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A world check-list of Nephrotoma Meigen, 1803

(Diptera, Tipulidae)

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Abstract

A list is provided of the species, subspecies and synonyms of the tipulid genus Nephrotoma Meigen, 1803. The distribution of each species is given in subregional quotations.

Introduction

In order to start a revision of the West-palaeartic species of Nephrotoma Meigen, 1803, an up to date check-list of the world was compiled, based on approximately the entire literature on the subject, in particular the complete work of Alexander, Savtchenko after his 1965 revision of the palaeartic species (published 1973), Mannheims and Theowald.

The genus contains by now 400 species and 33 subspecies, the rank of several species and subspecies still being in discussion.

The distribution of each of these 433 taxa is summarized according to data from cited literature, from the collection of the Zoological Museum Amsterdam and from unpublished notes of Mannheims and Theowald. A compilation of the world distribution is given in table 1.

We wish to thank Dr. Charles P. Alexander (Amherst, Massachusetts) and Dr. Br. Theowald (Amsterdam) for their valuable information and suggestions.

Check-list

The names of species, subspecies and synonyms are listed in one alphabetical sequence. Valid names of species and subspecies are numbered, 1-433. Subspecific trinomial names, in brackets, and synonyms are not numbered.

Original descriptions are marked with an asterisk \*, when not consulted.

For every species or subspecies the distribution is given in subregional quotations. Faunal regions and subregions are shown on map 1, drawn after Holdhaus, 1929; Johansen, 1955; de Lattin, 1967; Franz & Beier, 1970 and Delfinado & Hardy, 1973. Abbreviations used for the regions are:

nea = nearctic  
neo = neotropical  
pal = palaeartic  
or = oriental  
aus = australian  
eth = ethiopian  
mad = madagascar

Genus Nephrotoma Meigen, 1803

Pales Meigen, 1800, Nuov. Class. Mouches: 14. Type-species, Tipula dorsalis Fabricius, by designation of Hendel, 1908, Verh. zool.-bot. Ges. Wien 58: 46.

Suppressed by I.C.Z.N. 1963, Opinion 678: 339.

Nephrotoma Meigen, 1803, Magazin InsektKde 2: 262. Type-species, Tipula dorsalis Fabricius, by monotypy.

Pachyrhina Macquart, 1834, Suites à Buffon, Dipt. 1: 88. Type-species, Tipula crocata Linnaeus, by designation of Westwood 1840, An introduction to the modern classification of insects, Synopsis of the genera of British insects, Order XIII: 128.

	<u>Distribution:</u>
1. abbreviata (Loew, 1863) Berl. ent. Z., 7: 295, (Pachyrhina).	nea 2.
2. aberdarensis Alexander, 1956 Ruwenzori Exped., (1934-35), 1: 139.	eth 1.
3. aculeata (Loew, 1871) Besch. Europ. Dipt., 2: 20, (Pachyrhina)	pal 1-5.
-. aculeata atricauda Alexander, 1924 Philipp. J. Sci., 24: 599, = aculeata (Loew, 1871).	
4. affinis (Bellardi, 1859) Saggio di ditterologia messicana, Parte 1, Pt. 1: 10, (Tipula).	nea 3.
5. akitae Alexander, 1955 Ann. ent. Soc. Amer., 48: 366.	pal 5.
-. albifrons (Macquart, sensu van der Wulp, 1880) Tijdschr. Ent., 24: 152, (Pachyrhina; error for punctifrons Macquart, 1838).	

Distribution:

6. *albonigra* Alexander, 1921 eth 1.  
Ann. Mag. nat. Hist. (9), 7: 99.
7. *alexandriana* Byers, 1968 nea 3.  
J. Kansas ent. Soc., 41: 399.
8. *alleni* (Alexander, 1913) neo 3.  
Jl N. Y. ent. Soc., 21: 206, (*Pachyrhina*).
9. *alluaudi* (Pierre, 1921) pal 3.  
Bull. Soc. Sci. nat. Marocco, 1: 150 (*Pachyrhina*).
10. *alterna alterna* (Walker, 1848) nea 2.  
List Dipt. Brit. Mus., 1: 72 (*Tipula*).
11. *alterna nexilis* (Dietz, 1918) nea 1-3.  
Trans. Am. ent. Soc., 44: 125, (*Pachyrhina*, as spec.).
- . (*alternata* Dietz, 1918,  
= subsp. of *snowii* Doane, 1908).
12. *alticrista* Alexander, 1941 pal 5.  
Philipp. J. Sci., 76: 39.
13. *altigalea* Alexander, 1965 or 3.  
Philipp. J. Sci., 94: 543.
14. *altissima* (Osten Sacken, 1877) nea 1-3.  
\* U.S. Geol. and Geogr. Survey of the Ter.,  
Bul., 3: 210, (*Pachyrhina*).
15. *ambricola* Alexander, 1963 mad.  
Verh. naturf. Ges. Basel, 74: 190.
- . (*ampla* Alexander, 1921, = subsp. of *fumidapicalis* Alexander, 1921).
16. *analis analis* (Schummel, 1833) pal 1-4.  
Beitr. Ent., 3: 105, (*Tipula*).
17. *analis subanalis* (Mannheims, 1951) pal 3.  
Fliegen palaearkt. Reg., Fam. 15: 46, (*Pales*, as spec.).
- . *analis* var. *escorialis* (Strobl, 1909)  
Verh. zool. -bot. Ges. Wien, 59: 134, (*Pachyrhina*).  
= *guestfalica* (Westhoff, 1880)
- . *analis* (Macquart, 1839)  
Dipt. exot., 1, 1: 51, (*Pachyrhina*).  
Identity and locality unknown.

Distribution:

18. *angusticrista* Alexander, 1962 eth 1.  
Annls. Mus. r. Afr. cent., Zool., 110: 344.
19. *angustifrons* Edwards, 1934 eth 2.  
Ann. Mag. nat. Hist. (10), 14: 335.
- . (*angustistriata* Alexander, 1925,  
= subsp. of *lunulicornis* Schummel, 1833).
20. *antennata* (Wiedemann, 1821) eth 3.  
Dept. exot., 1: 28, (Tipula).
21. *antithrix* (Mannheims, 1963) pal 3.  
Notul. ent., 42: 132, (Pales).
22. *appendiculata* (Pierre, 1919) pal 1, 3.  
Bull. Mus. natn. Hist. nat. Paris, 25: 618,  
(Pachyrrhina).
- . *approximata* (Bietz, 1918)  
Trans. Am. ent. Soc., 44: 136, (Pachyrrhina)  
= *brevicornis* (Doane, 1908)  
probably *approximata* is a valid species, Alexander, 1975, i.1.
- . *arctica* Alexander, 1919  
Rep. Canad. Arct. Exped., 1913-18, 3, Ins.: 10c.  
= *lundbecki* (Nielsen, 1907).
23. *astigma* (Pierre, 1925) pal 3.  
Encycl. ent. (BII), 2, Dipt.:9, (Pachyrrhina).
24. *atamoor* Alexander, 1959 mad.  
Mém. Inst. scient. Madagascar, (E), 11: 218.
- . *atricauda* Alexander, 1924  
Philipp. J. Sci., 24: 599, (as subsp. of *aculeata* Loew,  
= *aculeata* (Loew, 1871) 1871).
- . *atrocera* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 118, (Pachyrrhina).  
= var. of *macrocera macrocera* (Say, 1823).
25. *atrohirsuta* Alexander, 1973 aus 1.  
Studia ent., 16: 262.
26. *atrolatera* Alexander, 1935 or 3.  
Philipp. J. Sci., 56: 350.
27. *atrostyla* Alexander, 1935 pal 2,5.  
Philipp. J. Sci., 58: 239.
- . *attenuata* Alexander, 1935  
Philipp. J. Sci., 57: 135.  
= *nigrohalter* Edwards, 1928.
28. *augustana* Alexander, 1973 aus 1.  
Studia ent. 16: 264.

Distribution:

29. *aurantiaca* (Macquart, 1838) eth 3.  
Dipt. exot., 1, 1: 48 (Pachyrhina).
- *aurantiaca* (Mik, 1866)  
Verh. zool. -bot. Ges. Wien, 16: 304, (Pachyrhina,  
preocc. Macquart, 1838).  
= *euchroma* (Mik, 1874).
30. *aurantiocincta* Alexander, 1940 pal 5, or 3  
Philipp. J. Sci., 73: 405.
31. *aurocomata* Alexander, 1969 neo 3.  
Studia ent., 12: 198.
32. *australasiae* (Skuse, 1890) aus 1.  
Proc. Linn. Soc. N.S.W., 15: 126, (Pachyrhina).
33. *austriaca* (Mannheims & Theowald, 1959, key) pal 1.  
Mem. Soc. ent. Ital., 38: 24, (Pales); (Mannheims &  
Pechlaner, 1963, descr.) Stuttg. Beitr. Naturk., 102:  
6, (Pales).
34. *autumnalis* (Savtchenko, 1973) pal 2.  
Fauna SSSR, 2, 5: 106, (Pales).
35. *baliana* Alexander, 1936 or 4.  
Revue suisse Zool., 43: 79.
36. *baluba* Alexander, 1963 eth 2.  
Publ. Cult. Co. Diam. Ang., Lisboa, 66: 20.
37. *bara* Alexander, 1959 mad.  
Mém. Inst. scient. Madagascar, (E), 11: 220.
38. *bartigera* (Savtchenko, 1964) pal 5.  
Trudy Inst. Zool., Kyiv, 20: 186, (Pales).
39. *basutoensis* Alexander, 1964 eth 3.  
S. Afr. anim. Life, 10: 269.
40. *beckeri* (Mannheims, 1951) pal 3.  
Fliegen palaearkt. Reg., Fam 15: 41, (Pales).
41. *bellula* Alexander, 1969 or 2.  
Orient. Ins., 3: 5.
- *beutenmuelleri* (Dietz, 1918)  
Trans Am. ent. Soc., 44: 130, (Pachyrhina).  
= *ferruginea ferruginea* (Fabricius, 1805).
42. *biappendiculata* (Savtchenko, 1973) pal 5.  
Fauna SSSR, 2, 5: 167, (Pales).

Distribution:

43. *biarmigera* Alexander, 1935 or 3.  
Philipp. J. Sci., 57: 198.
- . *bichroma* (Pierre, 1924)  
Encycl. ent., Dipt, 1, 1: 12, (Pachyrhina).  
= *flavipalpis* (Meigen, 1830).
- . *bicolor* (Jaroshevsky, 1.1.)  
Savtchenko, 1973: Fauna SSSR, 2, 5: 80.  
= *rossica* (Riedel, 1910).
44. *bicristata* Alexander, 1965 or 1.  
Philipp. J. Sci., 94: 545
- . *bifascigera* Alexander, 1935  
Philipp. J. Sci., 58: 229  
= *lundbecki* (Nielsen, 1907).
45. *biformis* Alexander, 1935 pal 5  
Philipp. J. Sci., 57: 142.
46. *bifusca* Alexander, 1920 pal 2, 5  
Trans. Am. ent. Soc., 46: 25.
- . (*bispinosa* Alexander, 1925,  
= subsp. of *scalaris* Meigen, 1818)
47. *boliviana* Alexander, 1947 neo 3.  
Jl N. Y. ent. Soc., 55: 174
48. *bombayensis* (Macquart, 1855) or 1, 3, 4.  
Mém. Soc. Sci. Agric. Lille, 1854: 15, (Pachyrhina).  
(Dipt. exot. 1855, Suppl. 5: 15)
49. *bourbonica* Alexander, 1957 mad.  
Mém. Inst. scient. Madagascar, (E), 8: 295
50. *boyesi* Alexander, 1969 aus 1.  
Ent. News, 80: 259
51. *breviorcornis* (Doane, 1908) nea 1, 2.  
Ent. News, 19: 178, (Pachyrhina).
52. *brevipennis* (Wollaston, 1858) pal 3.  
Ann. Mag. nat. Hist. (3), 1: 115, (Pachyrhina)
53. *brevisternata* Alexander, 1968 or 3  
Khumbu Himal, 3: 85.
- . *brierei* Alexander, 1937  
Notes Ent. chin., 4: 23  
= ? *scalaris bispinosa* Alexander, 1925.



Distribution:

54. *buruensis* Edwards, 1926                        aus 1.  
    *Treubia*, 7: 143.
55. *byersina* Alexander, 1973                    aus 1.  
    *Studia ent.*, 16: 267.
56. *cacuminis* Alexander, 1945                neo 4.  
    *Ann. Mag. nat. Hist.* (11), 12: 753.
57. *calinota* (Dietz, 1918)                    nea 2.  
    *Trans. Am. ent. Soc.*, 44: 121, (*Pachyrrhina*).
58. *capensis* (Rondani, 1865)                eth 3.  
    \* *Arch. Canestr.*, 3: 91, (*Pachyrrhina*).
59. *carinata* (Mannheims, 1958)            eth 1.  
    *Stuttg. Beitr. Naturk.*, 6: 10, (*Pales*)
- . *castellana* (Strobl, 1905)  
    *Mems R. Soc. esp. Hist. nat.*, 1905: 406, (*Pachyrrhina*).  
    = *crocata* (Linnaeus, 1758).
- . *castellana* var. *croceiventris* (Strobl, 1909)  
    *Verh. zool. - bot - Ges. Wien*, 59: 314, (*Pachyrrhina*).  
    = *pratensis* (Linnaeus, 1758).
60. *catenata* Alexander, 1935                pal 5.  
    *Philipp. J. Sci.*, 58: 238.
61. *caudifera* Alexander, 1935                or 3.  
    *Philipp. J. Sci.*, 57: 203.
- . (celator Alexander, 1956,  
    = subsp. of *kigeziana* Alexander, 1956).
62. *chaetopyga* Alexander, 1921            eth 1.  
    *Ann. Mag. nat. Hist.* (9), 7: 98.
63. *chalybea* Alexander, 1921                eth 1.  
    *Ann. Mag. nat. Hist.* (9), 7: 101.
64. *chapini chapini* Alexander, 1920        eth 2.  
    *Bull. Am. Mus. nat. Hist.*, 43: 19.
65. *chapini pattersoni* Alexander, 1921    eth 2.  
    *Ann. Mag. nat. Hist.* (9), 7: 109.
66. *chosensis* Alexander, 1935            pal 5.  
    *Philipp. J. Sci.*, 58: 233.
- . *chromicolor* (Pierre, 1919)  
    *Bull. Soc. ent. Fr.*, 16: 284, (*Pachyrrhina*).  
    = *euchroma* (Mik, 1874).

Distribution:

67. *cinereifrons* Edwards, 1933 or 4.  
J. fed. Malay St. Mus., 17: 294.
68. *cingulata* (Dietz, 1918) nea 2.  
Trans. Am. ent. Soc., 44: 131, (Pachyrhina).
69. *circumcincta* Alexander, 1941 or 3.  
Philipp. J. Sci., 76: 41.
70. *circumscripta* (Loew, 1863) neo 2.  
Berl. ent. Z., 7: 180, (Pachyrhina).
71. *citreiceps* Speiser, 1923 eth 2.  
Wien. ent. Ztg, 40: 92.
72. *citricolor* Alexander, 1949 or 3.  
Ann. Mag. nat. Hist. (12), 2: 513.
73. *citrina* (Edwards, 1916) or 3.  
Ann. Mag. nat. Hist. (8), 18: 265, (Pachyrhina).
74. *clanceyi* Alexander, 1956 eth 1, 3.  
Durban Mus. Novit., 4: 297.
75. *clandestina* (Dietz, 1921) nea 2.  
Trans. Am. ent. Soc., 47: 262, (Pachyrhina).
76. *colorata* (Walker, 1861) aus 1.  
J. Proc. Linn. Soc., 8: 131, (Pachyrhina).
77. *comoroensis* Alexander, 1958 mad.  
Mém. Inst. scient. Madagascar, (E), 10: 82.
78. *concolorithorax* (Brunetti, 1912) or 3, 4.  
Fauna Br. India, Diptera, Nematocera: 346, (Pachyrhina).
79. *condylophora* Alexander, 1970 or 3.  
Trans. Am. ent. Soc., 96: 312.
80. *consimilis* (Brunetti, 1911) pal 2,4,5 or 3.  
Rec. Indian Mus., 6: 266, (Pachyrhina).
81. *consularis consularis* (Osten Sacken, 1886) neo 1,3, 4.  
\* Biologia cent.-am., Zoologia-Insecta-Diptera, 1: 17,  
(Pachyrhina).
82. *consularis eminens* Alexander, 1944 neo 3.  
Boln Ent. venez., 3: 149.
83. *contrastata* Alexander, 1920 pal 5.  
Trans. Am. ent. Soc., 46: 23.
84. *cornicina cornicina* (Linnaeus, 1758) pal 1-5, or 3.  
Syst. Nat., Ed. 10: 586, (Tipula).
85. *cornicina nigrina* (Savtchenko, 1973) pal 3.  
Trudy Inst. Zool., Kyiv. 35: 36, (Pales, as spec.).
- . *cornicina* (Meigen, 1804)  
Klass. d. zweifl. Ins.: 71, 12, (Tipula).  
= *flavescens* (Linnaeus, 1758).
- . *cornicina* (Meigen, 1818)  
Syst. Beschr., 1:200, (Tipula).  
= *appendiculata* (Pierre, 1919).
- . *cornicina* (Zetterstedt, 1851)  
Dipt. Scand., 10: 3996, (Pachyrhina).  
= *analis analis* (Schummel, 1833)

Distribution:

86. *cornifera* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 120, (*Pachyrhina*). nea 2.
87. *costofumosa* Alexander, 1963  
Verh. naturf. Ges. Basel, 74: 191. mad
- . *costomarginata* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 129, (*Pachyrhina*).  
= *ferruginea suturalis* (Loew, 1863).
- . *crinicauda* (Riedel, 1910)  
Dt. ent. Z., 1910: 428, (*Pachyrhina*).  
= *flavipalpis* (Meigen, 1830).
88. *crocata* (Linnaeus, 1758) pal 1-4.  
Syst. Nat., Ed. 10: 585, (*Tipula*).
- . (*crocata* var. *semiflava* Strobl, 1909, = *semiflava* Strobl, 1909).
89. *crocea* (Loew, 1866) eth 1, 3.  
Berl. ent. Z., 10: 58, (*Pachyrhina*).
90. *crocea* (Loew, sensu Speiser, 1909) eth 1.  
Wiss. Erg. Schwed. Zool. Exp. Kilimandjaro ....10,  
Diptera 4, Orthorapha: 63, (*Pachyrhina*).
- . *croceiventris* (Strobl, 1909)  
Verh. zool. -bot. Ges. Wien, 54: 314, (*Pachyrhina*; as var. of  
*castellana*).  
= *pratensis* (Linnaeus, 1758).
91. *curtiterebra* Alexander, 1955 or 3.  
Philipp. J. Sci., 94: 547.
92. *cuthbertsoni* Alexander, 1956 eth 1.  
Durban. Mus. Novit., 4: 299.
93. *dafila* Alexander, 1970 or 3.  
Trans. Am. ent. Soc., 96: 314.
94. *daisensis* Alexander, 1935 pal 5.  
Philipp. J. Sci., 58: 236.
95. *dampfi* Alexander, 1925 nea 3.  
Ann. ent. Soc. Am., 18: 358.
96. *decrepita* Alexander, 1935 pal 5.  
Philipp. J. Sci., 57: 139.
97. *definata* Alexander, 1935 or 3.  
Philipp. J. Sci., 57: 202.
98. *delegorguei* (Macquart, 1846) eth 3.  
Dipt. exot., Suppl. 1: 11, (*Pachyrhina*).
99. *delta* (Walker, 1856) or 1, 3.  
Insecta Saundersiana, 1: 445, (*Tipula*).
- . *dentata* (Meigen, 1838)  
Syst. Besch., 7: 35, (*Tipula*).  
= *quadrifaria quadrifaria* (Meigen, 1804).
100. *dewittei* Alexander, 1956 eth 1, 2.  
Ruwenzori Exped., (1934-35), 1: 135, (key), 142;  
(description not published?).
101. *dimidiata* (de Meijere, 1904) or 4. aus 1.  
Bijdr. Dierk., 18: 90, (*Pachyrhina*).
102. *distans* Edwards, 1928 or 3.  
Ann. Mag. nat. Hist. (10), 1: 700.

Distribution:

103. *dodabettiae* Alexander, 1951 or 2.  
Ann. Mag. nat. Hist. (12), 4: 886.  
-. *doleschalli* (Osten Sacken, 1881)  
Annali Mus. civ. Stor. nat. Giacomo Doria 16: 399,  
(*Pachyrhina*).  
= *javensis* (Doleschall, 1856).
104. *dominicana* Alexander, 1970 neo 2.  
Smithson. Contr. Zool., 45: 3.
105. *dorsalis dorsalis* (Fabricius, 1781) pal 1-3, 5  
Spec. Ins., 2: 403, (*Tipula*).
106. *dorsalis sachalina* Alexander, 1924 pal 2.  
Philipp. J. Sci., 24: 597.  
-. *dorsalis* (de Meijere, 1904)  
Bijdr. Dierk., 17: 89, (*Pachyrhina*; preocc. Fabricius, 1781).  
= *dorsata* Alexander, 1952.
107. *dorsata* Alexander, 1952 or 4.  
Rec. Indian Mus., 50: 325, (new name for *dorsalis*,  
de Meijere, 1904).  
-. *dorsopunctata* (Brunetti, 1911)  
Rec. Indian Mus., 6: 265, (*Pachyrhina*).  
= *delta* (Walker, 1856).
108. *drakanae* Alexander, 1934 pal 5.  
Ark. Zool. 27(A), (17): 14.  
-. *duchazaudi* Alexander, 1925  
Ann. Mag. nat. Hist. (9), 15: 405.  
= ? *quadristriata* (Schummel, 1833).
109. *durangensis* Alexander, 1953 nea 3.  
Jl N. Y. ent. Soc., 61: 149.
110. *dutti* Alexander, 1953 pal 3.  
Bull. Br. Mus. nat. Hist. (Ent.), 14: 331.
111. *eburata* (Mannheims, 1958) eth 1.  
Opusc. zool. Munch., 14: 1, (*Pales*).
112. *ectypa* (Speiser, 1907) eth 1.  
Berl. ent. Z., 52: 138, (*Pachyrhina*).  
-. (*edita* Alexander, 1921,  
= subsp. of *quincux* Speiser, 1909).
113. *edwardsaria* Alexander, 1956 eth 1.  
Ruwenzori Exped., (1934-35), 1: 142.
114. *edwardsi* Alexander, 1917 eth 3.  
Ann. S. Afr. Mus., 17: 173.
115. *effrana* Alexander, 1936 or 4.  
Revue suisse Zool., 43: 76.
116. *electripennis* Alexander, 1953 pal 5.  
Philipp. J. Sci., 82: 146.
117. *elegans* (Fabricius, 1805) neo 3? 4.  
Systema Antliatorum: 26, (*Tipula*).
118. *elegantula* (Williston, 1896) neo 2  
Trans. ent. Soc. London, 1896: 295, (*Pachyrhina*).
119. *elgonica* Alexander, 1956 eth 1.  
Ruwenzori Exped., (1934-35), 1: 143.

Distribution:

- . *elongata* (Macquart, 1838)  
Dipt exot., 1, 1: 50, (Pachyrhina).  
Identity and locality unknown.
- . (*eminens* Alexander, 1944,  
= subsp. of *consularis* Osten Sacken, 1886).
- 120. *erebus* Alexander, 1921 pal 2, 4, 5.  
Bull. Mus. natn. Hist. nat. Paris, 27: 541.
- 121. *ericarum* Alexander, 1965 or 3.  
Philipp. J. Sci., 94: 548.
- . *erythrophrys* (Williston, 1892)  
Kans. Univ. Q., 2: 63 (Pachyrhina).  
= *altissima* (Osten Sacken, 1877).
- 122. *esakii* Alexander, 1924 pal 2, 5.  
Philipp. J. Sci., 24: 596.
- . *escorialis* (Strobl, 1909)  
Verh. zool. - bot. Ges. Wien, 59: 134, (Pachyrhina,  
as var. of *analis*).  
= *guestfalica* (Westhoff, 1880).
- 123. *eucera* (Loew, 1863) nea 1, 2.  
Berl. ent. Z., 7: 296, (Pachyrhina).
- 124. *euceroides* Alexander, 1919 nea 2.  
Can. Ent., 51: 172.
- 125. *euchroma* (Mik, 1874) pal 3.  
Verh. zool. -bot. Ges. Wien, 24: 353,  
(Pachyrhina; new name for *aurantiaca* Mik, 1866).
- 126. *eugeniae* (savtchenko, 1957) pal 1, 3.  
Ent. Obozr., 36: 216, (Pales).
- . (*euryglossa* Alexander, 1962,  
= subsp. of *quincux* Speiser, 1909).
- . *euryglossa* Alexander, 1965  
Philipp. J. Sci., 94: 550, (peocc. Alexander,  
1962).  
= *subeuryglossa* Alexander, 1969.
- 127. *euthynota* Alexander, 1962 eth 1.  
Annls Mus. r. Afr. cent., Zool., 110: 344.
- 128. *evasa* (Dietz, 1918) nea 2.  
Trans. Am. ent. Soc., 44: 124, (Pachyrhina).
- 129. *evittata* Alexander, 1935 pal 5. or 3.  
Philipp. J. Sci., 57: 200.
- 130. *excelsior* (Bergroth, 1888) nea 1.  
Wien. ent. Ztg, 7: 239 (Pachyrhina).
- 131. *extensicornis* Alexander, 1974 eth 2.  
Studia ent., 17: 384.
- . *fallax* (de Meijere, 1904)  
Bijdr. Dierk., 18: 90, (Pachyrhina).  
= *javensis* (Doleschall, 1856).
- 132. *familiaris* (Osten Sacken, 1881) or 4.  
Annali Mus. civ. Stor. nat. Giacomo Doria,  
16: 401, (Pachyrhina).

Distribution:

- . (farsidica Savtchenko, 1957,  
= subsp. of quadrifaria Meigen, 1804).
- 133. fasciata (Macquart, 1834) or 4.  
Suites à Buffon, Dipt., 1: 90, (Pachyrhina).
- . fascipennis (Zetterstedt, 1851)  
Dipt. Scand., 10: 3992, (Pachyrhina).  
= quadrifaria quadrifaria (Meigen, 1804).
- . fedshenkoi (Dodonov, 1926)  
Ent. Mitt., 15: 107, (Pachyrhina).  
= scalaris bispinosa Alexander, 1925.
- 134. ferruginea ferruginea (Fabricius, 1805) nea 1-3.  
Systema antliatorum: 28, (Tipula).
- 135. ferruginea suturalis (Loew, 1863) nea 2.  
Berl. ent. Z., 7: 295, (Pachyrhina; as spec.).
- . festina (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 126, (Pachyrhina).  
= gracilicornis gracilicornis (Loew, 1864).
- 136. festiva (Walker, 1848) eth 2.  
List Dipt. Brit. Mus., 1: 73, (Pachyrhina).
- 137. flammeola Alexander, 1925 pal 5.  
Ann. Mag. nat. Hist.(9), 15: 400.
- 138. flavescens (Linnaeus, 1758) nea 1. pal 1, 3.  
Syst. Nat., Ed. 10: 586, (Tipula).
- . flavescens (Walker, 1856)  
Ins. Brit., 3: 332, (Pachyrhina).  
= appendiculata (Pierre, 1919).
- 139. flavipalpis (Meigen, 1830) pal 1, 3.  
Syst. Besch., 6: 290, (Tipula).
- . flavirostris (Strobl, 1909)  
Verh. zool. -bot. Ges. Wien, 59: 314, (Pachyrhina,  
as var. of scalaris).  
= scalaris scalaris (Meigen, 1818).
- . flavofasciata (de Geer, 1776)  
Memoires pur servir a l'histoire des Insects,  
6: 349, (Tipula).  
= crocata (Linnaeus, 1758).
- . flavomaculata (de Geer, 1776)  
Memoires pour servir a l'histoire des Insects,  
6: 347, (Tipula).  
= flavescens (Linnaeus, 1758) according to Mannheims, 1951.  
= cornicia (Linnaeus, 1758) " " Savtchenko, 1973.
- 140. flavonigra flavonigra Alexander, 1920 mad.  
Bull. Mus. natn. Hist. nat. Paris, 26: 509.
- 141. flavonigra andohahelena Alexander, 1959 mad.  
Mém. Inst. scient. Madagascar, (E), 11: 223.
- 142. flavonota (Alexander, 1914) pal 5. or 3.  
Can. Ent., 46: 158, (Pachyrhina).
- 143. flavoposticata Alexander, 1936 aus 1.  
Proc. Linn. Soc. N. S. W., 61: 169.

Distribution:

144. *flavoscutellata* Edwards, 1925  
Treubia 6: 169. or 4.
145. *fletcheriana* Alexander, 1952  
Ann. Mag. nat. Hist. (12), 5: 1093. or 1-3.
146. *floresensis* Alexander, 1936  
Revue suisse Zool., 43: 87. or 4.
147. *forcipata* (Pierre, 1918)  
Bull. Soc. ent. Fr., 17: 230, (Pachyrhina). pal 1, 3.
148. *formosensis* (Edwards, 1916)  
Ann. Mag. nat. Hist. (8), 18: 267, (Pachyrhina). or 3.
149. *freemani* Alexander, 1956  
Ruwenzori Exped., (1934-35), 1: 146. eth 1.
150. *fulani* Alexander, 1974  
Studia ent., 17: 386. eth 2.
151. *fulvomeia* Alexander, 1958  
Bull. Inst. fr. Afr. noire, (A), 20: 117. eth 1.  
- (*fulvovittata* Savchenko, 1964, = subsp. of *impigra* Alexander, 1935).
152. *fumidapicalis fumidapicalis* Alexander, 1921  
Ann. Mag. nat. Hist. (9), 7: 103. eth 1, 3.
153. *fumidapicalis ampla* Alexander, 1921  
Ann. Mag. nat. Hist. (9), 7: 105. eth 1.
154. *fumiscutellata* Alexander, 1935  
Proc. Linn. Soc. N.S.W., 60: 54. aus 1.
155. *fuscapex* Edwards, 1928  
J. fed. Malay St. Mus., 14: 133. or 4.
156. *fuscescens* (Riedel, 1910)  
Dt. ent. Z., 1910, 6: 422, (Pachyrhina). pal 5.
157. *fuscipennis fuscipennis* (Karsch, 1886)  
Ent. Nachr., 12: 52, (Pachyrhina). eth 2.
158. *fuscipennis pronotalis* Alexander, 1921  
Ann. Mag. nat. Hist. (9), 7: 106. eth 1.
159. *fuscipennis triflava* Alexander, 1921  
Ann. Mag. nat. Hist. (9), 7: 107. eth 1.
160. *fuscoflava* (Brunetti, 1918)  
Rec. Indian Mus., 15: 275, (Pachyrhina). pal 4.  
- (*fuscofignosa* Alexander, 1940, = subsp. of *tenuis* Loew, 1863).
161. *gamma* (Brunetti, 1912)  
Fauna Br. India, Diptera Nematocera: 347, (Pachyrhina). or 3.
162. *geminata* Alexander, 1920  
Trans. Am. ent. Soc., 46: 24. pal 5.
163. *glabricristata* Alexander, 1939  
J. Agric. Univ. P. Rico, 23: 102. neo 2.
164. *globata* Alexander, 1951  
Ann. Mag. nat. Hist. (12), 4: 1087. or 2.
165. *globosa* Alexander, 1969  
Studia ent., 12: 200. neo 3.
166. *glossophora* Alexander, 1964  
Philipp. J. Sci., 93: 81. or 3.

Distribution:

- . gnata (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 118, (Pachyrhina).  
= macrocera macrocera (Say, 1823).
- 167. gorongonzae Alexander, 1960 eth 1.  
Ann. Natal Mus., 15: 3.
- 168. gracilicornis gracilicornis (Loew, 1864) nea 1, 2.  
Berl. ent. Z., 8: 66, (Pachyrhina).
- 169. gracilicornis temeraria (Dietz, 1918) nea 2.  
Trans. Am. ent. Soc., 44: 128, (Pachyrhina; as spec.).
- 170. grahamiana Alexander, 1940 pal 5.  
Philipp. J. Sci., 73: 403.
- 171. graueri Speiser, 1923 eth 2.  
Wien. ent. Ztg, 40: 89.
- . (guadalcanarana Alexander, 1936 = subsp. of solomonis  
Alexander, 1924).
- 172. guestfalica (Westhoff, 1880) pal 1, 3  
Jber. westf. ProvVer. Wiss. Kunst, 8: 49, (Tipula).
- 173. guttipleura Alexander, 1936 aus 1.  
Proc. Calif. Acad. Sci., 22: 2.
- 174. hainanica Alexander, 1936 or 3.  
Philipp. J. Sci., 61: 116.
- . hamata (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 121, (Pachyrhina, as subsp.  
of tenuis Loew)  
= tenuis tenuis (Loew, 1863).
- 175. hamulifera Alexander, 1965 or 3.  
Philipp. J. Sci., 94: 552.
- 176. handschiniana Alexander, 1936 or 4.  
Revue suisse Zool., 43: 83.
- 177. hartigi (Mannheims, 1951) pal 3.  
Fliegen palaearkt. Reg., Fam. 15: 49, (Pales).
- 178. helvetica (Mannheims & Theowald, 1959, key) pal 1.  
Mem. Soc. ent. Ital., 38: 24, (Pales); Mannheims &  
Pechlaner, 1963, descr.) Stuttg. Beitr. Naturk., 102: 24,  
(Pales).
- 179. hemichroa Alexander, 1956 eth 3  
Durban Mus. Novit., 4: 301.
- 180. hirsuticauda Alexander, 1924 pal 2, 5  
Philipp. J. Sci., 24: 597.
- . hirsutula (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 118, (Pachyrhina, as pilosula  
in key, p. 110.)  
= macrocera macrocera (Say, 1823).
- . histrio (Fabricius, 1794)  
Ent. Syst., 4: 237, (Tipula).  
= flavescens (Linnaeus, 1758).
- . hokkaidensis Alexander, 1924  
Ann. ent. Soc. Am., 17: 446.  
= pullata (Alexander, 1914).



Distribution:

181. *hyprocites* (Brunetti, 1918) or 3.  
Rec. Indian Mus. 15: 276, (*Pachyrhina*).
182. *imerina* Alexander, 1920 eth 3.  
Bull. Mus. natn. Hist. nat. Paris, 26: 405.
183. *immaculata* (van der Wulp, 1891) or 4.  
Tijdschr. Ent., 34: 196, (*Pachyrhina*).
- (*immaculata pangerangensis* Alexander, 1915,  
= *pangerangensis* Alexander, 1915).
184. *immemorata* Alexander, 1935 pal 5.  
Philipp. J. Sci., 57: 139.
- *imperialis* (Meigen, 1818)  
Syst. Besch., 1: 196, (*Tipula*).  
= *scalaris scalaris* (Meigen, 1818).
185. *impigra impigra* Alexander, 1935 pal 5. or 3.  
Philipp. J. Sci., 57: 137.
186. *impigra fulvovittata* (Savtchenko, 1964) or 3.  
Ent. Obozr., 43: 892, (*Pales*).
187. *inconsequens* Alexander, 1935 or 4.  
Philipp. J. Sci., 58: 403.
188. *incristata* (Mannheims, 1958) eth 1.  
Stuttg. Beitr. Naturk., 6: 8, (*Pales*).
- *incurva* (Loew, 1863)  
Berl. ent. Z., 7: 293, (*Pachyrhina*).  
= *alterna alterna* (Walker, 1848).
189. *inorata* Alexander, 1951 pal 5. or 1.  
Ann. Mag. nat. Hist. (12), 4: 1096.
190. *integra* Alexander, 1935 or 3.  
Philipp. J. Sci., 58: 224.
- *iridicolor* (Schummel, 1833)  
Beitr. Ent. Breslau, 3: 101, (*Tipula*).  
= *cornicina cornicina* (Linnaeus, 1758).
191. *iridipennis* (Pierre, 1925) eth 2.  
Encycl. ent. (BII), 2: 10, (*Pachyrhina*).
192. *irrevocata* Alexander, 1935 pal 4.  
Philipp. J. Sci., 58: 410.
193. *iyoenis* Alexander, 1954 pal 5.  
Philipp. J. Sci., 82: 266.
- *japonica* (Esaki, 1957)  
\* Iconogr. Ins. Japonica, Ed. 2: 1532, (*Limmophila*).  
= *virgata* (Coquillett, 1898).
194. *javana* (Wiedemann, 1821) or 4. aus 1.  
Dipt. exot., 1: 27, (*Tipula*).
195. *javensis* (Doleschall, 1956) or 2,4. aus 1  
Naturk. Tijdschr. Ned. -Indië, 10: 406, (*Tipula*).
196. *kaulbacki* Alexander, 1951 pal 5.  
Ann. Mag. nat. Hist. (12), 4: 1094.
197. *kaviengensis* Alexander, 1936 aus 1.  
Proc. Linn. Soc. N.S.W., 61: 170.

Distribution:

198. *kelimotoensis* Alexander, 1936  
Revue suisse Zool., 43: 85. or 4.
199. *kigeziana kigeziana* Alexander, 1956  
Ruwenzori Exped., (1934-35), 1: 148. eth 1.
200. *kigeziana celator* Alexander, 1956  
Ruwenzori Exped., (1934-35), 1: 149. eth 1.
201. *kigeziana trigona* Alexander, 1956  
Ruwenzori Exped., (1934-35), 1: 150. eth 1.
202. *kodaikanalensis* Alexander, 1951  
Ann. Mag. nat. Hist. (12), 4: 1089. or 2.
203. *korpa* Alexander, 1965  
Philipp. J. Sci., 94: 555. or 3.
204. *kozhevnikovi* (Dodonov, 1925)  
Konowia, 4: 108, (*Pachyrhina*). pal 3.
205. *laconica* (Osten Sacken, 1882)  
Berl. ent. Z., 26: 92, (*Pachyrhina*). or 4.
206. *laffooni* Alexander, 1950  
Ann. Mag. nat. Hist. (12), 3: 935. aus 1.
207. *lamellata* (Riedel, 1910)  
Dt. ent. Z., 1910, 6: 426, (*Pachyrhina*). pal 1, 2, 5
208. *lateropolita* Alexander, 1938  
Revta Ent., Rio de J., 9: 432. neo 1.
209. *latevittata* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 135, (*Pachyrhina*). nea 3.
210. *laticrista* (Savtchenko, 1966)  
Bonn. zool. Beitr., 17: 262, (*Pales*). pal 4.
211. *latispina* Alexander, 1956  
Ruwenzori Exped., (1934-35), 1: 150. eth 1.
212. *latissima* Alexander, 1962  
Annls Mus. r. Afr. cent., Zool., 110: 348. eth 1.
213. *leonia* Alexander, 1921  
Ann. Mag. nat. Hist. (9), 7: 110. eth 2.
214. *lerothodi* Alexander, 1956  
Durban Mus. Novit., 4: 302. eth 3.
215. *leto* Alexander, 1956  
Ruwenzori Exped., (1934-35), 1: 152. eth 1.
216. *leucostigma* Alexander, 1960  
Ann. Natal Mus., 15: 4. eth 3.
217. *libra* Alexander, 1951  
Ann. Mag. nat. Hist. (12), 4: 1092. or 3.
218. *ligulata* Alexander, 1925  
Ann. Man. nat. Hist. (9), 15: 402. pal 2, 4.
219. *lindneri* (Mannheims, 1951)  
Fliegen palaearkt. Reg., Fam. 15: 53, (*Pales*). pal 1, 3.
- *lineata* (Scopoli, 1763)  
Ent. Carn.: 320, (*Tipula*).  
= *flavescens* (Linnaeus, 1758).

Distribution:

220. *livingstonei* Alexander, 1921  
Ann. Mag. nat. Hist. (9), 7: 115. eth 1.
221. *longisternata* Alexander, 1965  
Philipp. J. Sci., 94: 557. or 3.
222. *lordhowensis* Dobrotworsky, 1974  
Austr. J. Zool., Suppl. Ser., 25: 70. aus 1.
223. *luaboensis* Alexander, 1960  
Ann. Natal Mus., 15: 6. eth 1.
- *lucida* (Schiner, 1868)  
Novara Reise, Dipt., 34: 1, (Pachyrhina).  
= *brevipennis* (Wollaston, 1858).
224. *lugens* (Loew, 1864)  
Berl. ent. Z., 8: 63, (Pachyrhina). nea 1, 2.
225. *lundbecki* (Nielsen, 1907)  
Meddr Gronland, 29: 390, (Pachyrhina). nea 1. pal 1, 2.
226. *lunulicornis lunulicornis* (Schummel, 1833)  
Beitr. Ent. Breslau, 3: 107, (Tipula). pal 1-3.
227. *lunulicornis angustistria* Alexander, 1925  
Ann. Mag. nat. Hist. (9), 15: 398, (as spec.). pal 2, 5.
- *luteata* (Meigen, 1818)  
Syst. Besch., 1: 193, (Tipula).  
= *crocata* (Linnaeus, 1758).
228. *machadoi* Alexander, 1963  
Publ. Cult. Co. Diam. Ang., Lisboa, 66: 22. eth 2.
229. *macrocera macrocera* (Say, 1823)  
J. Acad. nat. Sci. Philad., 3: 24, (Tipula). nea 1, 2.
230. *macrocera dietziella* Alexander, 1942  
Bull. Conn. St. geol. nat. Hist. Surv. 64: 230,  
(as var. of *macrocera*; new name for *virgata* Dietz). nea 2.
- *maculata* (Meigen, 1804)  
Klass. d. Zweifl. Ins., 1: 71, (Tipula, preocc. Linnaeus,  
1758).  
= *appendiculata* (Pierre, 1919).
- *maculosa* (Meigen, 1818)  
Syst. Besch., 1: 197, (Tipula, preocc. Gmelin in  
Linnaeus, 1790).  
= *appendiculata* (Pierre, 1919).
- *maculosa* (Zetterstedt, 1838)  
Ins. Lapp.: 845, (Tipula, preocc. Gmelin in Lineaus,  
1790).  
= *flavescens* (Linnaeus, 1758).
231. *madagascariensis* (Enderlein, 1912)  
Zool. Jb., Syst., 32: 17, (Pachyrhina). mad.
- *maderensis* (van der Wulp, 1885)  
Notes Leyden Mus., 7: 8, (Pachyrhina).  
= *brevipennis* (Wollaston, 1858).
232. *makiella* (Matsamura, 1916)  
Thousand Insects Japan, 2: 446, (Pachyrhina). or 3.

Distribution:

- . (malaitana Alexander, 1936, = subsp. of solomonis Alexander, 1924).
233. mannheimsi (Savtchenko, 1966) pal 2, 5.  
Bonn. zool. Beitr., 17: 260, (Pales).
234. margaritae Alexander, 1970 or 3.  
Trans. Am. ent. Soc., 96: 315.
235. marshalli Alexander, 1921 eth 3.  
Ann. Mag. nat. Hist.(9), 7: 117.
236. martynovi Alexander, 1935 pal 2, 5.  
Philipp. J. Sci., 58: 234.
237. medioligula Alexander, 1945 neo 3.  
Boln Ent. venez., 4: 67.
238. medioproducta Alexander, 1940 or 3.  
Lignan Sci. J., 19: 125.
- . (medioscalaris Alexander, 1962, = subsp. of quincux Speiser, 1909).
239. medipubera Edwards, 1932 or 4.  
Treubia 14: 151.
240. medleri Alexander, 1972 eth 1.  
Studia ent., 15: 385.
241. megascapha Alexander, 1951 or 2.  
Ann. Mag. nat. Hist. (12), 4: 891.
242. melanaspis Alexander, 1970 or 3.  
Trans. Am. ent. Soc., 96: 318.
- . melanopleura (Loew i.l.)  
Mannheims, 1951 Fliegen palaearkt. Reg., Fam. 15: 52.  
= rossica (Riedel, 1910).
243. melanoxantha Alexander, 1962 neo 3.  
Veröff. zool. Stsamml. Münch., 7: 36.
244. melanura (Osten Sacken, 1881) aus 1.  
Annali Mus. civ. Stor. nat. Giacomo Doria, 16: 401,  
(Pachyrhina).
245. meraca Alexander, 1935 pal 4.  
Philipp. J. Sci., 58: 407.
246. metallescens Edwards, 1928 or 4.  
J. fed. Malay St. Mus., 14: 133.
247. mexicana (Macquart, 1846) nea 3.  
Dipt. exot., Suppl. 1: 12, (Pachyrhina).
- . microcera Alexander, 1921  
Ann. ent. Soc. Am., 14: 133.  
= scurra scurra (Meigen, 1818).
248. milloti Alexander, 1958 mad.  
Mém. Inst. scient. Madagascar, (E), 10: 84.
249. minuscula (Mannheims, 1951) pal 3.  
Fliegen palaearkt. Reg., Fam. 15: 40, (Pales).

Distribution:

250. *minuticornis* Alexander, 1921 pal 2, 5.  
Ann. ent. Soc. Am., 14: 134.
251. *mobukuensis* Alexander, 1956 eth 1.  
Ruwenzori Exped., (1934-35), 1: 154.
252. *monopsellia* Speiser, 1923 eth 2.  
Wien. ent. Ztg. 40: 91.
253. *montana* (Dietz, 1918) nea 2.  
Trans. Am. ent. Soc., 44: 123, (*Pachyrhina*).
254. *moravica* Martinovsky, 1971 pal 1.  
Acta ent. bohemoslovaca, 68: 45.
255. *moshesh* Alexander, 1956 eth 3.  
Burban Mus. Novit., 4: 304.
256. *mossambica* Alexander, 1920 eth 1.  
Ann. Mag. nat. Hist. (9), 5: 350.
257. *muktesarensis* Alexander, 1952 or 3.  
Ann. Mag. nat. Hist. (12), 5: 1095.
258. *nasuta* Oosterbroek, 1975 pal 3.  
Bull. zool. Mus. Univ. Amsterdam, 4: 121.
259. *navajo* Alexander, 1949 nea 3.  
Bull. Brooklyn ent. Soc., 44: 98.
260. *neopratenis* Alexander, 1921 pal 2, 5.  
Ann. ent. Soc. Am., 14: 132.
- (*nexilis* Dietz, 1918, = subsp. of *alterna* Dietz, 1918).
- (*nictans* Dietz, 1918, = subsp. of *sodalis* Loew, 1864).
261. *nigeriensis* Alexander, 1921 eth 1.  
Ann. Mag. nat. Hist. (9), 7: 111.
262. *nigricauda* Alexander, 1925 pal 2, 5.  
Ann. Mag. nat. Hist. (9), 15: 397.
263. *nigriceps* Tjeder, 1949 pal 1.  
Opusc. ent., 14: 110.
264. *nigrichroma* (Pierre, 1925) eth 2.  
Encycl. ent., (BII), 2: 11, (*Pachyrhina*).
- (*nigrina* Savtchenko, 1973, = subsp. of *cornicia* Linnaeus, 1758).
265. *nigrirostris* Edwards, 1928 or 4.  
J. fed. Malay St. Mus., 14: 135.
266. *nigritana* (Mannheims, 1958) eth 1.  
Stuttg. Beitr. Naturk., 6: 11, (*Pales*).
267. *nigrithorax* (de Meijere, 1919) or 4.  
Bijdr. Dierk., 21: 18, (*Pachyrhina*).
268. *nigroannulata* (van der Wulp, 1885) aus 1.  
Notes Leyden Mus., 7: 8, (*Pachyrhina*).
- *nigroantennata* (Dietz, 1921)  
Trans. Am. ent. Soc., 47: 261, (*Pachyrhina*, as var. of *tenuis*).  
= *tenuis tenuis* (Loew, 1863).

Distribution:

- . nigroapicalis (Brunetti, 1918)  
Rec. Indian Mus., 15: 335, (Eriocera).  
= hypocrites (Brunetti, 1918).
269. nigrocentralis Alexander, 1938 or 4.  
Philipp. J. Sci., 66: 106.
270. nigrocostalis Alexander, 1936 or 4.  
Revue suisse Zool., 43: 80.
271. nigrohalterata Edwards, 1928 pal 5.  
Ann. Mag. nat. Hist. (10), 1: 700.
272. nigrolutea (Bellardi, 1859) nea 3. neo 1.  
Saggio di ditteologia messicana, Parte 1, Pt. 1: 11.
273. nigropilosa Alexander, 1969 neo 4.  
Studia ent., 12: 203.
274. nigrostylata Alexander, 1935 pal 5. or 3.  
Philipp. J. Sci., 57: 204.
275. nigrotergata (de Meijere, 1924) or 4.  
Tijdschr. Ent. (Suppl.), 67: 6, (Pachyrhina).
- . nodulosa (Brullé, 1832)  
\* Expéd. scient. Morée, 3, 290: 626, (Tipula).  
= scurra scurra (Meigen, 1818).
276. nox (Riedel, 1910) pal 3.  
Dt. ent. Z., 1910, 6: 420, (Pachyrhina).
277. nycteris Alexander, 1956 eth 1.  
Ruwendori Exped., (1934-35), 1: 155.
- . oblitera (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 133. (Pachyrhina).  
= sodalis sodalis (Loew, 1864).
- . occidentalis (Doane, 1908)  
Ent. News, 19: 177, (Pachyrhina).  
= wulpiana (Bergroth, 1888).
278. occipitalis (Loew, 1864) nea 1-3.  
Berl. ent. Z., 8: 177, (Pachyrhina).
279. ochripennis Alexander, 1921 eth 1.  
Ann. Mag. nat. Hist. (9), 7: 108.
- . ochripleuris (de Meijere, 1913)  
Tijdschr. Ent., 34: 196, (Pachyrhina).  
= immaculata (van der Wulp, 1891).
280. okefenoke (Alexander, 1915) nea 2.  
Wash. Univ. Stud. scient. Ser., 2: 97, (Pachyrhina).
281. oligochaeta Alexander, 1957 eth 1.  
Ann. Natal Mus., 14: 135.
282. omeiana Alexander, 1935 pal 5. or 3.  
Philipp. J. Sci., 57: 144.
283. opacistriata Alexander, 1957 mad.  
Mém. Inst. scient. Madagascar, (E), 8: 291.
284. opacivittata (Dietz, 1918) nea 1, 2.  
Trans. Am. ent. Soc., 44: 123, (Pachyrhina).

- Distribution:
285. *opima* Alexander, 1924                                   aus 1.  
Ann. Mag. nat. Hist. (9), 13: 49.
- . *orbitalis* (Riedel, 1919)  
Zap. ross. Akad. Nauk, (8), 28: 9, (Pachyrrhina).  
= *lundbecki* (Nielsen, 1907).
286. *ordinaria* (Osten Sacken, 1886)                       nea 3.  
Biologia cent. -am., Zoologia-Insecta-Diptera,  
1: 16, (Pachyrrhina).
287. *ortiva* (Osten Sacken, 1882)                           or 4.  
Berl. ent. Z., 26: 93, (Pachyrrhina).
288. *ozenumensis* Alexander, 1925                       pal 5.  
Ann. Mag. nat. Hist. (9), 15: 399.
289. *pallidapex* Alexander, 1938                           or 4.  
Philipp. J. Sci., 66: 108.
290. *palloris* (Coquillett, 1898)                           pal 5. or 3.  
Proc. U.S. natn. Mus., 21: 306, (Pachyrrhina).
291. *pamirensis* (Enderlein, 1934)                       pal 4.  
Dt. ent. Z., 1933, 2/3: 146, (Pachyrrhina).
292. *pangerangensis* (Alexander, 1915)                   or 4.  
Proc. U.S. natn. Mus., 49: 191, (Pachyrrhina; as subsp.  
of *immaculata*).
293. *parascutellata* Alexander, 1935                     or 4.  
Philipp. J. Sci., 58: 405.
294. *parva* (Edwards, 1916)                               or 3.  
Ann. Mag. nat. Hist. (8), 18: 266, (Pachyrrhina).
- . (*parvinotata* Brunetti, 1918, = subsp. of *scalaris* Meigen,  
1818).
295. *parvirostra parvirostra* Alexander, 1924           pal 2, 5.  
Philipp. J. Sci., 24: 600.
296. *parvirostra relictata* (Savtchenko, 1973)           pal 2, 5.  
Fauna SSSR, 2,5: 118, (Pales).
297. *parvirostra serristyla* Alexander, 1935           pal 2, 5.  
Philipp. J. Sci., 58: 226, (as spec.).
- . (*pattersoni* Alexander, 1921, = subsp. of *chapini* Alexander,  
1920).
298. *pauliana* Alexander, 1957                           mad.  
Mém. Inst. scient. Madagascar, (E), 8: 290.
299. *pedunculata* (Loew, 1863)                           nea 1-3.  
Berl. ent. Z., 7: 293, (Pachyrrhina).
300. *penumbra* (Alexander, 1915)                       nea 2.  
Proc. Acad. nat. Sci. Philad., 67: 467.
301. *peralticrista* Alexander, 1965                      or 3.  
Philipp. J. Sci., 94: 559.
- . *perdita* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 116, (Pachyrrhina).  
= *alterna nexilis* (Dietz, 1918).

Distribution:

- . *perfida* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 128, (Pachyrhina).  
= *gracilicornis gracilicornis* (Loew, 1864).
302. *perhorrida* Alexander, 1942 or 3.  
Rec. Indian Mus., 44: 50.
303. *perincisa* Alexander, 1949 nea 3.  
Bull. Brooklyn ent. Soc., 44: 99.
304. *perlepida* Alexander, 1956 eth 1.  
Ruwenzori Exped., (1934-35), 1: 156.
305. *perobliqua* Alexander, 1934 pal 5.  
Ark. Zool., 27(A), (17): 16.
- . *perpulchra* (Harris, 1776)  
Exposition of British Insects: 159, (Tipula).  
= *crocata* (Linnaeus, 1758).
306. *petiolata* (Macquart, 1838) eth 1, 3.  
Dipt. exot., 1, 1: 49, (Pachyrhina).
- . *phalerata* (Loew, nom. nud.)  
Mannheims, 1951, Fliegen palaearkt. Reg., Fam.15: 56.  
= *lamellata* (Riedel, 1910).
- . *picta* (Meigen, 1838)  
Syst. Besch., 7: 49, (Tipula)  
= *lunulicornis lunulicornis* (Schummel, 1833).
307. *picta* Alexander, 1935 pal 5.  
Philipp. J. Sci., 57: 138.
308. *pilicauda* (Savtchenko, 1973) pal 5.  
Fauna SSSR, 2, 5: 170, (Pales).
- . *pilosula* (Dietz, 1918)  
Trans. Am. ent. Soc., 44: 110, (Pachyrhina; in key  
for *hirsutula*).  
= *macrocera macrocera* (Say, 1823).
309. *platysterna* Alexander, 1965 or 3.  
Philipp. J. Sci., 94: 561.
310. *platysphela* Alexander, 1963 eth 2.  
Publ. Cult. Co. Diam. Ang., Lisboa, 66: 24.
311. *pleurinotata* (Brunetti, 1912) or 2.  
Fauna Br. India, Diptera, Nematocera: 343, (Pachyrhina).
312. *pleuromaculata* Alexander, 1927 pal 5. or 1, 3.  
Rec. Indian. Mus., 29: 182.
313. *polymera* (Loew, 1863) nea 2.  
Berl. ent. Z., 7: 297, (Pachyrhina).
314. *praecipua* Alexander, 1959 mad.  
Mém. Inst. scient. Madagascar, (E), 11: 225.
315. *pratensis* (Linnaeus, 1758) pal 1, 3.  
Syst. Nat., Ed. 10: 586, (Tipula).
- . (*profunda* Alexander, 1935, = subsp. of *scurra* Meigen, 1818).



Distribution:

316. *progne* Alexander, 1949 or 3.  
Ann. Mag. nat. Hist. (12), 2: 515.  
-. (*protonalis* Alexander, 1921 = subsp. of *fuscipennis* Karsch, 1886).  
-. *proxima* (Bellardi, 1859)  
Saggio di ditterologia messicana. Parte 1., Pt. 1., 9,  
(*Tipula*).  
= *ferruginea ferruginea* (Fabricius, 1805).
317. *pulchella* (Rondani, 1850) neo 3.  
\* Nuovi Ann. Sci. nat. Bologna, (3), 2: 195,  
(*Pachyrhina*).
318. *pullata* (Alexander, 1914) pal 5.  
Can. Ent., 46: 160, (*Pachyrhina*).
319. *puncticornis* (Brunetti, 1912) or 3.  
Fauna Br. India, Diptera, Nematocera: 343, (*Pachyrhina*).
320. *punctifrons* (Macquart, 1838) neo 4.  
Dipt. exot., 1: 49, (*Pachyrhina*).
321. *punctum* (Loew, 1863) nea 2.  
Berl. ent. Z., 7: 294, (*Pachyrhina*).  
-. *pygmaea* (Dodonov, 1926)  
Ent. Mitt., 15: 106, (*Pachyrhina*).  
= *ligulata* Alexander, 1925.  
-. *pyrenaica* (Pierre, 1917)  
Bull. Soc. ent. Fr., 13: 304, (*Pachyrhina*).  
= *semiflava* (Strobl, 1909).
322. *quadrifaria quadrifaria* (Meigen, 1804) pal 1, 3.  
Klass. Ins.: 72, (*Tipula*).
323. *quadrifaria farsidica* (Savtchenko, 1957) pal 3.  
Ent. Obozr., 36: 218, (*Pales*).
324. *quadrilata* Alexander, 1951 or 2.  
Ann. Mag. nat. Hist. (12), 4: 887.  
-. *quadri-lineata* (Macquart, 1838)  
Dipt. exot., 1, 1: 50, (*Pachyrhina*).  
= *ferruginea ferruginea* (Fabricius, 1805).
325. *quadrinacrea* Alexander, 1949 or 3.  
Ann. Mag. nat. Hist. (12), 2: 516.
326. *quadristriata* (Schummel, 1833) pal 1, 2, 4.  
Beitr. Ent. Breslau, 3: 109, (*Tipula*).
327. *quadrivittata* (van der Wulp, 1885) or 4.  
Notes Leyden Mus., 7: 9, (*Pachyrhina*).
328. *quincux quincux* (Speiser, 1909) eth 1.  
Wiss. Erg. Schwed. Zool. Exp. Kilimandjaro ...10,  
Diptera 4, Orthorapha: 62, (*Pachyrhina*).
329. *quincux edita* Alexander, 1921 eth 1.  
Ann. Mag. nat. Hist. (9), 7: 107.

Distribution:

330. quincux euryglossa Alexander, 1962 eth 1.  
Annls Mus. r. Afr. cent., Zool., 110: 350.
331. quincux medioscalaris Alexander, 1962 eth 1.  
Annls Mus. r. Afr. cent., Zool., 110: 351.
332. rajah Alexander, 1951 or 2.  
Ann. Mag. nat. Hist. (12), 4: 1091.
333. ramulifera Tjeder, 1955 pal 1, 2.  
Opusc. ent., 20: 226.
334. rectispina Alexander, 1925 or 3.  
Ann. Mag. nat. Hist. (9), 15: 406.
- (relicta Savtchenko, 1973, = subsp. of parvirostra Alexander, 1924).
335. repanda (Alexander, 1914) pal 2, 5.  
Canad. Ent., 46: 162, (Pachyrhina).
336. retenta Alexander, 1935 pal 5.  
Philipp. J. Sci., 57: 133.
337. reunionensis Alexander, 1957 mad.  
Mém. Inst. scient. Madagascar, (E), 8: 292.
338. richardiana Alexander, 1957 mad.  
Mém. Inst. scient. Madagascar, (E), 8: 297.
339. ridleyi Edwards, 1932 or 4.  
Bull. Raffles Mus., 7: 64.
340. rogersi Byers, 1968 nea 2.  
J. Kansas ent. Soc., 41: 395.
341. rossica (Riedel, 1910) pal 1-4.  
Dt. ent. Z., 1910, 6: 419, (Pachyrhina).
342. ruanda Alexander, 1955 eth 1, 2.  
Annls Mus. r. Congo Belge, (8): Sci. zool., 36: 269.
343. rubriventris (Savtchenko, 1957) pal 2.  
Ent. Obozr., 36: 219, (Pales).
344. ruwenzoriana Alexander, 1920 eth 1, 2.  
Bull. Am. Mus. nat. Hist., 43: 20.
345. saccai (Mannheims, 1951) pal 3.  
Fliegen palaearkt. Reg., Fam. 15: 57, (Pales).
346. saghaliensis Alexander, 1924 pal 2, 5.  
Ann. ent. Soc. Am., 17: 447.
- (sachalina Alexander, 1924, = subsp. of dorsalis Fabricius, 1805).
347. sakalava Alexander, 1959 mad.  
Mém. Inst. scient. Madagascar, (E), 11: 228.
348. sangoana Alexander, 1963 eth 2.  
Publ. Cult. Co. Diam. Ang., Lisboa, 66: 25.
- sannio (Meigen, 1838)  
Syst. Besch., 7: 36, (Tipula).  
= cornicina (Linnaeus, 1758).
349. scalarifer Alexander, 1920 1.  
Bull. Mus. natn. Hist. nat. Paris, 26: 136.

Distribution:

350. *scalaris scalaris* (Meigen, 1818) pal 1, 3, 4.  
Syst. Besch., 1: 195, (Tipula).
351. *scalaris bispinosa* Alexander, 1925 pal 1-5.  
Ann. Mag. nat. Hist. (9), 15: 404, (as spec.).
352. *scalaris parvinotata* (Brunetti, 1918) pal 3, 4. or 1.  
Rec. Indian Mus., 15: 276, (Pachyrhina; as spec.).
353. *scalaris terminalis* (Wiedemann, 1830) pal 3, 4.  
Aussereurop. zweifl. Ins., 2: 616, (Tipula; as spec.).
- . *scalaris* var. *flavirostris* (Strobl, 1909)  
Verh. zool. -bot. Ges. Wien, 59: 314, (Pachyrhina).  
= *scalaris scalaris* (Meigen, 1818).
354. *schauffelei* (Mannheims, 1964) pal 3.  
Stuttg. Beitr. Naturk., 126: 2, (Pales).
- . *schummeli* (Riedel, 1910)  
Dt. ent. Z., 1910, 6: 424, (Pachyrhina).  
= *quadristriata* (Schummel, 1833).
355. *scurra scurra* (Meigen, 1818) pal 1, 2, 4, 5.  
Syst. Besch., 1: 198, (Tipula).
356. *scurra profunda* Alexander, 1935 pal 5.  
Philipp. J. Sci., 58: 228, (as spec.).
- . *scurroides* (de Meijere, 1904)  
Bijdr. Dierk., 17-18: 90, (Pachyrhina).  
= *virgata* (Coquillet, 1898).
- . *seguyii* (Mannheims, nom. nud.)  
Mannheims, 1951, Fliegen palaearkt. Reg., Fam. 15: 56.  
= *lamellata* (Riedel, 1910).
357. *semicineta* Alexander, 1951 or 2.  
Ann. Mag. nat. Hist. (12), 4: 893.
358. *semiflava* (Strobl, 1909) pal 1, 3.  
Verh. zool. -bot. Ges. Wien, 59: 134, (Pachyrhina;  
as *crocata* var.).
359. *seniana* Alexander, 1952 or 3.  
Ann. Mag. nat. Hist. (12), 5: 1097.
360. *serricornis* (Brunetti, 1912) or 3.  
Fauna Br. India, Diptera, Nematocera: 341, (Pachyrhina).
- . (*serristyla* Alexander, 1935, = subsp. of *parvirostra*  
Alexander, 1924).
361. *setirostra* Alexander, 1963 mad.  
Verh. naturf. Ges. Basel, 74: 192.
362. *siamensis* Edwards, 1928 or 4.  
J. fed. Malay St. Mus., 14: 134.
363. *sinensis* (Edwards, 1916) pal 5. or 3.  
Ann. Mag. nat. Hist. (8), 18: 268, (Pachyrhina).
364. *smithersiana* Alexander, 1959 eth 1, 2.  
J. ent. Soc. sth. Afr., 22: 51.

	<u>Distribution:</u>
365. <i>snowii snowii</i> (Doane, 1908) Ent. News, 19: 176, (Pachyrhina).	nea 3.
366. <i>snowii alternata</i> (Dietz, 1918) Trans. Am. ent. Soc., 44: 117, (Pachyrhina).	nea 3.
367. <i>sodalis sodalis</i> (Loew, 1864) Berl. ent. Z., 8: 64, (Pachyrhina).	nea 1, 2.
368. <i>sodalis nictans</i> (Dietz, 1918) Trans. Am. ent. Soc., 44: 129, (Pachyrhina).	nea 3.
369. <i>solomonis solomonis</i> Alexander, 1924 Ann. Mag. nat. Hist. (9), 13: 48.	aus 1.
370. <i>solomonis guadalcanarana</i> Alexander, 1936 Proc. Calif. Acad. Sci., 22:4.	aus 1.
371. <i>solomonis malaitana</i> Alexander, 1936 Proc. Calif. Acad. Sci., 22: 4.	aus 1.
372. <i>sparsicoma</i> Alexander, 1969 Studia ent., 12: 204.	neo 4.
373. <i>spatha</i> Oosterbroek, 1975 Bull. zool. Mus. Univ. Amsterdam, 4: 119.	pal 1.
374. <i>speculata</i> (de Meijere, 1913) Nova Guinea, 9: 314, (Pachyrhina).	aus 1.
375. <i>sphagnicola</i> Alexander, 1920 Canad. Ent., 52: 110.	nea 2.
376. <i>stackelbergi</i> (Savtchenko, 1957) Ent. Obozr., 36: 211, (Pales).	pal 2.
377. <i>stejnegeri</i> Alexander, 1918 Jl N.Y. ent. Soc., 26: 74.	pal 2.
378. <i>sternomarginata</i> Alexander, 1964 Philipp. J. Sci., 93: 83.	or 3.
- . <i>stigmatica</i> (Dietz, 1918) Trans. Am. ent. Soc., 44: 137, (Pachyrhina). = <i>brevicornis</i> (Doane, 1908).	
- . <i>stigmatica</i> Nielsen, 1929 Notul. ent., 9: 50. = <i>lundbecki</i> (Nielsen, 1907).	
379. <i>strenua</i> Alexander, 1917 Ann. S. Afr. Mus., 17: 174.	eth 3.
- . <i>stygia</i> Alexander, 1921 Ann. ent. Soc. Am., 14: 131. = ? <i>erebus</i> Alexander, 1921.	
380. <i>stylacantha</i> Alexander, 1937 Notes Ent. chin., 4: 20.	pal 5. or 3.
- . ( <i>subanalis</i> Mannheims, 1951, = subsp. of <i>analis</i> Schummel 1833).	
381. <i>subdentata</i> Alexander, 1955 Annls Mus. r. Congo Belge, (8): Sci. zool., 36: 272.	eth 2.

	<u>Distribution:</u>
382. subeuryglossa Alexander, 1969 Orient. Insects, 3: 10, (new name for euryglossa Alexander, 1965).	or 3.
383. subinanis Alexander, 1970 Studia ent., 13: 260.	eth 1,2.
- . sublamellata Alexander, 1935 Philipp. J. Sci., 58: 231. = lamellata (Riedel, 1910).	
384. sublunulicornis (Savtchenko, 1957) Ent. Obozr., 36: 213.	pal 2.
385. submaculosa Edwards, 1928 Encycl. ent. (BII), 4: 188.	pal 1,3.
386. subopaca Alexander, 1952 Ann. Mag. nat. Hist. (12), 5: 1098.	pal 4.
387. subpallida Alexander, 1925 Ann. Mag. nat. Hist. (9), 15: 401.	pal 5.
- . subpratensis (Mannheims i.l.) Mannheims, 1951, Fliegen palaearct. Reg. Fam 15: 53. = lindneri (Mannheims, 1951).	
388. subumbonis Alexander, 1965 Philipp. J. Sci., 94: 563.	or 3.
389. sullingtoniensis Edwards, 1937 Encycl. ent. (BII), 9: 97.	pal 1,3.
390. sundaica Edwards, 1932 Treubia, 14: 152.	or 4.
391. surcoufi (Pierre, 1925) Encycl. ent. (BII), 2: 9, (Pachyrhina).	pal 3.
- . (suturalis Loew, 1863, = subsp. of ferruginea Fabricius, 1805).	
392. takeuchii Alexander, 1924 Ann. ent. Soc. Am., 17: 74.	or 3.
- . (temeraria Dietz, 1918, = subsp. of gracilicornis Loew, 1864).	
393. tenggerensis Alexander, 1936 Revue suisse Zool., 43: 75.	or 4.
394. tenuipes (Riedel, 1910) Dt. ent. Z., 1910, 6: 431, (Pachyrhina).	pal 1-3.
395. tenuis tenuis (Loew, 1863) Berl. ent. Z., 7: 297, (Pachyrhina).	nea 2.
396. tenuis fuscostigma Alexander, 1940 Am. Midl. Nat., 24: 606.	nea 2.
397. tenuis (Walker, 1865) J. Proc. Lin. Soc., 8: 106.	aus 1.
- . (terminalis Wiedemann, 1830, = subsp. of scalaris Meigen, 1818).	
398. thysia Alexander, 1956 Ruwenzori Exped., (1934-35), 1: 159.	eth 1.

Distribution

399. *tigrina* Alexander, 1917 eth 1,3.  
Ann. S. Afr. Mus., 17: 177.
400. *tigrinoides* Alexander, 1921 eth 1.  
Ann. Mag. nat. Hist. (9), 7: 113.
401. *tincta* (Walker, 1856) eth 1,3.  
Insecta Saundersiana, 1: 444, (*Tipula*).
402. *toda* Alexander, 1951 or 2.  
Ann. Mag. nat. Hist. (12), 4: 889.
403. *toxopei* Edwards, 1926 aus 1.  
Treubia, 7: 142.
404. *tricincta* Alexander, 1921 eth. 1,3.  
Ann. Mag. nat. Hist. (9), 7: 114.
- (*triflava* Alexander, 1921, = subsp. of *fuscipennis* Karsch, 1886).
- (*trigona* Alexander, 1956, = subsp. of *kigeziana* Alexander, 1956).
- *trilobulata* Alexander, 1935  
Philipp. J. Sci., 58: 408.  
= ? *consimilis* (Brunetti, 1911).
405. *triobtusa* Alexander, 1969 neo 3.  
Studia ent., 12: 205.
406. *tripartita* (Walker, 1861) aus 1.  
J. Proc. Lin. Soc., 5: 231, (*Pachyrhina*).
407. *triplasia* (van der Wulp, 1885) or 4.  
Notes Leyden Mus., 7: 10, (*Pachyrhina*).
408. *triquetra* Alexander, 1956 eth 1.  
Ruwenzori Exped., (1934-35), 1: 161.
409. *tumidiverticalis* Alexander, 1930 eth 2.  
Report of the Harvard-African Expedition upon the African Republic of Liberia and the Belgian Congo, The Crane-Flies: 1006.
410. *tzitzikamae* Alexander, 1964 eth 3.  
S. Afr. anim. Life, 10: 279.
411. *umbonis* Alexander, 1964 or 3.  
Philipp. J. Sci., 93: 85.
412. *umbripennis* Alexander, 1917 eth 3.  
Ann. S. Afr. Mus., 17: 172.
413. *uningulata* Alexander, 1917 eth 3.  
Ann. S. Afr. Mus., 17: 175.
414. *unicornis* Alexander, 1961 mad .  
Mém. Inst. scient. Madagascar, (E), 12: 208.
415. *uniscata* Alexander, 1969 or 3.  
Orient. Insects, 3: 8.
416. *urocera* (Dietz, 1918) nea 2.  
Trans. Am. ent. Soc., 44: 119, (*Pachyrhina*).

Distribution

417. *usta* (Osten Sacken, 1886) neo 1.  
*Biologia cent.-am., Zoologia-Insecta-Diptera,*  
 1: 17, (*Pachyrhina*).
- *variegata* (de Geer, 1776)  
*Memoires pour servir à l'histoire des Insectes,*  
 6: 346, (*Tipula*).  
 = *pratensis* (Linnaeus, 1758).
418. *variventris* Edwards, 1932 or 4.  
*Bull. Raffles Mus.,* 7: 64.
419. *venusticeps* Alexander, 1956 eth 1.  
*Ruwenzori Exped., (1934-35),* 1: 162.
- *verticalis* (Becker, 1906)  
*Z. syst. Hymenopt. Dipterol.,* 7: 240, (*Pachyrhina*).  
 = *flavipalpis* (Meigen, 1830).
420. *vesta* Alexander, 1949 or 3.  
*Ann. Mag. nat. Hist. (12),* 2: 518.
421. *vicaria* (Walker, 1848) eth 3.  
*List Dipt. Brit. Mus.,* 1: 72, (*Tipula*).
422. *villosa* (Savtchenko, 1973) pal 5 or 3.  
*Fauna SSSR,* 2, 5: 164, (*Pales*).
423. *vinsoniana* Alexander, 1957 mad .  
*Mém. Inst. scient. Madagascar, (E),* 8: 295.
424. *violovitshi* (Savtchenko, 1967) pal 2.  
*Annls zool. Warsz.,* 25: 355, 357. (*Pales*).
425. *virescens* (Loew, 1864) nea 2.  
*Berl. ent. Z.,* 8: 62, (*Pachyrhina*).
426. *virgata* (Coquillet, 1898) pal 5 or 3,4.  
*Proc. U.S. natn. Mus.,* 21: 306, (*Pachyrhina*).
- *virgata* (Dietz, 1921)  
*Trans. Am. ent. Soc.,* 47: 260, (*Pachyrhina*; as var. of  
*macrocera*; præocc. Coquillet, 1898).  
 = *macrocera dietziella* Alexander, 1942.
427. *vittula* (Loew, 1864) nea 1,2.  
*Berl. ent. Z.,* 8: 63, (*Pachyrhina*).
428. *whiteheadi* Edwards, 1933 or 4.  
*J. fed. Malay St. Mus.,* 17: 294.
429. *wulpiana* (Bergroth, 1888) nea 1-4.  
*Wien. ent. Ztg,* 7: 200, (*Pachyrhina*).
430. *wyalusingensis* (Dietz, 1918) nea 2.  
*Trans. Am. ent. Soc.* 44: 134, (*Pachyrhina*).
431. *xanthoplaca* Alexander, 1920 mad .  
*Bull. Mus. natn. Hist. nat. Paris,* 26: 510.
432. *xanthoplacodes* Alexander, 1963 mad .  
*Verh. naturf. Ges. Basel,* 74: 193.



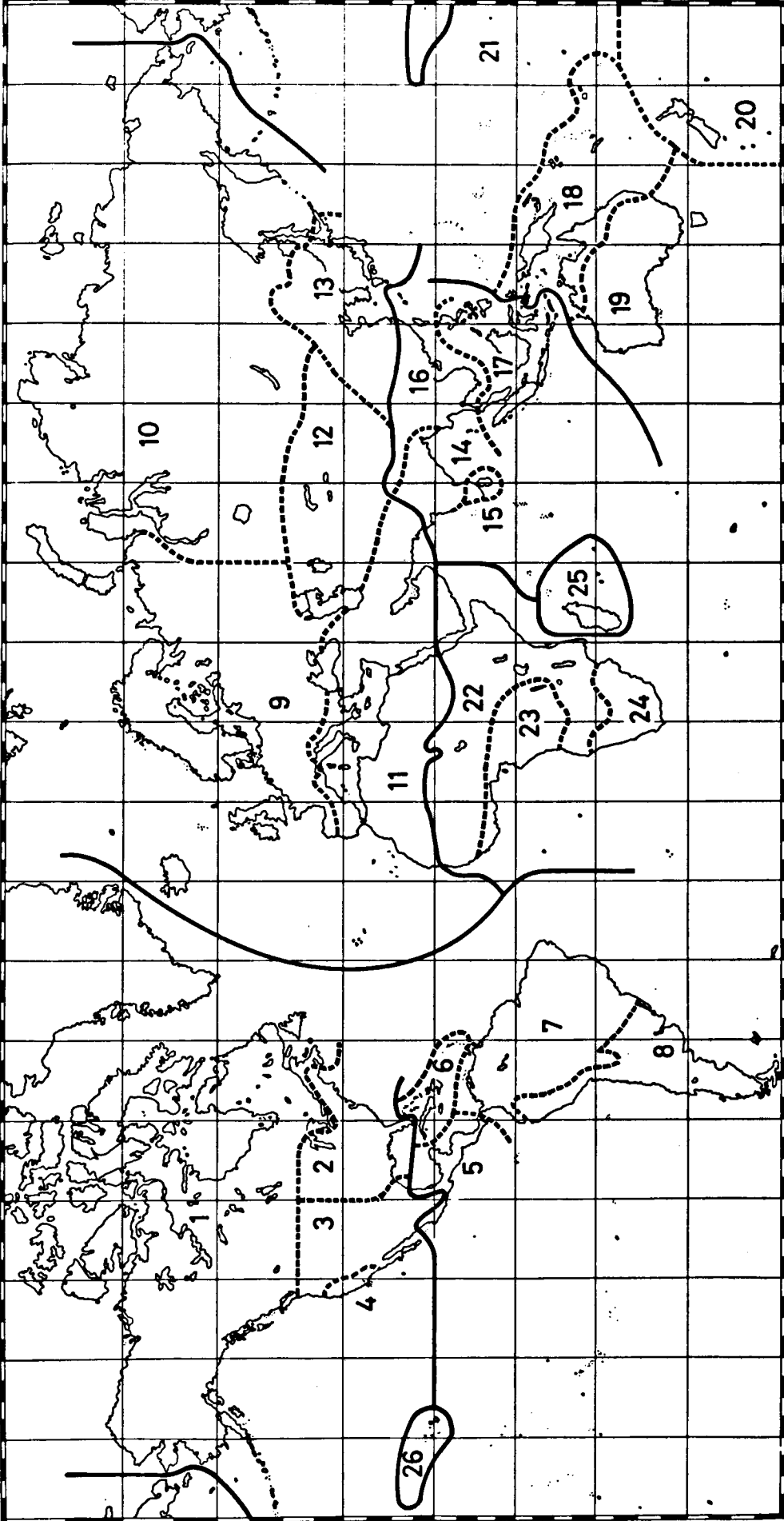


Table 1: Number of species (incl. subspecies) per region or subregion.

region	subregion	number of species	number of species limited to the (sub)region
nearctic		54	51
	1. canadian	18	1
	2. alleghanian	38	23
	3. sonorian	19	12
	4. californian	1	0
	1+2	9	
	1+2+3	5	
	1+2+3+4	1	
nearctic + neotropic	nea 3 + neo 1	1	
neotropic		22	21
	1. mexican	4	2
	2. antillian	4	4
	3. brazilian	10	9
	4. chilian	6	5
	1+3+4	1	
nearctic + palaeartic		2	
	nea 1 + pal 1,3	1	
	nea 1 + pal 1,2	1	
palaeartic		124	106
	1. european	32	5
	2. siberian	39	7
	3. mediterrenian	42	18
	4. turkmenian	20	6
	5. manchurian	64	28
	1+2	1	
	1+2+3	2	
	1+2+3+4	3	
	1+2+3+4+5	2	
	1+3	11	
	1+3+4	1	
	1+2+3+5	1	
	1+2+4	1	
	1+2+5	1	
	1+2+4+5	1	
	2+4	1	
	2+5	15	
	2+4+5	1	
	3+4	1	

Table 1 (cont.)

region	subregion	number of species	number of species limited to the (sub)region
palaeartic + oriental		16	
	pal 1-5 + or 3	1	
	pal 2,4,5 + or 3	1	
	pal 3,4 + or 1	1	
	pal 5 + or 1	1	
	pal 5 + or 1,3	1	
	pal 5 + or 3	10	
	pal 5 + 3,4	1	
oriental		114	95
	1. indian	7	1
	2. ceylonian	12	10
	3. chinese	65	47
	4. malayan	39	33
	1+3	1	
	1+2+3	1	
	1+3+4	1	
	3+4	1	
oriental + australian		3	
	or 2,4 + aus 1	1	
	or 4 + aus 1	2	
australian		26	23
	1. melanesian	26	23
	2. austrotasmanian	0	0
	3. new Zealand	0	0
	4. polynesian	0	0
ethiopian		94	94
	1. eastafrican	58	46
	2. westafrican	24	19
	3. southafrican	24	17
	1+2	5	
	1+3	7	
madagascar		21	21
hawaiian		0	0



Map 1: Faunal Regions and subregions (after Holdhaus, 1929; Johansen, 1945/55; de Lattin, 1967; Franz & Beier, 1970 and Delfinado and Hardy, 1973).

1. Canadian subregion of the nearctic region
2. Alleghanian subregion of the nearctic region
3. Sonorian subregion of the nearctic region
4. Californian subregion of the nearctic region
5. Mexican subregion of the neotropical region
6. Antillian subregion of the neotropical region
7. Brazilian subregion of the neotropical region
8. Chilean subregion of the neotropical region
9. European subregion of the palaeartic region
10. Siberian subregion of the palaeartic region
11. Mediterranean subregion of the palaeartic region
12. Turkmenian subregion of the palaeartic region
13. Manchurian subregion of the palaeartic region
14. Indian subregion of the oriental region
15. Ceylonian subregion of the oriental region
16. Chinese subregion of the oriental region
17. Malayan subregion of the oriental region
18. Melanesian subregion of the australian region
19. Austrotasmanian subregion of the australian region
20. New Zealand subregion of the australian region
21. Polynesian subregion of the australian region
22. East-african subregion of the ethiopian region
23. West-african subregion of the ethiopian region
24. South-african subregion of the ethiopian region
25. Madagascar region
26. Hawaiian region.

References

Of the about 600, the most important references are listed.

- Alexander, C.P., 1919. The Crane-Flies of New York; Part 1: Distribution and taxonomy of the adult flies. Cornell Univ. Agric. Expt. St. Mem., 25: 765-993, 55 pls.
- Alexander, C.P., 1932. Check list of Tipulidae of Oceania. Bernice P. Bishop Mus., Occas. Papers, 9: 1-12; (Pacific Ent. Survey Publ., 2: 1-12).
- Alexander, C.P., 1935, 1936. New or little known Tipulidae from Eastern Asia (Diptera), 25; 26; 27; 28. Philipp. J. Sci., 57: 81-148, 195-225; 58: 213-252, 385-426.
- Alexander, C.P., 1956. Ruwenzori Exped., (1934-35), 1: 129-380. British Mus. (Nat. Hist.).
- Alexander, C.P., 1962. Mission zoologique de l'I.R.S.A.C. en Afrique orientale. (P. Basilewsky et N. Leleup, 1957). Anns Mus. r. Afr. cent., Zool., 110: 343-362.
- Alexander, C.P., 1963. The Crane Flies of Madagascar in the Natural History Museum, Basel, collected by Fred Keiser. Verhandl. Naturf. Ges. Basel, 74: 181-229.
- Alexander, C.P., 1964. Diptera (Nematocera): Tanyderidae, Ptychopteridae, Tipulidae in: S. African Animal Life, 10: 229-441.
- Alexander, C.P., 1965. Tipulidae in: A catalog of the Diptera of America North of Mexico: 16-90. U.S.D.A. Agr. Research Service.
- Alexander, C.P., 1970. New or insufficiently known African crane flies (Dipt. Tipulidae). Studia ent., 13: 257-310.
- Alexander, C.P., 1973. New or insufficiently known Australasian Crane-Flies 2. (Diptera, Tipulidae). Studia ent., 16: 261-314.
- Alexander, C.P. & M.M. Alexander, 1970. A catalog of the Diptera of the Americas south of the United States, 4: 1-259. Musea de Zoologia, Univ. de Sao Paulo, Brazil.
- Alexander, C.P. & M.M. Alexander, 1973. A catalog of the Diptera of the Oriental Region, 1: 7/224. Univ. Press, Hawaii, Honolulu.
- Delfinado, M.D. & D.E. Hardy, 1973. A catalog of the Diptera of the Oriental Region, 1. Univ. Press, Hawaii, Honolulu, 618 pp.
- Franz, H. & M. Beier, 1970. Die geografische Verbreitung der Insekten. Handb. Zool. 4(2)1/6: 1-139. 24 figs.
- Holdhaus, K., 1929. Die geografische Verbreitung der Insekten. in: Schröder, Handbuch der Entomologie, 2: 592-1058, Jena.
- Johansen, H., 1955. Die Jennisei-Faunenscheide. Zool. Jahrb., Jena, Syst., 83: 237-247.
- Kertész, C., 1902. Catalogus Dipteriorum, hucusque descriptorum, 2: 314-325. Lipsiae.
- Lattin, G. de, 1967. Grundriss der Zoogeografie, 602 pp., 170 figs., 25 pls., Stuttgart.
- Mannheims, B., 1951. in E. Lindner: Die Fliegen der Palaearktischen Region, Fam. 15, Tipulidae, A. Westpalaearktischen Arten: 1-64, 32 figs., 25 pls.
- Savtchenko, E.N., 1973. Tipulidae in: Fauna SSSR, N.S. 105, Dipt 2, 5, 281 pp. 160 figs Leningrad.

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