. Upper Murgab. LT ♂ NMW. Lectotype designated by Hardy 1968: 128. [6601905]
- pauperata**. Georgia, Turkey [PA].
Euribia pauperata Zaitzev 1945[5277]: 377.—Georgia. Abkhasia: village Azhary; & Turkey. Kesalar, Erzerumsk village. ST ♀ IZTG? [6604818]
- phalolepidis**. Italy [PA].
Urophora phalolepidis Merz & White 1991[3347]: 341.—Italy. Puglia area, Mt. Gargano, S. Giovanni, 700 m. HT ♀ ETHZ. [6605157]
- pontica**. France, Turkey, sw. Russia, Kazakstan [PA].
Euribia dzieduszyckii ssp. *pontica* Hering 1937[2173]: 244.—Russia. Volgograd region, Sarepta. ST ♂ ♀ ZMHU. Male ST in BMNH, both ST from Sarepta (White & Korneyev 1989: 355). [6602264]
- quadrifasciata**. Europe & Kazakstan S to North Africa & Iran; introduced North America, Australia [NE, PA, AU].
Trypeta quadrifasciata Meigen 1826[3306]: 412.—Germany. Muhlheim am Rhein; & unstated European locality. ST ♂ ♀ MNHNP. Attributed to Wiedemann; type data (White & Korneyev 1989: 357). [6603437]
Urophora dejeanii Robineau-Desvoidy 1830[4148]: 772.—France. T A Dejean. [6604080]
Trypeta quadrifasciata Meigen 1826[3306]: 331.—incosp. *quadrifasciata* Meigen. Hardy & Foote 1989: 526 (FR). [6605546]
- quadrifasciata algerica**. s. France, Spain, Italy, Algeria [PA].
Euribia algerica Hering 1941[2191]: 52.—Algeria. between Bida & Medea. HT ♂ ZMHU. [6602580]
- quadrifasciata sjumorum**. Turkey, Caucasus & Kazakstan S to Cyprus, Israel & Pakistan [PA, OR].
Euribia sjumorum Rohdendorf 1937[4167]: 141.—Turkmenistan. Kara-Kala. HT ♀ ZISP. [6604102]
Euribia armeniaca Hering 1937[2173]: 245.—Armenia. HT ♀ ZMHU. [6602265]

- repeteki**. Cyprus, Turkey & Kazakstan to Israel, Iran & Afghanistan [PA].
Euribia repeteki Munro 1934[**3469**]: 265.—Turkmenistan. Bucharina, Repetek. LT ♀ DEI. Lectotype designated by Korneyev & White 1992: 698. [6603525]
Euribia angustifascia Hering 1956[**2227**]: 83.—Iran. Baluchestan: Iranshar, 800 m. HT ♀ SMN. [6602731]
Euribia ligulipalpis Hering 1961[**2232**]: 320.—Afghanistan. Aqtchah, 330 m. HT ♂ ZIL. [6602744]
Euribia phaeocera Hering 1961[**2232**]: 319.—Israel. HT ♂ TAU. [6602743]
- sachalinensis**. Russia (Sakhalin), Japan (Hokkaido, Honshu, Shikoku, Kyushu) [PA].
Euribia sachalinensis Shiraki 1933[**4432**]: 366.—Russia. Sakhalin: Konuma; & Kaibato. ST ♂ ♀ NTU. [6604301]
Euribia sachalinensis f. *angusta* Ito 1956[**2407**]: 24.—*Nomen nudum*. Published after 1930 without a description. [6604955]
Urophora sachalinensis f. *angusta* Ito 1983[**2415**]: 28.—*Nomen nudum*. Japan. Honshu: Ise, Osugidani. HT ♂ UOPJ. Form or variety proposed after 1960. [6604954]
- sciadocousiniae**. Turkmenistan [PA].
Urophora sciadocousiniae Korneyev & White 1992[**2756**]: 698.—Turkmenistan. Ashkhabad: Central Kopetdag, Chuli. HT ♀ UASK. [6605284]
Urophora melanocera: Korneyev 1983[**2712**]: 54.—misid. [6605577]
- sinica**. China (Gansu) [PA].
Euribia sinica Zia 1938[**5309**]: 56.—China. w. Gansu: Sin-long-chan [Sinlongchan]. ST ♂ IZAS. [6604860]
- sirunaseva**. Greece, Turkey, Moldova, Ukraine, Israel; Azerbaijan?; introduced North America [NE, PA].
Euribia sirunaseva Hering 1938[**2180**]: 397.—Moldova. Tighina [Bendery]. ST ♂ ♀ BMNH. [6602297]
Euribia siruna-seva Hering 1938[**2180**]: 398.—incosp. *sirunaseva* Hering. Automatic correction under Art. 32(d). [6605506]
Urophora algira: Steyskal 1979[**4647**]: 17.—misid. [6605564]
- solaris**. Tadzhikistan [PA].
Urophora solaris Korneyev 1984[**2714**]: 60.—Tadzhikistan. Gorno-Badakhshan, Khorog. HT ♀ ZMM. [6602877]
- solstitialis**. Britain, Scandianvia & Kazakstan S to France, Italy, Balkans & Iran; North Africa?; introduced North America, Australia, New Zealand [NE, PA, AU].
Musca solstitialis Linnaeus 1758[**2981**]: 601.—not stated. T ♂ LSL. Type data (White 1987: 104). [6602997]
Musca dauci Fabricius 1787[**1376**]: 353.—Sueciae [Sweden]. T A NRS? No ST in UZMC (Zimsen 1964: 485). [6601209]
Dacus hastatus Fabricius 1805[**1380**]: 276.—Daniae [Denmark. e Siellandia [Sjaelland?]]. T ♀ UZMC. Type data (Zimsen 1964: 484, White & Korneyev 1989: 360). [6601227]
Trypeta pugionata Meigen 1826[**3306**]: 330.—Not stated [Europe]. ST ♂ ♀ MNHNP. Type data (White & Korneyev 1989: 360). [6603436]
Urophora veruata Rondani 1870[**4205**]: 18.—Italy. Apennine Mts., near Parma. ST ♀ MZLS. Type data (White & Korneyev 1989: 360). [6604125]
Urophora sibynata Rondani 1870[**4205**]: 18.—Italy. sub-Apennine parts of Parma district. LT ♀ MZLS. Lectotype designated by Steyskal 1979: 22. [6604127]
Euribia sonderupi Hering 1940[**2189**]: 1.—Denmark. Falster, Norre Alslev. ST ♂ ♀ BMNH. [6602440]
Urophora femoralis Robineau-Desvoidy 1830[**4148**]: 770.—France. T ♀ Dejean. Synonymy uncertain. **N. Syn.** [6604078]
Musca arctii De Geer 1776[**1087**]: 42.—n. n. *solstitialis* Linnaeus 1758. [6600877]
- Euribia sonderupi* Hering 1940[**2189**]: 1.—incosp. *sonderupi* Hering. Automatic correction under Art. 32(d). [6605713]
- spatiosa**. Iran, Uzbekistan [PA].
Euribia spatiosa Becker 1913[**378**]: 643.—Iran. Baluchestan: Kuk-i-Tuftan Mt. HT ♀ ZISP. [6600146]
- spoliata**. Britain, Slovakia, Hungary, Switzerland [PA].
Tephritis spoliata Haliday 1838[**1860**]: 186.—Britain. Isle of Wight. T ♂ NMI. ST probably lost, only female in NMI (White & Korneyev 1989:360). [6601444]
- stalker**. Kazakstan, Turkmenistan, Uzbekistan, Tadzhikistan [PA].
Urophora stalker Korneyev 1984[**2714**]: 62.—Tadzhikistan. Kulyab region, Muminabad. HT ♀ ZMM. [6602878]
Urophora beikoi Korneyev 1985[**2719**]: 83.—Uzbekistan. Tashkent Obl., Chatkalskiy Reserve. HT ♀ ZMM. [6602887]
- stylata**. Throughout Europe E to Japan; introduced India, Pakistan, Australia, North America [NE, PA, OR, AU].
Musca stylata Fabricius 1775[**1374**]: 785.—Angliae [England]. T A UZMC. Type data (Zimsen 1964: 484; White & Korneyev 1989: 361). [6601204]
Trupanea cirsii Schrank 1803[**4315**]: 140.—Germany. Bavaria: Gern. T A Unknown. ST probably lost (White & Korneyev 1989: 361). [6604204]
Musca jacobaeae Panzer 1805[**3744**]: 22.—Germany. ST A Unknown. ST probably lost (White & Korneyev 1989: 361). [6603951]
Urophora venabulata Rondani 1870[**4205**]: 17.—Italy. ST ♂ ♀ MZLS. Type data (White & Korneyev 1989: 361). [6604124]
Urophora vulcanica Rondani 1870[**4205**]: 15.—Italy. near Mount Vesuvius. HT ♂ MZLS. [6604123]
Euribia pia Hering 1938[**2177**]: 244.—France. Lot: Douelle. HT ♂ BMNH. [6602320]
Trupanea leucacanthi Schrank 1803[**4315**]: 141.—n. n. *stylata* Fabricius 1775. [6604205]
Musca iacobaeae Panzer 1805[**3744**]: 22.—incosp. *jacobaeae* Panzer. Thompsom & Pont 1993: 84 (FR). [6605444]
Urophora stilata Lioy 1864[**2986**]: 1022.—missp. *stylata* Fabricius. [6605694]
Euribia leucanthi Hendel 1927[**2107**]: 46.—missp. *leucacanthi* Schrank. [6605693]
Urophora solstitialis: Robineau-Desvoidy 1830[**4148**]: 769.—misid. See Hendel 1927: 48. [6605692]
Urophora cardui: Robineau-Desvoidy 1830[**4148**]: 769.—misid. See Hendel 1927: 48. [6605691]
- syriaca**. Syria, Lebanon, Israel [PA].
Euribia syriaca Hendel 1927[**2107**]: 49.—n. Syria. LT ♀ NMW. Lectotype designation by inference of holotype by Hardy 1968: 129. [6602128]
Euribia erichschmidti Hering 1953[**2221**]: 2.—Syria. Nahr el Houssaine R., 5 km. from Tartous [Tartus]. HT ♂ BMNH. [6602710]
Euribia erichi-schmidti Hering 1953[**2221**]: 2.—incosp. *erichschmidti* Hering. Automatic correction under Art. 32(d). [6605806]
- tenuior**. Afghanistan, Turkmenistan [PA].
Urophora tenuior Hendel 1910[**2096**]: 311.—n. n. *tenuis* Hendel 1910. [6601907]
Euribia attingens Munro 1934[**3469**]: 263.—Turkmenistan. Bucharina, Repetek. HT ♀ DEI. [6603524]
Euribia heratensis Dirlbek & Dirlbek 1968[**1144**]: 173.—Afghanistan. Herat: Bala Murghab. HT ♀ MMB. [6600887]
Urophora tenuis Hendel 1910[**2095**]: 105.—Turkmenistan. Kungruily. LT ♂ NMW. Preocc. Becker 1907; Lectotype designated by Hardy 1968: 129. [6601903]

tenuis. China [PA].

Urophora tenuis Becker 1908[373]: 287.—China. Turkestan, Gaschun-Gobi, “Oase Satschou”. HT ♀ ZMHU. [6600119]

Urophora tennis Foote 1984[1517]: 145.—missp. *tenuis* Becker. Attributed to “authors”. [6605787]

terebrans. France, Spain, Germany & Poland S to Italy, Turkey & Caucasus [PA].

Trypeta terebrans Loew 1850[3025]: 53.—France or Spain. Pyrenaeen [Pyrenees Mts.]. T ♀ ZMHU. Type data (White & Korneyev 1989: 363). [6603046]

Trypeta eriolepidis Loew 1856[3029]: 52.—Austria. Karnten [Carinthia]. ST ♂ ♀ ZMHU. [6603056]

Euribia manni Hendel 1927[2107]: 45.—Austria. LT ♂ NMW. Lectotype designated by Hardy 1968: 128. [6602127]

Euribia approximata Hering 1938[2180]: 398.—Germany. Baden-Wurttemberg: Alb, Beuron. ST ♂ ♀ BMNH. [6602298]

Euribia satunini Zaitzev 1945[5277]: 382.—Turkey. Kars District, Lake Chaldyr, 1900 m. HT ♀ IZTG? Type data (Korneyev & White 1993: 236). [6604820]

Urophora aprica: Meigen 1826[3306]: 329.—misid. See Hendel 1927: 43. [6605696]

Urophora centaurae: Rondani 1870[4205]: 20.—misid. See Hendel 1927: 43. [6605695]

tsoii. Russia (Primorskiy) [PA].

Urophora tsoii Korneyev & White 1993[2757]: 241.—Russia. Primorskiy: Ussurijskiy, Krasnii Yar. HT ♀ UASK. [6605286]

variabilis. Moldova, Ukraine, s. Russia (Caucasus), Georgia, Turkmenistan [PA].

Urophora variabilis Loew 1869[3041]: 15.—Russia. ST ♂ ZMHU. [6603133]

Euribia kiritshenkoi Zaitzev 1945[5277]: 378.—Georgia. Tbilisi. LT ♀ ZISP. Lectotype designated by Korneyev & White 1993: 233. [6604819]

volkovae. Kazakstan, Uzbekistan [PA].

Urophora volkovae Korneyev 1985[2719]: 82.—Uzbekistan. Tashkent Obl., Chatkalskiy Reserve, Bashkyzylsai. HT ♂ ZMM. [6602886]

xanthippe. Ukraine, Kazakstan, Turkmenistan, Tadzhikistan, Afghanistan [PA].

Euribia xanthippe Munro 1934[3469]: 263.—Turkmenistan. Transcaspien, Ashkabad. HT ♂ DEI. [6603523]

Urophora xantippe Dirlbekova & Dirlbek 1980[1180]: 282.—missp. *xanthippe* Munro. [6605887]

UROPHORA Incertae Sedis**acompsa.** Peru [NT].

Tephritis acompsa Hendel 1914[2103]: 31.—Peru. Junin: Tarma, 2000-3000 m. HT ♂ SMT. [6601979]

adjacens. Peru [NT].

Euribia adjacens Hering 1941[2202]: 129.—Peru. Urubamba River, 3000 m. ST ♂ ♀ SMT. [6602560]

aerea. Guatemala, Costa Rica, Colombia [NT].

Euribia aerea Hering 1942[2205]: 479.—Costa Rica. Cartago: La Suiza de Turrialba. HT ♂ MNM. [6602540]

agnata. Colombia [NT].

Euribia agnata Hering 1942[2207]: 1.—Colombia. “Cordillere, terra fria”. HT ♀ ZMHU. [6602599]

agromyzella. Uganda, Malawi, Zimbabwe, South Africa [AF].

Urophora agromyzella Bezzi 1924[469]: 116.—Malawi. Cholo. HT ♀ BMNH. [6600460]

Urophora cilipennis Bezzi 1924[469]: 116.—Uganda. Mujenje. LT ♂ MNM. Lectotype designation by inference of holotype by Munro 1935: 137. [6600459]

bajae. Mexico (Baja California Norte) [NE].

Urophora bajae Steyskal 1979[4647]: 44.—Mexico. Baja California Norte: Ensenada. HT ♂ USNM. [6604401]

caurina. USA (Oregon, California, Texas) [NE].

Rhagoletis caurina Doane 1899[1189]: 182.—USA. Oregon: Corvallis. HT ♀ WSU. Type data (Foote 1966: 122, Zack 1984: 32). [6600919]

chaetostoma. Peru [NT].

Euribia chaetostoma Hering 1941[2202]: 130.—Peru. Cuzco: Cuzco, 3700 m. HT ♂ SMT. [6602561]

chimbazonis. Ecuador [NT].

Urophora chimbazonis Steyskal 1979[4647]: 45.—Ecuador. Chimborazo: 45 mi. S Alausi, 3000 m. HT ♂ CAS. [6604402]

claripennis. USA (Texas) [NE].

Urophora claripennis Foote 1987[1518]: 434.—USA. Texas: Cameron Co. HT ♀ USNM. [6601297]

columbiana. Colombia [NT].

Euribia columbiana Hering 1942[2207]: 2.—Colombia. HT ♀ ZMHU. [6602607]

conferta. Colombia [NT].

Trypeta conferta Walker 1853[4959]: 379.—Colombia. Bolivar: Cartagena. LT ♀ BMNH. Lectotype designation by inference of holotype by Foote 1964: 319. [6604586]

cordillerana. Colombia [NT].

Urophora cordillerana Steyskal 1979[4647]: 45.—Colombia. Cundinamarca: Guasca. HT ♂ USNM. [6604403]

cubana. Cuba [NT].

Urophora cubana Dirlbek & Dirlbekova 1973[1154]: 121.—Cuba. Santiago de Cuba: Sierra Maestra, Pico Turquino. HT ♀ MMB. [6600906]

cuzconis. Peru [NT].

Urophora cuzconis Steyskal 1979[4647]: 46.—Peru. Cuzco: Sacsayhuaman, 3900 m. HT ♂ BMNH. [6604404]

disjuncta. Ecuador [NT].

Urophora disjuncta Becker 1919[379]: 191.—Ecuador. Casitagua. ST ♂ ♀ MNHNP? [6600152]

euryparia. Colombia [NT].

Urophora euryparia Steyskal 1979[4647]: 49.—Colombia. Cundinamarca: Paramo de Cruz Verde, just E of Bogota, 3150 m. HT ♂ AMNH. [6604408]

eved. Ecuador [NT].

Urophora eved Steyskal 1979[4647]: 49.—Ecuador. Cotopaxi: 16 mi. N Latacunga, 3000 m. HT ♂ CAS. [6604407]

formosa. USA (California, Idaho, Utah) [NE].

Trypeta formosa Coquillett 1894[948]: 71.—USA. southern California [Los Angeles Co.]. ST ♂ ♀ USNM. [6600758]

funebri. Peru, Bolivia [NT].

Euribia funebri Hering 1941[2202]: 130.—Bolivia. La Paz: Sorata, 2300 m. HT ♀ SMT. [6602562]

Euribia funebri Aczel 1950[14]: 184.—missp. *funebri* Hering. [6605756]

grindeliae. USA (Texas) [NE].

Rhagoletis grindeliae Coquillett 1908[962]: 146.—USA. Texas: Clarendon. HT ♂ USNM. [6600806]

hodgesi. Ecuador, Peru [NT].

Urophora hodgesi Steyskal 1979[4647]: 50.—Ecuador. Pichincha: Quito. HT ♂ MSUEL. [6604409]

jamaicensis. Jamaica [NT].

Urophora jamaicensis Steyskal 1979[4647]: 51.—Jamaica. Clarendon: Fairburn Savanna. HT ♀ USNM. [6604411]

mamarae. Peru [NT].

Tephritis mamarae Hendel 1914[2103]: 32.—Peru. Mamara. ST ♀ NMW. [6601981]

- melanops.** Colombia, Venezuela [NT].
Urophora melanops Steyskal 1979[4647]: 51.—Venezuela. Cano del Tigre. HT ♂ USNM. [6604410]
- mexicana.** Mexico (Nayarit, Jalisco, Morelos, Guerrero) [NE, NT].
Urophora mexicana Steyskal 1979[4647]: 52.—Mexico. Jalisco: Guadalajara. HT ♀ CMP. [6604412]
- mora.** Peru [NT].
Euribia mora Hering 1941[2202]: 131.—Peru. Puno: Lake Titicaca, Puno. HT ♂ SMT. [6602563]
- paulensis.** Trinidad, Paraguay, Brazil (Sao Paulo) [NT].
Urophora paulensis Steyskal 1979[4647]: 53.—Brazil. Sao Paulo: Guarujá. HT ♀ USNM. [6604413]
- regis.** Puerto Rico [NT].
Urophora regis Steyskal 1979[4647]: 54.—Puerto Rico. 8 km. S Cayey, along Highway #15. HT ♀ USNM. [6604414]
- rufipes.** USA (California, Arizona) [NE].
Aleomyia rufipes Curran 1932[1042]: 2.—USA. Arizona: Coyote Mts. HT ♀ AMNH. [6600861]
- setosa.** USA (California) [NE].
Urophora setosa Foote 1987[1518]: 434.—USA. California: Kings Co., Tar Canyon. HT ♂ USNM. [6601296]
- simplex.** Ecuador [NT].
Urophora simplex Becker 1919[379]: 192.—Ecuador. Pinnllar [Pinullar?, see Foote 1967:54]. HT ♀ MNHNP? [6600154]
- stenoparia.** USA (California) [NE].
Urophora stenoparia Steyskal 1979[4647]: 56.—USA. California: Los Angeles, Glendale. HT ♂ USNM. [6604416]
- timberlakei.** USA (Oregon, Idaho, Utah, Colorado, California) [NE].
Urophora timberlakei Blanc & Foote 1961[522]: 81.—USA. California: San Bernardino Co., Morongo Valley. HT ♀ UCR. HT currently at CAS (Arnaud 1979: 332). [6600572]
- townsendi.** Peru [NT].
Urophora townsendi Bezzi 1923[465]: 4.—Peru. Rio Charape. HT ♂ ANSP. [6600373]
- tresmilía.** Guatemala [NT].
Urophora tresmilía Steyskal 1979[4647]: 57.—Guatemala. San Marcos: 11.5 km. NW of San Marcos (15°01'N 91°48'W), 3000 m. HT ♀ USNM. [6604418]
- trivirgulata.** Bahamas Is. [NT].
Urophora trivirgulata Foote 1960[1491]: 89.—Bahamas Is. Abaco Cays, Great Sale Cay. HT ♀ AMNH. [6601270]
- unica.** Ecuador [NT].
Urophora unica Becker 1919[379]: 191.—Ecuador. El Angel; Mirador; Chiles; & El Pelado. ST ♂ ♀ MNHNP. [6600151]

Genus VALENTIBULLA

- Valentibulla* Foote & Blanc 1959[1520]: 149, *Trypeta californica* Coquillett (OD). [6600744]
- REFS—Foote & Blanc 1959[1520]: 149 (revision of 3 spp. [NE]); Foote & Blanc 1963[1521]: 91 (key to 2 spp. [NE: USA: California]); Steyskal & Foote 1977[4656]: 154 (key to 5 spp. [NE]); Foote & Blanc 1979[1522]: 175 (key to 3 spp. (supplement to Steyskal & Foote 1977) [NE]); Foote, Blanc & Norrbom 1993[1523]: 476 (key to 6 spp. [NE: USA]).
- californica.** USA (California, Nevada, Idaho, Utah, New Mexico) [NE].
Trypeta californica Coquillett 1894[948]: 73.—USA. southern California [Los Angeles Co.]. HT ♀ USNM. [6600761]
Euaresta mundula Coquillett 1899[953]: 265.—USA. Utah: Pareas. HT ♂ USNM. [6600782]

- dodsoni.** USA (New Mexico) [NE].
Valentibulla dodsoni Foote 1987[1518]: 435.—USA. New Mexico: Sandoval Co., Jemez Valley. HT ♀ USNM. [6601298]
- munda.** Canada & USA (British Columbia & Colorado S to California & Arizona) [NE].
Euaresta munda Coquillett 1899[953]: 265.—USA. Nevada: Elko. HT ♀ USNM. Type data (Steyskal & Foote 1977: 153). [6600781]
Tephrella euarestoides Bates 1935[353]: 106.—USA. Colorado: Ridgeway. HT ♀ MCZ. [6600106]
- mundulata.** USA (California) [NE].
Valentibulla mundulata Foote 1979[1512]: 175.—USA. California: Trinity Co., head Coffee Creek, Mountain Meadow Ranch, 5100 ft. HT ♀ UCD. [6601286]
- steyskali.** USA (Washington, Idaho) [NE].
Valentibulla steyskali Foote 1977[1509]: 153.—USA. Idaho: 18 mi. E Boise, Lucky Park Reservoir. HT ♀ USNM. [6601280]
Valentibulla munda: Foote & Blanc 1959[1520]: 152.—misid. [6605578]
- thurmanae.** USA (California) [NE].
Valentibulla thurmanae Foote 1959[1484]: 154.—USA. California: Marin Co., Mt. Tamalpais. HT ♀ CAS. Type data (Arnaud 1979: 332). [6601300]

Genus VIDALIA

- Vidalia* Robineau-Desvoidy 1830[4148]: 719, *impressifrons* Robineau-Desvoidy (MO). Suspension of I.C.Z.N. rules required to validate usage. In interest of stability, the authors follow usage of Hancock & Drew 1995: 59, although identity of the type species is doubtful. [6600345]
- Pseudina* Malloch 1939[3137]: 446, *buloloae* Malloch (OD). [6600606]
- Sinaida* Hering 1940[2189]: 10, *alini* Hering (OD) = *armifrons* Portschinsky. [6600319]
- REFS—Hering 1937[2173]: 246 (key to 8 spp. (obsolete) [PA]); Munro 1938[3483]: 24 (notes on identity & 8 spp. [OR: India]); Ito 1984[2417]: 98 (key to 2 spp. [PA: Japan]); Hardy 1987[1963]: 364 (key to 3 spp. [OR, AU: Indonesia & New Guinea]); Wang 1991[4998]: 463 (key to 5 spp. [PA, OR]); Han, Wang & Kim 1994[1879]: 109 ((*Pseudina*) key to 15 spp. [PA, OR, AU]).
- accola.** India (Meghalaya), Burma, China (Sichuan), Japan (Shikoku, Kyushu) [PA, OR].
Trypeta accola Hardy 1973[1942]: 281.—Burma. Chin: Chin Hills, Mount Victoria [21°14'N 93°55'E], 2400-2800 m. HT ♀ BMNH. **N. Comb.** [6601604]
Vidalia satae Ito 1984[2417]: 102.—Japan. Kyushu: Osumi, Sata. HT ♂ UOJP. [6602793]
Vidalia satae Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604964]
- armifrons.** Russia (se. Siberia), China (Manchuria, Sichuan) [PA].
Spilographa armifrons Portschinsky 1892[3876]: 221.—Russia. Siberia, Raddewka. T ♂ ZISP. [6604006]
Sinaida alini Hering 1940[2189]: 11.—China. Manchuria, Kaolingtze. HT ♀ BMNH. [6602441]
- bicolor.** Papua New Guinea (Morobe) [AU].
Vidalia bicolor Hardy 1987[1963]: 364.—Papua New Guinea. Morobe: near Bulolo, Stony Logging Area, 765 m. HT ♂ BBM. [6601844]
- bidens.** Taiwan, w. Malaysia, Philippines [OR].
Vidalia bidens Hendel 1915[2105]: 443.—Taiwan. Toyenmongai; & Mount Hoozan. ST ♂ ♀ MNM. One ST possibly in NMW (Hardy 1968: 129). [6602087]

Acidiella mimica Hardy 1974[1943]: 182.—Philippines. Palawan: Pinigisan, Mantaligajan Mts., 600 m. HT ♀ UZMC. [6601642]
bululoeae. Papua New Guinea [AU].
Pseudina bululoeae Malloch 1939[3137]: 446.—Papua New Guinea. Morobe: Bulolo. HT ♂ AMS. [6603358]
ceratophora. India (W. Bengal) [OR].
Vidalia ceratophora Bezzi 1913[448]: 136.—India. W. Bengal: Siliguri. HT ♂ ZSI. [6600214]
Vidalia ceratophora Hardy 1977[1946]: 116.—missp. *ceratophora* Bezzi. Attributed to “authors”. [6605777]
diffluata. Burma [OR].
Trypeta diffluata Hering 1938[2181]: 41.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. **N. Comb.** [6602375]
dualis. Australia (n. Qld.) [AU].
Vidalia dualis Permkam & Hancock 1995[3795]: 1202.—Australia. Queensland: Cape York Peninsula, Iron Range, West Claudie R. HT ♂ QMBA. [6605872]
duplicata. China (Xizang) [PA].
Pseudina duplicata Han & Wang 1994[1876]: 114.—China. Xizang: Medog, 1450 m. HT ♂ IZAS. **N. Comb.** [6605328]
eritima. China (Xizang) [PA].
Pseudina eritima Han & Wang 1994[1876]: 115.—China. Xizang: Xigonghu, 1450 m. HT ♂ IZAS. **N. Comb.** [6605327]
fletcheri. India (W. Bengal, Sikkim, Meghalaya), Burma, China (Xizang) [PA, OR].
Vidalia fletcheri Munro 1938[3483]: 31.—India. Sikkim: Kurseong, 5000 ft. HT ♂ INPC. Type data (Kapoor 1994: 101). [6603613]
himalayensis. China (Xizang), India (W. Bengal, Meghalaya), Burma [OR].
Acidia himalayensis Bezzi 1913[448]: 142.—India. W. Bengal: e. Himalayas, Kurseong, 5000 ft. ST ♀ ZSI. **N. Comb.** [6600218]
Vidalia crassiseta Hering 1938[2181]: 36.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♂ NRS. [6602366]
impressifrons. Indonesia (Sumatra) [OR].
Vidalia impressifrons Robineau-Desvoidy 1830[4148]: 719.—Indes orientales [Indonesia?]. T A MNHNP (destroyed). Suspension of I.C.Z.N. rules required to validate usage. See Han, Wang & Kim 1994:104. [6604045]
Vidalia quadricornis Meijere 1916[3322]: 83.—Indonesia. Sumatra: Fort de Kock [Bukittinggi]. HT ♂ ZMAN. Type data (Hardy 1987: 368). Synonymy (Hancock & Drew 1995: 59) doubtful, but followed here to conserve usage of *Vidalia*. [6604942]
rohdendorfi. e. Russia (Primorskiy), Japan (Honshu) [PA].
Vidalia rohdendorfi Richter 1963[4081]: 770.—Russia. Primorskiy: Iman'po Station. HT ♂ ZISP. [6604019]
Vidalia furialis Ito 1984[2417]: 103.—Japan. Honshu: Sinano, Sigakogen. HT ♂ UOPJ. [6602794]
spadix. China (Fujian) [OR].
Vidalia spadix Chen 1948[814]: 100.—China. Fujian: Shao-Woo [Shaowu]. LT ♀ IZAS. Lectotype designated by Han, Wang & Kim 1994: 113. [6600706]
thailandica. Thailand [OR].
Vidalia thailandica Hancock & Drew 1994[1900]: 586.—Thailand. Chiang Mai: Mae Wang, Pang Chang. HT ♂ BMNH. [6605374]
tuberculata. Philippines (Palawan, Negros) [OR].
Vidalia tuberculata Hardy 1970[1940]: 108.—Philippines. Palawan: Balabac I., Dalawan Bay. HT ♂ UZMC. [6601517]

Genus WALKERAITIA

Walkeraitia Hardy 1986[1962]: 177, *Helomyza nivistriga* Walker (OD). [6600539]

nivistriga. Indonesia (Irian Jaya) [AU].

Helomyza nivistriga Walker 1861[4969]: 246.—Indonesia. Irian Jaya: Dorey [Manokwari]. LT ♀ BMNH. Lectotype designation by inference of holotype by Hardy 1966: 664. [6604644]

Genus XANIOSTERNUM

Xaniosternum Enderlein 1920[1330]: 336, *ophioneum* Enderlein (OD). [6600131]

ophioneum. Equatorial Guinea [AF].

Xaniosternum ophioneum Enderlein 1920[1330]: 336.—Equatorial Guinea. Nkolentangan. HT ♂ ZMHU. [6601171]

Genus XANTHACIURA

Xanthaciura Hendel 1914[2102]: 86, *Trypeta chrysur* Thomson (OD). [6600085]

Tetraciura Hendel 1914[2102]: 90, *quadrisetosa* Hendel (OD). [6600086]

Eucosmoptera Phillips 1923[3826]: 131, *Aciura testraspina* Phillips, Bates 1933[349]: 55 (SD). Proposed as a subgenus. [6600087]

Chrysaciura Aczel 1953[24]: 188, *bipuncta* Aczel (OD). [6600017]

Tetraciura Hendel 1914[2103]: 48, *quadrisetosa* Hendel (OD). Preocc. Hendel 1914: 90. [6600776]

Xanthaciura Hendel 1914[2103]: 45, *Trypeta chrysur* Thomson (OD). Preocc. Hendel 1914: 86. [6600774]

Eucosmoptera Aczel 1950[14]: 253, missp. *Eucosmoptera* Phillips. [6600934]

REFS—Malloch 1933[3130]: 266 (key to 7 spp. [NE, NT]); Hering 1941[2202]: 147 (key to 4 spp. [NT: Peru]); Aczel 1950[15]: 117 (key to 12 spp. [NE, NT]); Aczel 1952[18]: 253 (key to 15 spp. [NE, NT]); Foote, Blanc & Norrbom 1993[1523]: 482 (key to 4 spp. [NE: USA]).

aczeli. Galapagos Is. [NT].

Xanthaciura aczeli Foote 1982[1516]: 53.—Ecuador. Galapagos Is.: Santa Cruz I., 10 km. N Academy Bay, Bella Vista. HT ♀ BBM. [6601293]

biocellata. Peru, Bolivia, Paraguay, Argentina, s. Brazil, Uruguay [NT].

Trypeta biocellata Thomson 1869[4809]: 580.—Argentina. Buenos Ayres [Buenos Aires]. T ♀ NRS. [6604515]

bipuncta. Argentina (Tucuman) [NT].

Chrysaciura bipuncta Aczel 1953[24]: 188.—Argentina. Tucuman: Quebrada La Toma. HT ♂ IML. [6600028]

chrysur. USA (Florida), Mexico S to Argentina & Brazil [NE, NT].

Trypeta chrysur Thomson 1869[4809]: 580.—Brazil. Rio de Janeiro. ST ♂ ♀ NRS. [6604514]

Aciura erosa Enderlein 1911[1326]: 458.—Brazil. Santa Catharina [Santa Catarina]; & Colombia. ST ♀ PAN. [6601169]

Xanthaciura contracta Hering 1937[2172]: 298.—Costa Rica. 8 km. W of San Jose, Farm La Caja. ST ♂ ♀ BMNH. ZSZMH ST destroyed. [6602292]

Aciura insecta: Schiner 1868[4296]: 265.—misid. See Aczel 1950: 254. [6605757]

connexionis. USA (s. Texas) S to Costa Rica, Venezuela, USA (Florida), West Indies [NE, NT].

Xanthaciura connexionis Benjamin 1934[398]: 45.—USA. Florida: 3 mi. S Florida City. HT ♂ USNM. [6600164]

Xanthaciura brevinervis Malloch 1933[3130]: 269.—*Nomen nudum*. [6605547]

- excelsa.** Argentina (Tucuman) [NT].
Xanthaciura excelsa Aczel 1950[15]: 123.—Argentina. Tucuman: Tafi del Valle. HT ♀ IML. [6600002]
- flavicauda.** Nicaragua to Panama, Guyana, Trinidad [NT].
Xanthaciura flavicauda Aczel 1952[18]: 260.—Nicaragua. San Marcos. HT ♀ USNM. [6600012]
- insecta.** USA (Kentucky S to Texas & Florida), Mexico S to Venezuela, West Indies [NE, NT].
Trypeta insecta Loew 1862[3033]: 72.—Cuba. T ♀ MCZ. [6603091]
- major.** Peru [NT].
Xanthaciura major Malloch 1934[3132]: 79.—Peru. Santa Eulalia. HT ♂ USNM. [6603300]
- mallochii.** Costa Rica, Panama, Colombia, Ecuador, Peru, n. Argentina, s. Brazil [NT].
Xanthaciura mallochii Aczel 1950[15]: 125.—Argentina. Chaco: Colonia Benitez. HT ♂ IML. [6600003]
- phoenicura.** Mexico S to Peru & Brazil [NT].
Trypeta phoenicura Loew 1873[3042]: 269.—Brazil. ST ♂ ♀ ZMHU. [6603170]
- quadrisetos.** Bolivia, Brazil, Argentina [NT].
Tetraciura quadrisetos Hendel 1914[2102]: 90.—Bolivia. T A SMT, NMW. [6601947]
Tetraciura quadrisetos Hendel 1914[2103]: 48.—Bolivia. La Paz: Sorata, 2300 m. ST ♂ ♀ SMT, NMW. Preocc. Hendel 1914: 90. [6602008]
Tetraciura 4-setosa Hendel 1914[2103]: pl. 2.—incosp. *quadrisetos* Hendel. Automatic correction under Art. 32(d). [6602060]
Tetraciura quadrisetos Hendel 1914[2103]: 48.—incosp. *quadrisetos* Hendel. Foote 1967: 56 (FR). [6602007]
- speciosa.** Ecuador, Peru, Argentina [NT].
Xanthaciura speciosa Hendel 1914[2103]: 47.—Peru. Mamara. HT ♀ SMT. [6602006]
Xanthaciura speciosa Aczel 1950[14]: 256.—missp. *speciosa* Hendel. [6605758]
- stonei.** Panama [NT].
Xanthaciura stonei Aczel 1952[18]: 271.—Panama. El Cermen. HT ♂ USNM. [6600013]
- tetraspina.** USA (Utah, Michigan & Florida) S to Brazil, Bermuda, West Indies [NE, NT].
Aciura tetraspina Phillips 1923[3826]: 132.—USA. Missouri: Columbia. ST ♂ ♀ CUI. [6603995]
- thetis.** Bolivia [NT].
Xanthaciura thetis Hendel 1914[2103]: 47.—Bolivia. Songo. ST ♂ ♀ MNM, NMW. [6602005]
- unipuncta.** Guatemala to Colombia & Trinidad, Paraguay, Argentina, Brazil [NT].
Xanthaciura unipuncta Malloch 1933[3130]: 268.—Paraguay. Encarnacion. HT ♂ BMNH. [6603276]

Genus XANTHANOMOEIA

- Xanthanomoea* Bezzi 1924[470]: 492, *munroi* Bezzi (OD). [6600135]
Xanthanomoea Cogan & Munro 1980[882]: 534, missp. *Xanthanomoea* Bezzi. [6600814]
- munroi.** South Africa [AF].
Xanthanomoea munroi Bezzi 1924[470]: 493.—South Africa. Transvaal: Barberton. HT ♀ SANC. [6600395]

Genus XANTHOMYIA

- Xanthomyia* Phillips 1923[3826]: 140, *Trypeta platyptera* Loew (OD). [6600737]

- Paracarphotricha* Hendel 1927[2107]: 22, *Carphotricha alpestris* Pokorny, Hendel 1927[2108]: 208 (SD). **N. Syn.** [6600297]
Paranoeeta Shiraki 1933[4432]: 480, *Noeeta japonica* Shiraki (MO). Proposed as a subgenus. **N. Syn.** [6600281]
Paracarphotricha Dirlbek & Dirlbek 1971[1147]: 17, missp. *Paracarphotricha* Hendel. [660789]

REF.—Foote, Blanc & Norrbom 1993[1523]: 488 (key to 2 spp. [NE: USA & Canada]).

- alpestris.** Finland, Alps Mts., Russia (Siberia), Kazakstan, Mongolia & n. China [PA].
Carphotricha alpestris Pokorny 1887[3862]: 413.—Austria. Tirolian Alps, Stilsferjoch, near Franzenshohe, 2400 m. HT ♀ MNM? **N. Comb.** [6603997]
Carphotricha pseudoradiata Becker 1900[368]: 61.—Russia. Krasnoyarsk Terr.: Jeniseisk [Yeniseisk]. HT ♀ NRS. [6600108]
Campiglossa nigroscutellata Chen 1938[811]: 121.—China. Shanxi: Tsai-tchang; e. Mongolia, Ala-yingze. ST ♂ IZAS. [6600667]
- japonica.** e. Russia, China, Japan (Honshu, Kyushu) [PA].
Paranoeeta japonica Shiraki 1933[4432]: 480.—Japan. Honshu: Tokyo or Iwate. HT ♀ NTU. **N. Comb.** [6604323]
- nora.** Canada & USA (Alaska, Yukon, w. Northwest Terr., Idaho, Utah, Colorado, n. New Mexico) [NE].
Eutreta nora Doane 1899[1189]: 184.—USA. Idaho: Moscow Mt. HT ♀ WSU. Type data (Foote 1966: 124, Zack 1984: 32). [6600922]
- platyptera.** USA (Minnesota E to New Hampshire, S to Mississippi & South Carolina) [NE].
Trypeta platyptera Loew 1873[3042]: 306.—USA. Connecticut. HT ♀ MCZ. [6603178]

Genus XANTHORRACHIS

- Xanthorrhachis* Bezzi 1913[448]: 137, *annandalei* Bezzi (OD). [6600415]

REFS—Hardy 1988[1964]: 119 (key to 3 spp. [OR]); Kapoor 1993[2600]: 40 (key to 2 spp. [OR: India]).

- annandalei.** India, Burma, Thailand, Laos, Vietnam [OR].
Xanthorrhachis annandalei Bezzi 1913[448]: 138.—Burma. Karen: Dawna Hills, 2000-3000 ft. HT ♀ ZSI. [6600216]
Carpophthorella scutellomaculata Hering 1951[2214]: 7.—India. Kerala: Anamalai Hills, 4000-5000 ft. HT ♀ BMNH. [6602663]
- assamensis.** India (Assam, Arunachal Pradesh) [OR].
Xanthorrhachis assamensis Hardy 1973[1942]: 283.—India. Assam: N. Khasi Hills, lower ranges. HT ♂ BMNH. [6601605]
- sabahensis.** Malaysia (Sabah) [OR].
Xanthorrhachis sabahensis Hardy 1988[1964]: 119.—Malaysia. Sabah: Sandakan Bay (NW), Sepilok For. Res., 1-10 m. HT ♂ BBM. [6601850]

Genus XANTHORRACHISTA

- Xanthorrhachista* Hendel 1914[2102]: 81, *cephalia* Hendel (OD) = *alata* Becker. [6600136]
Xanthorrhachista Hendel 1928[2111]: 365, missp. *Xanthorrhachista* Hendel. [6600838]

- alata.** Zaire, Kenya [AF].
Acidia alata Becker 1909[376]: 119.—Kenya. Lumbwa. HT ♀ MNHNP. [6600144]
Xanthorrhachista cephalia Hendel 1914[2102]: 81.—East Africa. T A NMW. [6601933]

Aciura alata Becker 1910[377]: 28.—Kenya. Lumbwa. HT ♀ MNHNP. Preocc. Becker 1909. [6605038]

Genus *XARNUTA*

Xarnuta Walker 1856[4960]: 28, *leucotelus* Walker (MO). [6600540]

REFS—Hardy 1973[1942]: 118 (key to 5 spp. [OR, AU]); Hardy 1986[1962]: 179 (key to 7 spp. [OR, AU]); Permkam & Hancock 1995[3795]: 1130 (revision of 2 spp. [AU: Australia]).

confusa. Papua New Guinea, Australia (n. Qld.), Solomon Is. [AU].

Xarnuta confusa Malloch 1939[3135]: 261.—Solomon Is. Malaupaina, Three Sisters. HT ♀ BMNH. [6603329]

cribralis. Papua New Guinea, Australia (n. Qld.), New Britain [AU].

Xarnuta cribralis Hering 1941[2194]: 57.—Papua New Guinea. Central: Kapakapa. ST ♂ ♀ MNM. [6602497]

fenestellata. Azerbaijan [PA].

Xarnuta fenestellata Hering 1947[2213]: 3.—Azerbaijan. Talysch region, Caspian Sea. HT ♂ BMNH. [6602646]

inopinata. Azerbaijan [PA].

Xarnuta inopinata Hering 1940[2185]: 2.—Azerbaijan. Caspian Sea region, Talysch. ST ♂ ♀ ZSBS. [6602433]

lativentris. Indonesia (Sulawesi) [OR].

Trypeta lativentris Walker 1860[4966]: 158.—Indonesia. Sulawesi: Makassar [Ujung Padang]. LT ♂ BMNH. Lectotype designation by inference of holotype by Hardy 1959:215. [6604628]

leucotela. Sri Lanka, Thailand, Laos, Singapore, Philippines, Malaysia (Sabah), Indonesia (Sumatra, Java, Maluku, Irian Jaya) [OR, AU].

Xarnuta leucotelus Walker 1856[4960]: 28.—Singapore. ST ♂ ♀ BMNH. Type data (Hardy 1959: 228), inference of HT invalid. [6604598]

Oxyphora malaica Schiner 1868[4296]: 274.—Ceylon [Sri Lanka]. HT ♂ NMW. HT not found by Hardy (1968: 144). [6604196]

obsoleta. Indonesia (Java), Malaysia (Sarawak) [OR].

Tephritis obsoleta Wiedemann 1824[5133]: 53.—Indonesia. Iava [Java]. T ♀ UZMC. Type data (Zimsen 1954: 28). [6604714]

Xarnuta morosa Meijere 1914[3319]: 198.—Indonesia. Java: Batavia [Jakarta]. HT ♂ ZMAN. Type data (Hardy 1986: 183). [6604925]

sabahensis. Malaysia (Sabah) [OR].

Xarnuta sabahensis Hardy 1986[1962]: 184.—Malaysia. Sabah: 19 km. N of Kalabakan, forest camp, 60 m. HT ♀ BBM. [6601789]

stellaris. Philippines, New Guinea, New Ireland, Solomon Is. [OR, AU].

Xarnuta stellaris Hardy 1970[1940]: 85.—Philippines. Palawan: Uring Uring, Brooke's Point. HT ♀ UZMC. Type data (Hardy 1974: 94). [6601532]

Genus *XENOCHAETA*

Xenochaeta Snow 1894[4527]: 166, *dichromata* Snow (MO). [6600738]

REFS—Foote 1960[1494]: 109 (key to 2 spp. [NE]); Foote & Blanc 1979[1522]: 177 (key to 2 spp. [NE]); Foote, Blanc & Norrbom 1993[1523]: 490 (key to 2 spp. [NE]).

aurantiaca. USA (Washington, Utah, California) [NE].

Eutreta aurantiaca Doane 1899[1189]: 185.—USA. Washington: Whidby I. HT ♀ WSU. Type data (Foote 1966: 122, Zack 1984: 32). [6600923]

dichromata. Canada (British Columbia), USA (Washington, Montana, Oregon, California) [NE].

Xenochaeta dichromata Snow 1894[4527]: 166.—USA. Oregon: Mt. Hood. HT ♂ UKaL. Type data (Foote 1962: 173). [6604372]

Genus *XENODORELLA*

Xenodorella Munro 1967[3520]: 13, *mira* Munro (OD). [6600137]

Xenodorella Munro 1967[3520]: 13, incosp. *Xenodorella* Munro, by present revision. [6600844]

mira. Namibia [AF].

Xenodorella mira Munro 1967[3520]: 13.—Namibia. Namib Game Park, Hotsas Bore. HT ♀ SANC. [6603849]

Genus *XENOSOPHIRA*

Xenosophira Hardy 1980[1949]: 157, *invibrissata* Hardy (OD). [6600558]

invibrissata. Papua New Guinea [AU].

Xenosophira invibrissata Hardy 1980[1949]: 158.—Papua New Guinea. Eastern Highlands: Kassam Pass, 1550 m. HT ♀ BBM. [6601686]

vibrissata. Papua New Guinea [AU].

Xenosophira vibrissata Hardy 1980[1949]: 159.—Papua New Guinea. Morobe: Huon Peninsula, Salawaket Range, Tuwep, 1350 m. HT ♂ BBM. [6601687]

Genus *XYPHOSIA*

Xyphosia Robineau-Desvoidy 1830[4148]: 762, *cirsiorum* Robineau-Desvoidy, Desmarest 1849[1123]: 332 (SD) = *miliaria* Schrank. See Evenhuis & Thompson 1990: 239. [6600346]

Trichoxyphosia Hendel 1927[2108]: 138, *Trypeta laticauda* Meigen (OD). Proposed as a subgenus. [6600645]

Xiphosia Lioy 1864[2986]: 1023, missp. *Xyphosia* Robineau-Desvoidy. [6600830]

REFS—Hendel 1927[2108]: 138 (key to 4 spp. [PA]); Richter 1970[4087]: 155 (key to 3 spp. [PA: e. Europe]); Merz 1994[3343]: 80 (key to 2 spp. [PA: cent. Europe]).

conspicua. Turkey, Caucasus [PA].

Oxyphora conspicua Loew 1869[3041]: 16.—Russia. T ♀ ZMHU. [6603135]

laticauda. France, Switzerland, Austria, Hungary, Ukraine, Armenia [PA].

Trypeta laticauda Meigen 1826[3306]: 339.—Austria. T ♀ NMW. ST probably destroyed (Pont 1986). [6603443]

Trypeta schaefferi Frauenfeld 1857[1537]: 552.—Austria. Modling; Alpleck; & Schneeberg. ST ♂ ♀ NMW. [6601307]

Trypeta schaefferi Frauenfeld 1857[1537]: 540.—incosp. *schaefferi* Frauenfeld. Automatic correction under Art. 32(d). [6605705]

Xyphosia schaefferi Schiner 1858[4294]: 679.—missp. *schaefferi* Frauenfeld. [6605697]

malaisei. Burma, Thailand, Laos [OR].

Xyphosia malaisei Hering 1938[2181]: 52.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602390]

miliaria. Europe (except Spain) E to w. Siberia S to Caucasus & Mongolia [PA].

Musca miliaria Schrank 1781[4313]: 476.—Austria. Pratter [Vienna, Prater]. T A Unknown. Specimens of Geoffroy 1762 are also ST. [6604202]

Xyphosia cirsiorum Robineau-Desvoidy 1830[4148]: 762.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). [6604066]

Trypeta meridionalis Costa 1854[972]: 85.—Italy. Sicily: near Neapolim [Naples], hills of Camaldoli. ST A IZUSN? [6600817]

Xyphosia miliaria ssp. *balcanica* Drensky 1943[1211]: 108.—Bulgaria. cent. Stara Planina Mts., under Mt. Ambariza [Levski]. ST ♂ ♀ NMNHS. [6600944]

Trupanea sphaerocephali Schrank 1803[4315]: 145.—n. n. *miliaria* Schrank 1781. Proposed as replacement name for 2 nominal species; *miliaria* selected by present revision as replaced name; see Schiner 1858:672. [6604210]

Musca arcuata Fabricius 1782[1375]: 451.—Germany. Kiliae [Kiel]. T A UZMC. Preocc. Linnaeus 1758; type data (Zimsen 1964: 485). [6601207]

Oxyphora miliaria Becker 1905[370]: 314.—missp. *miliaria* Schrank. [6605698]

Tephritis arnicae: Fallen 1814[1382]: 167.—misid. See Hendel 1927: 139. [6605699]

Trypeta flava: Loew 1844[3020]: 363.—misid. See Schiner 1858: 672. [6605700]

miliaria orientalis. Poland, Ukraine, ne. China [PA].

Xyphosia miliaria ssp. *orientalis* Hering 1936[2168]: 184.—China. Heilongjiang: Charbin [Harbin]. ST ♂ ♀ BMNH. [6602244]

miliaria punctipennis. Kazakstan, Central Asia [PA].

Xyphosia miliaria var. *punctipennis* Hendel 1927[2108]: 140.—Kazakstan. Semirjetschensk, Ili region, near Djarkent, Burchan village. HT ♂ ZSZMH. [6602154]

punctigera. e. Russia, Korea, Japan (Hokkaido to Kyushu) [PA].

Tephritis punctigera Coquillett 1898[950]: 338.—Japan. ST ♂ USNM. [6600768]

Genus YPSILOMENA

Ypsilomena Munro 1947[3496]: 153, *Spheniscomyia compacta* Bezzi (OD). [6600159]

compacta. Kenya, Zimbabwe, South Africa [AF].

Spheniscomyia compacta Bezzi 1924[470]: 515.—Zimbabwe. Salisbury [Harare]; & South Africa. Transvaal: Barberton. ST ♀ SAMCT. also ST in SANC. [6600405]

Genus ZACERATA

Zacerata Coquillett 1924[967]: 64, *asparagi* Coquillett (OD). [6600138]

asparagi. Tanzania, South Africa; Angola? [AF].

Zacerata asparagi Coquillett 1924[967]: 64.—South Africa. Cape: Cape of Good Hope, Worcester. HT ♂ USNM. HT designation by Aldrich in Coquillett 1924: 65. [6600813]

Genus ZONOSEMATA

Zonosemata Benjamin 1934[398]: 17, *Trypeta electa* Say (OD). [6600088]

REFS—Bush 1965[681]: 307 (revision of 5 spp. [NE, NT]); Steyskal 1975[4640]: 231 (key to larvae of 2 spp. [NE]); Hernandez-Ortiz 1987[2239]: 207 (key to 7 spp. [NE, NT]); Norrbom 1990[3656]: 53 (notes on 5 spp. [NE, NT]); Foote, Blanc & Norrbom 1993[1523]: 494 (key to 2 spp. [NE: USA & Canada]).

cocoyoc. Mexico (Morelos) [NE].

Zonosemata cocoyoc Bush 1965[681]: 319.—Mexico. Morelos: Cocoyoc. HT ♀ USNM. [6600640]

electa. Canada & USA (Iowa, s. Ontario & Massachusetts, S to Texas & Florida) [NE].

Trypeta electa Say 1830[4286]: 185.—USA. Indiana. T A ANSP (destroyed). [6604170]

Tephritis flavonotata Macquart 1855[3087]: 145.—USA. Maryland: Baltimore. LT ♀ UMO. Lectotype designation by inference of holotype by Stone 1951: 45. [6603252]

macgregori. Mexico (Baja California Norte, n. Baja California Sur) [NE].

Zonosemata macgregori Hernandez-Ortiz 1989[2239]: 206.—Mexico. Baja California Sur: 49 km. NW of Santa Rosalia. HT ♂ UNAM. [6602756]

minuta. Jamaica [NT].

Zonosemata minuta Bush 1965[681]: 319.—Jamaica. Montego Bay. HT ♂ USNM. [6600639]

scutellata. Colombia, Venezuela, ne. Brazil [NT].

Cryptodacus scutellatus Hendel 1936[2118]: 73.—ne. Brazil. Natal. HT ♂ NMW. Type data (Norrbom 1990: 53). [6602204]

Zonosemata ica Steyskal 1974[4639]: 234.—Colombia. Norte de Santander: Cucuta. HT ♀ USNM. [6604396]

vidrapennis. Mexico (Mexico, Veracruz, Puebla, Oaxaca) [NE].

Zonosemata vidrapennis Bush 1965[681]: 321.—Mexico. Oaxaca: Oaxaca. HT ♂ USNM. [6600641]

vittigera. USA (California E to Oklahoma) S to Mexico (Mexico) [NE].

Zonosemata vittigera Coquillett 1899[953]: 261.—USA. Texas: Eagle Pass. LT ♂ USNM. Lectotype designated by Bush 1965: 315. [6600773]

Zonosemata variegata Aczel 1954[26]: 162.—*Nomen nudum*. [6600036]

Trypeta electa: Cockerell 1898[872]: 155.—misid. [6605585]

Family TEPHRITIDAE Incertae Sedis

albida. Australia (SA) [AU].

Trypeta albida Walker 1853[4959]: 384.—Australia. South Australia. T ♀ BMNH. Unrecognized, ST apparently lost (Hardy 1959: 239). [6604597]

amica. Sweden [PA].

Musca amica Linnaeus 1771[2985]: 17.—Sweden. Ryby. T A LSL? [6605429]

annulata. France [PA].

Acinia annulata Robineau-Desvoidy 1830[4148]: 777.—France. Loire: Saint-Sauveur. HT A MNHNP (destroyed). Unrecognized. [6604092]

arctii. France? [PA].

Acinia arctii Robineau-Desvoidy 1830[4148]: 777.—not stated [probably France]. T A MNHNP (destroyed). Unrecognized. [6604093]

argus. Spain? [PA].

Tephritis argus Dalman 1823[1066]: 91.—Hispania? [Spain?]. T ♂ NRS. [6600876]

bipunctata. Russia (e. Siberia) [PA].

Spilographa bipunctata Portschesky 1892[3876]: 222.—Russia. e. Siberia. ST ♂ ♀ ZISP. [6604007]

brevivitta. New Guinea [AU].

Trypeta brevivitta Walker 1865[4974]: 124.—New Guinea. T ♀ BMNH. Unrecognized, ST apparently lost (Hardy 1959: 239). [6604670]

Trypeta brevivittata Wulp 1896[5213]: 193.—missp. *brevivitta* Walker. [6604773]

- claripennis.** France [PA].
Acinia claripennis Robineau-Desvoidy 1830[4148]: 778.—France. Loire: Saint-Sauveur. T A MNHNP (destroyed). Unrecognized. [6604096]
- connexa.** Italy (Sicily) [PA].
Tephritis connexa Macquart 1835[3073]: 463.—Italy. Sicily. T ♀ MNHNP. [6603194]
- diversata.** New Guinea [AU].
Trypeta diversata Walker 1865[4974]: 124.—New Guinea. T ♀ BMNH. Unrecognized, ST apparently lost (Hardy 1966: 661). [6604671]
- guerini.** Brazil [NT].
Acidia guerini Robineau-Desvoidy 1830[4148]: 721.—Bresil [Brazil]. T ♂ MNHNP (destroyed). Unrecognized, questionably Tephritidae. [6605879]
- haemorrhoidalis.** France [PA].
Musca haemorrhoidalis Villers 1789[4927]: 548.—France. Nemausum [Nemours?]. T A Villers. Unrecognized. Type data (Thompson & Pont 1993: 34). [6605409]
- immaculata.** French Polynesia (Marquesas) [AU].
Terellia immaculata Macquart 1855[3087]: 145.—French Polynesia. iles Marquises [Marquesas Is.]. T ♀ UMO. [6603251]
- limatus.** Britain [PA].
Musca limatus Harris 1780[1999]: 122.—England. T A Unknown. Unrecognized. [6605445]
- lincensis.** Austria [PA].
Musca lincensis Schrank 1776[4312]: 96.—Austria. Linz. T A Unknown. Unrecognized. [6605446]
Musca longicornis Villers 1789[4927]: 538.—n. n. *lincensis* Schrank 1776. Preocc. Fabricius 1775. [6605448]
Musca longicornis Geoffroy 1785[1662]: 477.—France. Paris. T A MHNA? Preocc. Fabricius 1775. [6605449]
Musca linzensis Gmelin 1790[1710]: 2863.—emend. *lincensis* Schrank. [6605447]
- maculata.** France [PA].
Oxya maculata Robineau-Desvoidy 1830[4148]: 756.—France. Loire: Saint-Sauveur. ST ♂ ♀ MNHNP (destroyed). Unrecognized. [6604057]
- millefolii.** France? [PA].
Acinia millefolii Robineau-Desvoidy 1830[4148]: 777.—not stated [probably France]. T A MNHNP (destroyed). Unrecognized. [6604091]
- pallida.** France [PA].
Acinia pallida Macquart 1835[3073]: 472.—France. Bourdeaux. T ♀ MNHNP? [6603206]
- parallela.** South Africa [AF].
Trypeta parallela Walker 1853[4959]: 381.—South Africa. Cape: Cape [Cape of Good Hope]. T A BMNH. Unrecognized, ST apparently lost (Hardy 1959: 240). [6604594]
- pediculariarum.** France? [PA].
Acinia pediculariarum Robineau-Desvoidy 1830[4148]: 776.—not stated [probably France]. ST ♂ ♀ MNHNP (destroyed). Unrecognized. [6604090]
- pini.** British Is. [PA].
Tephritis pini Haliday 1838[1860]: 187.—British Is. T A NMI? [6601446]
- plantaris.** France [PA].
Acinia plantaris Robineau-Desvoidy 1830[4148]: 778.—France. Paris. ST ♂ ♀ MNHNP (destroyed). Unrecognized. [6604095]
- pluvia.** Germany (Upper Pliocene) [PA].
Oxya pluvia Durrenfeldt 1968[1273]: 48.—Germany. Niedersachsen: w. Harz forland, Osterode district, Willershausen (Upper Pliocene). HT ♀ IGPU. [6605190]
- scabiosae.** France [PA].
Musca scabiosae Fabricius 1794[1377]: 361.—Galliae [France]. T A MNHNP? Also 1 damaged ST in UZMC (Zimsen 1964: 485). [6601221]
- scutellata.** Mexico [NT].
Trypeta scutellata Wiedemann 1830[5136]: 494.—Mexico. T ♀ ZMHU. Unrecognized, ST apparently lost (Loew 1873: 337). [6604737]
- stellata.** Brazil [NT].
Acinia stellata Macquart 1843[3076]: 384.—Brazil. ST ♂ ♀ MNHNP. Unrecognized, ST apparently lost. [6603222]
- unifasciata.** Colombia [NT].
Tephritis unifasciata Macquart 1835[3073]: 465.—Colombia. T ♂ MNHNP. Unrecognized, ST apparently lost. [6603199]
- varia.** South America [NT].
Trypeta varia Walker 1853[4959]: 382.—South America. T A BMNH. Unrecognized, ST apparently lost (Hardy 1959: 241, Foote 1964: 324). [6604589]
- vecors.** Britain [PA].
Musca vecors Harris 1780[1999]: 154.—England. T A Unknown. Unrecognized. [6605468]
- vinulus.** Britain [PA].
Musca vinulus Harris 1780[1999]: 117.—England. T A Unknown. Unrecognized. [6605469]
- invalid names.** [PA].
Musca erythrocephala Villers 1789[4928]: cxxxvii.—n. n. *Musca viridescens* Villers. Preocc. De Geer 1776. [6605410]
Musca viridescens Villers 1789[4927]: 548.—France. Massiliae [Marseille]. T A Villers. Preocc. Villers 1789: 463. Type data (Thompson & Pont 1993: 34). [6605411]
Tephritis unifasciata Macquart 1843[3076]: 381.—Senegal. T ♂ MNHNP. Preocc. Macquart 1835; questionably Tephritidae. [6603216]
- unavailable names.** [NE].
Trypeta quadrifasciata Harris 1835[2019]: 600.—*Nomen nudum*. ST A MCZ? Attributed to Say. [6605538]
Tephritis pumila Costa 1883[974]: 79.—*Nomen nudum*. Italy. Sardinia: Campiomu. T A IZUSN? Published without diagnosis or indication. [6600820]
Acidiella involuta Ito 1956[2407]: 25.—*Nomen nudum*. Published after 1930 without a description. [6604982]

Subfamily TEPHRITINAE Incertae Sedis

- capensis.** South Africa [AF].
Tephritis capensis Rondani 1863[4197]: 39.—Cap B. Spei [South Africa. Cape: Cape of Good Hope]. T A Spinola? Possibly belongs in *Gymnaciura* (see Munro 1947: 165); ST possibly in MZLS. [6604118]
- flexuosa.** Chile [NT].
Urophora flexuosa Bigot 1857[493]: 305.—Chili [Chile]. T ♀ UMO. [6600545]
- lettowvorbecki.** Tanzania [AF].
Ensina lettowvorbecki Speiser 1924[4564]: 151.—Tanzania. Mt. Kilimanjaro, Kiboscho, 3000 m. HT ♂ NRS? Possibly belongs in *Campiglossa*. [6605415]
Ensina lettowvorbecki Speiser 1924[4564]: 151.—incosp. *lettowvorbecki* Speiser. Automatic correction under Art. 32(d). [6605701]
- longiseta.** India (Tamil Nadu), Thailand [OR].
Dictyotrypeta longiseta Hering 1939[2182]: 190.—India. Tamil Nadu: Trichinopolis. HT ♂ MNHNP. [6602424]
- m-nigrum.** Argentina [NT].
Euribia m-nigrum Hendel 1914[2103]: 68.—Argentina. Mendoza: Rivadavia. HT ♂ SMT. [6602034]

meridiana. Ecuador [NT].

Euaresta meridiana Becker 1919[379]: 195.—Ecuador. Pinnllar [Pinullar?]; & Alausi. ST ♂ ♀ MNHNP? [6600157]

rufitarsis. South Africa [AF].

Urophora rufitarsis Macquart 1855[3087]: 143.—South Africa. Cape: Cap de Bonne-Esperance [Cape of Good Hope]. ST ♂ ♀ UMO. [6603249]

sinensis. China (Sichuan) [PA].

Euaresta sinensis Hendel 1927[2108]: 173.—China. Sichuan: Mt. Omei [Emei Shan], 4000 ft. HT ♀ USNM. [6602142]

vittipes. Argentina (Mendoza) [NT].

Tephritis vittipes Rondani 1868[4200]: 30.—Argentina. Mendoza: Alto del molino. ST ♂ ♀ MZLS. [6604121]

Subfamily TRYPETINAE Incertae Sedis**aberrans.** Vietnam [OR].

Trypeta aberrans Hardy 1973[1942]: 279.—Vietnam. Fyan, 900-1000 m. HT ♂ BBM. [6601602]

antiqua. Croatia (Tertiary) [PA].

Tephritis antiqua Heer 1849[2090]: 252.—Croatia. Radoboj (Tertiary). HT A SLJG? Also see Evenhuis 1994: 14 for possible type depositories. HT is a wing. [6605191]

caucasica. Caucasus or Iran [PA].

Spilographa caucasica Bigot 1880[499]: 153.—northern Persia or southern slope of Caucasus. HT ♀ UMO. [6600552]

clotho. Russia (Miocene) [PA].

Pseudacidia clotho Korneyev 1982[2707]: 97.—Russia. Vishnevaya ravine, 18 km. W of Stavropol (Karagan layer Miocene). HT A PIM. HT is impression of left wing. [6602876]

denotata. Philippines (Palawan) [OR].

Acidiella denotata Hardy 1970[1940]: 102.—Philippines. Palawan: Brooks Point, Uring Uring. HT ♀ UZMC. Type data (Hardy 1974: 180). [6601641]

parallela. Indonesia (Sumatra) [OR].

Acidia parallela Meijere 1924[3324]: 38.—Indonesia. Sumatra: Gunung Talamau. HT ♀ ZMAN. Type data (Hardy 1987: 330). [6604949]

peltigera. Burma [OR].

Trypeta peltigera Hering 1938[2181]: 42.—Burma. Kachin: Kambaiti [25°24'N 98°9'E]. HT ♀ NRS. [6602376]

quadrinota. Indonesia (Java) [OR].

Myoleja quadrinota Hardy 1987[1963]: 332.—Indonesia. Java: Tjisarua, Mt. Pangrango, 1000 m. HT ♀ BBM. [6601833]
Myoleja quadrinotata Hardy 1987[1963]: 332.—incosp. *quadrinota* Hardy, by present revision. [6601834]

reclusa. Solomon Is. (San Cristobal) [AU].

Myoleja reclusa Hardy 1987[1963]: 334.—Solomon Is. San Cristobal: Napagiwse, edge of river. HT ♂ BBM. [6601835]

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The following bibliography gives full references to the works cited in the catalog as well as many other works dealing with Tephritidae. All together 5,368 works are included in this bibliography. A concerted effort was made to examine as many of the cited references as possible in order to ensure accurate citation of authorship, date, title, and pagination. References are listed alphabetically by author and chronologically for multiple articles with the same authorship.

Author's names: Names of authors are cited in the bibliography the same as they are in the text for proper association of literature citations with entries in the catalog. Because of the differing treatments of names, especially those containing articles such as de, del, van, Le, etc., these names are cross-indexed in the bibliography under the various ways they may be treated elsewhere. For Russian and other names in Cyrillic and other non-ASCII character sets, we follow the spelling used by the authors themselves.

Dates of publication: Dating of these works was obtained through various methods in order to obtain as accurate a date of publication as possible for purposes of priority in nomenclature. Dates found in the original works or by outside evidence are placed in brackets after the literature citation. The format for the dates is [year.month.day], and uncertainty is indicated by query marks. Thus, for example, [1910.10.??] indicates a publication that is known to be published in October of 1910, but the precise day is not known. Under the rules of nomenclature, this publication is, therefore, treated as if it was published on 31 October. However, the query marks are also used to indicate that further investigation may more precisely restrict the date of publication. The sources of dates from outside evidence (reviews in other journals, evidence through published research, library receipt stamps, etc.) are given in the annotations, unless previously published in a standard source (see under annotations).

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Journals/Serials: Journal titles are usually abbreviated following the standards of the Serial Sources for the BIOSIS database, Biosciences Information Service, and the International Standard (ISO). Abbreviations for journals not found in these sources have been formed on the same principles. All the abbreviations used are given herein. Additional information, such as series number or name, is given in parentheses but not italicized. New series and equivalents like Neue Folge are abbreviated (n.s.). Volume and plate numbers are given in Arabic numbers irrespective of whether or not Roman numerals were used in the work cited. Issue or part numbers are included in parentheses after the volume number only if each issue is separately paginated. In cases where there is no volume number, but the volume pertains to a particular year, that year is used as the volume number even though the actual date of publication may differ. Pagination is given for the entire article except in those cases where the article has been published at different times due to separate issues. Plate and/or figure numbers are omitted in the citation when included in the cited pagination. Where these are separate from the pagination, they are included.

Books: Single-volume books are cited with title, publisher (if known), place(s) of publication, and pagination (Roman and Arabic as appropriate). Multi-volume works are listed separately by volume with full references as for single-volume books. Continuously paginated multi-volume works are listed singly for as many parts (or volumes) as were published in a single year (only if separate issues dates are not known). Unpaginated portions of a book are placed in square brackets. Some books that have been published in parts over time are treated as serials. For example, Lindner's monographic work, *Die Fliegen der palaearktischen Region*, is treated as a serial.

Annotations: Annotations are given to clarify author's spellings, explanations of dating, title variations, language of the work, duplicate versions, English translations, separate editions, and various other reasons. Annotations that have appeared in other works, such as Coulson *et al.* (1965), Smith *et al.* (1980), Evenhuis *et al.* (1989) and Evenhuis (1997) are not usually repeated. These are considered core resources that should always be consulted for bibliographic details.

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[A collection of works on natural history by many authors. The work is
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[A footnote on p. 45, after "Mouche", states that Olivier was returning to the editorship of this volume after an absence of several years on government service, during which time the work from the letter L onwards had been entrusted to several collaborators. Manuel's name is signed at the end of the first part of the article on "Mouche". The rest of this article is likewise attributed to Manuel as the footnote appears after the article.]
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Serial Abbreviations

- Abh. Ber. K. Zool. Anthropol. Ethnogr. Mus.** = Abhandlungen und Berichte des Koeniglichen Zoologischen und Anthropologisch-Ethnographischen Museums zu Dresden.
- Abh. K.-k. Zool. Bot. Ges. Wien** = Abhandlungen der (K.K.) Zoologisch-Botanischen Gesellschaft in Wien.
- Abstr. Pac. Sci. Congr.** = Abstracts. Pacific Science Congress of the Pacific Science Association.
- Abstr. Pap. Am. Chem. Soc.** = Abstracts of Papers - American Chemical Society.
- ACIAR Monogr.** = ACIAR (Australian Centre for International Agricultural Research) Monograph, Canberra, Australia.
- Acta Agric. Univ. Jiangxiensis** = Acta Agriculturae Universitatis Jiangxiensis.
- Acta Amazon.** = Acta Amazonica
- Acta Embryol. Morphol. Exp.** = Acta Embryologiae et Morphologiae Experimentalis.
- Acta Entomol. Bohemoslov.** = Acta Entomologica Bohemoslovaca.
- Acta Entomol. Chil.** = Acta Entomologica Chilena.
- Acta Entomol. Sin.** = Acta Entomologica Sinica.
- Acta Faun. Entomol. Mus. Natl. Pragae** = Acta Faunistica Entomologica Musei Nationalis Pragae.
- Acta Hortic.** = Acta Horticulturae (Wageningen).
- Acta Inst. For. Zvolenensis** = Acta Instituti Forestalis Zvolenensis.
- Acta Oecol. Oecol. Appl.** = Acta Oecologica Oecologia Applicata (Montrouge).
- Acta Oecol. Oecol. Gen.** = Acta Oecologica Oecologia Generalis (Montrouge).
- Acta Oecol.** = Acta Oecologica (Montrouge).
- Acta Oecon.-Entomol. Sin.** = Acta Oeconomico-Entomologica Sinica.
- Acta Phytopathol. Entomol. Hung.** = Acta Phytopathologica et Entomologica Hungarica (Budapest).
- Acta Phytophylacica Sin.** = Acta Phytophylacica Sinica.
- Acta Soc. Sci. Fenn. Ser. B** = Acta Societatis Scientiarum Fennicae, Series B.
- Acta Univ. Carol. Biol.** = Acta Universitatis Carolinae Biologica (Prague).
- Acta Univ. Ups. Compr. Summ. Upps. Diss. Fac. Sci.** = Acta Universitatis Upsaliensis Comprehensive Summaries of Uppsala Dissertations from the Faculty of Science.
- Acta Zool. Hung.** = Acta Zoologica Hungarica (Budapest).
- Acta Zool. Lilloana** = Acta Zoologica Lilloana.
- Acta Zool. Mex.** = Acta Zoologica Mexicana.
- Acta Zool. (Oxf.)** = Acta Zoologica (Oxford).
- Acta Zool. Sin.** = Acta Zoologica Sinica (Beijing).
- Acta Zootaxonomica Sin.** = Acta Zootaxonomica Sinica (Beijing).
- Adv. Plant Sci.** = Advances in Plant Sciences (Muzaffarnagar).
- Advertiser, Adelaide** = Advertiser, Adelaide.
- Afr. Entomol.** = African Entomology.
- Ag Alert** = Ag Alert
- Agfacts** = Agfacts.
- Agra Univ. J. Res. Sci.** = Agra University Journal of Research, Science.
- Agric. Can. Insect Identif. Sheet** = Agriculture Canada Insect Identification Sheet (Ottawa).
- Agric. Ecosyst. Environ.** = Agriculture, Ecosystems and Environment.
- Agric. El Salvador** = Agricultura en El Salvador.
- Agric. Gaz. N.S.W.** = Agricultural Gazette of New South Wales.
- Agric. Int.** = Agriculture International.
- Agric. J. (Cape Town)** = Agricultural Journal. Cape of Good Hope Department of Agriculture (Capetown).
- Agric. J. Dep. Agric. Fiji Isl.** = Agricultural Journal, Department of Agriculture, Fiji.
- Agric. J., Dep. Sci. Agric., Barbados** = Agricultural Journal, Department of Science and Agriculture, Barbados.
- Agric. J. Egypt** = Agricultural Journal of Egypt (Cairo).
- Agric. J. Fiji** = Agricultural Journal. Fiji Department of Agriculture.
- Agric. J. India** = Agricultural Journal of India.
- Agric. News** = Agricultural News (Bridgetown).
- Agric. Res. Rev.** = Agricultural Research Review (Giza).
- Agric. Res.** = Agricultural Research.
- Agric. Rev. Agropec.** = Agricultura, Revista Agropecuaria.
- Agriculture (Lond.)** = Agriculture (London).
- Agrochemia (Bratislava)** = Agrochemia (Bratislava).
- Agrociencia** = Agrociencia.
- Agron. Lusit.** = Agronomia Lusitana (Oeiras).
- Agron. Sulriograndense** = Agronomia Sulriograndense.
- Agron. Trop. (Maracay)** = Agronomia Tropical (Maracay).
- Agron. Trop.** = Agronomie Tropical.
- Agronomia (Soc. Agron. Chile)** = Agronomia (Soc. Agron. Chile).
- Agronomia** = Agronomia. (Diretorio Academico da E.N.A.).
- Agrocien. Ser. Prot. Veg.** = Agrociencia Serie Proteccion Vegetal
- Akitu** = Akitu.
- Aligarh Muslim Univ. Publ. (Zool. Ser.) Ind. Ins. Typ.** = Aligarh Muslim University Publications Zoological Series on Indian Insect Types.
- Allattani Kozl.** = Allattani Kozlemenyek (Budapest).
- Am. J. Hortic. Flor. Comp.** = American Journal of Horticulture and Florist's Companion (Boston).
- Am. Mus. Novit.** = American Museum Novitates.
- Am. Nat.** = American Naturalist (Chicago).
- Am. Sci.** = American Scientist.
- Amat. Entomol.** = Amateur Entomologist (Feltham).
- Amat. Papillons** = Amateur de Papillons.
- An. Acad. Bras. Cienc.** = Anais da Academia Brasileira de Ciencias (Rio de Janeiro).
- An. Agric. Argent.** = Anales de Agricultura.

- An. Inst. Biol. Univ. Nac. Auton. Mex. Ser. Zool.** = Anales del Instituto de Biología, Universidad Nacional Autónoma de México, Serie Zoológica (Mexico City).
- An. Inst. Nac. Invest. Agrar., Ser. Agric.** = Anales del Instituto Nacional de Investigaciones Agrarias, Serie Agrícola.
- An. Mus. Nac. Hist. Nat. Buenos Aires** = Anales del Museo Nacional de Buenos Aires.
- An. Soc. Cient. Argent.** = Anales de la Sociedad Científica Argentina (Buenos Aires).
- An. Soc. Entomol. Bras.** = Anais da Sociedade Entomológica do Brasil.
- An. Soc. Rural Argent.** = Anales de la Sociedad Rural Argentina.
- An. Zool. Aplicada** = Anales de Zoología (Santiago de Chile).
- Anim. Behav.** = Animal Behaviour (London).
- Anim. Biol.** = Animal Biology.
- Ann. Agric. Res.** = Annals of Agricultural Research (New Delhi).
- Ann. Agric. Sci. (Cairo)** = Annals of Agricultural Science (Cairo).
- Ann. Appl. Biol.** = Annals of Applied Biology (Wellesbourne).
- Ann. Biol. (Ludhiana)** = Annals of Biology (Ludhiana).
- Ann. Entomol. (Dehra Dun)** = Annals of Entomology (Dehra Dun).
- Ann. Entomol. Soc. Am.** = Annals of the Entomological Society of America.
- Ann. Epiphyt. (Paris)** = Annales des Epiphyties (Paris).
- Ann. Epiphyt.** = Annales des Epiphyties (Paris).
- Ann. Hist. Nat. Mus. Natl. Hung. (Zool.)** = Annales Musei Nationalis Hungarici. Pars Zoologica.
- Ann. Hist. Nat. Mus. Natl. Hung.** = Annales Historico-Naturales Musei Nationalis Hungarici (Budapest).
- Ann. Inst. Natl. Rech. Agron. Tunis.** = Annales de l'Institut National de la Recherche Agronomique Tunisie.
- Ann. Inst. Phytopathol. Benaki** = Annales de l'Institut Phytopathologique Benaki (Athens) [Mpenakein Phytopathologikon Instituton (Kdifisia, Greece)].
- Ann. Ist. Sper. Oliviv.** = Annali dell'Istituto Sperimentale per l'Olivicoltura.
- Ann. Mag. Nat. Hist.** = Annals and Magazine of Natural History.
- Ann. Mus. Civ. Stor. Nat. Genova** = Annali del Museo Civico di Storia Naturale, Genova.
- Ann. Mus. R. Afr. Cent. Ser. 80 Sci. Zool.** = Annales du Musée Royal de l'Afrique Centrale Serie in 80, Sciences Zoologiques.
- Ann. Mus. R. Congo Belge Ser. 80 Sci. Zool.** = Annales du Musée Royal du Congo Belge Serie in 80, Sciences Zoologiques.
- Ann. Nat. Hist.** = Annals of Natural History.
- Ann. Natal Mus.** = Annals of the Natal Museum (Pietermaritzburg).
- Ann. Naturhist. Mus. Wien** = Annalen des Naturhistorischen Museums in Wien.
- Ann. Provencales** = ?Annales Provencales.
- Ann. R. Stn. Sper. Agrumic. Fruttic.** = Annali della R. Stazione Sperimentale di Agrumicoltura e Frutticoltura (Acireale).
- Ann. Res. Inst. Crop Production Prague-Ruzyne** = Annals of the Research Institute for Crop Production Prague-Ruzyne (Prague).
- Ann. S. Afr. Mus.** = Annals of the South African Museum (Capetown).
- Ann. Sch. Agric. Forestry Univ. Thessaloniki** = Annals of the School of Agriculture and Forestry, University of Thessaloniki (Thessaloniki).
- Ann. Sci. Napoli** = Annali Scientifici. Giornal di Scienze Fisiche, Matematiche, Agricoltura, Industria ec. ec. (Napoli).
- Ann. Sci. Nat. [Port.]** = Annaes de Ciencias Naturaes.
- Ann. Serv. Epiphyt.** = Annales du Service des Epiphyties (Paris).
- Ann. Soc. Entomol. Belg.** = Annales de la Societe Entomologique de Belgique (Liege).
- Ann. Soc. Entomol. Fr. (N.S.)** = Annales de la Societe Entomologique de France (Paris).
- Ann. Soc. Entomol. Fr.** = Annales de la Societe Entomologique de France.
- Ann. Soc. Entomol. Que.** = Annales de la Societe Entomologique de Quebec.
- Ann. Transvaal Mus.** = Annals of the Transvaal Museum (Pretoria).
- Ann. Zool. Ecol. Anim.** = Annales de Zoologie -Ecologie Animale.
- Annot. Zool. Bot.** = Annotationes Zoologicae et Botanicae (Bratislava).
- Annu. Rep. Agric. Quar. Serv. Solomon Islands** = Annual Report. Agriculture Quarantine Service, Solomon Islands (Honiara).
- Annu. Rep. Entomol. Soc. Ont.** = Annual Report of the Entomological Society of Ontario.
- Annu. Rep. Hawaii Agric. Exp. Stn.** = Annual Report of the Hawaii Agricultural Experiment Station.
- Annu. Rep. Laguna Marine Lab.** = Annual Report of Laguna Marine Laboratory.
- Annu. Rep. N.J. State Mus.** = Annual Report of the New Jersey State Museum (Trenton).
- Annu. Rep. N.Y. Agric. Exp. Stn.** = Annual Report of the New York Agricultural Experiment Station.
- Annu. Rep. Res. Dep. Agric. Div. Min. Agric. Lands, Solomon Islands** = Annual Report. Research Department, Agriculture Division, Ministry of Agriculture and Lands, Solomon Islands (Honiara).
- Annu. Rep. State Board Agric. N.J.** = Annual Report of the State Board of Agriculture (New Jersey).
- Annu. Rev. Ecol. Syst.** = Annual Review of Ecology and Systematics (Palo Alto).
- Annu. Rev. Entomol.** = Annual Review of Entomology (Palo Alto).
- Annu. Soc. Nat. Modena** = Annuario della Societa dei Naturalisti in Modena.

- Anz. Schaedlingskd. Pflanzenschutz Umweltschutz** = Anzeiger fuer Schaedlingskunde, Pflanzenschutz und Umweltschutz (Berlin).
- Appl. Entomol. Phytopathol.** = Applied Entomology and Phytopathology (Tehran).
- Appl. Entomol. Zool.** = Applied Entomology and Zoology (Tokyo).
- Appl. Environ. Microbiol.** = Applied and Environmental Microbiology.
- AQIS Bull.** = AQIS Bulletin.
- Arb. Morphol. Taxon. Entomol. Berlin-Dahlem** = Arbeiten ueber Morphologische und Taxonomische Entomologie aus Berlin-Dahlem (Berlin-Dahlem).
- Arb. Physiol. Angew. Entomol. Berlin-Dahlem** = Arbeiten ueber Physiologische und Angewandte Entomologie aus Berlin-Dahlem.
- Arch. Biochem. Biophys.** = Archives of Biochemistry and Biophysics (Orlando).
- Arch. Biol. Med. Exp.** = Archivos de Biologia y Medicina Experimentales (Santiago).
- Arch. Entomol. (Thomson)** = Archives Entomologiques (Thomson).
- Arch. Insect Biochem. Physiol.** = Archives of Insect Biochemistry and Physiology (New York).
- Arch. Inst. Pasteur Tunis** = Archives de l'Institut Pasteur de Tunis (Tunis).
- Arch. Neerl. Sci. Ex. Nat.** = Archives Neerlandaises des Sciences Exactes et Naturelles.
- Arch. Prirod. Vyzkum Cech.** = Archiv pro Prirodovecky Vyzkum Cech. (Prague).
- Arch. Theecult. Ned.-Indie** = Archief voor de Theecultuur in Nederlandsch-Indie, uitgave van het Proefstation voor Thee te Buitenzorg.
- Arch. Zool. Anat. Fisiol. (Modena)** = Archivio per la Zoologia l'Anatomia e la Fisiologia. Modena.
- Arh. Minist. Poljopr. (Yugosl.)** = Arhiv Ministarstva Poljoprivrede (Yugoslavia).
- Ark. Zool.** = Arkiv foer Zoologi.
- Arnoldia Zimbabwe** = Arnoldia Zimbabwe.
- Arq. Inst. Biol. Sao Paulo** = Arquivos do Instituto Biologico, Sao Paulo (Sao Paulo).
- Arq. Inst. Biol. Veg.** = Arquivos do Instituto de Biologia Vegetal (Rio de Janeiro).
- Assiut J. Agric. Res.** = Assiut Journal of Agricultural Research.
- Atti Accad. Naz. Lincei Rend.** = Atti dell'Accademia Nazionale dei Lincei Rendiconti.
- Atti Accad. Sci. Fis. Mat. Napoli** = Atti della R. Accademia di Scienze Fisiche e Matematiche. (Societa Reale di Napoli).
- Atti Accad. Sci. Fis. Mat. Napoli** = Atti della Reale Accademia di Scienze Fisiche e Matematiche. (Societa Reale di Napoli).
- Atti Congr. Naz. Ital. Entomol.** = Atti del Congresso Nazionale Italiano di Entomologia.
- Atti Ist. Veneto Sci. Lett. Arti** = Atti dell'Istituto Veneto di Scienze, Lettere ed Arti.
- Atti R. Accad. Sci. Belle Lett. Napoli** = Atti della Reale Accademia delle Scienze e Belle-Lettere di Napoli.
- Atti Soc. Ital. Sci. Nat.** = Atti della Societa Italiana di Scienze Naturali (Milano).
- Aust. Entomol. Mag.** = Australian Entomological Magazine.
- Aust. Entomol.** = Australian Entomologist.
- Aust. J. Agric. Res.** = Australian Journal of Agricultural Research.
- Aust. J. Biol. Sci.** = Australian Journal of Biological Sciences.
- Aust. J. Bot.** = Australian Journal of Botany.
- Aust. J. Entomol.** = Australian Journal of Entomology.
- Aust. J. Sci. Res.** = Australian Journal of Scientific Research.
- Aust. J. Sci.** = Australian Journal of Science.
- Aust. J. Zool.** = Australian Journal of Zoology (Melbourne).
- Aust. Natur. Hist.** = Australian Natural History (Sydney).
- Aust. Zool.** = Australian Zoologist (Mosman).
- Behav. Ecol. Sociobiol.** = Behavioral Ecology and Sociobiology.
- Behaviour** = Behaviour.
- Beih. Ber. Naturhist. Ges. Hannover** = Beihefte zu den Berichten der Naturhistorischen Gesellschaft zu Hannover.
- Beitr. Entomol.** = Beitrage zur Entomologie (Berlin).
- Beitr. Naturkd. Forsch. Sudwestdttschl.** = Beitrage zur Naturkundlichen Forschung in Sudwestdeutschland.
- Belg. J. Bot.** = Belgian Journal of Botany (Meise).
- Ber. Senckenb. Naturforsch. Ges.** = Berichte der Senckenbergischen Naturforschenden Gesellschaft.
- Berl. Entomol. Z.** = Berliner Entomologische Zeitschrift (Berlin).
- Bijdr. Dierkd.** = Bijdragen tot de Dierkunde (Amsterdam).
- Biochem. Cell Biol.** = Biochemistry and Cell Biology (Ottawa).
- Biochem. Genet.** = Biochemical Genetics (New York).
- Biochem. Int.** = Biochemistry International (Marrickville).
- Biochem. Mol. Biol. Int.** = Biochemistry and Molecular Biology International.
- Biochem. Syst. Ecol.** = Biochemical Systematics and Ecology (Oxford).
- Biocontrol News Inf.** = Biocontrol News and Information (Wallingford).
- Biocontrol Sci. Technol.** = Biocontrol Science and Technology (Abingdon).
- Biol. Bull. India** = Biological Bulletin of India.
- Biol. Cell** = Biology of the Cell (Paris).
- Biol. Control** = Biological Control (Orlando).
- Biol. J. Linn. Soc.** = Biological Journal of the Linnean Society.
- Biol. Nauk.** = Biologicheskii Nauki.
- Biol. unserer Zeit** = Biologie in unserer Zeit (Weinheim).
- Biol. Zentralbl.** = Biologisches Zentralblatt (Stuttgart).
- Biologico (Sao Paulo)** = Biologico (Sao Paulo).
- BioScience** = BioScience.
- Bios** = Bios.
- Bishop Mus. Bull. Entomol.** = Bishop Museum Bulletins in Entomology (Honolulu).

- Bishop Mus. Occas. Pap.** = Bishop Museum Occasional Papers (Honolulu).
- Bishop Mus. Spec. Publ.** = Bishop Museum Special Publications (Honolulu).
- Bol. Campo** = Boletim do Campo (Rio de Janeiro).
- Bol. Comision Parasitol. Agric.** = Boletin de la Comision de Parasitologia-Agricola [Mexico].
- Bol. Entomol. Venez. (N.S.)** = Boletin de Entomologia Venezolana (N.S.) (Maracay).
- Bol. Estac. Exp. Agric. Tucuman** = Boletin Estacion Experimental Agricola de Tucuman.
- Bol. Mens. Org. Of. Def. Agric., Sec. Agric. Fom. (San Jacinto, D.F.)** = Boletin Mensual. Organo de la Oficina para la Defensa Agricola, Secretaria de Agricultura y Fomento, Estados Unidos Mexicanos.
- Bol. Mus. Entomol. Univ. Valle** = Boletin del Museo de Entomologia del la Universidad del Valle (Cali-Columbia).
- Bol. Of. Def. Agric. Sec. Agric. Fom. (Tacubaya, D.F.)** = Boletin. Oficina para la Defensa Agricola, Secretaria de Agricultura y Fomento, Estados Unidos Mexicanos.
- Bol. R. Soc. Esp. Hist. Nat.** = Boletin de la Real Sociedad Espanola de Historia Natural.
- Bol. Sanid. Veg. Plagas** = Boletin de Sanidad Vegetal, Plagas (Madrid).
- Bol. Serv. Def. Contra Plagas Inspeccion Fitopatol. (Madrid)** = Boletin del Servicio de Defensa contra Plagas e Inspeccion Fitopatologica (Madrid).
- Bol. Soc. Bras. Agron.** = Boletin da Sociedade Brasileira de Agronomia
- Bol. Soc. Port. Cienc. Nat.** = Boletim da Sociedade Portuguesa de Ciencias Naturais (Lisbon).
- Bol. Soc. Port. Entomol.** = Boletim da Sociedade Portuguesa de Entomologia (Lisbon).
- Bol. Soc. Venez. Cienc. Nat.** = Boletin de la Sociedad Venezolana de Ciencias Naturales.
- Bol. Tec. Inst. Agron. Norte (Belem)** = ?Boletim Tecnico, Instituto Agronomico do Norte (Belem, Brazil).
- Boletin de vulgarizacion para el conocimiento de los insectos perjudiciales a la agricultura** = Boletin de vulgarizacion para el conocimiento de los insectos perjudiciales a la agricultura.
- Boll. Arboric. Ital.** = Bollettino della Arboricoltura Italiana.
- Boll. Ist. Entomol. Agrar. Oss. Fitopatol. Palermo** = Bollettino dell'Istituto di Entomologia Agraria e dell'Osservatorio di Fitopatologia di Palermo.
- Boll. Ist. Entomol. Univ. Studi Bologna** = Bollettino dell'Istituto di Entomologia dell'Universita degli Studi di Bologna (Bologna).
- Boll. Lab. Entomol. Agrar. Filippo Silvestri** = Bollettino del Laboratorio di Entomologia Agraria 'Filippo Silvestri', Portici [Naples].
- Boll. Lab. Entomol. Bologna** = Bollettino del Laboratorio di Entomologia del R. Istituto Superiore Agraria di Bologna.
- Boll. Lab. Zool. Gen. Agrar. Portici** = Bollettino del Laboratorio di Zoologia Generale e Agraria, Portici.
- Boll. Lab. Zool. Gen. Agrar. R. Scuola Agric. Portici** = Bollettino del Laboratorio di Zoologia Generale e Agraria della Regia Scuola d'Agricoltura, Portici.
- Boll. Lab. Zool. Gen. Agrar. R. Scuola Super. Agric. Portici** = Bollettino del Laboratorio di Zoologia Generale e Agraria della Regia Scuola Superiore d'Agricoltura, Portici.
- Boll. Mus. Zool. Anat. Comp. Univ. Torino** = Bollettino dei Musei di Zoologia ed Anatomia Comparata dell'Universita di Torino.
- Boll. Soc. Entomol. Ital.** = Bollettino della Societa Entomologica Italiana (Genoa).
- Boll. Zool. Agrar. Bachic.** = Bollettino di Zoologia Agraria e di Bachicoltura (Milan).
- Boll. Zool.** = Bollettino di Zoologia (Modena).
- Bonn. Zool. Beitr.** = Bonner Zoologische Beitrage (Bonn).
- Botyu-Kagaku** = Botyu-Kagaku.
- Br. J. Entomol. Nat. Hist.** = British Journal of Entomology and Natural History (Minster-in-Sheppey).
- Bragantia** = Bragantia.
- Braz. J. Med. Biol. Res.** = Brazilian Journal of Medical and Biological Research (Ribeirao Preto).
- Brenesia** = Brenesia.
- Brighton Crop Prot. Conf. Pests Dis.** = Brighton Crop Protection Conference - Pests and Diseases.
- Broteria (Ser. Zool.)** = Broteria (Serie Zoologica).
- Broteria** = Broteria. Revista de Ciencias Naturae (Lisbon).
- Bull. Acad. Pol. Sci. Ser. Sci. Biol.** = Bulletin de l'Academie Polonaise de Sciences, Serie des Sciences Biologiques.
- Bull. Agric. Congo Belge** = Bulletin Agricole du Congo Belge.
- Bull. Agric. Res. Inst., Pusa** = Bulletin of the Agricultural Research Institute, Pusa.
- Bull. Am. Mus. Nat. Hist.** = Bulletin of the American Museum of Natural History (New York).
- Bull. Ann. Soc. Entomol. Belg.** = Bulletin et Annales de la Societe Entomologique de Belgique (Bruxelles).
- Bull. Ann. Soc. R. Belge Entomol.** = Bulletin et Annales de la Societe Royale Belge d'Entomologie (Brussels).
- Bull. Assoc. Nat. Vallee Loing Massif Fontainebleau** = Bulletin de l'Association des Naturalistes de la Vallee du Loing et du Massif de Fontainebleau (Fontainebleau).
- Bull. Azerb. Cent. Agric. Plant Breeding Exp. Stn.** = Bulletin of Azerbaijan Central Agricultural Plant Breeding Experiment Station.
- Bull. Bernice P. Bishop Mus.** = Bulletin of the Bernice P. Bishop Museum.
- Bull. Br. Mus. (Nat. Hist.) Entomol.** = Bulletin of the British Museum (Natural History) Entomology (London).
- Bull. Brooklyn Entomol. Soc.** = Bulletin of the Brooklyn Entomological Society.
- Bull. Calif. Dep. Agric.** = Bulletin of the Department of Agriculture, State of California (Sacramento).

- Bull. Calif. Insect Surv.** = Bulletin of the California Insect Survey (Berkeley).
- Bull. Dep. Agric. Mauritius, Port Louis** = Bulletin. Department of Agriculture, Mauritius (Port Louis).
- Bull. Dep. Agric., Res. Inst., Formosa** = Bulletin of the Department of Agriculture, Research Institute, Formosa.
- Bull. Ecol. Soc. Am.** = Bulletin of the Ecological Society of America (Tempe).
- Bull. Entomol.** = Bulletin of Entomology (New Delhi).
- Bull. Entomol. Res.** = Bulletin of Entomological Research (London).
- Bull. Entomol. Soc. Am.** = Bulletin of the Entomological Society of America.
- Bull. Entomol. Soc. Can.** = Bulletin Entomological Society of Canada
- Bull. Environ. Contam. Toxicol.** = Bulletin of Environmental Contamination and Toxicology (New York).
- Bull. Exp. Stn. Haw. Sugar Planter's Assoc. Entomol. Ser.** = Bulletin of the Experiment Station of the Hawaiian Sugar Planter's Association. Entomological Series.
- Bull. Fac. Agric. Univ. Cairo** = Bulletin of the Faculty of Agriculture, University of Cairo (Cairo).
- Bull. Imp. Cent. Agric. Exp. Stn. Jpn.** = Bull. Imp. Cent. Agric. Exp. Stn. Japan.
- Bull. Inst. Zool. Acad. Sin.** = Bulletin of the Institute of Zoology, Academia Sinica (Taipei).
- Bull. Intern. Acad. Sci. Prague** = Bulletin International. Resumenes des Travaux presentes. Classes des Sciences Mathematiques, Naturelles, et de la Medecin. Academie des Sciences (Prague).
- Bull. Ir. Biogeogr. Soc.** = Bulletin of the Irish Biogeographic Society (Wicklow).
- Bull. Iraq Nat. Hist. Mus. (Univ. Baghdad)** = Bulletin of the Iraq Natural History Museum (University of Baghdad).
- Bull. Maine Agric. Exp. Stn.** = Bulletin. Maine Agricultural Experiment Station.
- Bull. Maurit. Inst.** = Bull. Mauritius Institute.
- Bull., Ministry Agric., Malaysia** = Bulletin, Ministry of Agriculture, Malaysia.
- Bull. Mizunami Fossil Mus.** = Bulletin of the Mizunami Fossil Museum (Mizunami).
- Bull. Montana Agric. Exp. Stn.** = Bulletin. Montana Agricultural Experiment Station.
- Bull. Mus. Comp. Zool.** = Bulletin of the Museum of Comparative Zoology (Cambridge).
- Bull. Mus. Natl. Hist. Nat.** = Bulletin du Museum National d'Histoire Naturelle. Paris.
- Bull. Mus. R. Hist. Nat. Belg.** = Bulletin du Musee Royal d'Histoire Naturelle de Belgique.
- Bull. Naniwa Univ. Ser. B** = Bulletin of the Naniwa University, Series B: Agricultural and Natural Science.
- Bull. N.H. Agric. Exp. Stn. Durham** = Bulletin. New Hampshire Agricultural Experiment Station (Durham).
- Bull. N.Y. State Agric. Exp. Stn.** = Bulletin. New York State Agricultural Experiment Station (Geneva).
- Bull. OEPP (Organ. Eur. Mediterr. Prot. Plant)** = Bulletin OEPP (Organisation Europeenne et Mediterranee pour la Protection des Plantes).
- Bull. OILB/SROP** = Bulletin OILB/SROP (Section Regionale Ouest Palearctique) [IOBC/WPRS Bulletin].
- Bull. Queensl. Dep. Primary Ind., Div. Plant Ind.** = Bulletin. Queensland Department of Primary Industries, Division of Plant Industry.
- Bull. Rech. Agron. Gembloux (N.S.)** = Bulletin des Recherches Agronomiques de Gembloux (N.S.) (Gembloux).
- Bull. Sci. Fr. Belg.** = Bulletin Scientifique de la France et de la Belgique.
- Bull. Sect. Sci. Acad. Roum.** = Bulletin de la Section Scientifique de l'Academie Roumaine.
- Bull. Soc. Entomol. Egypte** = Bulletin de la Societe Entomologique de Egypte.
- Bull. Soc. Entomol. Fr.** = Bulletin de la Societe Entomologique de France (Paris).
- Bull. Soc. Entomol. Ital.** = Bullettino della Societa Entomologica Italiana (Genoa).
- Bull. Soc. Entomol. Taichung** = Bulletin of the Society of Entomol. Taichung (Taichung).
- Bull. Soc. Imp. Nat. Moscou** = Bulletin de la Societe Imperiale des Naturalistes de Moscou.
- Bull. Soc. R. Entomol. Egypte** = Bulletin de la Societe Royale Entomologique d'Egypte.
- Bull. Soc. Zool. Fr. Evol. Zool.** = Bulletin de la Societe Zoologique de France Evolution et Zoologie (Paris).
- Bull. Soc. Zool. Fr.** = Bulletin de la Societe Zoologique de France (Paris).
- Bull. SROP** = Bulletin SROP (Section Regionale Ouest Palearctique) (Rome).
- Bull. Tea Res. Inst. Ceylon** = Bulletin of the Tea Research Institute of Ceylon.
- Bull. Torrey Bot. Club** = Bulletin of the Torrey Botanical Club.
- Bull. Univ. Osaka Prefect., Ser. B Agric. Biol.** = Bulletin of the University of Osaka Prefecture, Series B: Agriculture and Biology.
- Bull. U.S. Geol. Geogr. Surv. Terr.** = Bulletin of the United States Geological and Geographical Survey of the Territories. U.S. Dep. Interior, Washington.
- Bull. Zool. Nomencl.** = Bulletin of Zoological Nomenclature.
- Bull. Zool. Surv. India** = Bulletin of the Zoological Survey of India (Calcutta).
- Bur. Commodity Insp. Quar. Bull. (Taiwan)** = Bureau of Commodity Inspection & Quarantine Bulletin (Taiwan).
- Byull. nauchno-tekn. inform.** = [Samarkand branch, Uzbek Research Institute of horticulture, viticulture and wine making, Scientific and technical information bulletin]
- C. R. Acad. Sci.** = Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences.

- C. R. Hebd. Seanc. Acad. Sci. Ser. D Sci. Nat.** = Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences, Serie D Sciences Naturelles.
- C. R. Hebd. Seances Acad. Sci. Ser. III Sci. Vie** = Comptes Rendus Hebdomadaires des Seances de l'Academie des Sciences, Serie III (Sciences de la Vie).
- C. R. Seances Acad. Agric. Fr.** = Comptes Rendus des Seances de l'Academie d'Agriculture de France.
- C. R. Seances Soc. Biol.** = Comptes Rendus des Seances de la Societe de Biologie (Paris).
- Cah. ORSTOM Ser. Biol.** = Cahiers ORSTOM (Office de la Recherche Scientifique et Technique Outre-Mer), Serie Biologie.
- Calif. Agric. Exp. Stn. Bull.** = California Agricultural Experiment Station Bulletin.
- Calif. Agric.** = California Agriculture (Oakland).
- Calif. Dep. Agric. Bull.** = State of California, Department of Agriculture, Bulletin.
- Calif. Dep. Agric. Spec. Publ.** = California Department of Agriculture. Special Publication.
- Calif. Dep. Agric.** = California Department of Agriculture.
- Calif. Fruit Growers Exch. Bull.** = California Fruit Growers Exchange. Bulletin.
- Calif. Grow.** = California Grower.
- Calif. State Hortic. Comm.** = California State Horticultural Commission. Report of the Commissioner appointed to investigate the prevalence of *Trypeta ludens* in Mexico. (Sacramento).
- Can. Dep. Agric. Publ.** = Canada Department of Agriculture Publication (Ottawa).
- Can. Entomol. Suppl.** = Canadian Entomologist Supplement.
- Can. Entomol.** = Canadian Entomologist (Ottawa).
- Can. J. Bot.** = Canadian Journal of Botany (Ottawa).
- Can. J. Genet. Cytol.** = Canadian Journal of Genetics and Cytology.
- Can. J. Plant Sci.** = Canadian Journal of Plant Science (Ottawa).
- Can. J. Res. Sect. D** = Canadian Journal of Research, Section D. Zoological Sciences.
- Can. J. Zool.** = Canadian Journal of Zoology (Ottawa).
- Canadex, Insects-Diseases-Pests, Weed Control/Beneficial Insects** = ?Canadex, Insects-Diseases-Pests, Weed Control/Beneficial Insects (Ottawa, Agriculture Canada).
- Carbohydr. Res.** = Carbohydrate Research.
- Caryologia** = Caryologia.
- Cas. Cesk. Spol. Entomol.** = Casopis Ceskoslovenske Spolenosti Entomologicke.
- Cas. Morav. Mus. Ved. Prir.** = Casopis Moravského Musea, Vedy Prirodni (Acta Musei Moraviae, Scientiae Naturales).
- Cas. Nar. Muz. Praze Rada Prirodoved.** = Casopis Narodního Muzea v Praze Rada Prirodovedna (Prague).
- Cas. Slez. Muz. Opava (A)** = Casopis Slezského Muzea, Opava.
- Cas. Slez. Zemsk. Muz. Ser. A Vedy Prir.** = Casopis Slezského Zemského Muzea Serie A Vedy Prirodni.
- Cecidology** = Cecidology.
- Ceiba** = Ceiba [Tegucigalpa, Honduras, Escuela Agrícola Panamericana].
- Cell Tissue Res.** = Cell and Tissue Research (Berlin).
- Cent. Inv. Frutic. Hortic. Vitivinic. Ser. Patol. Sanidad Veg. Circ.** = Centro de Investigación en Fruticultura, Horticultura y Vitivinicultura, Serie: Patología y Sanidad Vegetal. Circular.
- Ceylon Administration Reports, Agriculture** = Ceylon Administration Reports, Agriculture.
- Chacaras Quintaes** = Chacaras e Quintaes.
- Chem. Nat. Compd. (USSR)** = Chemistry of Natural Compounds (USSR).
- Chem. Senses** = Chemical Senses (Eynsham).
- Chin. J. Biol. Control** = Chinese Journal of Biological Control (Beijing).
- Chin. J. Entomol. Spec. Publ.** = Chinese Journal of Entomology (Taipei).
- Chin. J. Entomol.** = Chinese Journal of Entomology (Taipei).
- Chin. J. Trop. Crops** = Chinese Journal of Tropical Crops.
- Chin. J. Zool.** = Chinese Journal of Zoology.
- Chromatographia** = Chromatographia.
- Chromosoma (Berl.)** = Chromosoma (Berlin).
- CIE Taxonomy/Identification Service, unpublished report** = CIE Taxonomy/Identification Service, unpublished report.
- Cienc. Cult. (Sao Paulo)** = Ciencia e Cultura (Sao Paulo).
- Cienc. Invest. (B. Aires)** = Ciencica e Investigaciones (Buenos Aires).
- Cientifica (Jaboticabal)** = Cientifica (Jaboticabal).
- Cimbebasia** = Cimbebasia.
- Citrograph** = Citrograph.
- Citrus Subtrop. Fruit J.** = Citrus and Subtropical Fruit Journal.
- Cladistics** = Cladistics.
- Cocoa Res. Inst. (Ghana Akad. Sci.) Annu. Rep.** = Cocoa Research Institute, (Ghana Akad. Sci.), Annual Report.
- Colegio de Senioritas Publ. Ser. A** = Colegio de Senioritas Publicaciones, Serie A (San Jose, Costa Rica).
- Colemania** = Colemania.
- Coleopt. Bull.** = Coleopterists' Bulletin (Natchez).
- Collecting and Breeding** = Collecting and Breeding.
- Colloq. Int. C.N.R.S.** = Colloques Internationaux du Centre National de la Recherche Scientifique (Paris).
- Colo. Agric. Exp. Stn. Bull.** = Colorado Agricultural Experiment Station Bulletin.
- Commentat. Biol. Soc. Sci. Fenn.** = Commentationes Biologicae, Societas Scientiarum Fennica.
- Commonw. Inst. Biol. Control Annu. Rep.** = Commonwealth Institute of Biological Control, Annual Report.
- Commonw. Inst. Biol. Control Misc. Publ.** = Commonwealth Institute of Biological Control, Miscellaneous Publication.
- Commonw. Inst. Biol. Control Rep. (European Station, Delemont)** = Commonwealth Institute Biological Control Report (European Station, Delemont).

- Commonw. Inst. Biol. Control Rep. (Pakistan Station, Rawalpindi)** = Commonwealth Institute Biological Control Report (Pakistan Station, Rawalpindi).
- Commonw. Inst. Biol. Control Tech. Comm.** = Commonwealth Institute of Biological Control. Technical Communication.
- Commonw. Inst. Entomol. Distrib. Map. Insect Pests Ser. A Agric.** = Commonwealth Institute of Entomology, Distribution Maps of Insect Pests, Series A (Agricultural). London, Commonwealth Agricultural Bureaux.
- Commonw. Inst. Entomol. Distrib. Map. Pests Ser. A Agric.** = Commonwealth Institute of Entomology, Distribution Maps of Pests, Series A (Agricultural). London, Commonwealth Agricultural Bureaux.
- Comp. Biochem. Physiol. A Comp. Physiol.** = Comparative Biochemistry and Physiology, A (Comparative Physiology) (Oxford).
- Comp. Biochem. Physiol. B Comp. Biochem.** = Comparative Biochemistry and Physiology, B (Comparative Biochemistry) (Oxford).
- Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.** = Comparative Biochemistry and Physiology, C (Comparative Pharmacology and Toxicology) (Oxford).
- Comun. Acad. Repub. Pop. Rom.** = Comunicarile Academiei Republicii Populare Romine.
- Congr. Bras. Entomol. Resumos** = Congresso Brasileiro de Entomologia. Resumos.
- Conn. Agric. Exp. Stn. Annu. Rep.** = Connecticut Agricultural Experiment Station. Annual Report.
- Conn. Agric. Exp. Stn. Bull. (New Haven)** = Connecticut Agricultural Experiment Station. Bulletin (New Haven).
- Conn. Agric. Exp. Stn. Circ.** = Connecticut Agricultural Experiment Station. Circular (New Haven).
- Conn. State Geol. Nat. Hist. Surv. Bull.** = Connecticut State Geological and Natural History Survey Bulletin.
- Contr. Am. Entomol. Inst. (Ann Arbor)** = Contributions of the American Entomological Institute (Ann Arbor) (Gainesville).
- Contrib. Inst. Zool. Natl. Acad. Peiping** = Contributions from the Institute of Zoology, National Academy of Peiping.
- Cornell Univ. Agric. Exp. Stn. Bull.** = Cornell University Agricultural Experiment Station. Bulletin. (Agricultural Experiment Station of the College of Agriculture, Cornell University. Bulletin.)
- Cornell Univ. Agric. Exp. Stn. Mem.** = Agricultural Experiment Station, Cornell University. Memoir.
- Correspondenzbl. K. Wuerttemb. Landwirtsch. Ver., Stuttgart** = Correspondenzblatt des Koeniglich Wuerttembergischen Landwirthschaftlichen Vereins (Stuttgart, Tuebingen).
- Country Gent.** = Country Gentleman.
- Cour. Forschungsinst. Senckenb.** = Courier Forschungsinstituts Senckenberg.
- Cryo. lett.** = Cryo Letters (Cambridge).
- Cryobiology** = Cryobiology.
- Cult. and Country Gent.** = Cultivator and Country Gentleman.
- Curr. Res.** = Current Research.
- Curr. Sci. (Bangalore)** = Current Science (Bangalore).
- Custer Co. Courant** = Custer Co. Courant.
- Cytobios** = Cytobios.
- Cytologia** = Cytologia (Tokyo).
- Decheniana** = Decheniana.
- Deciduous Fruit Grower** = Deciduous Fruit Grower.
- Delta Dunarii** = Delta Dunarii.
- Denkschr. Akad. Wiss. Wien.** = Denkschriften der Kaiserlichen Akademie der Wissenschaften, Wien.
- Denkschr. Med. Natur. Ges. Jena** = Denkschriften der Medicinisch-Naturwissenschaftlichen Gesellschaft zu Jena.
- Dep. Agric. Tasmania** = Department of Agriculture, Tasmania.
- Dep. Sci. Ind. Res. N.Z. Bull.** = Department of Scientific and Industrial Research, New Zealand. Bulletin.
- Det Nye Dan. Landbrug** = Det Nye Dansk Landbrug (Kobenhavn).
- Dev. Biol.** = Developmental Biology (Duluth).
- Diamond Walnut News** = Diamond Walnut News.
- Dipt. Bohemoslov. (Bratislava)** = Dipt. Bohemoslov. (Bratislava).
- Dipt. Res.** = Dipterological Research
- Diss. rer. Natur. Bayreuth** = ?Diss. rer. Natur. Bayreuth.
- Dissertation Abstr. Int. B Sci. Eng.** = Dissertation Abstracts International [section] B: The Sciences and Engineering.
- Dokl. Acad. Nauk SSSR** = Doklady Akademii Nauk SSSR.
- Dokl. Akad. Nauk Arm. SSR** = Doklady Akademii Nauk Armyanskoi SSR.
- Dtsch. Entomol. Z. (N.S.)** = Deutsche Entomologische Zeitschrift (N.S.) (Berlin).
- Dtsch. Entomol. Z.** = Deutsche Entomologische Zeitschrift (Berlin).
- Dusenian** = Dusenian.
- East Afr. Agric. For. J.** = East African Agricultural and Forestry Journal.
- Ecol. Entomol.** = Ecological Entomology (Oxford).
- Ecol. Modell.** = Ecological Modelling (Amsterdam).
- Ecol. Mongr.** = Ecological Monographs (Tempe).
- Ecol. Res.** = Ecological Research (Carlton).
- Ecol. Stud.** = Ecological Studies.
- Ecology** = Ecology.
- Ege Univ. Ziraat Fak. Derg.** = Ege Universitesi, Ziraat Fakultesi, Dergizi (Izmir).
- Ege Univ. Ziraat Fak. Yayinlari** = Ege Universitesi, Ziraat Fakultesi, Yayinlari (Izmir).
- Egypt. J. Microbiol.** = Egyptian Journal of Microbiology.
- EMBO J.** = European Molecular Biology Organization Journal (Eynsham).
- Encycl. Entomol.** = Encyclopedie Entomologique.
- Ent News (Dep. Entomol. Newsl., U.S. Natl. Mus.)** = Ent News (Department of Entomology Newsletter, U.S. National Museum).

- Entomography** = Entomography.
- Entomol. Abh.** = Entomologische Abhandlungen (Dresden).
- Entomol. Beih.** = Entomologische Beihefte.
- Entomol. Ber. (Amst.)** = Entomologische Berichten (Amsterdam).
- Entomol. Ber. Luzern** = Entomologische Berichte, Luzern (Luzerne).
- Entomol. Exp. Appl.** = Entomologia Experimentalis et Applicata (Dordrecht).
- Entomol. Fenn.** = Entomologica Fennica (Helsinki).
- Entomol. Gaz.** = Entomologist's Gazette (Wallingford).
- Entomol. Gen.** = Entomologia Generalis (Stuttgart).
- Entomol. Hell.** = Entomologica Hellenica (Kifissia).
- Entomol. Jahrb.** = Entomologischen Jahrbuch.
- Entomol. Mag.** = Entomological Magazine, London.
- Entomol. Medd.** = Entomologiske Meddelelser (Copenhagen).
- Entomol. Mem. S. Afr. Dep. Agric. For.** = Entomology Memoirs. Union of South Africa. Department of Agriculture and Forestry.
- Entomol. Mem. S. Afr. Dep. Agric. Tech. Serv.** = Entomology Memoirs. Republic of South Africa. Department of Agricultural Technical Services.
- Entomol. Mem. S. Afr. Dep. Agric.** = Entomology Memoirs. Republic of South Africa. Department of Agriculture.
- Entomol. Mem. S. Afr. Dep. Agric.** = Entomology Memoirs. Union of South Africa. Department of Agriculture.
- Entomol. Mem. S. Afr. Dep. Agric.** = [Entomology] Memoirs. Union of South Africa. Department of Agriculture, Division of Entomology.
- Entomol. Mitt. Zool. Mus. Hambg.** = Entomologische Mitteilungen aus dem Zoologischen Museum, Hamburg (Hamburg).
- Entomol. Mitt.** = Entomologische Mitteilungen, Berlin-Dahlem.
- Entomol. Mon. Mag.** = Entomologists' Monthly Magazine (Wallingford).
- Entomol. Nachr.** = Entomologische Nachrichten. Berlin.
- Entomol. News** = Entomological News (Philadelphia).
- Entomol. Obozr.** = Entomologicheskoe Obozrenie [St. Petersburg].
- Entomol. Phytopathol. Appl.** = Entomologie et Phytopathologie Appliquees (Tehran).
- Entomol. Rec. J. Var.** = Entomologist's Record and Journal of Variation.
- Entomol. Rev.** = Entomological Review.
- Entomol. Scand. Suppl.** = Entomologica Scandinavica Supplementum (Sandby).
- Entomol. Scand.** = Entomologica Scandinavica (Stenstrup).
- Entomol. Soc. Qld. News Bull.** = Entomological Society of Queensland News Bulletin (Brisbane).
- Entomol. Tidskr.** = Entomologisk Tidskrift (Stockholm).
- Entomol. Z.** = Entomologische Zeitschrift (Essen).
- Entomologica (Bari)** = Entomologica (Bari).
- Entomologica Germ.** = Entomologica Germanica.
- Entomologist** = Entomologist (London).
- Entomon** = Entomon.
- Entomophaga** = Entomophaga.
- Entomotaxonomia** = Entomotaxonomia.
- Environ. Entomol.** = Environmental Entomology.
- Environ. Pollut.** = Environmental Pollution.
- Esakia** = Esakia.
- Esc. Agric. Ganad. Itesm. Monterrey, N.L. Mexico** = Escuela de Agricultura y Ganaderia, ITESM, Monterrey, N.L., Mexico.
- Estac. Exp. Agric. Tucuman** = Estacion Experimental Agricola de Tucuman.
- Estud. Agron. (Lisb.)** = Estudos Agronomicos (Lisboa).
- Ethology** = Ethology.
- Evol. Biol. (Bogota)** = Evolucion Biologica (Bogota).
- Evol. Ecol.** = Evolutionary Ecology (London).
- Evolution** = Evolution.
- Exp. Gerontol.** = Experimental Gerontology (Oxford).
- Experientia (Basel)** = Experientia (Basel).
- Ext. Bull. Wash. State Univ. Coop. Ext. Serv.** = Extension Bulletin, Washington State University Cooperative Extension Service.
- Ezheg. Zool. Muz.** = Ezhegodnik Zoologicheskago Muzeya Imperatorskoi Akademii Nauk St. Petersburg.
- Fabrerries** = Fabrerries.
- FAO Plant Prod. Prot. Pap.** = FAO Plant Production and Protection Paper.
- FAO Plant Prot. Bull.** = FAO Plant Protection Bulletin.
- FAO, Regional Office for Asia and the Pacific (RAPA)** = FAO, Regional Office for Asia and the Pacific (RAPA).
- Farming S. Afr.** = Farming in South Africa.
- Fauna Norv. Ser. B** = Fauna Norvegica Ser. B. (Oslo).
- Fauna** = Fauna.
- Faune de France** = Faune de France.
- Faunistilisi Markmeid** = Faunistilisi Markmeid.
- Feddes Repert. Z. Bot. Tax. Geobot.** = Feddes Repertorium Zeitschrift fuer Botanische Taxonomie und Geobotanik.
- Field Stud.** = Field Studies (Shrewsbury).
- Fieldiana Bot.** = Fieldiana, Botany.
- Fitofilo** = Fitofilo (San Jacinto).
- Fla. Dep. Agric. Consum. Serv. Div. Plant Ind. Entomol. Circ.** = Florida Department of Agriculture and Consumer Services Division of Plant Industry Entomology Circular (Gainesville).
- Fla. Dep. Agric. Div. Plant Industry, Entomol. Circ.** = Florida Department of Agriculture Division of Plant Industry Entomology Circular (Gainesville).
- Fla. Dep. Agric. Div. Plant Industry, Entomol. Leafl.** = Florida Department of Agriculture Division of Plant Industry Entomology Leaflet.
- Fla. Entomol.** = Florida Entomologist (Winter Haven).
- Fla. Grower Rancher** = Florida Grower and Rancher.
- Fla. Grower** = Florida Grower.
- Fla. State Hortic. Soc.** = Florida State Horticultural Society.

- Fla. State Plant Board, Bien. Rep.** = Florida State Plant Board. Biennial Report.
- Fla. State Plant Board** = Florida State Plant Board.
- Flygbl. St. Vaxtskyddsanst.** = Flygblad. Statens Vaxtskyddsanstalt (Stockholm).
- Folia Entomol. Hung.** = Folia Entomologica Hungarica (Budapest).
- Folia Entomol. Mex.** = Folia Entomologica Mexicana (Xalapa).
- Folia Fac. Sci. Nat. Univ. Purkynianae Brun. Biol.** = Folia Facultatis Scientiarum Naturalium Universitatis Purkynianae Brunensis Biologia (Brno).
- Folia Fac. Sci. Nat. Univ. Purkynianae Brunensis** = Folia Facultatis Scientiarum Naturalium Universitatis Purkynianae Brunensis.
- FONAIAP Divulga** = FONAIAP Divulga.
- Food Technol. Aust.** = Food Technology in Australia.
- Forsk. Fors. Landbruket** = Forskning og Forsok i Landbruket.
- Fortschr. Zool.** = Fortschritte der Zoologie (Stuttgart).
- Fragm. Entomol.** = Fragmenta Entomologica.
- Fragm. Faun. Hung.** = Fragmenta Faunistica Hungarica (Budapest).
- Fragm. Faun. (Warsaw)** = Fragmenta Faunistica (Warsaw).
- Front. Plant Sci.** = Frontiers of Plant Science (New Haven).
- Fruit Notes** = Fruit Notes, Coop. Ext. Serv., Univ. Mass.
- Fruitgrower** = Fruitgrower.
- Fruits (Paris)** = Fruits (Paris).
- Frustula Entomol. (N.S.)** = Frustula Entomologica (N.S.) (Pisa).
- Garcia de Orta (Lisb.)** = Garcia de Orta (Lisbon).
- Gardener's Chron. Am.** = Gardener's Chronicle of America.
- Gartneryrket** = Gartneryrket.
- Gen. Appl. Entomol.** = General and Applied Entomology (Sydney).
- Genera Insectorum** = Genera Insectorum.
- Genetica (The Hague)** = Genetica (The Hague).
- Genetics** = Genetics.
- Genome** = Genome.
- Geol. Surv. Wyo. Bull.** = Geological Survey of Wyoming Bulletin (Laramie).
- Georgia Exp. Stn. Annu. Rep.** = Georgia Experiment Station. Annual Report.
- Gesunde Pflanz.** = Gesunde Pflanzen.
- God. Sofii. Univ.** = Godishnik na Sofiiskiya Universitet.
- Graellsia** = Graellsia.
- Great Basin Nat.** = Great Basin Naturalist (Provo).
- Great Lakes Entomol.** = Great Lakes Entomologist (East Lansing).
- Gremio Export. Frutas Madeira.** = Gremio Export. Frutas Madeira.
- Handb. Identif. Br. Insects** = Handbooks for the Identification of British Insects (London).
- Handb. Zool. (Berl.)** = Handbuch der Zoologie (Berlin).
- Haryana Agric. Univ. J. Res.** = Haryana Agricultural University Journal of Research (Hisar).
- Hawaii. For. Agric.** = Hawaiian Forestry and Agriculture.
- Hawaii Agric. Exp. Stn. Tech. Bull.** = Hawaii Agricultural Experiment Station, Technical Bulletin.
- Hawaii Med. J.** = Hawaii Medical Journal (Honolulu).
- Hawaii. Plant. Rec.** = Hawaiian Planters' Record.
- Hawaii Univ. Ext. Misc. Publ.** = Hawaii University Extension. Miscellaneous Publication.
- Health, J. Commonwealth Dep. Health** = Health, J. Commonwealth Department of Health.
- Herbage Publ. Ser. Bull., Aberystwith** = Herbage Publ. Ser. Bull., Aberystwith, Imperial Bureau of Pastures and Forage Crops.
- Heredity** = Heredity.
- Hilgardia** = Hilgardia.
- Histochemistry** = Histochemistry (Berlin).
- Hofchen-Briefe** = Hofchen-Briefe.
- Hojas Divulgadores, Ministerio de Agricultura, Pesca y Alimentacion Spain** = Hojas Divulgadores, Ministerio de Agricultura, Pesca y Alimentacion Spain.
- Horae Soc. Entomol. Ross.** = Horae Societatis Entomologicae Rossicae.
- HortScience** = HortScience.
- Hortus (Zimbabwe)** = Hortus (Zimbabwe).
- I.A.E.A. Proc. Ser.** = International Atomic Energy Agency Proceedings Series.
- Idaho Univ. Coll. Agric. Misc. Ser.** = University of Idaho, College of Agriculture, Miscellaneous Series.
- IDIA** = IDIA. Revista del Instituto Nacional de Tecnologia Agropecuaria.
- II Congreso de Ciencias Naturales y Afines (Caracas)** = II Congreso de Ciencias Naturales y Afines (Caracas).
- Ill. Biol. Monogr.** = Illinois Biological Monographs (Champaign).
- Ill. State Mus., Story of Ill. Ser.** = Illinois. State Museum, Springfield. Story of Illinois Series.
- Ind. Dep. Geol. Nat. Resour., Annu. Rep.** = Indiana Department of Geology and Natural Resources. Annual Report (Indianapolis).
- Indian Drugs** = Indian Drugs.
- Indian Farming** = Indian Farming.
- Indian Hortic.** = Indian Horticulture.
- Indian J. Agric. Sci.** = Indian Journal of Agricultural Science (New Delhi).
- Indian J. Ecol.** = Indian Journal of Ecology (Ludhiana).
- Indian J. Entomol.** = Indian Journal of Entomology (New Delhi).
- Indian J. For.** = Indian Journal of Forestry (Dehra Dun).
- Indian J. Plant Prot.** = Indian Journal of Plant Protection (Hyderabad).
- Indian Mus. Notes** = Indian Museum Notes. Calcutta.
- Inf. Agrar.** = Informatore Agrario (Verona).
- Inf. byull. vopr. karantina rast.** = ????
- Inf. Estac. Exp. Agric. "La Molina" Lima** = Informe Estacion Experimental Agricola de "La Molina," Lima.
- Inf. Fitopatol.** = Informatore Fitopatologico.
- Informationsbericht der Landwirtschaftlichen Hochschule Nitra -Biologische Grundlagen der**

- Landwirtschaft. Sammelschrift der Referate vom Seminar 'Über die Fauna der Westkarpaten' /Nitra 26.-27.XI.**
- Inligtingsbulletin - Navorsingsinsituut vir Citrus en Subtropiese Vrugte** = Inligtingsbulletin -Navorsingsinsituut vir Citrus en Subtropiese Vrugte.
- Insect Biochem. Mol. Biol.** = Insect Biochemistry and Molecular Biology.
- Insect Biochem.** = Insect Biochemistry (Oxford).
- Insect Life** = Insect Life.
- Insect Mol. Biol.** = Insect Molecular Biology (Oxford).
- Insect Sci. Appl.** = Insect Science and its Application (Nairobi).
- Insect World Dig.** = Insect World Digest.
- Insect World, Gifu** = Insect World (Gifu).
- Insecta Helvetica Fauna** = Insecta Helvetica, Fauna (Geneva).
- Insecta Koreana (Ser. 5)** = Insecta Koreana (Ser. 5).
- Insecta Matsumurana** = Insecta Matsumurana.
- Insecta Mundi** = Insecta Mundi.
- Insecta Rev. Illustr. Entomol. (Rennes)** = Insecta Revue Illustrée d'Entomologie (Rennes).
- Insects Micrones.** = Insects of Micronesia (Honolulu).
- Insecutor Insc. Menstr.** = Insecutor Inscitiae Menstruus, Washington.
- Inside APHIS** = Inside APHIS.
- Int. Biol. Programme** = International Biological Programme (Cambridge).
- Int. Congr. Entomol.** = International Congress of Entomology.
- Int. Inst. Biol. Cont. Rep. (European Stn.)** = International Institute of Biological Control. Report (European Station).
- Int. Inst. Entomol. Distrib. Map. Pests Ser. A Agric.** = International Institute of Entomology, Distribution Maps of Pests, Series A (Agricultural). London, Commonwealth Agricultural Bureaux.
- Int. J. Biol. Macromol.** = International Journal of Biological Macromolecules (Letchworth).
- Int. J. Entomol.** = International Journal of Entomology.
- Int. J. Insect Morphol. Embryol.** = International Journal of Insect Morphology and Embryology (Oxford).
- Int. J. Pest Manage.** = International Journal of Pest Management.
- Int. J. Pharmacogn.** = International Journal of Pharmacognosy: a journal of crude drug research.
- Int. Pest Control** = International Pest Control.
- Int. Wildl.** = International Wildlife (Vienna).
- Introductory Research Essay** = Introductory Research Essay.
- Invertebr. Taxon.** = Invertebrate Taxonomy (Melbourne).
- Invertebr. Pac.** = Invertebrata Pacifica.
- Invest. Agrar. Prod. Prot. Veg.** = Investigacion Agraria, Produccion y Proteccion Vegetales.
- Iowa State J. Res.** = Iowa State Journal of Research (Ames).
- IPM Practitioner** = IPM Practitioner.
- Ir. Nat. J.** = Irish Naturalists' Journal (Belfast).
- Iraq Nat. Hist. Mus. Publ.** = Iraq Natural History Museum Publication (Baghdad).
- IRCS (Int. Res. Commun. Syst.) Med. Sci.** = IRCS (Int. Res. Commun. Syst.) Medical Science.
- Irrig. Mex.** = Irrigacion en Mexico.
- Isle of Wight Nat. Hist. Archaeol. Soc. Proc.** = Isle of Wight Natural History and Archaeological Society Proceedings (Newport).
- Isr. J. Entomol.** = Israel Journal of Entomology (Bet Dagan).
- Israel - Land Nat.** = Israel - Land and Nature (Tel Aviv).
- Izd. Tsentr. Karant. Lab. Moskva** = Izdanie Tsentralnoi Karantinnoi Laboratorii, Moskva.
- Izv. Akad. Nauk Kaz. SSR, Ser. Biol.** = Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Biologicheskaya.
- Izv. Akad. Nauk Turkm. SSR, Ser. Biol. Nauk** = Izvestiya Akademii Nauk Turkmenskoi SSR, Seriya Biologicheskikh Nauk.
- Izv. Sib. Otd. Akad. Nauk SSSR, Ser. Biol. Nauk** = Izvestiya Sibirskogo Otdeleniya Akademii Nauk SSSR, Seriya Biologicheskikh Nauk.
- J. Acad. Nat. Sci. Phila.** = Journal of the Academy of Natural Sciences of Philadelphia (Philadelphia).
- J. Adv. Zool.** = Journal of Advanced Zoology (Golghar).
- J. Afr. Zool.** = Journal of African Zoology (Wavre).
- J. Agric. Entomol.** = Journal of Agricultural Entomology (Central).
- J. Agric. Food Chem.** = Journal of Agricultural and Food Chemistry.
- J. Agric. Res.** = Journal of Agricultural Research (Washington D.C.).
- J. Agric. Tasmania** = Journal of Agriculture, Tasmania.
- J. Agric. Univ. P. R.** = Journal of Agriculture of the University of Puerto Rico (Rio Piedras).
- J. Agric. (Victoria, Aust.)** = Journal of Agriculture (Victoria, Australia).
- J. Am. Soc. Hortic. Sci.** = Journal of the American Society for Horticultural Science (Alexandria).
- J. Anim. Ecol.** = Journal of Animal Ecology (Oxford).
- J. Anim. Morphol. Physiol.** = Journal of Animal Morphology and Physiology (Baroda).
- J. Appl. Ecol.** = Journal of Applied Ecology (Oxford).
- J. Appl. Entomol.** = Journal of Applied Entomology (Hamburg).
- J. Asiatic Soc. Bengal** = Journal of the Asiatic Society of Bengal.
- J. Aust. Entomol. Soc.** = Journal of the Australian Entomological Society (Indooroopilly).
- J. Aust. Inst. Agric. Sci.** = Journal of the Australian Institute of Agricultural Science (Parkville).
- J. Bengal Nat. Hist. Soc.** = Journal of the Bengal Natural History Society (Darjeeling).
- J. Biol. Control** = Journal of Biological Control (Coimbatore).
- J. Biol. Educ.** = Journal of Biological Education (London).
- J. Bombay Nat. Hist. Soc.** = Journal of the Bombay Natural History Society (Bombay).

- J. Cell. Biochem. Suppl.** = Journal of Cellular Biochemistry Supplement (New York).
- J. Cell. Sci.** = Journal of Cell Science.
- J. Chem. Ecol.** = Journal of Chemical Ecology (New York).
- J. Chem. Soc. Perkin Trans. I** = Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (Leitchworth).
- J. Chin. Soc. Hortic. Sci.** = Journal of the Chinese Society for Horticultural Science (=Chung-kuo yuan i hsueh hui chu pien), (Taipei).
- J. Chromatogr. A** = Journal of Chromatography A.
- J. Cincinnati Soc. Nat. Hist.** = Journal of the Cincinnati Society of Natural History.
- J. Cycle Biozool. Acad. Sci. Ukr.** = (Zhurnal Heleoho-Heohrafichnoho Tsyklu).
- J. Dep. Agric. P. Rico** = Journal of the Department of Agriculture of Porto Rico.
- J. Dep. Agric. Vic.** = Journal of the Department of Agriculture, Victoria, Australia.
- J. Dep. Agric. West. Aust.** = Journal of the Department of Agriculture, Western Australia.
- J. East Afr. Uganda Nat. Hist. Soc.** = Journal of the East Africa and Uganda Natural History Society.
- J. Ecol.** = Journal of Ecology (Oxford).
- J. Econ. Biol.** = Journal of Economic Biology.
- J. Econ. Entomol.** = Journal of Economic Entomology.
- J. Embryol. Exp. Morphol.** = Journal of Embryology and Experimental Morphology (Cambridge).
- J. Entomol. Res. (New Delhi)** = Journal of Entomological Research (New Delhi).
- J. Entomol. Sci.** = Journal of Entomological Science (Tifton).
- J. Entomol. Soc. B.C.** = Journal of the Entomological Society of British Columbia (Victoria).
- J. Entomol. Soc. Queensl.** = Journal of the Entomological Society of Queensland.
- J. Entomol. Soc. South. Afr.** = Journal of the Entomological Society of Southern Africa (Pretoria).
- J. Entomol. Zool.** = Journal of Entomology and Zoology.
- J. Environ. Sci. Health Part A Environ. Sci. Eng.** = Journal of Environmental Science and Health Part A Environmental Science and Engineering (New York).
- J. Ethol.** = Journal of Ethology (Kyoto).
- J. Fed. Malay States Mus.** = Journal of the Federated Malay States Museums.
- J. Formosan Sugar Planters Assoc.** = Journal of the Formosan Sugar Planters Association.
- J. Ga. Entomol. Soc.** = Journal of the Georgia Entomological Society.
- J. Heredity** = Journal of Heredity (Cary).
- J. Hortic. Sci.** = Journal of Horticultural Science (Ashford).
- J. Hymenopt. Res.** = Journal of Hymenoptera Research.
- J. Indian Entomol.** = Journal of Indian Entomology.
- J. Insect Behav.** = Journal of Insect Behavior (New York).
- J. Insect Physiol.** = Journal of Insect Physiology (Oxford).
- J. Insect Sci.** = Journal of Insect Science (Ludhiana).
- J. Inst. Sci.** = Journal of the Institute of Science. (Nepal).
- J. Iowa Acad. Sci.** = Journal of the Iowa Academy of Science (Cedar Falls).
- J. Kans. Entomol. Soc.** = Journal of the Kansas Entomological Society (Lawrence).
- J. Linn. Soc. Lond. Zool.** = Journal of the Linnean Society, Zoology. London.
- J. Maharashtra Agric. Univ.** = Journal of the Maharashtra Agricultural Universities (Pune).
- J. Morphol.** = Journal of Morphology (New York).
- J. Nucl. Agric. Biol.** = Journal of Nuclear Agriculture and Biology (New Delhi).
- J. N.Y. Entomol. Soc.** = Journal of the New York Entomological Society.
- J. Org. Chem.** = Journal of Organic Chemistry (Washington).
- J. Plant Prot. (Nippon Plant Prot. Soc.)** = Journal of Plant Protection.
- J. Plant Prot. Trop.** = Journal of Plant Protection in the Tropics (Serdang).
- J. Proc. Linn. Soc. Lond. Zool.** = Journal of Proceedings of the Linnean Society, Zoology. London.
- J. R. Hortic. Soc.** = Journal of the Royal Horticultural Society.
- J. Rio Grande Val. Hortic. Soc.** = Journal of the Rio Grande Valley Horticultural Society.
- J. Soc. Bibliogr. Nat. Hist.** = Journal of the Society for the Bibliography of Natural History.
- J. Taiwan Mus.** = Journal of Taiwan Museum (Taipei).
- J. Tenn. Acad. Sci.** = Journal of the Tennessee Academy of Science (Hixson).
- J. Therm. Biol.** = Journal of Thermal Biology (Oxford).
- J. Ukr. Entomol. Soc.** = Journal of the Ukrainian Entomological Society.
- J. Wash. Acad. Sci.** = Journal of the Washington Academy of Science (Arlington).
- Jahresber. Ver. Naturkd Zwickau Sachsen** = Jahresbericht des Vereins fuer Naturkunde zu Zwickau in Sachsen.
- Jahresh. Ver. Vaterl. Naturkd. Wuerttemb.** = Jahreshefte des Vereins fuer Vaterlaendische Naturkunde in Wuerttemberg (Stuttgart).
- Jpn. Agric. Res. Q.** = Japanese Agricultural Research Quarterly.
- Jpn. J. Appl. Entomol. Zool.** = Japanese Journal of Applied Entomology and Zoology (Tokyo).
- Jpn. J. Ecol.** = Japanese Journal of Ecology (Nippon Seitai Gakkaishi) (Sapporo).
- Jpn. J. Entomol.** = Japanese Journal of Entomology (Tokyo).
- Jpn. Pestic. Inf.** = Japan Pesticide Information.
- K. Sven. Vetenskapskad. Handl.** = Kungliga Svenska Vetenskapakademiens Handlingar.
- Kans. Univ. Q.** = Kansas University Quarterly.
- Kans. Univ. Sci. Bull.** = Kansas University Science Bulletin.
- Kasetsart J. Nat. Sci.** = Kasetsart Journal, Natural Sciences (Bangkok).
- Kenya Entomol. Newsletter** = Kenya Entomologist's Newsletter.

Kinugasa Gakuho = Kinugasa Gakuho [=Sansiga-kuho] (Kyoto).

Koedoe = Koedoe.

Konowia = Konowia.

Kontyu = Kontyu.

Korean J. Appl. Entomol. = Korean Journal of Applied Entomology (Suwon).

Kranke Pflanze = Kranke Pflanze.

Kulonlenyomat a Kertszeti Kutatointezet III. Evkonyvebol = Kulonlenyomat a Kertszeti Kutatointezet III. Evkonyvebol.

Kulonlenyomat az Allattani Kozlemenyek = Kulonlenyomat az Allattani Kozlemenyek.

Lab. Zool. Agric. Ec. Hautes Etudes Agron. Athens = ?Lab. Zool. Agric. Ec. Hautes Etudes Agron. Athens.

Lagascalia = Lagascalia.

Laranja = Laranja.

Liebigs Ann. Chem. = Liebigs Annalen der Chemie (Weinheim).

Liet. Mokslu. Akad. Ekol. = Lietuvos Mokyklu Mokslo Akademijos Ekologija (Vilnius).

Lilloa = Lilloa.

Linn. Entomol. = Linnaea Entomologica. Berlin.

Litchi Yearb. - S. Afr. Litchi Grow. Assoc. = Litchi Yearbook - South African Litchi Growers' Association.

Lond. Nat. = London Naturalist (London).

Lucrarile celei de a III-a Conferinta de Entomologie, Iasi, 2-22 mai, 1983 = Lucrarile celei de a III-a Conferinta de Entomologie, Iasi, 2-22 mai, 1983.

Madras Agric. J. = Madras Agricultural Journal (Coimbatore).

Maerkische Tierwelt = Maerkische Tierwelt. Zeitschrift fuer die Faunistische Erforschung der Kurmark, Berlin.

Mag. Insektenkd. = Magazin fuer Insektenkunde.

Magon = Magon.

Magyarorsz. Allatvilaga = Magyarorszag Allatvilaga (Budapest).

Maine Agric. Exp. Stn. Annu. Rep. = Maine Agricultural Experiment Station. Annual Report.

Maine Agric. Exp. Stn. Bull. = Maine Agricultural Experiment Station Bulletin.

Maine Agric. Exp. Stn. Misc. Publ. = Maine Agricultural Experiment Station. Miscellaneous Publication.

Maine State Coll. Agric. Exp. Stn. Bull. = Maine State College Agricultural Experiment Station. Bulletin.

Maine State Coll., Annu. Rep. [Dir. Agric. Exp. Stn.] = Maine State College, Annual Report [Director, Agricultural Experiment Station].

Maine State Coll. Exp. Stn. Rep. = Maine State College Agricultural Experiment Station. Report.

Makunagi = Makunagi.

Malays. Appl. Biol. = Malaysian Applied Biology (Bangi).

Marcellia = Marcellia. Rivista Internazionale di Cecidologia.

Maslob.-Zhir. Delo = Masloboino-Zhirovoe Delo.

Matsumushi = Matsumushi.

Medd. Soc. Fauna Flora Fenn. = Meddelanden af Societas pro Fauna et Flora Fennica (Helsingfors).

Meddelande No. 283 fran Centralanstalten for forsoksvasendet pa jordbruksomradet. Entomologiska avdelningen = Meddelande No. 283 fran Centralanstalten for forsoksvasendet pa jordbruksomradet. E

Meded. Inst. Plziek. = Mededelingen van het Instituut voor Plantenziekten.

Meded. Lab. Plantenziekten = Mededelingen van het Laboratorium voor Plantenziekten.

Meded. Proefstn. Thee = Mededeelingen van het Proefstation voor Thee.

Melanderia = Melanderia.

Meld. Plantev = ?Melding. Statens plantevern (Oslo).

Melsheimer Entomol. Ser. = Melsheimer Entomological Series (Harrisburg).

Mem. Acad. R. Sci. Hist. Math. Phys., Paris = Memoires de l'Academie Royale des Sciences avec les Memoires de Mathematique et de Physique.

Mem. Am. Entomol. Soc. = Memoirs of the American Entomological Society (Philadelphia).

Mem. Cl. Sci. Accad. Zelanti = Memorie della Classe di Scienze della R. Accademia degli Zelanti.

Mem. Dep. Agric. India Entomol. Ser. = Memoirs of the Department of Agriculture in India, Entomological Series.

Mem. Entomol. Soc. Can. = Memoirs of the Entomological Society of Canada (Ottawa).

Mem. Entomol. Soc. South. Afr. = Journal of the Entomological Society of Southern Africa (Pretoria).

Mem. Entomol. Soc. Wash. = Memoirs of the Entomological Society of Washington (Washington).

Mem. Estud. Mus. Zool. Univ. Coimbra = Memorias e Estudos do Museu Zoologica da Universidade de Coimbra.

Mem. Fac. Sci. Agric., Taihoku Imp. Univ. = Memoirs of the Faculty of Science and Agriculture, Taihoku Imperial University.

Mem. Indian Mus. = Memoirs of the Indian Museum.

Mem. Inst. Oswaldo Cruz Rio de J. = Memorias do Instituto Oswaldo Cruz, Rio de Janeiro (Rio de Janeiro).

Mem. Inst. Sci. Madagascar, Ser. E = Memoires de l'Institut Scientifique de Madagascar, Serie E.

Mem. Pres. Div. Sav. Acad. R. Sci. Inst. Fr. = Memoires presente par divers savans, Academie Royale des Sciences, Institut de France, Classe des Sciences Mathematiques et Physique. Paris.

Mem. Queensl. Mus. = Memoirs of the Queensland Museum (Brisbane).

Mem. R. Accad. Sci. Torino = Memorie della Real' Accademia delle Scienze Torino.

Mem. R. Soc. Esp. Hist. Nat. = Memorias de la Real Sociedad Espanola de Historia Natural.

Mem. Soc. Agric. Dep. Seine = Memoires d'Agriculture, d'Economie Rurale e Domestique, publies par la Societe d'Agriculture du Departement de la Seine (Paris).

- Mem. Soc. Entomol. Egypte** = Memoires de la Societe Entomologique de Egypte.
- Mem. Soc. Entomol. Que.** = Memoires de la Societe Entomologique du Quebec.
- Mem. Soc. Imp. Sci. Agric. Arts, Lille** = Memoires de la Societe Imperial des Sciences, de l'Agriculture et des Arts de Lille.
- Mem. Soc. Linn. Normandie** = Memoires de la Societe Linneenne de Normandie.
- Mem. Soc. Natl. Sci. Agric. Arts, Lille** = Memoires de la Societe Nationale des Sciences, de l'Agriculture et des Arts de Lille.
- Mem. Soc. R. Sci. Agric. Arts Lille** = Memoires de la Societe Royale des Sciences, de l'Agriculture et des Arts de Lille.
- Mem. Soc. Sci. Nat. Phys. Maroc** = Memoires de la Societe des Sciences Naturelles et Physiques du Maroc.
- Mem. XXVI Congr. Nac. Entomol., Veracruz, Veracruz, Mexico** = Memorias XXVI Congr. Nac. Entomol., Veracruz, Veracruz, Mexico.
- Mesopotamia J. Agric.** = Mesopotamia Journal of Agriculture.
- Mex. Gulf Coast Citrus Assoc. Circ.** = Mexico Gulf Coast Citrus Association Circular.
- Mich. Entomol.** = Michigan Entomologist.
- Mich. Geol. Biol. Surv. Publ.** = Michigan Geological and Biological Survey Publication.
- Mich. State Board Agric., Annu. Rep. Sec.** = Michigan State Board of Agriculture, Annual Report of the Secretary.
- Mich. State Coll. Agric. Exp. Stn. Circ. Bull.** = Michigan State College. Agricultural Experiment Station. Circular Bulletin.
- Mich. State Coll. Ext. Bull.** = Michigan State College. Extension Bulletin.
- Microbiol. Sci.** = Microbiological Sciences.
- Microchem. J.** = Microchemical Journal.
- Microentomology** = Microentomology.
- Mikrochim. Acta** = Mikrochimica Acta.
- Min. Agric. Ganad. Argentina (Buenos Aires) Ser. B** = Ministerio de Agricultura y Ganaderia, Republica Argentina (Buenos Aires) Ser. B.
- Min. Agric. Fish. Food, ADAS leaflet** = Ministry of Agriculture, Fisheries and Food, ADAS leaflet.
- Minn. Agric. Exp. Stn. Bull.** = Bulletin. Agricultural Experiment Station. University of Minnesota.
- Minn. State Agric. Exp. Stn., Entomol. Annu. Rep.** = Report of the State Entomologist of Minnesota to the Governor [=Annual Report of the Entomologist of the State Experiment Station of the University of Minnesota to the Governor].
- Misc. Publ. Entomol. Soc. Am.** = Miscellaneous Publications of the Entomological Society of America.
- Miscelanea Prognostica** = Miscelanea Prognostica.
- Missione Biol. Paese dei Borana** = ?Missione Biologia Paese dei Borana.
- Mitt. Bulgar. Entomol. Ges., Sofia** = Mitteilungen der Bulgarischen entomologischen Gesellschaft, Sofia {Izvestiya na Bulgarskoto entomologichno Druzhestvo, Sofia},.
- Mitt. Dtsch. Entomol. Ges.** = Mitteilungen der Deutschen Entomologischen Gesellschaft.
- Mitt. Dtsch. Ges. Allg. Angew. Entomol.** = Mitteilungen der Deutschen Gesellschaft fuer Allgemeine und Angewandte Entomologie (Bremen).
- Mitt. Entomol. Ges. Basel** = Mitteilungen der Entomologische Gesellschaft, Basel (Munchestein).
- Mitt. Naturwiss. Ver. Steiermark** = Mitteilungen des Naturwissenschaftlichen Vereines fuer Steiermark (Graz).
- Mitt. Schweiz. Entomol. Ges.** = Mitteilungen der Schweizerischen Entomologischen Gesellschaft (Zurich).
- Mitt. Zool. Mus. Berl.** = Mitteilungen aus dem Zoologischen Museum in Berlin.
- Mol. Phylogenet. Evol.** = Molecular Phylogenetics and Evolution.
- Mon. Bull. Calif. Dep. Agric.** = Monthly Bulletin of the Department of Agriculture. State of California (Sacramento).
- Mon. Bull. Calif. State Comm. Hortic.** = Monthly Bulletin of the State Commission of Horticulture, State of California.
- Mon. Bull. State Comm. Hortic.** = Monthly Bulletin of the State Commission of Horticulture, State of California.
- Mon. Bull. State Plant Board Fla.** = Monthly Bulletin of the State Plant Board of Florida.
- Mont. Agric. Exp. Stn. Bull.** = Montana, Agricultural Experiment Station, Bulletin.
- Montana AgResearch** = Montana AgResearch.
- Mushi** = Mushi.
- Mycol. Res.** = Mycological Research (Cambridge).
- Myrmecia** = Myrmecia.
- N. Am. Fauna** = North American Fauna (Washington).
- N. Engl. Fruit Meet. Proc. Annu. Meet. Mass. Fruit Grow. Assoc.** = New England Fruit Meetings. Proceedings of the Annual Meeting - Massachusetts Fruit Growers' Association.
- Nasekomye Mongol.** = Nasekomye Mongolii [Insects of Mongolia].
- Nat. Hist.** = Natural History (New York).
- Nat. Malays.** = Nature Malaysiana.
- Natl. Geogr. Mag.** = National Geographic Magazine.
- Natl. Mus. Tanzania Occas. Pap.** = National Museum of Tanzania. Occasional Papers.
- Natl. Sci. Council. Mon.** = National Science Council Monthly. Republic of China.
- NATO Adv. Sci. Inst. Ser. G Ecol. Sci.** = NATO Advanced Science Institutes Series G: Ecological Sciences.
- Natur Mus., Frankf.** = Natur und Museum (Frankfurt-am-Main).
- Naturalia (Rio Claro)** = Naturalia (Rio Claro).
- Naturalist (Doncaster)** = Naturalist (Doncaster).
- Naturalist (Hull)** = Naturalist (Hull).

Naturalists' Handbooks, Cambridge = Naturalists' Handbooks, Cambridge.

Nature and Life in Southeast Asia = Nature and Life in Southeast Asia.

Nature (Lond.) = Nature (London).

Naturwet. Stud. Suriname, the Hague = ?Naturwet. Stud. Suriname, the Hague.

Naturwissenschaften = Naturwissenschaften.

Natuurkd. Tijdschr. Ned. Indie = Natuurkundig Tijdschrift voor Nederlandsch Indie.

Nauchn. Dokl. Vyssh. Shk. Biol. Nauki = Nauchnye Doklady Vysshei Shkoly Biologicheskoe Nauki (Moscow).

Neth. J. Zool. = Netherlands Journal of Zoology (Leiden).

New Guinea Agric. Gaz. = New Guinea Agricultural Gazette.

New Sci. = New Scientist (London).

Niger. Entomol. Mag. = Nigerian Entomologist's Magazine.

Niger. J. Entomol. = Nigerian Journal of Entomology.

Niger. J. Plant Prot. = Nigerian Journal of Plant Protection.

N.J. Agric. Exp. Stn. Bull. = New Jersey, Agricultural Experiment Station, Bulletin.

N.J. Dep. Agric. Circ. = New Jersey Department of Agriculture Circular.

Nojikairy-shiryō = Nojikairy-shiryō.

Northwest Sci. = Northwest Science (Tacoma).

Norw. J. Agric. Sci. = Norwegian Journal of Agricultural Sciences.

Norw. J. Entomol. = Norwegian Journal of Entomology.

Not. Entomol. = Notulae Entomologicae (Helsinki).

Nova Guinea = Nova Guinea.

Nova Scotia Prov. Dep. Agric. Bull. = Province of Nova Scotia, Department of Agriculture, Bulletin.

N.S.W. Dep. Agric. Farmer's Bull. = New South Wales, Department of Agriculture, Farmer's Bulletin.

Nuove Relaz. R. Staz. Entomol. Agr. Firenze = Nuove Relazioni intorno ai lavori della R. Stazione di Entomologia Agraria di Firenze.

N.Y. Agric. Exp. Stn. Ithaca Bull. = New York, Agricultural Experiment Station, Ithaca, Bulletin.

N.Y. Agric. Exp. Stn. Ithaca Mem. = New York, Agricultural Experiment Station, Ithaca, Memoirs.

N.Y. Agric. Exp. Stn. Tech. Bull. = New York, Agricultural Experiment Station, Technical Bulletin.

N.Y. State Agric. Exp. Stn. Circ. = New York State Agricultural Experiment Station, Circular (Geneva).

N.Y. State Mus. Bull. = New York State Museum, Bulletin.

N.Z. Dep. Sci. Ind. Res. Inf. Ser. = New Zealand Department of Scientific and Industrial Research Information Series (Wellington).

N.Z. Entomol. = New Zealand Entomologist (Auckland).

N.Z. J. Agric. Res. = New Zealand Journal of Agricultural Research (Auckland).

N.Z. J. Sci. = New Zealand Journal of Science.

N.Z. Sci. Rev. = New Zealand Science Review (Wellington).

O Campo = O Campo.

Occas. Pap. Bernice P. Bishop Mus. = Occasional Papers of the Bernice Pauahi Bishop Museum.

Occas. Pap. Boston Soc. Nat. Hist. = Occasional Papers of the Boston Society of Natural History (Boston).

Occas. Pap. Calif. Dep. Agric. Bur. Entomol. = Occasional Papers, California Department of Agriculture, Bureau of Entomology.

Occas. Pap. Paleobiol. St. Cloud State Univ. = Occasional Papers in Paleobiology, St. Cloud State University.

Occas. Pap. Rhod. Mus. = Occasional Papers of the Rhodesian Museum.

Ochr. Rost. v Zened. Velkov. = Ochrana Rostlin v Zemelske Velkovyrobe [Sbornik Vysoke Skoly Zemelske Praha, Fakulta Agronomicka].

Ochrana Prirody = Ochrana Prirody.

Ocot. Nat. Med. Inconj. = Ocotirea Naturii si a Mediu-lui i Conjurator.

Oecologia (Berl.) = Oecologia (Berlin).

Ofvers. Finska Vetensk.-Soc. Forh. = Ofversigt af Finska Vetenskaps-Societetens Forhandlingar. Afd. A. Matematik och Naturvetenskaper (Helsingfors).

Ofvers. K. Svenska Vetenskapakad. Forh. = Ofversigt af Kongliga Svenska Vetenskapakademiens Forhandlingar (Stockholm).

Ohio Farmer = Ohio Farmer.

Ohio J. Sci. = Ohio Journal of Science (Columbus).

Ohio Nat. = Ohio Naturalist (Columbus).

Oikos = Oikos.

Ont. Dep. Agric. Bull. = Ontario Department of Agriculture Bulletin.

Opred. Faune SSSR = Opredeliteli po Faune SSSR (Leningrad).

Opusc. Entomol. = Opuscula Entomologica. Lund.

Opusc. Zool. (Muenchen) = Opuscula Zoologica (Muenchen).

Oreg. Agric. Coll. Exp. Stn. Circ. = Oregon Agricultural College, Experiment Station, Circular.

Oreg. Agric. Exp. Stn. Bien. Crop Pest Hortic. Rep. = Oregon Agricultural Experiment Station Biennial Crop Pest and Horticultural Report.

Oreg. State Monogr. Stud. Entomol. = Oregon State Monographs Studies in Entomology.

Oreg. State Univ. Agric. Exp. Stn. Spec. Rep. = Oregon State University Agricultural Experiment Station, Special Report.

Oregon State Coll. Agric. Exp. Stn. Station Circ. = Oregon State College Agricultural Experiment Station, Station Circular.

Orient. Insects = Oriental Insects (Gainesville).

Ottawa Nat. = Ottawa Naturalist.

Oyo Dobutsugaku Zasshi = Oyo Dobutsugaku Zasshi.

Pac. Insects Monogr. = Pacific Insects Monograph (Honolulu).

Pac. Insects = Pacific Insects.

Pac. Sci. = Pacific Science (Honolulu).

Pak. J. Sci. Ind. Res. = Pakistan Journal of Scientific and Industrial Research (Karachi).

- Pak. J. Sci.** = Pakistan Journal of Science.
- Pak. J. Zool.** = Pakistan Journal of Zoology (Lahore).
- Paleontol. J.** = Paleontological Journal (English translation of Paleontol. Zh.)
- Palaeogeogr. Palaeoclimatol. Palaeoecol.** = Palaeogeography, Palaeoclimatology, Palaeoecology
- Paleontol. Zh.** = Paleontologicheskii Zhurnal.
- Pan-Pac. Entomol.** = Pan-Pacific Entomologist (San Francisco).
- PANS** = Pest Articles and News Summaries.
- Pap. Mich. Acad. Sci.** = Papers of the Michigan Academy of Science, Arts and Letters.
- Pap. Univ. Queensl. Dep. Biol.** = Papers. University of Queensland. Department of Biology.
- Papua New Guinea Agric. J.** = Papua New Guinea Agricultural Journal.
- Parasitology** = Parasitology.
- Pemberitaan Balai Besar Penjelidikan Pertanian** = Pemberitaan Balai Besar Penjelidikan Pertanian.
- Penn. Dep. Agric. Circ.** = Pennsylvania Department of Agriculture Circular.
- Penn. State College Agric. Exp. Stn. Bull.** = Pennsylvania State College. Agricultural Experiment Station. Bulletin.
- Pertanika** = Pertanika.
- Pesqui. Agropecu. Bras.** = Pesquisa Agropecuaria Brasileira (Brasilia).
- Pest Manage. Environ.** = Pest Management and the Environment.
- Pestic. Biochem. Physiol.** = Pesticide Biochemistry and Physiology (Duluth).
- Pestic. Sci.** = Pesticide Science (Barking).
- Pesticides** = Pesticides.
- Pests and Diseases of Rubber-producing Plants** = Pests and Diseases of Rubber-producing Plants (Entomological Laboratory of the Ukrainian Rubber Plant Experimental Station in Ustimovka).
- Pflanzenschutzberichte** = Pflanzenschutzberichte.
- Philipp. Entomol.** = Philippine Entomologist (Laguna).
- Philipp. J. Agric.** = Philippine Journal of Agriculture.
- Philipp. J. Sci. Sect. D** = Philippine Journal of Science, Section D.
- Philipp. J. Sci.** = Philippine Journal of Science (Manila).
- Physiol. Entomol.** = Physiological Entomology (Oxford).
- Physis (B. Aires)** = Physis (Buenos Aires).
- Phytiatr.-Phytopharm.** = Phytiatrie-Phytopharmacie.
- Phytochemistry** = Phytochemistry.
- Phytoma** = Phytoma.
- Phytoparasitica** = Phytoparasitica.
- Phytopathol. Z.** = Phytopathologische Zeitschrift.
- Phytopathology** = Phytopathology.
- Phytoprotection** = Phytoprotection.
- Pirineos** = Pirineos.
- Plant Dis.** = Plant Disease (St. Paul).
- Plant Pathol.** = Plant Pathology (Oxford).
- Plant Prot. Bull. (Faridabad)** = Plant Protection Bulletin (Faridabad).
- Plant Prot. Bull. (Taichung)** = Plant Protection Bulletin, Taiwan.
- Plant Prot. News, South Africa** = Plant Protection News, South Africa.
- Plant Prot. Q.** = Plant Protection Quarterly (Mt. Eliza).
- Plant Quarantine (Shanghai)** = Plant Quarantine (Shanghai).
- Planti News** = Planti News.
- Pol. Pismo Entomol. Ser. B** = Polski Pismo Entomologiczne, Seria B: Entomologia Stosowana.
- Pol. Pismo Entomol.** = Polski Pismo Entomologiczne (Warsaw).
- Poljopr. Znan. Smotra** = Poljoprivredna Znanstvena Smotra.
- Pomona Coll. J. Entomol.** = Pomona College Journal of Entomology.
- Practical Entomol.** = Practical Entomologist: a monthly bulletin (Philadelphia).
- Primary Prod. [Cape Town]** = Primary Products. [Cape Town].
- Probl. Obshch. Mol. Biol.** = Problemi Obshchei i Molekularnoi Biologii (Kiev).
- Probl. Zahal. Mol. Biol.** = Problemy Zahal'noyi ta Molekulyarnoyi Biologiyi.
- Proc. Acad. Nat. Sci. Phila.** = Proceedings of the Academy of Natural Sciences of Philadelphia (Philadelphia).
- Proc. Annu. Meet. Fla. State Hortic. Soc.** = Proceedings of the Annual Meeting of the Florida State Horticulture Society.
- Proc. Assoc. Plant Prot. Kyushu** = Proceedings of the Association for Plant Protection of Kyushu.
- Proc. Biol. Soc. Wash.** = Proceedings of the Biological Society of Washington (Washington).
- Proc. Boston Soc. Nat. Hist.** = Proceedings of the Boston Society of Natural History (Boston).
- Proc. Calif. Acad. Sci.** = Proceedings of the California Academy of Sciences (San Francisco).
- Proc. Davenport Acad. Nat. Sci.** = Proceedings of the Davenport Academy of Natural Sciences (Davenport).
- Proc. Entomol. Soc. B.C.** = Proceedings of the Entomological Society of British Columbia.
- Proc. Entomol. Soc. Karachi** = (Karachi).
- Proc. Entomol. Soc. Nova Scotia** = Proceedings of the Entomological Society of Nova Scotia.
- Proc. Entomol. Soc. Ont.** = Proceedings of the Entomological Society of Ontario (Guelph).
- Proc. Entomol. Soc. Wash.** = Proceedings of the Entomological Society of Washington (Washington).
- Proc. Fla. State Hortic. Soc.** = Proceedings of the Florida State Horticultural Society.
- Proc. Hawaii. Entomol. Soc.** = Proceedings of the Hawaiian Entomological Society (Honolulu).
- Proc. Ind. Waste Conf. Purdue Univ.** = Proceedings of the .. Industrial Waste Conference, Purdue Univ.
- Proc. Indiana Acad. Sci.** = Proceedings of the Indiana Academy of Science (Indianapolis).
- Proc. Int. Congr. Entomol.** = Proceedings of the 10th International Congress of Entomology, Montreal, Canada, August 17-25, 1956.

- Proc. Int. Congr. Entomol.** = Proceedings of the 13th International Congress Entomology, Moscow, 1968. Soviet Academy of Sciences, Leningrad.
- Proc. Int. Symp. Biol. Control Weeds** = Proceedings of the .. International Symposium on Biological Control of Weeds.
- Proc. Iowa Acad. Sci.** = Proceedings of the Iowa Academy of Science (Cedar Falls).
- Proc. IV Conf. Pest Control, 1978, Plant Prot. Res. Institute, Agric. Res. Centre, Dokki, Egypt** = Proceedings of the IV Conference of Pest Control, 1978, Plant Protection Research Institute, Agricultural Research Centre, Dokki, Egypt.
- Proc. Linn. Soc. N.S.W.** = Proceedings of the Linnean Society of New South Wales (Milson's Point).
- Proc. Minn. Acad. Sci.** = Proceedings of the Minnesota Academy of Science.
- Proc. Natl. Acad. Sci. India Sect. B Biol. Sci.** = Proceedings of the National Academy of Sciences, India, Section B: Biological Sciences (Allahabad).
- Proc. Natl. Acad. Sci. U.S.A.** = Proceedings of the National Academy of Science of the United States of America (Washington).
- Proc. North Cent. Br. Entomol. Soc. Am.** = Proceedings of the North Central Branch of the Entomological Society of North America.
- Proc. N.Z. Weed Pest Control Conf.** = Proceedings of the New Zealand Weed Pest Control Conference (Palmerston).
- Proc. Oreg. Hortic. Soc.** = Proceedings of the Oregon Horticultural Society.
- Proc. Pac. Sci. Congr.** = Proceedings of the .. Pacific Science Congress.
- Proc. Pak. Congr. Zool.** = Proceedings of Pakistan Congress of Zoology.
- Proc. R. Entomol. Soc. Lond. Ser. A Gen. Entomol.** = Proceedings of the Royal Society of London, Series A. General Entomology.
- Proc. R. Entomol. Soc. Lond. Ser. B Taxon.** = Proceedings of the Royal Society of London, Series B. Taxonomy.
- Proc. R. Soc. Queensl.** = Proceedings of the Royal Society of Queensland (St. Lucia).
- Proc. Trans. Br. Entomol. Nat. Hist. Soc.** = Proceedings and Transactions of the British Entomological and Natural History Society (Minster-in-Sheppey).
- Proc. Trans. S. Lond. Entomol. Nat. Hist. Soc.** = Proceedings & Transactions of the South London Entomological and Natural History Society.
- Proc. U.S. Natl. Mus.** = Proceedings of the United States National Museum.
- Proc. Utah Acad. Sci. Arts Lett.** = Proceedings of the Utah Academy of Sciences, Arts, and Letters.
- Proc. Utah Acad. Sci.** = Proceedings of the Utah Academy of Sciences.
- Proc. W. N.Y. Hortic. Soc.** = Proceedings of the Western New York Horticultural Society.
- Proc. Wash. State Hortic. Assoc.** = Proceedings of the Washington State Horticultural Association.
- Proc. Zool. Soc. Lond.** = Proceedings of the Zoological Society of London.
- Progr. Agric. Vitic.** = Progres Agricole et Viticole.
- Programm K. Realschule Meseritz** = Programm der Koeniglichen Realschule zu Meseritz [=Miedzyrzecz, Poland].
- Prot. Ecol.** = Protection Ecology.
- Psyche (Camb.)** = Psyche (Cambridge).
- Publ. B.C. Min. Agric.** = Publications of the British Columbia Ministry of Agriculture.
- Publ. Can. Dep. Agric.** = Publication of the Canada Department of Agriculture.
- Publ. Entomol. Lab. Coll. Agric. Univ. Osaka Pref., Sakai** = Publications. Entomological Laboratory, College of Agriculture, University of Osaka Prefecture (Sakai).
- Publ. Min. Agric., Dep. Nac. Prod. Veg., Serv. Def. Sanit. Veg. (Rio J.)** = Publicacion. Ministerio da Agricultura, Departamento Nacional da Producao Vegetal, Servico de defesa Sanitaria Vegetal (Rio de Janeiro).
- Publ. Misc. Estac. Exp. Agric. Tucuman** = Publicacion Miscelanea. Estacion Experimental Agricola de Tucuman.
- Publ. Nantucket Maria Mitchell Assoc.** = Publication of the Nantucket Maria Mitchell Association.
- Puerto Rico Exp. Stn. Bull.** = Puerto Rico Experiment Station of the U.S.D.A. Bull. (Mayaguez).
- Q. Newsl. - Asia Pac. Plant Prot. Comm.** = Quarterly Newsletter -Asia and Pacific Plant Protection Commission.
- Quaest. Entomol.** = Quaestiones Entomologicae (Edmonton).
- Queensl. Agric. J.** = Queensland Agricultural Journal (Brisbane).
- Queensl. Dep. Agric. Stock Div. Pl. Ind. Bull.** = Queensland Department of Agriculture and Stock. Division of Plant Industry. Bull.
- Queensl. J. Agric. Anim. Sci.** = Queensland Journal of Agricultural and Animal Sciences.
- Queensl. J. Agric. Sci.** = Queensland Journal of Agricultural Science.
- Raffles Bull. Zool.** = Raffles Bulletin of Zoology (Singapore).
- Rapport Annuel - Cirad Reunion** = Rapport Annuel -Cirad Reunion.
- Rapport, Institut de Recherches Agronomiques Tropicales et des Cultures Vivrieres** = Rapport, Institut de Recherches Agronomiques Tropicales et des Cultures Vivrieres.
- Rasteniev'd. Nauki** = Rastenievudni Nauki.
- Rastit. Zashch.** = Rastitelna Zashchita.
- RDA J. Agric. Sci. Crop Prot.** = RDA Journal of Agricultural Science, Crop Protection.
- Rec. Aust. Mus.** = Records of the Australian Museum (Sydney).
- Rec. Canterbury Mus.** = Records of the Canterbury Museum (Christchurch).

- Rec. Indian Mus.** = Records of the Indian Museum. Calcutta.
- Redia** = Redia.
- Relaz. Monogr. Agr. Subtrop. Trop.** = Relazione e Monografie Agrarie Subtropicali e Tropicali (Istituto Agronomico per l'Oltremare, Firenze).
- Rep. Bur. Appl. Entomol.** = Reports of the Bureau of Applied Entomology (State Institute of Experimental Agronomy, Leningrad).
- Rep. Estac. Cent. Agron. Havana** = Report of the Estacion Central Agronomica, Havana.
- Rep. Min. Agric. Nat. Resour. Environ. Mauritius** = Report, Ministry of Agriculture and Natural Resources and the Environment, Mauritius.
- Rep. Min. Agric. Nat. Resour. Mauritius** = Report, Ministry of Agriculture and Natural Resources, Mauritius.
- Rep. N.Z. Dep. Agric.** = Report of the New Zealand Department of Agriculture.
- Rep. Plant Prot. Agric. Res. Stn. Thessaloniki** = Report. Plant Protection & Agricultural Research Station. Thessaloniki.
- Rep. Tea Sci. Dep. U.P. A. S.I.** = ?Rep. Tea Sci. Dep. U.P. A. S.I.
- Repub. S. Afr. Dep. Agric. Tech. Serv. Tech. Comm.** = Republic of South Africa. Department of Agricultural and Technical Services. Technical Communications.
- Res. Bull. Plant Prot. Serv. Jpn.** = Research Bulletin of the Plant Protection Service Japan.
- Res. Popul. Ecol. (Kyoto)** = Researches on Population Ecology (Kotai Gun Seitai-gaku Kenkyukai) (Kyoto).
- Research Extension Series** = Research Extension Series.
- Resum. VII Congr. Agron. Nal. & XXXIII Congr. Hortic. ASHS-Region Tropic.** = Resumenes. VII Congreso Agronomico Nacional & XXXIII Congreso de Horticultura. ASHS-Region Tropic. 28 de julio al 1 de agosto 1986 (San Jose, Costa Rica).
- Rev. Agric. Entomol.** = Review of Agricultural Entomology (Wallingford).
- Rev. Agric. (Piracicaba, Braz.)** = Revista de Agricultura (Piracicaba, Brazil).
- Rev. Agric. Sucri. Ile Maurice** = Revue Agricole et Sucriere de l'Ile Maurice.
- Rev. Agron. Noroeste Argent.** = Revista Agronomica del Noroeste Argentina.
- Rev. Appl. Entomol., Ser. A: Agric.** = Review of Applied Entomology, Series A: Agricultural.
- Rev. Biol. Trop.** = Revista de Biologia Tropical (San Jose).
- Rev. Bras. Biol.** = Revista Brasileira de Biologia (Rio de Janeiro).
- Rev. Bras. Entomol.** = Revista Brasileira de Entomologia (Sao Paulo).
- Rev. Bras. Genet.** = Revista Brasileira de Genetica (Ribeirao Preto).
- Rev. Bras. Zool.** = Revista Brasileira de Zoologia (Curitiba).
- Rev. Ceres** = Revista Ceres (Vicosa).
- Rev. Chil. Entomol.** = Revista Chilena de Entomologia (Santiago).
- Rev. Chil. Hist. Nat.** = Revista Chilena de Historia Natural (Santiago).
- Rev. Col. Nac. Vicente Roca fuerte** = Revista del Colegio Nacional Vicente Roca fuerte (Guayaquil).
- Rev. Colomb. Entomol.** = Revista Colombiana de Entomologia (Bogota).
- Rev. do Setor de Ciencias Agrarias** = Revista Do Setor De Ciencias Agrarias.
- Rev. Ecuat. Hig. Med. Trop.** = Revista Ecuatoriana de Higiene y Medicina Tropical.
- Rev. Elev. Med. Vet. Pays Trop.** = Revue d'Elevage et de Medecine Veterinaire des Pays Tropicaux (Maisons-Alfort).
- Rev. Entomol. Que.** = Revue d'Entomologie du Quebec (Sainte Foy).
- Rev. Entomol. (Rio J.)** = Revista de Entomologia (Rio de Janeiro).
- Rev. Fac. Agron. (Maracaibo)** = Revista de la Facultad de Agronomia (Maracaibo).
- Rev. Fac. Nac. Agron. Medellin** = Revista Facultad Nacional de Agronomia Medellin (Medellin).
- Rev. Fitofilo** = Revista Fitofilo.
- Rev. Fr. Entomol.** = Revue Francaise d'Entomologie.
- Rev. Inform.** = Revista de Information.
- Rev. Inst. Colomb. Agropecu. Bogota** = Revista del Instituto Colombiana de Agropecuaria. Bogota.
- Rev. Invest. Agraria, Centro Estudios Agrarios, A.** = Revista Investigacao Agraria, Centro de Estudos Agrarios, A.
- Rev. Invest. Agric.** = Revista de Investigaciones Agricolas.
- Rev. Invest.** = Revista de Investigacion CIRPON.
- Rev. Mag. Zool.** = Revue et Magasin de Zoologie Pure et Appliquee. Paris (2e serie).
- Rev. Mus. La Plata Secc. Zool.** = Revista del Museo de La Plata, Seccion Zoologia (La Plata).
- Rev. Pathol. Veg. Entomol. Agric. Fr.** = Revue de Pathologie Vegetale et d'Entomologie Agricole de France.
- Rev. Pathol. Veg.** = Revue de Pathologie Vegetale.
- Rev. Peru. Entomol. Agric.** = Revista Peruana de Entomologia Agricola.
- Rev. Peru. Entomol.** = Revista Peruana de Entomologia (Lima).
- Rev. Soc. Entomol. Argent.** = Revista de la Sociedad Entomologica de Argentina (Buenos Aires).
- Rev. Suisse Vitic. Arboric. Hortic.** = Revue Suisse de Viticulture d'Arboriculture et d'Horticulture (Nyon).
- Rev. Suisse Zool.** = Revue Suisse de Zoologie (Geneva).
- Rev. Zool. Afr.** = Revue Zoologique Africaine.
- Rev. Zool. Agric. Appl.** = Revue de Zoologie Agricole et Appliquee.
- Rev. Zool. Agric.** = Revue de Zoologie Agricole.
- Rev. Zool. Bot. Afr.** = Revue de Zoologie et de Botanique Africaines.
- Rev. Zool. Soc. Cuvier** = Revue Zoologique (Soc. Cuvier, Paris).

- Reveil Agr.** = ?Reveil Agr.
- Ric. Sci.** = Ricerca Scientifica.
- Ringyo Shikenjo Hokoku, Formosan Government Industry Bureau, Taipei** = Ringyo Shikenjo Hokoku, Formosan Government Industry Bureau, Taipei.
- Riv. Biol. Colon.** = Rivista di Biologia Coloniale (Rome).
- Riv. Biol. Milan** = Rivista di Biologia (Milan).
- Riv. Parassit.** = Rivista di Parassitologia (Rome).
- Roux's Arch. Dev. Biol.** = Roux's Archives of Developmental Biology (Berlin).
- Russ. Entomol. J.** = Russian Entomological Journal.
- Rutgers Univ. Coll. Agric. Ext. Serv. Leaflet** = Rutgers University, College of Agriculture, Extension Service Leaflet.
- S. Afr. J. Agric. Sci.** = South African Journal of Agricultural Science (Pretoria).
- S. Afr. J. Bot.** = South African Journal of Botany (Pretoria).
- S. Aust. Dep. Agric. Exp. Rec.** = South Australia. Department of Agriculture. Experimental Records.
- Sarhad J. Agric.** = Sarhad Journal of Agriculture (Peshawar).
- Sb. Jihoceskeho Muz. Cesk. Budejovicich Prir. Vedy** = Sbornik Jihoceskeho Muzea Ceskych Budejovicich Prirodni Vedy (Ceske Budejovice).
- Sci. Agric.** = Scientific Agriculture (Ottawa).
- Sci. Rep. Fac. Agric. Naniwa Univ.** = Scientific Report of the Faculty of Agriculture, Naniwa University (Sakai, Osaka Pref.).
- Sci. Rep. Indian Agric. Res. Inst. New Delhi** = Scientific Reports of the Indian Agricultural Research Institute. New Delhi. Calcutta.
- Science** = Science.
- Scr. Hierosolymitana** = Scripta Hierosolymitana. Publications of the Hebrew University, Jerusalem.
- Search Agric. Entomol. (Geneva N.Y.)** = Search Agriculture Entomology (Geneva, New York) (Ithaca).
- Search (Sydney)** = Search (Sydney).
- Secret. Agric. Ganad. Foll. Misc.** = Secretaria de Agricultura y Ganaderia (Mexico City) Folleto Miscelaneo.
- Senckenbergiana Biol.** = Senckenbergiana Biologica (Frankfurt-am-Main).
- Sentinel (Wellington)** = Sentinel (Wellington).
- Ser. Entomol. (Dordrecht)** = Series Entomologica (Dordrecht).
- Shin Konchu** = Shin Konchu.
- Shokubutsu Boeki** = Shokubutsu Boeki.
- Sichuan J. Zool.** = Sichuan Journal of Zoology (=Sichuan Donguru).
- Sinensia** = Sinensia (Shanghai).
- Sinozoologia** = Sinozoologia (=Dongwuxue Jikan).
- Siruna Seva** = Siruna Seva.
- Sitzungsber. Akad. Wiss. Berl.** = Bericht über die zur Bekanntmachung geeigneten Verhandlungen der Königl. Preuss. Akademie der Wissenschaften zu Berlin.
- Sitzungsber. Akad. Wiss. Wien** = Sitzungsberichte der Akademie der Wissenschaften in Wien.
- Sitzungsber. Ges. Naturforsch. Freunde, Berl.** = Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin (Berlin).
- Smithson. Contr. Zool.** = Smithsonian Contributions to Zoology (Washington).
- Smithson. Misc. Collect.** = Smithsonian Miscellaneous Collections.
- Smithsonian Report** = Smithsonian Report.
- Soobshch. Akad. Nauk Gruz. SSR** = Soobshcheniya Akademii Nauk Gruzinskoi SSR.
- Southwest. Entomol.** = Southwestern Entomologist (Dallas).
- Southwest** = Southwest.
- SP Rapport** = Statens Planteavlfsforsog Rapport (Lyngby, Denmark).
- Spec. Bull. Lep. Soc. Jap.** = Special Bulletin of the Lepidopterists' Society of Japan.
- Spec. Publ. Entomol. Soc. Am.** = Special Publications of the Entomological Society of America.
- Spec. Publ. Taichung Dist. Agric. Improvement Stn.** = Special Publication of the Taichung District Agricultural Improvement Station.
- Special Report of the Joint Legislative Committee on Agriculture and Livestock Problems** = Special Report of the Joint Legislative Committee on Agriculture and Livestock Problems (Assembly of the State of California (Bull.), Sacramento).
- Special Report of the Joint Legislative Committee on Agriculture and Livestock Problems** = Special Report of the Joint Legislative Committee on Agriculture and Livestock Problems (Senate of California (Bull.), Sacramento).
- Spolia Zeylan.** = Spolia Zeylanica (Colombo).
- Spolia Zool. Mus. Haun.** = Spolia Zoologica Musei Hauniensis.
- Spraw. Kom. Fizyogr., Krakow** = Sprawozdania Kom. Fizyogr., Krakow.
- Springfield Mus. Nat. Hist. Bull.** = Springfield Museum of Natural History. Bulletin (Springfield, Mass.).
- Stettin. Entomol. Ztg.** = Stettiner Entomologische Zeitung.
- Stridula** = Stridula.
- Stud. Dipterol.** = Studia Dipterologica. Zeitschrift fuer Taxonomie, Systematik, Oekologie und Faunistik der Zweifluegler (Diptera) (Halle/Saale).
- Stuttg. Beitr. Naturkd. Ser. A. Biol.** = Stuttgarter Beitræge zur Naturkunde, Serie A (Biologie) (Stuttgart).
- Stuttg. Beitr. Naturkd.** = Stuttgarter Beitræge zur Naturkunde.
- Stylops** = Stylops.
- Sudan Agric. J.** = Sudan Agricultural Journal.
- Sukhumi, NKZ Abkhazii** = ????
- Sunshine State Agric. Res. Rep.** = Sunshine State Agricultural Research Report.
- Suppl. Entomol.** = Supplementa Entomologica (Berlin-Dahlem).
- Surinaamse Landbouw** = Surinaamse Landbouw.

- Symp. Biol. Hung.** = Symposia Biologica Hungarica (Budapest).
- Syst. Entomol.** = Systematic Entomology (Oxford).
- Syst. Zool.** = Systematic Zoology (Washington).
- T. Shevchenko State Univ. Ed.** = ?T. Shevchenko State Univ. Ed.
- Tasman. J. Agric.** = Tasmanian Journal of Agriculture.
- Taxon** = Taxon.
- Tech. Bull. Commonw. Inst. Biol. Control** = Technical Bulletin of the Commonwealth Institute of Biological Control.
- Tech. Bull. Plant Quar. Res.** = Technical Bulletin of Plant Quarantine Research (=Zhiwu Jianyi Yanjiu Baogao) (Beijing).
- Tech. Comm. Dep. Agric. Tech. Serv. Pretoria** = ?Tech. Comm. Dep. Agric. Tech. Serv. Pretoria.
- Tech. Comm. Int. Inst. Biol. Control** = Tech. Comm. International Institute of Biological Control (Commonwealth Agricultural Bureaux).
- Tech. Rep. Univ. Hawaii (Manoa)** = ?Technical Report, University of Hawaii (Manoa).
- Termeszetr. Fuz.** = Termeszetráji Füzetek. Budapest.
- Terr. Hawaii Div. Entomol. Bull.** = Territory of Hawaii, Board of Agriculture and Forestry, Division of Entomology. Bulletin.
- Tests of Agrochem. Cult.** = Tests of Agrochemicals and Cultivars.
- Tetrahedron Lett.** = Tetrahedron Letters (Oxford).
- Tetrahedron** = Tetrahedron.
- Tijdschr. Entomol.** = Tijdschrift voor Entomologie (Amsterdam).
- Tissue Cell** = Tissue & Cell (Harlow).
- Tolvmandsbladet** = Tolvmandsbladet.
- Tr. Obshch. Isp. Prir. pri Khar'k. Univ.** = Trudy Obshchestva Isp. Prir. pri Kharkov University
- Tr. Russ. Entomol. Ova.** = Trudy Russkago Entomologicheskago Obshchestva (St Petersburg).
- Tr. Vses. Entomol. Ova.** = Trudy Vsesoyuznogo Entomologicheskogo Obshchestva.
- Tr. Zool. Inst. Akad. Nauk Gruz. SSR** = Trudy Zoologicheskogo Instituta, Akademiya Nauk, Gruzinskoi SSR
- Tr. Zool. Inst. Akad. Nauk. SSSR** = Trudy Zoologicheskogo Instituta, Akademiya Nauk, SSSR (Leningrad).
- Tr. Zool. Inst. Leningrad** = Trudy Zoologicheskogo Instituta (Leningrad).
- Trans. Acad. Sci. St. Louis** = Transactions of the Academy of Science of St. Louis.
- Trans. Am. Entomol. Soc. (Phila.)** = Transactions of the American Entomological Society (Philadelphia).
- Trans. Entomol. Soc. Lond.** = Transactions of the Entomological Society of London.
- Trans. Ill. State Hortic. Soc.** = Transactions of the Illinois State Horticultural Society.
- Trans. Int. Congr. Entomol.** = Transactions of the .. International Congress of Entomology.
- Trans. Iowa State Hortic. Soc.** = Transactions of the Iowa State Horticultural Society.
- Trans. Kans. Acad. Sci.** = Transactions of the Kansas Academy of Science (Lawrence).
- Trans. Kansai Entomol. Soc.** = Transactions of the Kansai Entomological Society.
- Trans. Linn. Soc. Lond. Ser. 2, Zool.** = Transactions of the Linnean Society of London, Series 2, Zoology.
- Trans. Linn. Soc. Lond.** = Transactions of the Linnean Society of London.
- Trans. Nat. Hist. Soc. Formosa** = Transactions of the Natural History Society of Formosa.
- Trans. N.Y. State Agric. Soc.** = Transactions of the New York State Agricultural Society (Albany).
- Trans. Proc. N.Z. Inst.** = Transactions and Proceedings of the New Zealand Institute (Wellington).
- Trans. R. Entomol. Soc. Lond.** = Transactions of the Royal Entomological Society of London.
- Trans. Shikoku Entomol. Soc.** = Transactions of the Shikoku Entomological Society (Matsuyama).
- Trans. Worcs. Nat. Club (N.S.)** = Transactions of the Worcestershire Naturalists' Club (New Series) (Worcester).
- Trans. Zimb. Sci. Assoc.** = Transactions of the Zimbabwe Scientific Association (Causeway).
- Trans. Zool. Soc. Lond.** = Transactions of the Zoological Society of London.
- Trav. Mus. Hist. Nat. 'Grigore Antipa'** = Travaux du Museum d'Histoire Naturelle 'Grigore Antipa' (Bucharest).
- Treubia** = Treubia.
- Tri-ology** = Tri-ology.
- Trop. Agric. (Trinidad)** = Tropical Agriculture (Trinidad).
- Trop. Agric.** = Tropical Agriculturalist.
- Trop. Pest Manage.** = Tropical Pest Management (Basingstoke).
- Trop. Sci.** = Tropical Science (Letchworth).
- Trop. Zool.** = Tropical Zoology.
- Tunisie. Inst. Nat. Rech. Agron. Doc. Tech.** = ?Tunisie. Institut National du Recherche Agronomique. Doc. Tech.
- Turk. Bitki Koruma Derg.** = Turkiye Bitki Koruma Dergisi (Izmir).
- Turk. Entomol. Derg.** = Turkiye Entomoloji Dergisi (Izmir).
- Turttox News** = Turttox News.
- U.A.R. Min. Agric. Tech. Bull.** = United Arab Republic, Ministry of Agriculture, Technical Bulletin.
- Uganda Dep. Agric. Annu. Rep.** = Uganda Department of Agriculture, Annual Report.
- Un. Sth. Africa Dep. Agric. Div. Entomol.** = Union of South Africa. Department of Agriculture. Division of Entomology (Pretoria).
- [Univ. Calif.] Agric. Exp. Stn. Bull.** = [University of California] Agricultural Experiment Station. Bulletin.
- Univ. Calif. Agric. Exp. Stn. Circ.** = University of California. Agricultural Experiment Station. Circular. (Berkeley).

- Univ. Calif. Div. Agric. Sci. Rep.** = University of California. Division of Agricultural Sciences (Berkeley).
- Univ. Calif. Publ. Entomol.** = University of California, Publications in Entomology (Berkeley).
- Univ. Colo. Studies** = University of Colorado Studies (Boulder).
- Univ. Hawaii Coop. Ext. Serv. Misc. Publ.** = University of Hawaii Cooperative Extension Service Miscellaneous Publication.
- Univ. Toronto Stud. Biol. Ser.** = University of Toronto Studies, Biological Series (Toronto).
- U.S. Dep. Agric. Agric. Handb.** = U.S.D.A. Agricultural Handbook (Washington).
- U.S. Dep. Agric. Agric. Monogr.** = U.S.D.A. Agricultural Monograph.
- U.S. Dep. Agric. Agric. Res. Serv. Marketing Res. Rep.** = U.S.D.A. Agricultural Research Service Marketing Research Report.
- U.S. Dep. Agric. Agric. Res. Serv.** = U.S.D.A. Agricultural Research Service.
- U.S. Dep. Agric. Animal Plant Health Insp. Serv.** = U.S.D.A. Animal and Plant Health Inspection Service (Hyattsville).
- U.S. Dep. Agric. Bull.** = U.S.D.A. Bulletin.
- U.S. Dep. Agric. Bur. Entomol. Bull.** = U.S.D.A. Bureau of Entomology. Bulletin.
- U.S. Dep. Agric. Bur. Entomol. Circ.** = U.S.D.A. Bureau of Entomology Circular.
- U.S. Dep. Agric. Bur. Entomol. Plant Quar. Serv. Regulatory Announcements** = U.S.D.A. Bureau of Entomology and Plant Quarantine, Service and Regulatory Announcements.
- U.S. Dep. Agric. Bur. Entomol. Tech. Ser.** = U.S.D.A. Bureau of Entomology Technical Series.
- U.S. Dep. Agric. Bur. Plant Quar. Serv. Regulatory Announcements** = U.S.D.A. Bureau of Plant Quarantine, Service and Regulatory Announcements.
- U.S. Dep. Agric. Circ.** = U.S.D.A. Circular.
- U.S. Dep. Agric. Comnr. Agric. Rep.** = U.S.D.A. Report of the Commissioner of Agriculture.
- U.S. Dep. Agric. Coop. Econ. Insect Rep.** = U.S.D.A. Cooperative Economic Insect Report.
- U.S. Dep. Agric. Coop. Plant Pest Rep.** = U.S.D.A. Cooperative Plant Pest Report.
- U.S. Dep. Agric. Div. Entomol. Bull.** = U.S.D.A. Division of Entomology. Bulletin.
- U.S. Dep. Agric. Farmer's Bull.** = U.S.D.A. Farmer's Bulletin (Washington).
- U.S. Dep. Agric. For. Serv. Program Aid** = U.S.D.A., Forest Service, (Washington, D.C.) Program Aid.
- U.S. Dep. Agric. Forest Service Gen. Tech. Rep.** = U.S.D.A. Forest Service General Technical Report (Intermountain Forest and Range Experiment Station, Ogden, Utah).
- U.S. Dep. Agric. Misc. Publ.** = U.S.D.A. Miscellaneous Publications (Washington).
- U.S. Dep. Agric. P. A.** = ?U.S.D.A. P. A.
- U.S. Dep. Agric. Patents** = U.S.D.A. Patents.
- U.S. Dep. Agric., Pests not known to occur in the United States or of limited distribution** = U.S.D.A., Pests not known to occur in the United States or of limited distribution.
- U.S. Dep. Agric. Regulatory Announcements** = U.S.D.A. Regulatory Announcements.
- U.S. Dep. Agric. Tech. Bull.** = U.S.D.A. Technical Bulletin (Washington).
- U.S. Dep. Agric. Yearb. Agric.** = U.S.D.A. Yearbook of Agriculture.
- U.S. Natl. Mus. Bull.** = U.S. National Museum Bulletin.
- Uttar Pradesh J. Zool.** = Uttar Pradesh Journal of Zoology (Muzaffarnagar).
- Verh. Dtsch. Zool. Ges.** = Verhandlungen der Deutschen Zoologischen Gesellschaft (Stuttgart).
- Verh. Ges. Oekol.** = Verhandlungen der Gesellschaft fuer Oekologie.
- Verh. Int. Kongr. Entomol.** = Verhandlungen. Elfter Internationaler Kongress fuer Entomologie, Wien, 1960.
- Verh. Int. Kongr. Entomol.** = Verhandlungen. Siebenter Internationaler Kongress fuer Entomologie, Berlin, 15.-20. August 1938.
- Verh. Naturforsch. Ges. Basel** = Verhandlungen der Naturforschenden Gesellschaft in Basel (Basel).
- Verh. Zool. Bot. Ges. Wien** = Verhandlungen der Zoologisch-Botanischen Gesellschaft in Wien.
- Versl. Landbouwk. Onderz. (Agric. Res. Rep.)** = Verslagen van Landbouwkundige Onderzoekingen (Agricultural Research Reports) (Wageningen).
- Vestn. Zool.** = Vestnik Zoologii (Kiev).
- Vet. Bull. (London)** = Veterinary Bulletin (London).
- VI Congr. Bras. Entomol. (February 3-9, 1980)** = VI Congreso Brasilerio de Entomologia (February 3-9, 1980).
- Viata Agric.** = ?Viata Agricoltura.
- Vidensk. Medd. Dan. Naturh. Foren.** = Videnskabelige Meddelelser fra Dansk Naturhistorisk Forening (Copenhagen).
- Vierteljahrsschr. Naturforsch. Ges. Zuer.** = Vierteljahrsschrift der Naturforschende Gesellschaft, Zuerich.
- Visser - Karakorum** = Visser - Karakorum.
- Wash. Agric. Exp. Stn. Bull.** = Washington, Agricultural Experiment Station, Bulletin.
- Wash. Agric. Exp. Stn. Circ.** = Washington Agricultural Experiment Station Circular.
- Wash. Agric. Exp. Stn. Tech. Bull.** = Washington, Agricultural Experiment Station, Technical Bulletin.
- Wasmann J. Biol.** = Wasmann Journal of Biology (San Francisco).
- Weed Sci.** = Weed Science (Champaign).
- West. Aust. Dep. Agric. Entomol. Sect. Bull.** = Western Australia. Department of Agriculture. Entomological Section. Bulletin.
- Wet. Meded. K. Ned. Natuurhist. Ver.** = Wetenschappelijke Mededeling Koninklijke Nederlandse Natuurhistorische Vereniging (Utrecht).
- Weta** = Weta.

Wien. Entomol. Monatschr. = Wiener Entomologische Monatschrift.

Wien. Entomol. Ztg. = Wiener Entomologische Zeitung.

Z. Angew. Entomol. = Zeitschrift fuer Angewandte Entomologie.

Z. Angew. Zool. = Zeitschrift fuer Angewandte Zoologie.

Z. Entomol. (Germar) = Zeitschrift fuer Entomologie (Germar). Leipzig.

Z. Gesamten Naturw. = Zeitschrift fuer die Gesamten Naturwissenschaften.

Z. Pflanzenkr. Pflanzenschutz = Zeitschrift fuer Pflanzenkrankheiten und Pflanzenschutz (Stuttgart).

Z. Syst. Hymenopt. Dipterol. = Zeitschrift fuer Systematische Hymenopterologie und Dipterologie. Leipzig.

Z. Wiss. Insektenbiol. = Zeitschrift fuer Wissenschaftliche Insektenbiologie.

Z. Wiss. Zool. = Zeitschrift fuer Wissenschaftliche Zoologie.

Z. Zell. Gewebelehre = Zeitschrift fuer Zellen-und Gewebelehre.

Z. Zellforsch. = Zeitschrift fuer Zellforschung.

Z. Zool. Syst. Evolutionsforsch. = Zeitschrift fuer Zoologische Systematik und Evolutionsforschung.

Zap. Nauchno-Pril. Otd. Tifl. Bot. Sada = Zapiski Nauchno-Prikladnykh Otdielov Tiflisskago Botanicheskago Sada

Zapateri, Rev. Aragon. Entomol. = Zapateri, Revista Aragonesa de Entomologia

Zashch. Rast. Vred. = Zashchita Rastenii Vredit.

Zashch. Rast. = Zashchita Rastenii.

Zast. Bilja = Zastita Bilja (Belgrade).

Zb. Bioteh. Fak. Univ. Edvarda Dardelja Ljubljani Kmetijstvo = Zbornik Biotehniske Fakultete Univerze Edvarda Dardelja v Ljubljani Kmetijstvo.

Zb. Slov. Nar. Muz. Prir. Vedy = Zbornik Slovenskeho Narodneho Muzea Prirodne Vedy (Bratislava).

Zentralbl. Bakteriolog. Parasitenkd. Infektionskr., Abt. II = Zentralblatt fuer Bakteriologie, Parasitenkunde und Infektionskrankheiten, Abt. II.

Zh. Opuitn. Agron. Yugo-Vostoka = Zhurnal Opuitn. Agron. Yugo-Vostoka.

Zimb. Agric. J. = Zimbabwe Agricultural Journal (Harare).

Zimbabwe Sci. News = Zimbabwe Science News (Causeway).

Zoe = Zoe.

Zool. Anz. = Zoologischer Anzeiger (Jena).

Zool. J. Linn. Soc. = Zoological Journal of the Linnean Society (London).

Zool. Jahrb. Abt. Anat. Ontog. Tiere = Zoologische Jahrbuecher. Abteilung fuer Anatomie und Ontogenie der Tiere.

Zool. Jahrb. Abt. Syst. Geogr. Biol. Tiere = Zoologische Jahrbuecher. Abteilung fuer Systematik, Geographie und Biologie der Tiere.

Zool. Jahrb. Abt. Syst. Okol. Geogr. Tiere = Zoologische Jahrbuecher. Abteilung fuer Systematik, Oekologie und Geographie der Tiere.

Zool. J. = Zoological Journal (London).

Zool. Listy = Zoologicke Listy.

Zool. Mag. Tokyo = Zoological Magazine. Tokyo.

Zool. Mag. (Wiedemann's) = Zoological Magazine (Wiedemann's). Kiel.

Zool. Meded. = Zoologische Mededelingen (Leiden).

Zool. Scripta = Zoologica Scripta (Oxford).

Zool. Stud. = Zoological Studies.

Zool. Zh. = Zoologicheskii Zhurnal (Moscow).

Zpravy Komm. Prirod. Prozkoumani Moravy. Oddeleni Zool. = Zpravy Kommissie pro Prirodovedecke Prozkoumani Moravy. Oddeleni Zoologicke (Brne).

Acknowledgements

Producing this work involved not only a team, but numerous other workers and supporters. So, we thank them all and ask forgiveness if we have failed to mention them here. First and foremost, we thank Pilot Test Program of the Agricultural Research Service, USDA, for recognizing the importance of systematics to alternative pest control programs and for providing the funds to undertake this project. The Animal and Plant Health Inspection Service, Plant Protection and Quarantine, also provided funding, for which we are grateful.

To our scientific illustrators, Jennifer E. Fairman, T. Britt Griswold, and Susan Grupp, as well as our data entry specialist, Elaine B. Jamison, we could not have completed this project without your unique contributions. Hence, words can't express our appreciation for your assistance.

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Lastly to our late colleague, George Steyskal, who remained a Luddite having declared our vision "no more than a fatuous dream, Utopia revisited (Steyskal 1988)," we appreciate the challenge and offer this work with its companion, Diptera Data Dissemination Disk, as something more than a dream!

F. Christian Thompson
Systematic Entomology Laboratory, USDA
Washington, D. C. 20560-0168

27 October 1998

DIPTERA DATA DISSEMINATION DISK

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December 1998

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Diptera Data Dissemination Disk

December 1998

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About the Diptera Data Dissemination Disk

The Diptera Data Dissemination Disk (DDDD) is a new kind of serial publication: a serial designed to use a digital format for storing information. DDDD allows for the dissemination of information in more useful formats, such as expert systems and databases, more cheaply, but still maintaining a permanent record. DDDD is a peer-reviewed scientific publication. All nomenclatural acts, including new scientific names, contained within DDDD are for the permanent, public, scientific record.

DDDD is designed for the PC environment, particularly Windows 95 or NT 4.0 or greater. However, much of the information on DDDD can be used on the MSDOS or MacIntosh platforms.

Acknowledgments: The North American Dipterists' Society is extremely grateful to the Systematic Entomology Laboratory, U. S. Department of Agriculture, for providing the funds to produce this first issue.

How to cite the contents of the DDDD. The works on the DDDD should be cited just as one would cite any other published work except that pagination is not necessary or appropriate in many cases. The information on DDDD is accessed through a computer and according to its filing system. Thus, for databases and expert systems, there are no "pages." In our Name databases, each individual record has an authority field to identify the author. For expert identification systems, authorship is identified at the level of the dataset, the character x taxa matrix stored in a binary file. For information stored in Adobe PDF files, pagination is appropriate as these files are merely electronic versions of printed documents and are paginated. The following are examples of citations for various works on this DDDD.

Norrbom, A. L., L. E. Carroll, F. C. Thompson, I.M. White & A. Freidberg. 1998. Fruit Fly Systematic Information Database. Diptera Data Dissemination Disk 1: 11,560 records

Carroll, L. E., A. L. Norrbom, F. C. Thompson & N. L. Evenhuis. 1998. Bibliography of fruit flies. In Thompson, F. C. (ed.), Fruit fly expert system and systematic information database. Diptera Data Dissemination Disk 1:/NAMES/FRUITFLY/ffes-sib.pdf.

Carroll, L. E. 1998. Fruit fly larval character data matrix. 76 characters for 97 taxa in DELTA format. In Thompson, F. C. (coord.), Fruit fly expert identification system. Diptera Data Dissemination Disk 1

Rueda, L.M., S.A. Stockwell, J.E. Pecor & T.V. Gaffigan. 1998. Key to the Mosquito Genera of the World. Diptera Data Dissemination Disk 1

For a complete set of citations, see CITATION.TXT in the README folder.

Fruit Fly Expert Identification System

F. Christian Thompson (coordinator)

Systematic Entomology Laboratory, USDA, Smithsonian Institution, Washington, D. C. 20560 USDA

To use **Fruit Fly Expert Identification System**: Copy the fruitfly.bat file from the \BAT directory onto your C:\drive. Modify the drive letter in the BAT file, if your CD-ROM isn't drive D:

To use **Tutorial**: Copy the fflydemo.bat file from the \BAT directory onto your C:\drive. Modify the drive letter in the BAT file, if your CD-ROM isn't drive D:

The Expert System is designed to help users identify organisms. The Expert System has three components: The program, data sets and images. Users need to be aware of these different components and how our design was shaped by them. We have assumed that our ultimate users will be professional identifiers, such as those working for APHIS-PPQ. Hence, they are already familiar with traditional identification aids, like keys, and are familiar with their organisms. However, extensive help files are provided so almost anyone should be able to run this program. In fact, one of our beta testers was Secretary of the Interior, the Honorable Bruce Babbitt. He was able to successfully identify a Mediterranean fruit fly within a couple of minutes of being introduced to the program. Also, a tutorial for the expert system is available.

The **program** presents character data to users who then make selections which ultimately may lead to an identification. The program differs from traditional identification tools by allowing for random and varied access to character data. The user is free to choose any of the available characters in any order, whereas the traditional key allows only for the use of specific characters in a rigid sequence. Users can also request comparisons between taxa, descriptions and/or diagnoses of taxa, functions not available in traditional keys. So, our objectives in designing the program were to maximize the access to character data and to present those data in the most effective manner. Naturally, our objectives were constrained by the data format used and computer resources available. To build our Expert System, we worked with Dr. Richard Pankhurst, the world authority on computerized biological identification. The basic program, known as ONLINE, was his work to which he added some significant new features at our direction. So, when you are using the program, reading the menus and general help screens, you are using ONLINE.

Data sets are what determine the identification capabilities of the Expert System. The adage "Garbage in, Garbage out" is true of an Expert System. These data sets are the wisdom of the experts, so the program can only be as effective as the experts were in expressing their wisdom in a set of characters and values for taxa. On data sets our objective was to use a data format which the systematics community endorses and widely uses, so there would be the maximal number of data sets available for our Expert System. We also wanted a data format which could encode all kinds of character data and was not proprietary, so data sets could be shared. The DELTA data format, which was established by CSIRO, is the only available one which matches our criteria. The DELTA data format imposed some limitations on the Expert System, but these are less than the advantages gained. By using DELTA data format, our data sets can be used with other computer identification systems, such as INTKEY, and other data sets can be used by ONLINE.

Two **fruit fly data sets** were developed. The adult data set by the leading Tephritidae experts: Amnon Freidberg, Tel Aviv University, Israel; Ian White, CAB Institute of Entomology, London; and Allen Norrbom, Systematic Entomology Laboratory, Washington. Lynn Carroll worked closely with these specialists, adding her experience and knowledge of DELTA to ensure a uniform and consistent data set. She developed the larval data set. So, when one reads the text of the characters and related help screen, one is using the data set provided by these experts. And when one gets an identification it is because these experts selected the best characters. These data sets only include the most economically important species (193 species in the adult data set, 97 in the larval data set).

Images help users understand character data. They are, therefore, a useful if not necessary adjunct to the data set. However, images are not required by the program. The program was designed so that images were independent of the data set as images are expensive, the most expensive component beyond the data set. Also linking images to the data set and using such technologies as touch screens or mouse to select an image would have been more costly as each data set would have required special programming. To keep costs within budget, we re-used existing images wherever possible and only created the minimal number of new ones. So, don't be surprised if you think you have seen these images somewhere else!

Authorship: The adult data sets are by Carroll, White, Friedberg and Norrbom; the larval data set is by Carroll; the ONLINE application is by Pankhurst; the tutorial was done by Jennifer Fairman; and I did all the little things necessary to tie it all together. So, one should cite the components, not the whole, and the most important components are the data sets. See above for an example of how to cite the larval data set.

Further Information on the expert system, especially on its memory requirements will be found in the FFEXPERT.TXT in the README folder.

Fruit Fly Systematic Information Database

A. L. Norrbom, L. E. Carroll, F. C. Thompson, I. M. White & A. Friedberg

(ALN, LEC & FCT) Systematic Entomology Laboratory, USDA, Smithsonian Institution, Washington, D. C. 204560-0168 USA;
(IMW) CAB International Institute of Entomology, The Natural History Museum, Cromwell Road, London, SW7 5JR, England;
(AF) Department of Zoology, Tel Aviv University, 69 978 Tel Aviv, Israel

To use the **Fruit Fly Systematic Information Database** as a FileMakerPro application, merely click on the icon for FFNAMES.EXE in /NAMES/FRUITFLY or the primary data file FFNAMES.FFN.

The Fruit Fly Systematic Information Database is provided in two formats: As a chapter in Adobe pdf file (see next page) and as a FileMakerPro application. The names in this database are also now included in the working files of the Biosystematic Database of World Diptera. All the nomenclatural acts are validated in the printed version of the *Fruit Fly Expert System and Systematic Information Database*.

The data standards and other information about the Fruit Fly Systematic Information Database will be found in FFNAMES.pdf file in the /NAMES/FRUITFLY folder.

Fruit Fly Expert System and Systematic Information Database

F. Christian Thompson (editor)

Systematic Entomology Laboratory, USDA, Smithsonian Institution, Washington, D. C. 20560-0168 USA

To read the **Fruit Fly Expert System and Systematic Information Database**, merely ensure that the Adobe Acrobat Reader is installed and then click on the file name, FFESSIONID.pdf in the folder /NAMES/FRUITFLY.

A pdf file of the *Fruit Fly Expert System and Systematic Information Database* is provided. This pdf file is a separate distributed in advance (in the sense of the *International Code of Zoological Nomenclature*, Article 21(h)) of the printed version that will appear in MYIA, volume 9. The names and references included in this work are now included in the working files of the Biosystematic Database of World Diptera.

MEDHOST

An Encyclopedic Bibliography of the Host Plants of the Mediterranean Fruit Fly, *Ceratitidis capitata* (Wiedemann). Version 1.0

Nicanor J. Liquido, Paul G. Barr & Roy T. Cunningham

Tropical Fruit, Vegetable and Ornamental Crop Research Laboratory, PO Box 4459, Hilo, HI 96720 USA

To use **MEDHOST**: Start Microsoft Windows. For Windows 3 and NT 3.5, under Program Manager, select FILE and then select RUN. For Windows 95 and NT 4.0, select START and then select RUN. Type in D:\MEDHOST\setup and enter. Modify the drive letter, if your CD-ROM isn't drive D.

Family-group Names in Diptera

Curtis W. Sabrosky

with assistance of F. Christian Thompson & Neal L. Evenhuis

(CWS, FCT) Systematic Entomology Laboratory, USDA, Smithsonian Institution, Washington, D. C. 20560-0168 USA; (NLE) Department of Natural Sciences, Bishop Museum, P. O. Box 19000A, Honolulu, HI 96817-0916

To read the **Family-group Names in Diptera**, merely ensure that the Adobe Acrobat Reader is installed and then click on the file name, FGNames.pdf in the folder /NAMES/BDWD.

A pdf file of the *Family-group Names in Diptera* is provided. This pdf file is a separate distributed in advance (in the sense of the *International Code of Zoological Nomenclature*, Article 21(h)) of the printed version that will appear in MYIA, volume 8. The names included in this work are now included in the working files of the Biosystematic Database of World Diptera.

Biosystematic Database of World Diptera

F. Christian Thompson & Neal L. Evenhuis (editors)

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Diptera Names Working Data Files

The Biosystematic Database of World Diptera is a cooperative effort of the World's leading dipterists to provide a comprehensive index to the names of flies. While this project is still in the building stage, we feel that our working data files may be useful to specialists. Hence, these files are provided here as tools for all dipterists, but they are not to be treated as a scientific publication in the sense of the *International Code of Zoological Nomenclature*. **NO NOMENCLATORIAL ACTS ARE VALIDATED HEREIN.** Users, therefore, must be aware that these names have not been peer-reviewed and some have not even been reviewed by the editors!

The various cooperators who have provided names or have reviewed them are: George Byers (Nearctic Tipulidae), Charles Hogue (Nearctic Blephariceridae), Gregory Courtney (Nymphomyiidae), Wallace Steffan (Nearctic Sciaridae), Art Borkent (Nearctic Chaoboridae), Ronald Ward (Nearctic Culicidae), Willis Wirth (Nearctic Ceratopogonidae), Peter Cranston (Nearctic Chironomidae), LaVerne Pechuman (Nearctic Tabanidae), Norman Woodley (Nearctic Stratiomyidae), Eric Fisher (Nearctic Asilidae), Neal Evenhuis (Nearctic Bombyliidae), Toyohi Saigusa (Nearctic Empididae), Brian Brown & Jeffrey Barnes (Nearctic Phoridae), Christian Thompson (Syrphidae), Curtis Sabrosky (Nearctic Chloropidae, Milichiidae & Carnidae, World family-group names), Stephen Marshall (Nearctic Sphaeroceridae), Graham Griffiths (Nearctic Agromyidae & Anthomyiidae), Adrian Pont (Nearctic Fanniidae & Muscidae), D. M. Wood (Nearctic Tachinidae), Guy Shewell (Nearctic Sarcophagidae) AND Allen Norrbom with the assistance of Lynn Carroll, Ammon Friedberg and Ian White for World Tephritidae.

The World Diptera Database continues to grow in size. Currently it includes all family-group names (some 4,300 records) and genus-group names (some 20,500 records) and many species-group names (more than 80,000 records). The family-group names are from the long-term study by Curtis W. Sabrosky, who has now completed his catalog of them (see page 10). Those data records are here included. All the genus-group names in the various regional Diptera catalogs have now been entered into the database, and have been compared against Neave (*Nomenclator Zoologicus*) and other sources. There are now some 3,000 more genus-group names in our data file than are in the various regional Diptera catalogs. By the end of this year, all the genus-group names will be ready for review by interested specialists.

Species-group names are not being systematically nor actively captured at the moment. Only the Tephritidae have been comprehensively treated and peer-reviewed (see page 7). A more detailed listing of the sources of species-group names is included in a readme file (NAMES\BDWD\SOURCES.TXT). The *Systematic Database of Nearctic Diptera* has reached its final stages, with final publication expected in 1999.

The data standards and other information about the Biosystematic Database of World Diptera will be found in NAMES.pdf file in the /NAMES/BDWD folder.

The *Biosystematic Database of World Diptera* project is sponsored by the Systematic Entomology Laboratory, Plant Sciences Institute, Beltsville Agricultural Research Center, Agricultural Research Service, United States Department of Agriculture, Beltsville, Maryland, and the Bishop Museum, Honolulu, Hawaii.

Diptera World-Wide Web Site

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To visit the **Diptera World-Wide-Web** site, merely call up a WWW browser, such as Netscape Navigator (file:///D|Diptera/diptera.htm) or Microsoft Explorer (file:D:\Diptera\diptera.htm), and use as the address the file name.

A copy of the Diptera World-Wide Web as maintained at the Systematic Entomology Laboratory (<http://www.sel.barc.usda.gov>) is available on the DDDD. This is a permanent record of information provided during the previous year at the site. Your Internet browser may be used to read the files which make up the site just as they read those on the Internet itself. Just point the browser to the file location instead of the URL address. Users should also be aware that the embedded links to other sites on the WWW will generate error messages if the browser does not have an open session on the Internet. Likewise, the databases that are part of the WWW are provided separately on this DDDD.

USNM Diptera Collection Inventory

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To use the **USNM Diptera Collection Inventory** click on the icon for USNM.EXE in /USNM folder or on the primary data file USNM.DCI.

A list of the species of Diptera that are represented in the USNM collection at the Smithsonian Institution is provided. This is the same species inventory that is currently available on our Diptera WWW site. While some 50,000 species records are now in the inventory, a few groups remain incompletely inventoried (Culicidae, Tachinidae and Tipulidae).

The data standards and other information about the USNM Diptera Collection Inventory will be found in the USNM.pdf file in the /README folder.

Included Applications

FileMakerPro

FileMakerPro is an easy to use database application produced by Claris. The files created by FileMakerPro can be used under either the Windows or MacIntosh operating systems. If one has FileMakerPro installed on their computer, one only needs to open the appropriate FileMakerPro file. For example, to use the BioSystematic Database of World Diptera, click on the file NAMES.FP3 in the /NAMES/BDWD folder. The use of the FileMakerPro application allows users the full range of options. If one does not have FileMakerPro, then one must use the Windows run-time version provided. Click on the icon for NAMES.EXE in the NAMES/BDWD folder to run the Windows version of the BioSystematic Database of World Diptera.

CD-ROM is a read-only medium, the files on CD-ROM disks can not be modified. To modify these files, copy them onto a writeable media, such as one's hard disk drive. Then change the read-only attribute on the files. After that records can be added, deleted and/or modified.

For more detailed information on FileMakerPro applications, MacIntosh versions, etc., see FMPRO.pdf file in the README folder.

Nota Bene

The Diptera Data Dissemination Disk is a scientific publication in the sense of *International Code of Zoological Nomenclature*. However, most works included in the DDDD are not scientific publications. This issue of DDDD contains only two works of nomenclatural significance as pdf files of works which will appear in the serial MYIA. They are to be treated as separates distributed in advance of formal publication (as indicated in article 21(h) of the *International Code of Zoological Nomenclature*). The other works, such as the USNM species inventory, the working files of Biosystematic Database of World Diptera, the Dipterists' Resource Directory, etc. have no nomenclatural significance as they are not for the permanent, public scientific record.

For more detailed discussion of this publication and the International Code of Zoological Nomenclature, see ICZN.TXT in the README folder.

DDDD has been distributed to the following organizations: The Natural History Museum, London; American Museum of Natural History, New York; Bishop Museum, Honolulu; Smithsonian Institution, Washington; Entomology Division, CSIRO, Canberra; Natal Museum, Pietermaritzburg; Museu de Zoologia, Sao Paulo; Zoological Survey, Calcutta; Zoological Institute, St. Peterburg; and Instituto Nacional de Biodiversidad, San Jose.

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Various taxon images used in the Fruit Fly Expert Identification System were derived from published sources, some of which are copyrighted. For example, the color images of various *Bactrocera dorsalis* complex species are modified from those of Drew & Hancock (1994, Bulletin of Entomological Research) and are copyrighted by CAB International.

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Directory Structure of Diptera Data Dissemination Disk

/ACRO_V1 - various Adobe Acrobat files for DOS
/ACRO_V2 - various Adobe Acrobat files for Windows
/BAT - Batch files
/CHARPCX - image files for characters
/DEMO2 - Files for Tutorial
/DIPTADRS - Dipterists' Directory files
/DIPTERA - Diptera World-Wide-Web site files
/FRUITFLY - Files of Expert Identification System
/L - image files for larval fruitflies
/MEDHOST - MEDHOST
/MOSQUITO - Key to the Mosquito Genera of the World
/NAMES - Diptera Names Data files
 /FRUITFLY - Fruit Fly Systematic Information Database
 /BDWD - BioSystematic Database of World Diptera
/PDF - Various pdf files
/README - ASCII Text Read Me files
/TAXONPCX - images files for adult files
/USNM - Species Inventory of USNM Diptera Collection