

Zoologisches Museum  
Universität Zürich-Irchel  
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## On the type material of Palearctic species of Drosophilidae (Diptera)

Type specimens are important zoological objects, not only as name bearers in nomenclature but also as distinct members of taxa, especially in those cases where the identity of the taxa is doubtful. During the compilation of the Drosophilidae part of the "Catalogue of Palearctic Diptera" (BÄCHLI and ROCHA PITÉ, in press) I therefore considered it necessary to learn more about the type material of the species in question, and to draw as many conclusions as possible.

A general inquiry was made in all museums which were thought to have appropriate type material. Two main questions were put: Do you have any extant type specimens in your collections, and how are they labelled? In addition many collections of type specimens were studied partly or wholly, and supplementary information was gained by personal notes.

It is mainly due to the increasing standardization of the rules for zoological nomenclature that in recent descriptions of species-group taxa the type material is mostly specified with all the relevant details. According to the results of the inquiry, the type material of the species described after 1955 is labelled and deposited as mentioned in the descriptions, whereas for most of the species described before this date the specification of the type material and its location are not yet fully published. Consequently the data given in Table 2 are restricted to species described before 1956.

One of the results of the inquiry was that type specimens of several species were found which formerly were considered to be lost. In addition, hitherto overlooked specimens of original type-series were identified. However, many species, especially those of uncertain status, still remain without types.

Furthermore, it was found that some authors did not specify holotypes, even though this practice went against the rules. One of the aims of this paper is to clarify the type situation for such species. Therefore lectotypes are designated on the one hand for species which have syntype specimens labelled as types by the author or by a subsequent reviser, and on the other hand in cases where a detailed revision of the syntype series was assumed unnecessary.

In Table 2 all Palearctic species of Drosophilidae described before 1956 have been listed in alphabetical order. For each species, all obtainable information about the type specimens, their sex, their location and their labelling is given, together with lectotype designations and comments. In order to shorten the list, published lectotype designations and information regarding the labels have been quoted.

### Acknowledgements

This paper is based on numerous contributions by many persons. I am extremely grateful for the cooperation of the directors and curators of the museums mentioned in Table 1, as well as of some other museums. In addition, I wish to thank those persons who gave me the opportunity to study type material either on loan or during short stays as guest investigator. Furthermore I am highly indebted to Mr. E. B. BASDEN, Dr. J. MÁCA, Dr. M. R. WHEELER, Dr. H. BURLA, and Dr. T. OKADA for many valuable comments.

Table 1  
List of Museums mentioned in Table 2, with abbreviations

|      |  |
|------|--|
| AMNH | American Museum of Natural History, Department of Entomology, New York, U.S.A. |
| AMS  | Australian Museum, Sydney, Australia   |
| BMNH | British Museum (Natural History), Department of Entomology, London, England    |
| CMNZ | Canterbury Museum, Christchurch, New Zealand                                   |

Table 1 (Continues)

|      |  |
|------|--|
| DEI  | Ehemaliges Deutsches Entomologisches Institut. Jetzt: Institut für Pflanzenschutzforschung der Akademie der Landwirtschaftswissenschaften der DDR zu Berlin, Bereich Eberswalde, Abt. Taxonomie der Insekten, Eberswalde, German Democratic Republic |
| DTRC | <i>Drosophila</i> Type and Reference Collection, University of Texas, Austin, Texas, U.S.A.  |
| HNHM | Hungarian Museum of Natural History, Zoological Department, Budapest, Hungary  |
| HU   | Hokkaido University, Department of Entomology, Sapporo, Japan  |
| IEB  | Istituto di Entomologia, Università degli Studi, Bologna, Italy  |
| IRSN | Institut Royal des Sciences Naturelles, Bruxelles, Belgium   |
| LBSU | Laboratory of Biology, Sapporo University, Sapporo, Japan  |
| MCZ  | Museum of Comparative Zoology, Harvard University, Cambridge, Mass., U.S.A.  |
| MHNL | Musée d'Histoire naturelle, Lille, France  |
| MLUH | MARTIN-LUTHER-Universität, Sektion Biowissenschaften, Wissenschaftsbereich Zoologie, Halle, German Democratic Republic   |
| MNHN | Musée National d'Histoire Naturelle, Laboratoire d'Entomologie, Paris, France  |
| MSNV | Museo civico di Storia naturale, Verona, Italy   |
| MZF  | Museo Zoológico de „La Specola“, Università degli Studi, Firenze, Italy  |
| MZSP | Museu de Zoologia, Universidade de São Paulo, São Paulo, Brazil  |
| NMA  | Naturhistorisches Museum Admont, Admont, Austria   |
| NMI  | National Museum of Ireland, Dublin, Ireland  |
| NMW  | Naturhistorisches Museum Wien, Wien, Austria   |
| NSMT | Natural Science Museum, Tokyo, Japan   |
| OUM  | Oxford University Museum, Hope Entomological Collections, Oxford, England  |
| RNH  | Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands  |
| RS   | Naturhistoriska Riksmuseet, Stockholm, Sweden  |
| RSM  | Royal Scottish Museum, Edinburgh, Scotland   |
| SMN  | Staatliches Museum für Naturkunde, Abteilung für Entomologie, Ludwigsburg, German Federal Republic   |
| SPHS | School of Public Health and Tropical Medicine, University of Sydney, Sydney, Australia   |
| USNM | United States National Museum, Department of Entomology, Washington, D.C., U.S.A.  |
| ZIAL | Zoologický Institut, Akademii Nauk SSSR, Leningrad, U.S.S.R.   |
| ZIH  | Zoologisches Institut, Universität Hamburg, Hamburg, German Federal Republic   |
| ZIHZ | Zoological Institute, Hokkaido University, Sapporo, Japan  |
| ZIL  | Universitets Zoologiska Institution, Entomologiska Avdelningen, Lund, Sweden   |
| ZMA  | Zoologisch Museum der Universiteit van Amsterdam, Afd. Entomologie, Amsterdam, Netherlands   |
| ZMB  | Zoologisches Museum, HUMBOLDT-Universität, Berlin, German Democratic Republic  |
| ZMC  | Zoological Museum, Copenhagen, Denmark   |
| ZMH  | Zoological Museum, Helsinki, Finland   |
| ZMU  | Zoologiska Museet, Uppsala Universitet, Uppsala, Sweden  |
| ZMUC | Zoological Museum, University of Cambridge, Cambridge, England   |
| ZMZ  | Zoologisches Museum der Universität Zürich-Irchel, Zürich, Switzerland   |

Table 2

List of Palearctic species of Drosophilidae described before 1956, in alphabetical order

For each species the type material, its sex and its location are specified, where known. Abbreviations used: HT = holotype, PT = paratype(s), LT = lectotype, PL = paralectotype(s), ST = syntype(s), NT = Neotype. The abbreviations of the museums are stated in Table 1. The details of each label are indicated as precisely as possible. Each label is divided from the next by a slash (/). All comments are in square brackets.

| Species  | Kind of types | Sex | Deposited in | Details of labels and comments   |
|--|---------------|-----|--------------|--|
| <i>Aclatoxenus</i> FRAUENFELD, 1868<br><i>formosus</i> LOEW, 1864 ( <i>Gitona</i> )              | LT            |     | ZMB          | Coll. H. LOEW / Type / <i>Gitona formosa</i> LOEW,<br>Type, = <i>ornata</i> Mg. / <i>Aclatoxenus syrphoides</i> FR.,<br>det. Dr. O. DUDA   |
|  | PL            |     | ZMB          | [Lectotype, by present designation]<br>Coll. H. LOEW / Type / <i>Gitona formosa</i> LOEW,<br>Type, = <i>ornata</i> Mg. / <i>Aclatoxenus syrphoides</i> FR.,<br>det. Dr. O. DUDA<br>[not in NMW]                        |
| <i>syrphoides</i> FRAUENFELD, 1868   | —             |     | —            |  |
| <i>Amiota</i> LOEW, 1862<br><i>albilabris</i> ROTH in ZETTERSTEDT,<br>1860 ( <i>Drosophila</i> ) | HT            | ♂   | ZIL          | Bök. 21. 6. / <i>Dros. albilabris</i> ROTH, ♂, n. sp. /<br>Type selected by E. B. BASDEN, Jany. 1955,<br><i>Drosophila albilabris</i> RTH. / = <i>Amiota albilabris</i><br>(ROTH), det. E. B. BASDEN<br>[BASDEN, 1961] |
| <i>obscuripes</i> STROBL, 1910<br>( <i>Phortica</i> )  | LT            | ♂   | NMA          |  |
| <i>alboguttata</i> WAHLBERG, 1839<br>( <i>Drosophila</i> )                                       | ST            | ♂   | ZIL          | <i>D. alboguttata</i> WAHLB., ♀ Gusum WAHLB.<br>[not in ZMB]   |
| <i>leucostoma</i> BECKER, 1908<br>( <i>Leucophaena</i> )   | —             |     | —            |  |
| <i>flavopruinosa</i> DUDA, 1934<br><i>tata</i> BECKER, 1907 ( <i>Drosophila</i> )                | HT            | ♀   | ZMB          | [MÁCA, 1980]<br>[not in ZMB]   |
| <i>oldenbergi</i> DUDA, 1924 ( <i>Phortica</i> )   | LT            | ♀   | DEI          | [ROHLFEN and EWALD, 1972, MÁCA, 1977]  |
| <i>rufescens</i> OLDENBERG, 1914   | LT            | ♂   | DEI          | [ROHLFEN and EWALD, 1972, MÁCA, 1980]  |
|  | PL            | ♂♂  | DEI          | [ROHLFEN and EWALD, 1972, MÁCA, 1980]  |
|  | PL            |     | NMW          | Mehadia, 5. 7. 12, OLDENBERG / Type / <i>Phortica rufescens</i> OBG., Type   |

Table 2 (Continued)

| Species  | Kind of types                          | Sex                             | Deposited in                                  | Details of labels and comments  |
|--|--|---------------------------------|---|---|
| <i>subtusradiata</i> DUDA, 1934  | LT<br>PL                               | ♂<br>♂                          | ZMH<br>ZMB                                    | [MÁCA, 1980]<br>Wustung b. Habelschwerdt, 1. DUDA / <i>alboguttata</i> W., ♂, d. DUDA / <i>Amiota alboguttata</i> var. <i>radiata</i> n. var., Typus / Holotype of <i>Amiota subtusradiata</i> DUDA, det. BASDEN, VI. 1959, Abdomen, wing to slide  |
| <i>variegata</i> FALLÉN, 1823<br>( <i>Drosophila</i> )   | LT<br>PL<br>PL                         | ♀<br>♀<br>♀                     | RS<br>RS<br>RS                                | [MÁCA, 1977, with lectotype label by BASDEN]<br><i>Drosophila variegata</i> ♂ / <i>Drosophila variegata</i> FLN., syntype, det. BASDEN, '55 / <i>Phortica variegata</i> (FLN.), ♀, det. BASDEN, '55<br><i>D. variegata</i> ♀ / <i>Drosophila variegata</i> FLN., syntype, det. BASDEN, '55 / <i>Phortica variegata</i> (FLN.), ♀, det. BASDEN, '55  |
| <i>Cacoxenus</i> LOEW, 1858<br><i>argyreator</i> FREY, 1932  | LT<br>PL                               | ♂<br>♂                          | ZMH<br>ZMH                                    | [MCALPINE, 1968]<br>[MCALPINE, 1968]  |
| <i>exiguus</i> DUDA, 1924  | LT<br>PL<br>PL<br>PL<br>PL<br>PL       | ♂<br>♂♂<br>♂<br>♂<br>♂<br>♂     | ZMB<br>ZMB<br>ZMB<br>ZMB<br>ZMB<br>ZMB        | [MCALPINE, 1968]<br>6. 5. 23 / Wustung b. Habelschwerdt, 1. DUDA / <i>Cacoxenus exiguus</i> DUDA, ♂, det. Dr. O. DUDA<br>21. 5. 23 / Wustung b. Habelschwerdt, 1. DUDA / <i>Cacoxenus exiguus</i> DUDA, det. Dr. O. DUDA / Syntype ♂<br>24. 5. 23 / Wustung b. Habelschwerdt, 1. DUDA / <i>Cacoxenus exiguus</i> ♂<br>31. 5. 23 / Wustung b. Habelschwerdt, 1. DUDA / <i>Cacoxenus exiguus</i> ♂ / Syntype ♂  |
| <i>indagator</i> LOEW, 1858  | LT                                     | ♂                               | ZMB   | Silesia, 5. 58 / Coll. H. LOEW / Type / <i>Cacoxenus indagator</i> m. / Lectotype ♂, <i>Cacoxenus indagator</i> LOEW, designated by D. E. HARDY, 1958<br>[Lectotype, by present designation]  |
| <i>obscura</i> KRÖBER, 1912<br>( <i>Paragonita</i> )   | PL                                     | —                               | ZMB   | Silesia, 5. 58 / Coll. H. LOEW / Type<br>[not in ZIH]   |
| <i>inquilinus</i> HENDEL, 1933<br><i>perspicax</i> KNAB, 1914 ( <i>Gitonides</i> )   | HT<br>LT                               | ♂                               | NMW<br>USNM                                   | Semmering, Juni 1923<br>Honolulu, Oahu, Coll. O.H.S. / ex mealybugs on sugar cane / Type No. 19070, U.S.N.M. / <i>Gitonides perspicax</i> KNAB  |
| <i>punctatus</i> DUDA, 1924  | PL<br>LT<br>PL<br>PL<br>PL             | ♂<br>♂<br>♂<br>♀<br>♀           | USNM<br>ZMB<br>ZMB<br>ZMB<br>ZMB              | [Lectotype, by present designation]<br>[variously labelled, mostly from Honolulu]<br>[MCALPINE, 1968]<br>Formosa, SAUTER / Takao, 1907, X. 24 / <i>Cacoxenus punctatus</i> , ♂, det. Dr. O. DUDA / Syntype ♂<br>Formosa, SAUTER / Anping, 1912, V / <i>Cacoxenus punctatus</i> , ♀, det. Dr. O. DUDA / phot. / Syntype ♀<br>Formosa, SAUTER / Takao, 1907, X. 26 / Busch / <i>Cacoxenus punctatus</i> D., ♀, det. Dr. O. DUDA   |
| <i>vlasovi</i> DUDA, 1934  | LT<br>PL<br>PL                         | ♂<br>♀<br>♀                     | ZIAL<br>ZIAL<br>ZMB                           | [MCALPINE, 1968]<br>[MCALPINE, 1968]<br>Ashkhabad   |
| <i>Chymomyza</i> CZERNY, 1903<br><i>amoena</i> LOEW, 1862 ( <i>Drosophila</i> )<br><i>caudatula</i> OLDENBERG, 1914<br><i>costata</i> ZETTERSTEDT, 1838<br>( <i>Drosophila</i> ) | ST<br>HT<br>ST<br>ST<br>ST<br>ST<br>LT | ♂<br>♂<br>♂<br>♂<br>♂<br>♂<br>♂ | MCZ<br>DEI<br>ZIL<br>ZIL<br>ZIL<br>ZIL<br>NMW | MCZ type No. 13416<br>[ROHLFEN and EWALD, 1972]<br><i>D. costata</i> ♂ Äsele Lapp.<br><i>D. costata</i> Umenäs ♀<br><i>D. costata</i> ♂ Äsele Lapp.<br>[black squares only]<br>Austria, coll. EGGER / <i>distincta</i> , det. EGGER / <i>Chym. distincta</i> EGG. (= <i>fuscimana</i> OLD. nec. ZTT.), det. BASDEN, 1955<br>[Lectotype, by present designation]   |
| <i>oldenbergi</i> DUDA, 1934   | LT                                     | ♂                               | DEI   | Gernsbach, OLDENBERG, 8.98 / Lamellen kurz gewimpt. / <i>distincta</i> EGG. / <i>fuscimana</i> nec <i>distincta</i> , det. Dr. O. DUDA / coll. OLDENBERG<br>[Lectotype, by present designation]<br>Berlin Grun., 24. 8. / Schatten mehr fleckenartig / coll. OLDENBERG<br>Pichelsberg, 4. 6. 98, Berlin / A / coll. OLDENBERG<br>Berlin Gd. . . . / Fg. dunkler / A / coll. OLDENBERG / <i>Drosophila fuscimana</i> ZETT.<br>Berlin Finkenkrug, 7. 6. 06 / coll. OLDENBERG<br>Berlin Gd, 24. 8. 06 / <i>Dros. fusc.</i> Z. / coll. OLDENBERG<br>Berlin Pichelsberg, 4. 10. 06 / Breite braune Fg. Striemen / coll. OLDENBERG<br>Berlin P., 16. 9. 00 / phot / coll. OLDENBERG<br>Berlin Gd., 24. 8. 06<br>Berlin Gd., 24. 8. 06 / <i>Chymomyza fuscimana</i> Z., det. OLDENBERG |

Table 2 (Continued)

| Species   | Kind of types             | Sex              | Deposited in                | Details of labels and comments   |
|---|---------------------------|------------------|-----------------------------|--|
| <i>fuscimana</i> ZETTERSTEDT, 1838<br>( <i>Drosophila</i> )   | ST<br>ST<br>HT            | ♂<br>♂<br>+      | ZIL<br>ZIL<br>ZMH           | <i>D. fuscimana</i> ♂ Nordanäs<br><i>D. fuscimana</i> ♂ Nästansjö<br>Insel Nikander  |
| <i>albopunctata</i> BECKER, 1900<br>( <i>Drosophila</i> )   |                           |                  |                             |  |
| <i>obscura</i> DE MEIJERE, 1911<br>[ <i>Amphoroneura</i> ]  | LT                        |                  | ZMA                         | Batavia, Java, Aug. 1908, Type<br>[Lectotype, by present designation]  |
| <i>procnemis</i> WILLISTON, 1896<br>( <i>Drosophila</i> )   | PL<br>ST                  |                  | ZMA<br>BMNH                 | Batavia, Java, Aug. 1908<br>St. Vincent, W. I.   |
| <i>Dettosomyia</i> LAMB, 1914<br><i>nigrovittata</i> MALLOCH, 1924<br>( <i>Drosophila</i> )   | HT                        | ♂                | SPHS                        | Sydney, 28 August 1921   |
| <i>pictipes</i> DE MEIJERE, 1911<br>( <i>Drosophila</i> )   | LT                        |                  | ZMA                         | Wonosobo, Java, Apr. 1909, Type<br>[Lectotype, by present designation]   |
| <i>sumatrana</i> DUDA, 1926   | PL<br>ST                  | ♂♀               | ZMA<br>RNH                  | Wonosobo, Java, Apr. 1909<br>Fort de Kock, Sumatra, 920 m, leg. E. JACOBSON,<br>1925   |
|   | ST                        | ♂♀               | ZMB                         | Fort de Kock, Sumatra, 920 m, leg. E. JACOBSON,<br>1925 / <i>pictipes</i> var. <i>sumatrana</i> , d. DUDA  |
| <i>Drosophila</i> FÄLLÉN, 1823<br><i>acuminata</i> COLLIN, 1952   | ST<br>ST<br>—             | ♂<br>♂<br>—      | OUM<br>OUM<br>—             | Torcross, 12. 7. 03, Col. Y.<br>Padstow, IX. 02, C. G. LAMB  |
| <i>afer</i> TAN, HSU and SHENG, 1949  |                           |                  |                             | [All type specimens of species described by TAN,<br>HSU and SHENG have been lost — pers. communica-<br>tion of T. C. TAN to M. R. WHEELER]   |
| <i>alboralis</i> MOMMA and TAKADA,<br>1954  | LT                        | ♂                | ZIHU                        | Mt. Taisetsu, Hokkaido<br>[Lectotype, by present designation]  |
| <i>alpina</i> BURLA, 1948<br><i>ambigua</i> POMINI, 1940  | PL<br>HT<br>?             | ♂                | LBSU<br>ZMZ                 | Mt. Taisetsu, Hokkaido<br><i>D. alpina</i> n. sp., Type, ♂, Fetan, VIII. 1947<br>[In POMINI's collections deposited in IEB and<br>MSNV no specimens are labelled as types in spite<br>of POMINI's statement in the publication in 1940]<br>[not located] |
| <i>ananassae</i> DOLESCHALL, 1858<br><i>similis</i> LAMB, 1914<br><i>caribea</i> STURTEVANT, 1916   | —<br>ST<br>HT<br>PT<br>PT | ♂<br>♂<br>♂<br>♂ | ZMUC<br>AMNH<br>AMNH<br>ZMB | Mahé, Seychelles Exp., '08—9, Cotype<br>Havana, Cuba, 1915<br>Havana, Cuba, 1915<br>Bred-plantain / Havanna, Cuba, Jan. Febr. 1915 /<br>Paratype / <i>Drosophila caribea</i> STRT. / Flügel<br>phot. 2. 6. 25  |
| <i>andalusiaca</i> STROBL, 1906<br><i>forcipata</i> COLLIN, 1952<br><i>annulipes</i> DUDA, 1924<br><i>virgata</i> TAN, HSU and<br>SHENG, 1949 | HT<br>ST<br>ST<br>—       | ♀<br>♂♀<br>♂♀    | NMA<br>OUM<br>DEI<br>—      | [BASDEN 1961, as lectotype]<br>Studiand, 20. 8. 06<br>[ROHLFIEN and EWALD, 1972]<br>[see comments on <i>D. afer</i> TAN, HSU and SHENG]  |
| <i>auraria</i> PENG, 1937<br><i>bifasciata</i> POMINI, 1940<br><i>bizonata</i> KIKKAWA and PENG,<br>1938                                      | —<br>?<br>ST              | —<br>—<br>—      | NSMT                        | [not in NSMT]<br>[see comments on <i>D. ambigua</i> POMINI]<br>Kyoto, Aug. '36 / N. CHINO & F. T. PENG   |
| <i>brevicornis</i> DUDA, 1935   | HT                        |                  | ZIAL                        | Jakovlevka, Spas. u., Ussur. kr., 23. VI. 926,<br>N 618, (DJAKOVON i FILIPJEV)<br>5577, on rotten potatoes / In Nov. 17. 92 / Type<br>No. 5396, U.S.N.M.   |
| <i>busckii</i> COQUILLETT, 1901   | LT                        |                  | USNM                        | [Lectotype, by present designation]<br>[different labels]  |
| <i>rubrostriata</i> BECKER, 1908  | PL<br>LT                  | ♀                | USNM<br>ZMB                 | Vill. Orotava II 47105 / <i>busckii</i> COQU., det. Dr.<br>O. DUDA / Typus   |
|   | PL                        |                  | ZMB                         | [Lectotype, by present designation]  |
| <i>plurilineata</i> VILLENEUVE,<br>1911   | ST                        |                  | DEI                         | Villa Orotava II 47105 / = <i>busckii</i> COQU., det.<br>Dr. O. DUDA / Typus   |
|   | ST                        |                  | ZMB                         | [ROHLFIEN and EWALD, 1972]   |
| <i>buzzatii</i> PATTERSON and<br>WHEELER, 1942  | ST                        | ♂♀               | AMNH                        | Paris, I. 1911 / <i>Drosophila plurilineata</i> VILLE-<br>NEUVE i. litt. / <i>busckii</i> COQU., det. Dr. O. DUDA<br>Cordoba, Argentina  |
| <i>tigrina</i> BUZZATI-TRAVERSO,<br>1943  | ST                        |                  | DTRC                        | Cordoba, Argentina<br>[not located]  |
| <i>versicolor</i> MATHER, 1955  | LT                        | ♂                | AMS                         | [DANIELS, 1978, as holotype. Lectotype, by<br>present designation]   |
|   | PL                        | ♀                | AMS                         | [DANIELS, 1978, as allotype]   |
|   | PL                        | ♂♀               | AMS                         | [DANIELS, 1978, as paratypes]  |
| <i>cameraria</i> HALIDAY, 1833  | LT                        | ♀                | NMI                         | Hollywood / HALIDAY, 20. 2. '82 / Named by<br>J. E. COLLIN / Lectotype designated by E. B.<br>BASDEN, 1952 / <i>Drosophila cameraria</i> HAL., det.<br>E. B. BASDEN, 1952, ♀   |
|   | PL                        | ♂                | NMI                         | [Lectotype, by present designation]<br>Ireland / HALIDAY, 20. 2. '82 / Lectoallotype<br>designated by E. B. BASDEN, 1952 / <i>Drosophila</i><br><i>cameraria</i> HAL. det. E. B. BASDEN, '52, ♀  |

Table 2 (Continued)

| Species  | Kind of types | Sex  | Deposited in                                | Details of labels and comments   |
|--|---------------|------|---|--|
| <i>unistriata</i> STROBL, 1898                   | LT            | ♂    | NMA   | [BASDEN, 1961]   |
|  | PL            | ♀    | NMA   | [BASDEN, 1961, as syntypes!]   |
| <i>latestriata</i> BECKER, 1908                  | LT            | ♂    | ZMB   | Teneriffe, XII, 51357 / <i>latestriata</i> BECKER, det. Dr. O. DUDA<br>[Lectotype, by present designation]                                 |
|  | PL            | ♀    | ZMB   | Teneriffe, XII, 46735 / <i>latestriata</i> BECKER<br>[not in IRSN]   |
| <i>fungicola</i> VILLENEUVE, 1921                | —             | —    | —   | [see comments on <i>D. afer</i> TAN, HSU and SHENG]  |
| <i>cheda</i> TAN, HSU and SHENG, 1949            | —             | —    | —   | [ROHLFIEN and EWALD, 1972, MORGE, 1976]  |
| <i>cilitarsis</i> HERING, 1940                   | HT            | ♂    | DEI   | [FRYDENBERG, 1956]   |
| <i>confusa</i> STAEGER, 1844                     | LT            | ♂    | ZMC   | [FRYDENBERG, 1956]   |
| <i>vibrissina</i> DUDA, 1924                     | PL            | ♂    | ZMC   | [ROHLFIEN and EWALD, 1972. Lectotype, by present designation, with lectotype label by FRYDENBERG]  |
|  | LT            | ♂    | DEI   | [ROHLFIEN and EWALD, 1972]<br>Mehadia, 3. 7. 12 / <i>histrio</i> (MG.), SCHIN. et OLD. / <i>Drosophila vibrissina</i> ♂? / Typus           |
|  | PL            | ♂?   | DEI   | Mehadia, 11. 6. 04 / <i>vibrissina</i> DUDA ♂ / Typus  |
|  | PL            | ♂    | ZMB   | <i>D. vibrissina</i> DUDA, ♀. Hyp. gezeichnet  |
|  | PL            | ♀    | ZMB   | <i>D. grischuna</i> n. sp., T. Braunwald, 1950   |
| <i>grischuna</i> BURLA, 1951                     | LT            | ♂    | ZMZ   | [Lectotype, by present designation]  |
|  | PL            | ♂?   | ZMZ   | <i>D. grischuna</i> n. sp., Paratypen, Braunwald, 1950   |
| <i>coracina</i> KIKKAWA and PENG, 1938           | ST            | NSMT | Simoda, Nov. '38 / H. NYAMADA & H. KATAYAMA |  |
| <i>deflexa</i> DUDA, 1924                        | ST            | ♂?   | ZMB   | Wustung b. Habeschwerdt, 1. DUDA<br>[different collection dates]   |
|  | ST            | ♀?   | ZMB   | Guhlau b. Nimptsch / 29. 8. 12 / <i>D. deflexa</i> DUDA ♀  |
|  | HT            | ♂    | ZMZ   | <i>D. guyenoti</i> n. sp., Type, Therwil, VI. 1947   |
| <i>guyenoti</i> BURLA, 1948                      | PT            | —    | ZMZ   | <i>D. guyenoti</i> n. sp., Cotyphen, Therwil, VI. 1947   |
|  | LT            | ♂    | RS  | <i>Drosophila fenestrarum</i> FLN., lectotype ♂, selected by E. B. BASDEN, 1956  |
| <i>fenestrarum</i> FALLÉN, 1823                  | PL            | ♀    | RS  | [Lectotype, by present designation]<br><i>D. fenestrarum</i> ♂ / <i>D. fenestrarum</i> , syntype ♀, det. BASDEN '56                        |
|  | PL            | ♂    | RS  | <i>D. fenestrarum</i> , syntype ♂, det. BASDEN '56   |
|  | PL            | ♀    | RS  | <i>D. fenestrarum</i> ♀ / <i>D. fenestrarum</i> , syntype ♀, det. BASDEN '56   |
|  | PL            | ♀?   | RS  | <i>D. fenestrarum</i> , syntype ♀, det. BASDEN '56   |
| <i>virginea</i> MEIGEN, 1830                     | LT            | ♀    | NMW   | <i>virginea</i> , Coll. WINTH. / <i>virginea</i> / <i>fenestrarum</i> FLN., det. BASDEN, 1955  |
|  | ST            | ♂?   | RNH   | [Lectotype, by present designation]<br>Fort de Kock, Sumatra, 920 m, leg. E. JACOBSON, 1925  |
| <i>hirsuta</i> DUDA, 1926                        | ST            | ♀    | ZMB   | Fort de Kock, Sumatra, 920 m, leg. E. JACOBSON, 1925 / <i>hirsuta</i> ♀, d. DUDA   |
|  | ST            | ♀    | ZMB   | <i>fenestrarum</i> var. <i>hirsuta</i> ♀, d. DUDA  |
|  | ST            | NSMT | Kôku, Sept. '34 / T. KAMIZAWA & M. HIRAGA   |  |
| <i>ficusphila</i> KIKKAWA and PENG, 1938         | ST            | ♀?   | ZMC   | <i>M. funebris</i>   |
| <i>funebris</i> FABRICIUS, 1787 ( <i>Musca</i> ) | HT            | —    | CMNZ  | Christchurch, H. CLARK   |
| <i>clarkii</i> HUTTON, 1901                      | —             | —    | —   | [MILLER, 1950]   |
| <i>atkinsoni</i> MILLER, 1921                    | —             | —    | —   |  |
| ( <i>Leucophenga</i> )                           | HT            | —    | USNM  | Angol, Chile   |
|  | PT            | —    | USNM  | Angol, Chile   |
| <i>dudai</i> MALLOCH, 1934                       | ST            | NSMT | Kôku, Sept. '34 / T. KAMIZAWA & M. HIRAGA   |  |
| <i>grandis</i> KIKKAWA and PENG, 1938            | HT            | —    | —   |  |
| <i>helvetica</i> BURLA, 1948                     | PT            | —    | —   |  |
| <i>histrio</i> MEIGEN, 1830                      | ST            | ♂?   | ZMB   | [A specimen in NMW labelled <i>histrio</i> in MEIGEN's handwriting, but being <i>D. phalerata</i> MEIGEN may not be accepted as lectotype] |
|  | HT            | —    | AMNH  | Tyrolis, Pieve di Ledro / <i>Drosophilacanifusa</i> / Coll. POKORY / <i>Drosophila Pokornyi</i> DUDA, d. DUDA / Typus                      |
| <i>pokornyi</i> DUDA, 1924                       | HT            | ♂    | MZSP  | Lakeland, Florida  |
|  | HT            | ♂    | MZSP  | Mogi das Cruzes, São Paulo, IV. 943  |
|  | PT            | —    | MZSP  | Mogi das Cruzes, São Paulo, IV. 943  |
| <i>hydei</i> STURTEVANT, 1921                    | HT            | ♂    | AMNH  | White Plains, N.Y., 1919   |
| <i>setosa</i> DOBZHANSKY and VAN, 1943           | HT            | ♂    | CMNZ  | Auckland, H. SUTER   |
| <i>immigrans</i> STURTEVANT, 1921                | HT            | ♂    | CMNZ  | [ROCHA PITÉ and TSACAS, 1980]  |
| <i>brouni</i> HUTTON, 1901                       | HT            | ♂    | MNHN  | [ROCHA PITÉ and TSACAS, 1980]  |
| <i>cilifemur</i> VILLENEUVE, 1923                | LT            | ♂    | MNHN  | Paris, 1-1911 / <i>Drosophila cilifemur</i> VILLENN.   |
|  | PL            | ♂?   | ZMB   | Paris, 1-1911 / <i>cilifemur</i> VILLENN., von Dr. V. erhalten   |
|  | PL            | —    | ZMB   | <i>D. iri</i> , T. Adzopé, 8. 51, ♂ / Coll. H. BURLA, Côte d'Ivoire 1951   |
| <i>iri</i> BURLA, 1954                           | HT            | ♂    | ZMZ   | Rio de Janeiro, VIII. 54   |
| <i>kikkawai</i> BURLA, 1954                      | NT            | ♂    | ZMZ   | [HARDY, 1965]  |

Table 2 (Continued)

| Species                                       | Kind of types          | Sex                    | Deposited in | Details of labels and comments  |
|---|------------------------|------------------------|--------------|---|
| <i>kuntzei</i> DUDA, 1924                     | LT                     | ♂                      | ZMB          | 7, 10, 20 / St. Wendel, Rheini., DUDA / <i>D. kuntzei</i> ♂, det. Dr. O. DUDA / phot. / Typus [Lectotype, by present designation].  |
|   | PL                     | ♂♀                     | ZMB          | St. Wendel, Rheini., DUDA / <i>D. kuntzei</i> D. / Typus [different collection dates]   |
| <i>latifrontata</i> FROTA-PESSOA, 1945        | LT                     | ♂                      | HNHM         | [BÄCHLI, 1974]  |
|   | PL                     | ♂♀                     | HNHM         | [BÄCHLI, 1974, as paratypes]  |
|   | PL                     | ♂♀                     | ZMB          | Formosa, SAUTER / Kosempo, 908.III / <i>carinata</i> , det. Dr. O. DUDA   |
| <i>lebanonensis</i> WHEELER, 1949             | PL                     | ♂♀                     | ZMB          | Formosa, SAUTER / Fuhosho, 909.VII / <i>carinata</i> , det. Dr. O. DUDA   |
|   | HT                     | ♂                      | DTRC         | Beirut / No. 1733.1   |
| <i>limbata</i> VON ROSER, 1840                | PT                     | ♂♀                     | DTRC         | Beirut / No. 1733.1   |
|   | LT                     | ♂                      | SMN          | <i>limbata</i> , m. / Würtemberg, v. ROSEN / Typus v. ROSEN / <i>Dros. limbata</i> v. ROSEN, lectotype (v. Ros. 7) selected by E. B. BASDEN, 1957 [Lectotype, by present designation] |
| <i>littoralis</i> MEIGEN, 1830                | PL                     | ♂                      | SMN          | <i>Drosophila limbata</i> v. R., v. ROSEN / <i>Dros. limbata</i> v. Ros. (v. Ros. 10), syntype, det. BASDEN, '57  |
|   | ST                     | ♂♀                     | ZMB          | [not located]   |
| <i>parenti</i> VILLENEUVE, 1921               | ST                     | ♂♀                     | ZMB          | Trescaut (P. d. C.) / <i>Drosophila PARENTI</i> n. sp.  |
|   | ST                     | ♂♀                     | ZMB          | Wustung b. Habelschwerdt, 1. DUDA [different collection dates]  |
| <i>lugubrina</i> DUDA, 1924                   | —                      | —                      | —            | [not located]   |
|   | HT                     | ♂                      | ZMH          | Tuovilanlaks  |
| <i>imeretensis</i> SOKOLOV, 1948              | —                      | —                      | —            | Ayabe, July '36 / H. KIKKAWA  |
|   | lundstroemi DUDA, 1935 | —                      | —            | [ROCHA PITÉ and TSACAS, 1980]   |
| <i>lutescens</i> OKADA, 1975                  | —                      | —                      | —            | [ROCHA PITÉ and TSACAS, 1980]   |
|   | lutea                  | KIKKAWA and PENG, 1938 | ST           | <i>fasciata</i> , Coll. WINTH. / <i>ampeloph.</i> / <i>melanogaster</i> MG., det. BASDEN 1955 [Lectotype, by present designation]   |
| <i>melanogaster</i> MEIGEN, 1830              | LT                     | ♂                      | MNHN         | <i>fasciata</i> , Coll. WINTH. / <i>ampeloph.</i> / <i>melanogaster</i> MG., det. BASDEN 1955   |
|   | PL                     | ♀♀                     | MNHN         | [TSACAS, 1967]  |
| <i>fasciata</i> MEIGEN, 1830                  | LT                     | ♂                      | NMW          | [TSACAS, 1967]  |
|   | PL                     | ♀♀                     | NMW          | <i>melanogaster</i> MG., det. BASDEN 1955   |
| <i>nigriventris</i> MACQUART, 1843            | LT                     | ♂                      | MNHN         | <i>D. approximata</i> 9, Smoland. / Lectotype of <i>Drosophila approximata</i> ZTT., selected by E. B. BASDEN 1960 [Lectotype, by present designation]                                |
|   | PL                     | ♂♀                     | MNHN         | [TSACAS, 1967]  |
| <i>approximata</i> ZETTERSTEDT, 1847          | LT                     | ♀                      | ZIL          | <i>D. approximata</i> 9, Smoland. / Lectotype of <i>Drosophila approximata</i> ZTT., selected by E. B. BASDEN 1960  |
|   | PL                     | ♀                      | ZIL          | [Smol. / Syntype of <i>Drosophila approximata</i> ZTT., selected by E. B. BASDEN, 1960]   |
| <i>ampelophila</i> LOEW, 1862                 | ST                     | —                      | MCZ          | <i>ampelophila</i> m. / MCZ No. 13415   |
|   | ST                     | —                      | MCZ          | Cuba / MCZ No. 13415  |
| <i>uvvarum</i> RONDANI, 1875                  | LT                     | ♂                      | MZF          | No. 2162 [Lectotype, by present designation]  |
|   | PL                     | ♂♀                     | MZF          | No. 2162  |
| <i>pilosula</i> BECKER, 1908                  | LT                     | ♂                      | ZMB          | Teneriffe, XII, 46732 / <i>Drosophila pilosula</i> BECK., det. BECKER / <i>ampelophila</i> LOEW, det. Dr. O. DUDA / Typus [Lectotype, by present designation]                         |
|   | PL                     | —                      | ZMB          | Teneriffe, XII, 46627 / Typus   |
| <i>mercatorum</i> PATTERSON and WHEELER, 1942 | PL                     | —                      | ZMB          | Teneriffe, XII, 46731 / Typus   |
|   | PL                     | —                      | ZMB          | Orotava, I, 46943 / Typus   |
| <i>carinata</i> GRIMSHAW, 1901                | ST                     | —                      | AMNH         | Santa Barbara, California   |
|   | ST                     | —                      | USNM         | Santa Barbara, California   |
| <i>pararepleta</i> DOBZHANSKY and PAVAN, 1943 | ST                     | —                      | DTRC         | Santa Barbara, California   |
|   | PT                     | —                      | BMNH         | Hawaii: Kona, 4000 ft   |
| <i>miki</i> DUDA, 1924                        | LT                     | —                      | RSM          | Olaa, Hawaii, VII. 1895, R. C. L. PERKINS [Type material of other species of <i>Drosophila</i> described by GRIMSHAW is also in RSM]  |
|   | PL                     | —                      | MZSP         | Mogi das Cruzes, São Paulo, V-1949  |
|   | PL                     | —                      | MZSP         | Mogi das Cruzes, São Paulo, V-1949  |
|   | PL                     | —                      | NMW          | [LAŠTOVKA and MÁČA, 1978]   |
|   | PL                     | —                      | NMW          | [LAŠTOVKA and MÁČA, 1978]   |
|   | PL                     | —                      | NMW          | Austr. inf., Wien, 28. 6. 72, MIK / <i>Drosophila miki</i> n. sp. ♂, det. Dr. O. DUDA / <i>Drosophila miki</i> DUD., Lectotype ♂, selected by E. B. BASDEN, 1956                      |
|   | PL                     | —                      | NMW          | Austr. inf., Wien, 28. 6. 72, MIK / <i>Miki</i> D., det. Dr. O. DUDA / <i>Drosophila miki</i> DUDA. Syntype ♂, det. E. B. BASDEN, 1956  |
|   | PL                     | —                      | NMW          | Austr. inf., Wien, 28. 6. 72, MIK / <i>D. Miki</i> D., det. Dr. O. DUDA   |
|   | PL                     | —                      | ZMB          | Austr. inf., Wien, 28. 6. 72, MIK / <i>Drosophila miki</i> DUDA, ♂, det. DUDA   |

Table 2 (Continued)

| Species                                       | Kind of types | Sex | Deposited in | Details of labels and comments  |
|---|---------------|-----|--------------|---|
| <i>montana</i> PATTERSON and WHEELER, 1942    | ST            |     | DTRC         | Gran Teton National Park, Wyoming   |
| <i>nigricolor</i> STROBL, 1898                | LT            | ♂   | NMA          | [BASDEN, 1961]  |
|   | PL            | ♂   | NMA          | [BASDEN, 1961, as syntype]  |
| <i>nigromaculata</i> KIKKAWA and PENG, 1938   | ST            | ♂   | NSMT         | Sapporo, Oct. '35 / S. MAKINO   |
| <i>nigrosparsa</i> STROBL, 1898               | LT            | ♂   | NMA          | [BASDEN, 1961]  |
|   | PL            | ♂   | NMA          | [BASDEN, 1961, as syntype]  |
| <i>nipponica</i> KIKKAWA and PENG, 1938       | ST            | ♂   | NSMT         | Ayabe, July '36 / H. KIKKAWA  |
| <i>obscura</i> FALLÉN, 1823                   | LT            | ♂   | RS           | <i>D. obscura</i> ♀ / <i>Dros. obscura</i> , lectotype, selected by E. B. BASDEN, 1956, v. CAIN et al., 1952 [CAIN et al., 1952. Lectotype, by present designation]<br>[not in MLUH or ZMB]<br>[see comments on <i>D. ambigua</i> POMINI] |
| <i>meigeni</i> DUDA, 1935                     | —             |     | —            |   |
| <i>obscuroides</i> POMINI, 1940               | ?             |     | —            |   |
| <i>oldenbergi</i> DUDA, 1924                  | LT            | ♂   | DEI          | [ROHLFEN and EWALD, 1972, BÄCHLI, 1972, as holotype. Lectotype, by present designation]<br>[ROHLFEN and EWALD, 1972]  |
|   | PL            |     | DEI          | Mehadia, 13. 12 / <i>oldenbergi</i> , det. Dr. O. DUDA  |
|   | PL            | ♂   | ZMB          | <i>phalerata</i> , Coll. WINTH. / <i>phalerata</i> MEIGEN, det. Dr. O. DUDA / <i>phalerata</i> MG., det. BASDEN, '55 [Lectotype, by present designation]  |
|   | LT            | ♂   | NMW          | <i>phalerata</i> , Coll. WINTH. / <i>phalerata</i> MG., det. BASDEN, 1955   |
|   | PL            | ♀   | NMW          | <i>phalerata</i> , Coll. WINTH.   |
|   | PL            | ♂   | MNHN         | No. 2434  |
|   | HT            | ♂   | ZMC          | [FRYDENBERG, 1955]  |
|   | —             |     | —            | [not in IRSN]   |
| <i>picta</i> ZETTERSTEDT, 1847                | ST            |     | DEI          | [ROHLFEN and EWALD, 1972]   |
| <i>macularis</i> VILLENEUVE, 1921             | ST            | ♂   | ZMB          | Budapest, PÁVEL / <i>pleurofasciata</i> ♂, det. DUDA / Zeichn.  |
| <i>pleurofasciata</i> DUDA, 1924              | ST            | ♀   | ZMB          | Berlin Pichelsberg, 12. 3. 99 / <i>mesosternalis</i> , ♀, nec <i>funebris</i> , det. Dr. O. DUDA / <i>macularis</i> VILLENEUVE, ♀, d. DUDA.   |
| <i>polychaeta</i> PATTERSON and WHEELER, 1942 | ST            |     | AMNH         | Galveston, Texas  |
|   | ST            |     | DTRC         | Galveston, Texas  |
|   | —             |     | —            | [see comments on <i>D. afer</i> TAN, HSU and SHENG]   |
| <i>pulchrella</i> TAN, HSU and SHENG, 1949    | —             |     | —            | [see comments on <i>D. afer</i> TAN, HSU and SHENG]   |
| <i>pullata</i> TAN, HSU and SHENG, 1949       | —             |     | —            | [see comments on <i>D. afer</i> TAN, HSU and SHENG]   |
| <i>repleta</i> WOLLASTON, 1858                | LT            |     | BMNH         | [Coe, 1943]   |
|   | PL            |     | BMNH         | Funchal, Madeira  |
|   | ST            |     | MCZ          | <i>punctulata</i> / Cuba, Poey / MCZ No. 13422  |
|   | LT            | ♂   | NMW          | Aschanti (REITTER) / <i>Drosophila adspersa</i> MIK<br>[Lectotype, by present designation]  |
|   | PL            | ♂   | NMW          | Austr. inf., Wien, 30. 9. 86, MIK / <i>adspersa</i>   |
|   | PL            | ♂   | NMW          | Aschanti (REITTER) / <i>Drosophila adspersa</i> MIK   |
|   | LT            | ♂   | HNHM         | Costa Rica, Suiza de Turrialba, 29. VI. / <i>Drosophila pararepleta</i> ♀ n. sp. ?, det. Dr. O. DUDA / <i>prorepleta</i> ♀ type, det. DUDA<br>[Lectotype, by present designation]   |
|   | PL            | ♀   | HNHM         | Costa Rica, Suiza de Turrialba, 28. VI. / <i>pararepleta</i> ♀, det. Dr. O. DUDA  |
|   | HT            | ♂   | MZSP         | Mogi das Cruzes, São Paulo, IV. 943   |
|   | PT            |     | MZSP         | Mogi das Cruzes, São Paulo, IV. 943   |
|   | —             |     | —            | [see comments on <i>D. afer</i> TAN, HSU and SHENG]   |
|   | —             |     | —            | [see comments on <i>D. afer</i> TAN, HSU and SHENG]   |
| <i>repletoides</i> HSU, 1943                  | —             |     | —            | [not located]   |
| <i>tumiditarsus</i> TAN, HSU and SHENG, 1949  | —             |     | —            | Kōhō, Dec. '35 / M. HIRAGA  |
| <i>hayashii</i> OKADA, 1955                   | —             |     | —            | Kasan, 20. 6. 71 [Lectotype, by present designation]  |
| <i>rufa</i> KIKKAWA and PENG, 1938            | ST            |     | NSMT         | [not located]   |
| <i>rufifrons</i> LOEW, 1873                   | LT            | ♀   | ZMB          | Fenyöffö / holotype ♂, TSACAS, 1978<br>[Lectotype, by present designation]  |
|   | —             |     | —            | Fenyöffö, SCHMIDT / <i>Drosophila Schmidti</i> DUDA   |
|   | —             |     | —            | Lakeland, Fla.  |
|   | —             |     | —            | Sapporo, Sept.–Oct. '34 / S. MAKINO   |
|   | —             |     | —            | Ussuri-Geb., ŠTAKELBERG, 927 / 12 / <i>Drosophila Stackelbergi</i> DUDA, ♂, det. DUDA, Type   |
| <i>nilens</i> BUZZATI-TRAVERSO, 1943          | —             |     | —            |   |
| <i>scaptomyzoptera</i> DUDA, 1935             | —             |     | —            |   |
| <i>schmidtii</i> DUDA, 1924                   | LT            | ♂   | HNHM         |   |
|   | PL            | ♂   | HNHM         |   |
|   | PL            | ♂   | ZMB          |   |
|   | HT            | ♂   | AMNH         |   |
|   | ST            | ♂   | NSMT         |   |
|   | HT            | ♂   | ZMB          |   |
| <i>simulans</i> STURTEVANT, 1919              |               |     |              |   |
| <i>sordidula</i> KIKKAWA and PENG, 1938       |               |     |              |   |
| <i>stackelbergi</i> DUDA, 1935                |               |     |              |   |

Table 2 (Continued)

| Species  | Kind of types              | Sex                      | Deposited in                    | Details of labels and comments  |
|--|----------------------------|--------------------------|---------------------------------|---|
| <i>subobscura</i> COLLIN in GORDON, 1936                   | ST<br>ST<br>ST<br>ST<br>ST | ♂♂<br>♂♂<br>♂♂<br>♀<br>♀ | OUM<br>OUM<br>OUM<br>OUM<br>OUM | P. V. Kirtling, 11. 12. 98<br>Sevenoaks, 5. 7. 31<br>Bred Kew diseased Iris, X. 18<br>Bred Kew diseased Iris root, X. 18<br>Raylands, Newmarket, window, 3. 7. 31   |
| <i>subsilvestris</i> HARDY and KANESHIRO, 1968             | HT                         | ♀                        | BMNH                            | Lugton Bogs Wood, Dalkeith (Midlothian), at apple bait  |
| <i>silvestris</i> BASDEN, 1954                             | PT<br>PT                   | ♂♀<br>♂♀                 | BMNH<br>RSM                     | [different localities]<br>[different localities]  |
| <i>subtilis</i> KIKKAWA and PENG, 1938                     | ST                         |                          | NSMT                            | Kyoto, July '36 / H. KIKKAWA  |
| <i>suzukii</i> MATSUMURA, 1931<br>( <i>Leucophenga</i> )   | ST                         |                          | HU                              | Aomori, 11 X 1916, NISHIYA coll.  |
| <i>takahashii</i> STURTEVANT, 1927                         | HT<br>PT<br>LT<br>PL       |                          | AMNH<br>AMNH<br>SMN             | Taihoku, Formosa, March, 1924<br>Taihoku, Formosa, March, 1924  |
| <i>testacea</i> VON ROSER, 1840                            | PL                         | ♂                        | SMN                             | <i>testacea</i> m. / <i>Drosophila flava</i> FLL., det. BECKER / <i>testacea</i> v. ROSEN nec <i>flava</i> F., det. Dr. O. DUDA / Typus v. ROSEN / <i>Dros. testacea</i> v. Ros., syntype (top) and lectotype (v. Ros. Nos. 1, 2), selected by E. B. BASDEN, 1957 |
|  |                            | ♂♀                       |                                 | [Lectotype, by present designation]<br><i>Drosophila flava</i> FLL., det. BECKER / <i>Dr. testacea</i> v. ROSEN, det. Dr. O. DUDA / <i>Dros. testacea</i> , 3 syntypes (v. Ros. Nos. 3 (top), 4, 5), det. E. B. BASDEN, '57                                       |
| <i>nigrithorax</i> STROBL, 1894                            | —                          |                          | —                               | [BASDEN, 1961]  |
| <i>setosa</i> VILLENEUVE, 1921                             | —                          |                          | —                               | [not in IRSN]   |
| <i>transversa</i> FALLÉN, 1823                             | LT                         | ♂                        | RS                              | <i>Drosophila transversa</i> FLL., lectotype ♂, selected by E. B. BASDEN, 1956 / Right wing to slide, E. B. BASDEN '56  |
|  | PL                         | ♀                        | RS                              | [Lectotype, by present designation]   |
|  | PL                         | ♀                        | RS                              | <i>D. transversa</i> ♂ / <i>D. transversa</i> , syntype ♀, det. E. B. BASDEN '56  |
|  | PL                         | ♀                        | RS                              | <i>D. transversa</i> ♀ / <i>D. transversa</i> , syntype ♀, det. E. B. BASDEN '56  |
| <i>laeta</i> ZETTERSTEDT, 1847                             | PL<br>LT                   | ♀♀                       | ZIL                             | <i>D. transversa</i> , syntype ♀, det. BASDEN '56<br>var. b. <i>laeta</i> ♀, Paradislyckan / Lectotype of <i>Drosophila laeta</i> ZETT., selected by E. B. BASDEN, 1960   |
|  | PL                         | ♀                        | ZIL                             | [Lectotype, by present designation]   |
|  | —                          |                          | —                               | Ostrog, / Syntype of <i>Drosophila laeta</i> ZTT., selected by E. B. BASDEN, 1960   |
| <i>subquinaria</i> SPENCER, 1942                           | LT                         | ♂♂                       | ZIL                             | [WHEELER, 1960: Holotype lost]  |
| <i>tristis</i> FALLÉN, 1823                                | HT                         | ♂♂                       | ZMC                             | [CAIN et al., 1952, BASDEN 1958]  |
| <i>spurca</i> ZETTERSTEDT, 1847                            | LT                         | ♂♂                       | NM&A                            | [FRYDENBERG, 1955]  |
| <i>trinotipennis</i> STROBL, 1901                          | PL                         | ♂                        | NMA                             | [BASDEN, 1961]  |
| <i>trivittata</i> STROBL, 1893                             | —                          |                          | —                               | [BASDEN, 1961, as syntype]  |
|  | ST                         | ♂♀                       | ZIAL                            | [BASDEN, 1961]  |
|  | LT                         | ♂                        | ZMZ                             | Tigrovaja, Suchan ri., Uss. kr., 9. VI. 927, (STAKELBERG)   |
| <i>ussurica</i> DUDA, 1935                                 | PL                         | ♀                        | ZMZ                             | Oloron  |
| <i>tsigana</i> BURLA and GLOOR, 1952                       | LT                         | ♂                        | NMA                             | [Lectotype, by present designation]   |
|  | PL                         | ♀                        | DEI                             | Oloron  |
|  | LT                         | ♂♀                       | AMNH                            | [BASDEN, 1961]  |
| <i>unimaculata</i> STROBL, 1893                            | ST                         | ♂                        | AMNH                            | [ROHLFEN and EWALD, 1972]   |
| <i>unipectinata</i> DUDA, 1924                             | HT                         | ♂                        |                                 | New York, N.Y.  |
| <i>virilis</i> STURTEVANT, 1916                            | PT                         | ♂                        |                                 | New York, N.Y.  |
| <i>Gitona</i> MEIGEN, 1830                                 | LT                         | ♀                        | ZMB                             | Turkestan / <i>Gitona Beckeri</i> n. sp., det. Dr. O. DUDA  |
| <i>beckeri</i> DUDA, 1924                                  |                            |                          |                                 | [Lectotype, by present designation]   |
| <i>canariensis</i> DUDA, 1934                              | HT                         | ♂                        | ZMH                             | Las Palmas, Gran Canaria, R. FREY   |
| <i>distantia</i> BEZZI, 1924                               | HT                         | ♂♂                       | BMNH                            | Cyrpus, from figs   |
| <i>distigma</i> MEIGEN, 1830                               | LT                         | ♂♂                       | MNHN                            | [TSACAS and DESMIER DE CHENON, 1976]  |
|  | PL                         | ♂                        | NMW                             | Grenoble / <i>distigma</i> , coll. WINTH.   |
|  | PL                         | ♂                        | NMW                             | Anjou / <i>Gitona distigma</i> / <i>distigma</i> , coll. WINTH.   |
| <i>microchaeta</i> SÉGUY, 1941                             | PL                         | ♂♂                       | MNHN                            | <i>distigma</i> , Coll. WINTH.  |
|  | HT                         | ♂                        |                                 | Agadir  |
| <i>Hypselothyrea</i> DE MELIERE, 1906                      | —                          |                          | —                               | [not in HNHM]   |
| <i>breviscutellata</i> DUDA, 1928                          |                            |                          |                                 | [not located]   |
| <i>Leucophenga</i> MIX, 1886                               | HT                         | ♀                        | ZMA                             | Java, II. III. '06, Semarang, JACOBSON / <i>Drosophila guttiventris</i> , det. DE MELIERE, Type / 4545  |
| <i>beccula</i> BERGROTH, 1894 ( <i>Drosophila</i> )        | LT                         | ♀                        | DEI                             | [ROHLFEN and EWALD, 1972, as holotype. Lectotype, by present designation]   |
| <i>guttiventris</i> DE MELIERE, 1908 ( <i>Drosophila</i> ) | PL                         | ♂                        | DEI                             | [ROHLFEN and EWALD, 1972]   |
| <i>interrupta</i> DUDA, 1924                               |                            |                          |                                 |   |

Table 2 (Continued)

| Species  | Kind of types | Sex    | Deposited in | Details of labels and comments   |
|--|---------------|--------|--------------|--|
| <i>maculata</i> DUFOUR, 1839 ( <i>Drosophila</i> )           | —             |        | —            | [not in MNHN]  |
| <i>ornata</i> WHEELER, 1959                                  | HT            | ♂      | ZMA          | Java, 1911, Nongkodjadjar, JACOBSON / <i>Drosophila ornata</i> <i>pennisi</i> , det. DE MEIJERE, Type / 4585   |
| <i>ornatipennis</i> DE MEIJERE, 1914 ( <i>Drosophila</i> )   | LT            | ♀      | ZMA          | Java, II. III. '06, Semarang, JACOBSON / <i>Drosophila ornata</i> <i>pennisi</i> DE MEIJERE, Type / 4544   |
| <i>quadripunctata</i> DE MEIJERE, 1908 ( <i>Drosophila</i> ) | PL<br>PL      | ♂<br>♂ | ZMA<br>RNH   | [Lectotype, by present designation]<br>Java, II. III. '06, Semarang, JACOBSON / 4539<br>Java, I. '06, Semarang, JACOBSON / <i>Drosophila quadripunctata</i> DE MEIJERE det. / Museum Leiden / 4278                                       |
| <i>quinquemaculata</i> STROBL, 1893                          | —             |        | —            | [BASDEN, 1961]   |
| <i>marginalis</i> OLDENBERG, 1914 ( <i>Paraleucophenga</i> ) | HT            | ♂      | DEI          | Macugnaga, OLDENBERG, 25. 7. 00 / Type / Typus / coll. OLDENBERG / <i>Neoleucophenga 5maculata</i> STR. var. <i>marginalis</i> m., OLD., Type / <i>Leucophenga 5-maculata</i> STROBL nov. var. (BEZZI) / <i>Neoleucophenga</i> OLD./4303 |
| <i>stackelbergi</i> DUDA, 1934                               | HT            | ♀      | ZMB          | Pw Rjabokon, ju Chanka, Ussur. kr., ŠTAKELBERG, 16. VII. 927 / 604 / <i>Leucophenga Stackelbergi</i> n. sp., det. Dr. O. DUDA, Typus, ♀?   |
| <i>subpollinosa</i> DE MEIJERE, 1914 ( <i>Drosophila</i> )   | LT<br>PL      | ♀<br>♀ | ZMA<br>ZMA   | [BÄCHLI, 1971, as holotype. Lectotype, by present designation]<br>[BÄCHLI, 1971, as paratype]  |
| <i>Liodrosophila</i> DUDA, 1922                              |               |        |              |  |
| <i>nitida</i> DUDA, 1922                                     | LT            | ♀      | NMW          | FRUHSTORFER, Mittel-Annam / <i>Liodrosophila nitida</i> ♂, det. Dr. O. DUDA  |
|  | PL            | ♂♀     | NMW          | [Lectotype, by present designation]  |
|  | PL            | ♀      | DEI          | FRUHSTORFER, Mittel-Annam / <i>Liodrosophila nitida</i> , det. Dr. O. DUDA   |
|  | PL            | ♂♀     | ZMB          | [ROHLFIER and EWALD, 1972]<br>FRUHSTORFER, Mittel-Annam / <i>Liodrosophila nitida</i> , det. Dr. O. DUDA / Wien. M.  |
| <i>Microdrosophila</i> MALLOCH, 1921                         |               |        |              |  |
| <i>congesta</i> ZETTERSTEDT, 1847 ( <i>Drosophila</i> )      | LT            | ♂      | ZIL          | <i>D. congesta</i> ♂, Lärketorp / Lectotype of <i>Drosophila congesta</i> ZTT., selected by E. B. BASDEN, 1960   |
|  |               |        |              | [Lectotype, by present designation]  |
| <i>zetterstedti</i> WHEELER, 1959                            | LT            | ♂      | ZIL          | <i>D. nigriventris</i> ♂, Smol. / Lectotype of <i>Drosophila nigriventris</i> ZTT., selected by E. B. BASDEN, 1960   |
| <i>nigriventris</i> ZETTERSTEDT, 1847 ( <i>Drosophila</i> )  | PL            | ♀      | ZIL          | [Lectotype, by present designation]  |
|  |               |        |              | <i>D. nigriventris</i> ♀, Smol. / Syntype of <i>Drosophila nigriventris</i> ZTT., selected by E. B. BASDEN, 1960   |
| <i>Mycodrosophila</i> OLDENBERG, 1914                        |               |        |              |  |
| <i>gratiosa</i> DE MEIJERE, 1911 ( <i>Drosophila</i> )       | LT            |        | ZMA          | Java, Batavia, dec. 1908, type   |
|  | PL            |        | ZMA          | [Lectotype, by present designation]  |
|  | ST            | ♀      | BMNH         | Java, Batavia, dec. 1908   |
|  | ST            |        | ZMUC         | Mahé, Seychelles Exp., '08-9   |
|  | ST            |        | HNHM         | Mahé, Seychelles Exp., '08-9, paratype   |
|  | ST            | ♂      | ZMB          | Singapore, BIRÓ 1898   |
| <i>poecilogastra</i> LOEW, 1874 ( <i>Amiota</i> )            | —             |        | —            | Singapore, BIRÓ, 1898 / <i>Mycodrosophila Biroi</i> DUDA, ♂, det. Dr. O. DUDA  |
| <i>johni</i> POKORNY, 1896 ( <i>Drosophila</i> )             | HT            | ♀      | HNHM         | [not in ZMB]   |
|  |               |        |              | Slavon., JOHN / <i>Drosophila Johni</i> POK. / Type  |
| <i>Scaptomyza</i> HARDY, 1849                                |               |        |              |  |
| <i>flava</i> FALLÉN, 1823 ( <i>Drosophila</i> )              | LT<br>PL      | ♀      | ZIL<br>ZIL   | [LAŠTOVKA and MÁČA, 1978, now destroyed]   |
|  | —             |        | —            | [LAŠTOVKA and MÁČA, 1978]  |
|  |               |        |              | [not in MNHN or NMW]   |
| <i>flaveola</i> MEIGEN, 1830 ( <i>Notiphila</i> )            | —             |        | —            | [BASDEN, 1962]   |
| <i>apicalis</i> HARDY, 1849                                  | HT            | ♂      | DTRC         | No. 1763.9   |
| <i>montana</i> WHEELER, 1949                                 | LT            | ♀      | RS           | <i>D. graminum</i> ♂ / Lectotype in accord. with HARDY, 1849 / <i>Scapt. graminum</i> (FLN.), ♀, det. BASDEN, 1956, lectotype of <i>Drosophila graminum</i> FLN.   |
| <i>graminum</i> FALLÉN, 1823 ( <i>Drosophila</i> )           | PL            | ♀      | RS           | [Lectotype, by present designation]<br><i>Drosophila graminum</i> ♀ / <i>Drosophila graminum</i> FLN., syntype, det. BASDEN, 1956 / <i>Scaptomyza graminum</i> (FLN.), det. BASDEN, 1956   |
| <i>incana</i> MEIGEN, 1830 ( <i>Drosophila</i> )             | LT            | ♂      | NMW          | <i>incana</i> , Coll. WINTH. / <i>incana</i> / <i>tetraasticha</i> , det. Dr. O. DUDA / <i>Scap. graminum</i> (FLN.), det. BASDEN, 1955  |
|  |               |        |              | [Lectotype, by present designation]  |

Table 2 (Continued)

| Species   | Kind of types | Sex           | Deposited in | Details of labels and comments   |
|---|---------------|---------------|--------------|--|
| <i>rufipes</i> MEIGEN, 1830<br>( <i>Drosophila</i> )          | LT            | ♂             | MNHN         | No. 2462<br>[Lectotype, by present designation]  |
|   | PL            | ♀             | NMW          | <i>rufipes</i> , Coll. WINTH. / <i>rufipes</i> / <i>tetraستica</i> BECK., det. Dr. O. DUDA / <i>Scap. graminum</i> (FLN.), det. BASDEN, 1955           |
| <i>amoena</i> MEIGEN, 1838<br>( <i>Hydrellia</i> )            | LT            | ♂             | MNHN         | No. 2444<br>[Lectotype, by present designation]  |
|   | LT            | ♂             | ZIL          | <i>D. flavipennis</i> ♂, Wilhelm. / <i>D. Graminum</i> var. c, ZETT. / Lectotype of <i>Drosophila flavipennis</i> ZTT., selected by E. B. BASDEN, 1960 |
| <i>flavipennis</i> ZETTERSTEDT,<br>1838 ( <i>Drosophila</i> ) | PL            | ♀             | ZIL          | <i>D. flavipennis</i> ♂, Wilh. / Syntype of <i>Drosophila flavipennis</i> ZTT., selected by E. B. BASDEN, 1960   |
|   | PL            | ♀             | ZIL          | <i>D. sordida</i> ♂, Wilhelmina / <i>D. Graminum</i> var. b, ZETT. / Lectotype of <i>Drosophila sordida</i> ZETT., selected by E. B. BASDEN, 1960      |
| <i>sordida</i> ZETTERSTEDT, 1838<br>( <i>Drosophila</i> )     | LT            | ♂             | ZIL          | [Lectotype, by present designation]  |
|   | PL            | ♀             | ZIL          | <i>D. sordida</i> ♀, Dowre, Boh. / Syntype of <i>Drosophila sordida</i> ZTT., selected by E. B. BASDEN, 1960   |
| <i>tetraستica</i> BECKER, 1908                                | ST            |               | ZMB          | Teneriffe, XII, 46734  |
|   | ST            |               | ZMB          | Peist, 26. 9., 21419   |
|   | ST            |               | ZMB          | Moisdorf, 9., 33338  |
|   | ST            |               | ZMB          | Oderwald, 14. 5., 30834  |
|   | ST            |               | ZMB          | Charlottenbrunn, 8. 7., 32271  |
|   | ST            |               | ZMB          | Oderwald, 2. 7., 31976   |
|   | ST            |               | ZMB          | Moisdorf, 9. 10., 33485  |
|   | ST            |               | ZMB          | Fürstenstein, 5., 31229  |
|   | ST            |               | ZMB          | Liegnitz, 8., 33024  |
|   | ST            |               | ZMB          | Hummel, 2. 10., 29902  |
|   | HT            | ♀             | ZIAL         | Jakovlevka, Spass. u., Uss. kr., 30. VI. 927, N 612, (ŠTAKELBERG)  |
|   | HT            | ♂             | DTRC         | Ossipee, New Hampshire, Aug. 4, 1950, A. H. STURTEVANT   |
| <i>semiricornis</i> DUDA, 1935<br>( <i>Drosophila</i> )       | —             | —             | —            | [not located]  |
|   | borealis      | WHEELER, 1952 | —            | —  |
| <i>griseola</i> ZETTERSTEDT, 1847<br>( <i>Drosophila</i> )    | ST            | ♂             | ZMB          | 2. 4. 16 / Sinsen, Westf., DUDA / <i>S. grisescens</i> D., ♂   |
|   | ST            | ♂             | ZMB          | 29. 3. 08 / Nimptsch, Schls., DUDA / <i>gracilis</i> WALK., ♂ / <i>S. grisescens</i> D., ♂   |
| <i>grisescens</i> DUDA, 1921<br>( <i>Drosophila</i> )         | ST            | ♂♀            | ZMB          | Ilfeld, S.-Harz, DUDA / <i>S. grisescens</i> D.<br>[different collection dates]  |
|   | ST            | ♂             | ZMB          | 1. 6. 20 / St. Wendel, Rheinl., DUDA / <i>gracilis</i> WALK., ♂, det. Dr. O. DUDA / <i>S. grisescens</i> D., ♂   |
| <i>impunctata</i> FREY, 1945<br>( <i>Scaptomyzella</i> )      | LT            | ♂             | ZMH          | Azores: S. Miguel: Lagoa do Congro, Type / Nr. 8293  |
|   | PL            |               | ZMH          | [Lectotype, by present designation]  |
| <i>pallida</i> ZETTERSTEDT, 1847<br>( <i>Drosophila</i> )     | PL            |               | ZMH          | Azores: S. Miguel  |
|   | PL            |               | ZMH          | Azores: S. Jorge   |
| <i>disticha</i> DUDA, 1921<br>( <i>Drosophila</i> )           | LT            |               | ZIL          | <i>D. pallida</i> Z., <i>graminum</i> FALL. var d, ♂, Esp. / Lectotype of <i>Drosophila pallida</i> ZTT., selected by E. B. BASDEN, 1960               |
|   | PL            |               | ZIL          | [Lectotype, by present designation]  |
| <i>disticha</i> DUDA, 1921<br>( <i>Drosophila</i> )           | LT            | ♂             | ZMB          | Syntype of <i>Drosophila pallida</i> ZTT., selected by E. B. BASDEN, 1960  |
|   | PL            | ♀             | ZMB          | 22. 9. 19 / St. Wendel, Rheinl., DUDA / <i>disticha</i> D., ♂ [Lectotype, by present designation]  |
| <i>disticha</i> DUDA, 1921<br>( <i>Drosophila</i> )           | PL            | ♂♀            | ZMB          | 18. 3. 21 / Wüstung b. Habelschwerdt, 1. DUDA / <i>disticha</i> D., ♀  |
|   | PL            | ♂♀            | ZMB          | Nimptsch, Schls., DUDA<br>[different collection dates]   |
| <i>disticha</i> DUDA, 1921<br>( <i>Drosophila</i> )           | PL            | ♂♂            | ZMB          | 1. 6. 12 / Ilfeld, S. Harz, DUDA / <i>disticha</i> D., ♂   |
|   | PL            | ♂♂            | ZMB          | 14. 7. 12 / Strachau b. Nimptsch / <i>P. disticha</i> DUDA, ♂, d. DUDA   |
| <i>subsplendens</i> DUDA, 1935<br>( <i>Drosophila</i> )       | PL            | ♀♀            | ZMB          | 8. 10. 12 / Pangelberg bei Nimptsch / <i>disticha</i> D., ♀  |
|   | PL            | ♀♀            | ZMB          | 10. 6. 20 / St. Wendel, Rheinl., DUDA / <i>disticha</i> D., ♀  |
| <i>trochanterata</i> COLLIN, 1953                             | PL            | ♀♀            | ZMB          | 22. 7. 12 / Kl. Ellguth bei Nimptsch / <i>disticha</i> D., ♀   |
|   | HT            | ♂             | ZIL          | 21. 8. 13 / Guhlau b. Nimptsch / <i>disticha</i> D., ♀   |
| <i>unipunctum</i> ZETTERSTEDT, 1847<br>( <i>Geomyza</i> )     | ST            | ♂♂            | OUM          | 6. 10. 06 / Wölfelsgrund / <i>disticha</i> D., ♀   |
|   | ST            | ♂♂            | OUM          | Jakovlevka, Spass. u., Uss. kr., 30. VI. 927, N 611, (ŠTAKELBERG)  |
|   | ST            | ♂             | ZIL          | Kinrara, 9. 7. 36  |
|   |               |               |              | Nairn, 25. 5. 04, Col. Y.  |
|   |               |               |              | Arbrå  |

Table 2 (Continued)

| Species  | Kind of types                                | Sex                                  | Deposited in   | Details of labels and comments   |
|--|--|--------------------------------------|--|--|
| <i>Soederbomia</i> HENDEL, 1938<br><i>flava</i> HENDEL, 1938   | HT   | ♀                                    | RS   | S. W. Mongolei / 5. Juli, leg. SÖDERBOM / Sven Hedin Exp. Centr. Asien / <i>Soederbomia flava</i> HEND., det. HENDEL   |
| <i>Stegana</i> MEIGEN, 1830<br><i>coleopterata</i> SCOPOLI, 1763<br>( <i>Musca</i> )<br><i>hypoleuca</i> MEIGEN, 1830  | —  | —                                    | —  | [not located]  |
| <i>annulata</i> HALDIAY, 1833<br><i>nigrithorax</i> STROBL, 1898   | ST<br>LT<br>PL<br>LT                         | ♀<br>♂<br>♂<br>♂                     | ZMC<br>NMW<br>NMA<br>ZMU                             | <i>S. hypoleuca</i> MEIG. / Sielland / July 1824 / ♀ / Mus. Western, WINTH., Copenhagen<br>[not in NMW]<br>[BASDEN, 1961]<br>[BASDEN, 1961, as syntype]<br><i>furta</i><br>[Lectotype, by present designation]   |
| <i>furta</i> LINNÉ, 1766 ( <i>Musca</i> )  | PL<br>LT                                     | —<br>♂                               | ZMU<br>RS  | <i>furta</i><br><i>Drosophila curvipennis</i> FLN. ♂, lectotype selected by E. B. BASDEN, 1955 / <i>Protostegana furta</i> (L.) ♂, det. BASDEN, 1960   |
| <i>curvipennis</i> FÄLLÉN, 1823<br>( <i>Drosophila</i> )   | PL   | ♀                                    | RS   | [Lectotype, by present designation]<br><i>Drosophila curvipennis</i> ♂ / <i>Drosophila curvipennis</i> FLN., ♀ syntype, det. BASDEN, '55 / <i>Protostegana furta</i> (L.), ♀, det. BASDEN, 1960  |
| <i>nigra</i> MEIGEN, 1830  | ST<br>ST                                     | ♀<br>♂                               | MNHN<br>NMW  | <i>D. curvipennis</i> ♀ / <i>Drosophila curvipennis</i> FLN., ♀ syntype, det. BASDEN, '55 / <i>Protostegana furta</i> (L.), ♀, det. BASDEN, 1960   |
| <i>mehadiae</i> DUDA, 1924   | HT   | ♀                                    | HNHM   | No. 2452<br>Kiel, coll. WINTH. / <i>pulicaria</i> , det. WIED. / <i>pulicaria</i> WIED., Kiel / <i>nigra</i> / <i>Protostegana curvipennis</i> (FLN.), E. B. BASDEN, 1955  |
| <i>nigrifrons</i> DE MEIJERE, 1911   | LT   | —                                    | ZMA  | Mehádia, KERTÉSZ, 1904 VI. 11 / <i>Stegana Mehadiae</i> n. var. D., DUDA / Typus Batavia, Java, Aug. 1908, Type  |
| <i>nigripennis</i> HENDEL, 1914<br>( <i>Orthostegana</i> )<br><i>poeциloptera</i> DUDA, 1926<br>( <i>Chaetocnema</i> ) | ST<br>ST<br>ST<br>ST<br>ST<br>ST<br>ST<br>ST | ♂<br>♂<br>♂<br>♂<br>♂<br>♂<br>♂<br>♂ | DEI<br>ZMB<br>ZMB<br>ZMB<br>ZMB<br>ZMB<br>ZMB<br>ZMB | [RÖHLICH and EWALD, 1972]<br>Formosa, SAUTER / Kosempo, 908. VI / <i>Oxyph. poeciloptera</i> , ♂, det. Dr. O. DUDA<br>Formosa, SAUTER / Kosempo, 908. VI / <i>Oxyphortica poeciloptera</i> , det. Dr. O. DUDA / Ung. Nat. Mus.<br>Formosa, SAUTER / Koshun, 909. III / <i>O. poeciloptera</i> , ♂, det. Dr. O. DUDA<br>Formosa, SAUTER / Tapani, 1911. III / <i>Oxyphortica poeciloptera</i> , ♀, det. Dr. O. DUDA<br>Formosa, Toyemongai / <i>Oxyphortica poeciloptera</i> , ♀, det. Dr. O. DUDA<br>[not located] |
| <i>sibirica</i> DUDA, 1934<br>( <i>Protostegana</i> )<br><i>stroblii</i> MIK, 1898                                     | LT   | ♀                                    | NMA  | [BASDEN, 1961]   |
| Species <i>incertae</i>  | —  | —                                    | —  | [not in NMW]   |
| <i>aceti</i> KOLLAR in HEEGER, 1851<br>( <i>Drosophila</i> )   | —  | —                                    | —  | [not in MNHN or MHNL]  |
| <i>analis</i> MACQUART, 1843 ( <i>Drosophila</i> )   | —  | —                                    | —  | [not located]  |
| <i>balteata</i> BERGROTH, 1894 ( <i>Drosophila</i> )   | —  | —                                    | —  | [not located]  |
| <i>cellaris</i> LINNÉ, 1758 ( <i>Musca</i> )   | —  | —                                    | —  | [not located]  |
| <i>cellaris</i> OKEN, 1815 ( <i>Mosillus</i> )   | —  | —                                    | —  | [not located]  |
| <i>cellarum</i> ROBINEAU-DESVOIDY, 1830 ( <i>Bachis</i> )  | —  | —                                    | —  | [not located]  |
| <i>chopardi</i> SÉGUY, 1936<br>( <i>Scaptomyza</i> )   | HT   | ♂                                    | MNHN   | San Miguel: Furnas   |
| <i>cinerella</i> FÄLLÉN, 1823 ( <i>Drosophila</i> )  | LT   | ♀                                    | ZIL  | <i>D. cinarella</i> ♀, e museo FÄLLÉN<br>[Lectotype, by present designation]   |
| <i>claripennis</i> MACQUART, 1835<br>( <i>Diastata</i> )   | ST   | —                                    | MNHN   | [no number]  |
| <i>emulata</i> RAY-CHAUDHURI and MUKHERJEE, 1941<br>( <i>Drosophila</i> )  | —  | —                                    | —  | [not located]  |
| <i>erythrophthalma</i> PANZER, 1794<br>( <i>Musca</i> )  | —  | —                                    | —  | [not located]  |
| <i>flavipennis</i> MEIGEN, 1830<br>( <i>Opomyza</i> )  | —  | —                                    | —  | [not in MNHN or NMW]   |
| <i>gracilis</i> WALKER, 1853 ( <i>Drosophila</i> )   | —  | —                                    | —  | [not in BMNH]  |
| <i>gracilis</i> FREY, 1945 ( <i>Scaptomyza</i> )   | HT   | ♀                                    | ZMH  | Azores: Terceira, Fonduros, 10. VI.  |

Table 2 (Continued)

| Species   | Kind of types | Sex | Deposited in | Details of labels and comments   |
|---|---------------|-----|--------------|--|
| <i>imparata</i> WALKER, 1859 ( <i>Drosophila</i> )            | —             |     | —            | [not in BMNH]  |
| <i>ingrata</i> HALIDAY, 1833 ( <i>Drosophila</i> )            | HT            |     | NMI          | Holywood / HALIDAY, 20. 2. '82 / Type / <i>ingrata</i> / Named by J. E. COLLIN [not in HU]   |
| <i>japonica</i> MATSUMURA, 1931 ( <i>Drosophila</i> )         | —             |     | —            | [not located]  |
| <i>lacteoguttata</i> PORTSCHINSKY, 1892 ( <i>Drosophila</i> ) | —             |     | —            | [not located]  |
| <i>litorella</i> MEIGEN, 1838 ( <i>Hydrellia</i> )            | —             |     | —            | [not in HNHM or ZMA or RNH]  |
| <i>maculiventris</i> VAN DER WULP, 1897 ( <i>Drosophila</i> ) | —             |     | —            | [not in HNHM or ZMA or RNH]  |
| <i>marmorata</i> HUTTON, 1901 ( <i>Drosophila</i> )           | HT            | ♀   | CMNZ         | Auckland, H. SUTER   |
| <i>macquarti</i> WHEELER, 1981                                |               |     |              |  |
| <i>melanogaster</i> MACQUART, 1843 ( <i>Drosophila</i> )      | —             |     | —            | [not in MNHN or MHNL]  |
| <i>mycethophila</i> GOUREAU, 1865 ( <i>Drosophila</i> )       | —             |     | —            | [not located]  |
| <i>nigriceps</i> MEIGEN, 1838 ( <i>Drosophila</i> )           | —             |     | —            | [not in MNHN or NMW]   |
| <i>nigrimana</i> MEIGEN, 1830 ( <i>Drosophila</i> )           | —             |     | —            | [not in MNHN or NMW]   |
| <i>nigrita</i> CURTIS, 1833 ( <i>Drosophila</i> )             | —             |     | —            | [not located]  |
| <i>nigropunctata</i> VAN DER WULP, 1892 ( <i>Drosophila</i> ) | —             |     | —            | [not in RNH or ZMA]  |
| <i>nitidipennis</i> BIGOT, 1891 ( <i>Drosophila</i> )         | HT            | ♀   | OUM          | Canaria / Type DIP: 468  |
| <i>nitidiventris</i> MACQUART, 1835 ( <i>Drosophila</i> )     | —             |     | —            | [not in MNHN or MHNL]  |
| <i>oenopota</i> SCOPOLI, 1763 ( <i>Musca</i> )                | —             |     | —            | [not located]  |
| <i>pallipes</i> DUFOUR, 1846 ( <i>Drosophila</i> )            | —             |     | —            | [not in MNHN]  |
| <i>perrisi</i> WHEELER and HAMILTON, 1972                     |               |     |              |  |
| <i>fasciata</i> PERRIS in DUFOUR, 1839 ( <i>Drosophila</i> )  | —             |     | —            | [not located]  |
| <i>pruinosa</i> BIGOT, 1888 ( <i>Gitona</i> )                 | —             |     | —            | [not in OUM]   |
| <i>reaumurii</i> DUFOUR, 1845 ( <i>Drosophila</i> )           | —             |     | —            | [not located]  |
| <i>ruficeps</i> VON ROSER, 1840 ( <i>Drosophila</i> )         | LT            |     | SMN          | <i>Scaptomyza rufipes</i> MEIG. v. ROSER / <i>appendiculata</i> , <i>ruficeps</i> / <i>Scapt. flava</i> FN., det. Dr. O. DUDA [ <u>Lectotype, by present designation</u> ]     |
| <i>ruficornis</i> MEIGEN, 1838 ( <i>Hydrellia</i> )           | —             |     | —            | [not in MNHN]  |
| <i>testaceens</i> WHEELER, 1981                               |               |     |              |  |
| <i>testacea</i> GOUREAU, 1865 ( <i>Drosophila</i> )           | —             |     | —            | [not located]  |
| <i>variopicta</i> BECKER, 1908 ( <i>Drosophila</i> )          | ST            | ♀   | ZMB          | Teneriffe, XII, 46599 / ♀, <i>variopicta</i> B., = <i>fene-</i><br><i>strarum</i> FALL.<br>Laguna, IV, 47615 / ♀, <i>variopicta</i> BECK., = <i>fe-</i><br><i>nestrarum</i> F. |
| <i>varipes</i> MACQUART, 1835 ( <i>Drosophila</i> )           | ST            | ♀   | ZMB          | Laguna, IV, 47615 / <i>fenestrarum</i><br>FALL., det. Dr. O. DUDA<br>[not in MNHN or MHNL]   |

### Summary

The type material of all Palearctic species of Drosophilidae described before 1956, the places where it is kept and its labelling are listed. Lectotypes are established as far as that is appropriate.

### Zusammenfassung

Für alle vor 1956 beschriebenen paläearktischen Drosophilidae-Arten ist das Typenmaterial, sein Aufbewahrungsort und seine Bezeichnung aufgelistet. Lectotypen sind festgelegt, soweit das zweckmäßig ist.

### Резюме

Для всех описанных до 1956 г. палеарктических видов Drosophilidae был составлен перечень с указанием типов, места их хранения и данных этикеток. В случае целесообразности были установлены лектотипы.

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 Biometrische Studie zur Unterscheidung von *Drosophila (Hirtodrosophila) oldenbergi* DUDA und *D. (H.) lundstroemi* DUDA (Diptera, Drosophilidae). Mitt. schweiz. ent. Ges. 45, 43–48; 1972.

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## Besprechungen

Dierl, W. Schmetterlinge. Unsere Tag- und Nachtfalter nach Farbfotos bestimmen. BLV Naturführer 120. BLV Verlagsgesellschaft, München-Wien-Zürich. 1981; 11,7 × 17,9 cm; 127 S., 149 Farabb. Preis 9,80 DM.

An Hand der technisch hervorragenden Farbphotos, die nicht nur ästhetisch ansprechen, sondern auch die Mannigfaltigkeit in Farbe und Form unserer heimischen Schmetterlinge darstellen sollen, werden dem Leser Kenntnisse über die Namen und die Lebensweise dieser Tiere vermittelt. Die Auswahl umfaßt häufige und leicht kenntliche Arten der wichtigsten Familien, dabei auch einige markante Vertreter der sogenannten Kleinschmetterlinge. In der Einleitung findet der Benutzer, der im Sinne eines Naturführers sehen und verstehen will, auch die notwendigen Informationen über Körperbau und Entwicklung der Schmetterlinge.

PETERSEN

Forster, W. & Wohlfahrt, Th. A. Die Schmetterlinge Mitteleuropas. Band V: Spanner (Geometridae). FRANCK'sche Verlagshandlung, Stuttgart. 1981; 19 × 26,4 cm; X + 312 S., 265 Abb., 893 Farabb. auf 26 Taf. Preis 198,00 DM.

Mit vorliegendem Band ist die Bearbeitung der mitteleuropäischen „Großschmetterlinge“ abgeschlossen. Der Aufbau und die Darstellung der einzelnen Taxa wurde schon bei der Besprechung der einzelnen Lieferungen beschrieben. Hervorzuheben ist, daß bei allen Taxa, deren Bestimmung allein nach der Flügelzeichnung Schwierigkeiten bereitet, Zeichnungen des Genitalapparates angeführt werden, so daß in Kombinationen mit den Farbtafeln eine Determination möglich wird. Für das behandelte Gebiet sind 528 Arten nachgewiesen. Ergänzungen und Berichtigungen sowie ein Register der behandelten Taxa beschließen den Textteil des Bandes, dem sich die 26 Tafeln mit den Farbabbildungen der Falter anschließen. Der vorliegende Band wird zusammen mit den vier anderen zur Standardliteratur der Entomologen gehören.

GAEDIKE

Wetzel, Th. Pflanzenschädlinge. Bekämpfung — Probleme — Lösungen. URANIA-Verlag Leipzig, Jena, Berlin. 1981; 12,2 × 20,2 cm; 147 S., 46 Abb. (31 im Text und 15 auf Tafeln). Preis 4,00 M.

Das in dritter Auflage vorliegende Heft der Schriftenreihe „Wir und die Natur“ vermittelt dem interessierten Leser einen Einblick in Probleme, deren Bedeutung für die menschliche Gesellschaft schneller wächst als das trotz verantwortungsbewußter Darstellungen in den Medien von der großen Mehrheit der Bevölkerung wahrgenommen und verstanden wird. So ist das Bemühen ein Gebot der Stunde, breite Kreise der Öffentlichkeit über Schädlinge, deren Aussehen, Lebensweise, Massenwechsel, die Ertragsverluste und deren mögliches Vermeiden durch die verschiedenen Methoden der Schädlingsbekämpfung zu informieren. Der Illustriert geschriebene Text erfüllt diese Forderung unter Wahrung sowohl der Wissenschaftlichkeit und Aktualität der Aussage als auch der Allgemeinverständlichkeit.

PETERSEN

JUN. 27 1983

**Heie, O. E.** The Aphidoidea (Hemiptera) of Fennoscandia and Denmark. I. General Part. The Families Mindaridae, Hormaphididae, Thelaxidae, Anoecidae, and Pemphigidae. Fauna Entomologica Scandinavica Volume 9. SCANDINAVIAN SCIENCE PRESS Ltd., Klampenborg. 1980; 15 × 21,2 cm; 236 + 2 S., 247 Abb. im Text und 16 Abb. auf 2 Farbtafeln. Preis 160,00 DKK.

Der neunte Band dieser bewährten Publikationsreihe umfaßt den allgemeinen Teil mit ausführlichen Hinweisen zur Klassifikation, Morphologie, Bionomie, Ökologie und Zoogeographie. Es folgt ein Bestimmungsschlüssel der Familien, Unterfamilien und Triben. Im speziellen Teil werden die Familien Mindaridae, Hormaphididae, Thelaxidae, Anoecidae und Pemphigidae behandelt, jeweils wiederum mit illustrierten Bestimmungstabellen und weiteren Habitus- oder Detailzeichnungen im Text zu den einzelnen Arten, der außer den Beschreibungen Angaben zur Biologie und zur Gesamtverbreitung enthält. Am Ende findet sich neben dem Literaturverzeichnis und dem Index der wissenschaftlichen Namen eine übersichtliche Tabelle mit Informationen über den faunistischen Nachweis der behandelten Arten in Dänemark, Schweden, Norwegen und Finnland sowie teilweise auch aus der Sowjetunion, unterteilt nach den Verwaltungsbezirken, die praktischerweise am Anfang wie auch am Ende des Buches in einer Kartenskizze dargestellt und erläutert werden.

PETERSEN

**Ectoparasites of Hawaiian Rodents. (Siphonaptera, Anoplura and Acari).** TENORIO, I. M. & GOFF, M. L. Bishop Museum Special Publication. BISHOP MUSEUM Press, Honolulu, Hawaii. 1980; 15,3 × 23 cm; 32 S., 19 Abb. Preis 4,00 U.S. \$.

Die Publikation vermittelt eine Übersicht der Ektoparasiten der Nagetiere von Hawaii einschließlich der Wirte und der Verbreitung. Vereinfachte illustrierte Bestimmungsschlüssele mit Schwarzweißzeichnungen und Mikrophotographien erfassen sechs Siphonaptera-Arten, zwei Läuse saugende Anoplura und 14 ektoparasitische Acari. Neue Wissenskenntnisse und geographische Einzelheiten in bezug auf die verschiedenen Hawaii-Inseln werden mitgeteilt, darunter ein Erstbericht über Nagetier-Ektoparasiten von der Kaha'olawe Insel.

MORGE

**Adult and Immature Tabanidae (Diptera) of California.** MIDDLEKAUF, W. W. & LANE, R. S. Bulletin of the California Insect Survey, Vol. 22. UNIVERSITY OF CALIFORNIA PRESS, Berkely—Los Angeles—London. 1980; 21,5 × 28 cm; 99 S., 133 Abb. Preis 10,50 U.S. \$.

Von der systematischen Behandlung der in Kalifornien festgestellten Tabanidae werden in einem Einführungskapitel Imagines und frühe Entwicklungsstadien beschrieben und für beide Bestimmungsschlüssele bis zu den Gattungen gegeben. Der spezielle Teil beinhaltet die Artenschlüssel und für jede behandelte Spezies eine sehr umfassende, alle taxonomischen, biologischen und geographischen Details berücksichtigende Beschreibung, ergänzt durch übersichtliche Verbreitungskarten und morphologische wie sonstige Unterscheidungsmerkmale erläuternde Zeichnungen und Abbildungen. Ein sorgfältiges Literaturverzeichnis und ein Arten-Index beschließen die ausgezeichnete Revision.

MORGE

**Alpin-Biologische Studien (geleitet von Heinz Janetschek) XVI. Ökologische Untersuchungen an Wirbellosen des zentral-alpinen Hochgebirges (Obergurgl, Tirol) (herausgegeben von HEINZ JANETSCHEK).**

VII. STOCKNER, J.: Flugaktivität und Flugrhythmisik von Insekten oberhalb der Waldgrenze.

Veröffentlichungen der Universität Innsbruck 134. 1982; 16 × 23,4 cm; 104 S., 2 Farbbilder, 22 Abb. Preis 320,00 ö.S.

Auf drei Standorten wurden bei einer Fangdauer von insgesamt 1206 Stunden an einem nordwest-exponierten Hang im Raum Obergurgl 53337 Fluginsekten gefangen. An allen drei Stellen erreichten die Dipteren mit 91 bis 97,7% den größten Anteil. Sie verteilen sich auf 53 Familien, von denen aber nur 14 einer Artbestimmung unterlagen, die 251 Spezies umfaßten, davon zehn neue Arten. Ein ausführlicheres Kapitel „Phänologie“ bietet diesbezügliche Einzelheiten zu den verschiedenen Dipteren-Familien, die danach auch in einen Artenkatalog zusammengestellt sind. Weitere Abschnitte behandeln Tagesaktivität, Flugaktivität und Witterung und einen „Vergleich mit den Ergebnissen aus den absoluten Fangmethoden“.

MORGE

**Pest Control in Museums: A Status Report (1980).** Zusammengestellt und herausgegeben von: EDWARDS, ST. R.; BELL, B. M. & KING, M. E. THE ASSOCIATION OF SYSTEMATICS COLLECTIONS. (U.S.A.). 1981; 17,8 × 25,3 cm; vii + 208 S., 30 Abb. Preis 15,00 U.S. \$.

In einem Band werden alle Aspekte der Schädlingsüberwachung und -bekämpfung in Museumssammlungen und Bibliotheken dargelegt: Einzelheiten der Verfahren für den Pestizid-Gebrauch — Illustrierte Bestimmungsführer der häufigeren InsektenSchädlinge mit einer Übersicht der allgemeinen Museumsschädlinge — Zusammenstellung der Schädlingsbekämpfungsverfahren in Museen — Diskussion der institutionellen Verpflichtung zum Pestizid-Gebrauch — Mit Kommentaren ergänzte Übersicht der Regelungen und Anordnungen, die den Pestizid-Gebrauch lenken. — Eine ausführliche Bibliographie über die einschlägige Spezialliteratur ergänzt das Werk, dessen Entstehung auf das Projekt „Protection of Museum Collections from Organic Destruction“ und einer interdisziplinären Konferenz zurückgeht, die sich mit Schädlingen und der Pestizid-Anwendung in Museen beschäftigte. Der Inhalt des Buches ist für alle Verantwortlichen für die Erhaltung von naturwissenschaftlichen, künstlerischen, historischen und anthropologischen Objekten sowie für Bibliotheken von Interesse.

MORGE

**The Genetics and Biology of Drosophila.** Volume 3a. Herausgegeben von ASHBURNER, M.; CARSON, H. L. & THOMPSON JR., J. N. ACADEMIC PRESS, London—New York—San Francisco, Toronto, Sydney. 1981; 16 × 23,5 cm; xvi + 499 S., 48 Abb. Preis 82,00 U.S. \$.

Namhafte Spezialisten präsentieren ein grundlegendes Werk über die Drosophilidae mit einer umfassenden Erörterung aller wesentlichen Aspekte. Die Erarbeitung ist so gründlich, so aktuell, daß jede zukünftige Untersuchung der Familie auf diesen Band aufbauen muß. — Nach einem taxonomischen Überblick über die Drosophilidae folgt vom gleichen Autor M. R. WHEELER eine geographische Übersicht über die Arten der Nearktischen Region. VAL, VILELA und MARQUES reviarden die neotropischen Spezies, BÄCHLI und PITÉ die palaearktischen, TSACAS, LACHAISE und DAVID die afrotropischen, OKADA die Arten der orientalischen Region und von Neu Guinea, BOCH und PARSONS bearbeiteten die Drosophilidae Australiens und Neuseelands, D. E. HARDY und KANESHIRO die Arten der Inseln des Stillen Ozeans. Vor drei ausführlichen Indices beinhalten zwei Kapitel „Domestizierte und weit verbreitete Arten“ (PARSONS und STANLEY) und „Entomophage und andere bizarre Drosophilidae“ (ASHBURNER). — Das Werk verdient unbedingte Beachtung.

MORGE