

# ANNOTATED CHECKLIST OF OECANTHINAE (ORTHOPTERA: GRYLLIDAE) OF THE WORLD

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The most recent listing of the Oecanthinae of the world is in Volume 2 of Kirby's *Synonymic Catalogue of Orthoptera* (1906, p. 72-76). Since then the number of described species has doubled and studies of the species in Africa (Chopard 1932), the United States (T. Walker 1962a, 1963), and Latin America (T. Walker 1967) have revealed new synonymies. The list below summarizes present knowledge of oecanthine taxonomy, nomenclature, and geographic distribution. Keys to the species of Oecanthinae in specific areas are in the studies listed above and in Tarbinsky (1932, USSR), Chopard (1936, Ceylon), and Chopard (1951, Australia). Little has been published on the biology of Oecanthinae with the exception of *Oecanthus pellucens* of Europe (Chopard 1938, M.-C. Busnel 1954, M.-C. and R.-G. Busnel 1954) and various U. S. species (Fulton 1915, 1925, 1926a, 1926b; T. Walker 1957, 1962a, 1962b, 1963).

The following conventions are used in the checklist: After the word *Type*, a single asterisk (\*) means that the condition and place of deposit of the type specimen were confirmed by correspondence. A double asterisk (\*\*) means that I have examined the type specimen. Data concerning the present status of the type specimen are separated by a semi-colon from data on the place and date of collection and the collector. Abbreviations are used for the following museums: Academy of Natural Sciences of Philadelphia, Pennsylvania (*ANSP*); British Museum (Nat. Hist.), London, England (*BM*); Universitetets Zoologiske Museum, Copenhagen, Denmark (*Copenhagen*); Museum d'Histoire Naturelle, Genève, Switzerland (*Genève*); Muséum National d'Histoire Naturelle, Paris, France (*Paris*); Naturhistoriska Riksmuseet, Stockholm, Sweden (*Stockholm*); University of Michigan Museum of Zoology, Ann Arbor, Michigan (*UMMZ*); United States National Museum, Washington, D. C. (*USNM*).

Immediately after each synonym and its reference, a reference to substantiate the synonymy is given.

## ANNOTATED CHECKLIST OF OECANTHINAE

OECANTHUS Serville, 1831: 134. Type-species *Acheta italica* Fabricius, 1781: 355 (= *Gryllus pellucens* Scopoli, 1763: 109), selected by Rehn 1904: 547.

*Synonymy*: *Aecanthus* Brullé, in Audouin and Brullé 1835: 174 (unjustified emendation); type-species *Gryllus pellucens* Scopoli, 1763: 109, by original designation. *Gryllomyia* Seidl 1837: 212; type-species *Acheta italica* Fabricius, 1781: 355, by original designation.

1. *pellucens* (Scopoli), 1763: 109.

*Type*: ♂, probably destroyed (Horn and Kahle 1936); Goritz, Carniola, Austria, Cl. P. Wulfen.

*Distribution*: s. and cen. Europe, n. Africa, Asia adjacent to the Mediterranean (Schreiner 1915).

- Synonymy*: *italicus* (Fabricius), 1781:355; Serville 1839:360.  
*Type*: ♂, lost (personal communication, S. L. Tuxen, 1965); Italy.  
*aqueus* (Fabricius), 1798:192; Kirby 1906:73. *Type*\*: ♂, Copenhagen; southern Russia.
- Subspecies*: *pellucens calinensis* Jannone, 1936:131, Fig. 20.  
*Type*\*: ♂, Istituto di Entomologia Agraria "F. Silvestri," Portici, Italy; Calino, Aegean Islands, 17 Sep. 1934, Jannone.  
 See note under *burmeisteri* Saussure, 1878.
2. *niveus* (De Geer), 1773:522, Pl. 43, Fig. 6.  
*Type*\*\* : ♀ (selected from three syntypes by T. Walker 1962a:308), Stockholm; Pennsylvania.  
*Distribution*: e. United States (T. Walker 1962a).  
*Synonymy*: *angustipennis* Fitch, 1856:413; T. Walker and Gurney 1960:10. *Type*: ♂, destroyed (Beutenmuller 1894b:251); New York.
3. *rufescens* Serville, 1839:361.  
*Type*\*: 2 syntypes (♂, ♀), ♀ only, Paris (♂ missing); Bombay, India.  
*Distribution*: Indo-Australian region (Chopard 1951).  
*Synonymy*: *gracilis* (Haan), 1842:236, Pl. 20, Fig. 8; Saussure 1878:456. *Type*: ♀, lost or destroyed, *not* at Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands; Java and Mandawey, Borneo.
4. *nigricornis* F. Walker, 1869:93.  
*Type*\*\* : ♀, BM; Illinois, E. Doubleday.  
*Distribution*: n.e. and n. cen. United States, s. Canada (T. Walker 1963).  
*Synonymy*: *forbesi* Titus, 1903:260; T. Walker 1963:772. *Type*\*\* : ♂, Illinois Natural History Survey, Urbana; Urbana, Illinois, 6 Sep. 1891, C. A. Hart (Frison 1927:142).  
*Note*: A pair of cryptic species share the name *nigricornis*, but it is uncertain which is *nigricornis* and which is *forbesi* or an undescribed species (T. Walker 1963).
5. *varicornis* F. Walker, 1869:94.  
*Type*: ♂, lost or destroyed (T. Walker 1962a:317); Mexico.  
*Distribution*: s.e. Texas (T. Walker 1962a); Mexico, Central America, Venezuela (T. Walker 1967).  
*Synonymy*: *marcosensis* Baker, 1905:81; T. Walker 1962a:317.  
*Type*\*\* : ♂ without head or thorax, USNM (on indefinite loan from Pomona College); San Marcos, Nicaragua.
6. *peruvianus* F. Walker, 1869:95.  
*Type*: ♂, lost or destroyed (not in BM); Peru.  
*Distribution*: Peru (T. Walker 1967).
7. *tenuis* F. Walker, 1869:95.  
*Type*\*\* : 2 ♀ syntypes, BM; Santarem, Brazil, Bates.  
*Distribution*: n. Brazil, Venezuela, Surinam (T. Walker 1967).

8. *sinensis* F. Walker, 1869: 95.  
*Type\*\**: ♀ nymph, BM; China.  
*Note*: Saussure (1878: 456) states that the type of *sinensis* is possibly a nymph of *indicus*; if he is right, *indicus* is a junior synonym of *sinensis*.
9. *lineatus* F. Walker, 1869: 96.  
*Type*: ♂, lost or destroyed (not in BM); Moreton Bay, Fiji Isles.  
*Distribution*: Fiji Islands (Saussure 1878).
10. *fliger* F. Walker, 1871: 14.  
*Type\*\**: teneral ♀, BM; Natal, Union of South Africa.  
*Note*: Chopard (1932: 244) placed *fliger* and *capensis* as synonyms of *pellucens*; later (1955: 300) he placed *capensis* as a distinct species but neglected to mention *fliger*, which would have priority over *capensis*. Chopard (personal communication, 1963) says the description of *fliger* is inadequate but that the synonymy of *fliger* and *capensis* is probable.
11. *argentinus* Saussure, 1874: 460.  
*Type\*\**: ♀, Genève; data uncertain (T. Walker 1963: 773).  
*Distribution*: s.w. Canada; w. and cen. United States; Mexico (T. Walker 1963).  
*Synonymy*: *rehnii* Baker, 1905: 82; T. Walker 1963: 773. *Type\*\**: ♂, USNM (on indefinite loan from Pomona College); Stanford University, Santa Clara County, California.
12. *californicus* Saussure, 1874: 462.  
*Type\*\**: ♂, Genève; California.  
*Distribution*: w. United States (T. Walker 1962a), n. Mexico (T. Walker 1967).  
*Synonymy*: *pictipennis* Hebard, 1935: 78; T. Walker 1962a: 317 (infrasubspecific form described as subspecies). *Type\*\**: ♂, ANSP, type no. 1276; Rancho del Monte, Sante Fe County, New Mexico (7000 ft.), 11 Aug. 1934, M. Hebard.
13. *burmeisteri* Saussure, 1878: 454.  
*Type\**: ♀ without head, Martin-Luther-Universität, Halle-Wittenberg, E. Germany; Lagoa Santa, east Africa.  
*Distribution*: Africa south of the Sahara (Chopard 1955).  
*Note*: Chopard 1955: 66 states that *burmeisteri* is an African form of *pellucens*.
14. *minutus* Saussure, 1878: 454.  
*Type*: ♂, lost or destroyed; Pernambuco, Brazil.  
*Distribution*: s. Brazil, n. Argentina (T. Walker 1967).  
*Note*: Saussure (1878) lists "Mus. de Bruxelles" for the type. The type was not found at Institut Royal des Sciences Naturelles de Belgique, Bruxelles, nor at the museums that hold other Saussure types.  
*Synonymy*: *brasiliensis* Bruner, 1916: 397; new synonymy. *Type\*\**: ♀, ANSP; Corumbá, Brazil, March.
15. *brevicauda* Saussure, 1878: 454.  
*Type*: ♀, lost? (not in Paris); the Cape, South Africa.

- Distribution*: Africa south of the Sahara (Chopard 1955).  
*Synonymy*: *parvulus* Saussure, 1899: 613; Chopard 1932: 245.  
*Type\**: 2 ♀ syntypes; Nossi-Bé, Voeltzkow. (♂ syntype, from Aldabra?, lost)
16. *indicus* Saussure, 1878: 454.  
*Type\**: 5 ♀ syntypes, Genève; Celebes, Madras (India), Java.  
*Distribution*: India, Java; Sumatra (Chopard 1931).  
*Note*: See *sinensis* F. Walker, 1869.
17. *capensis* Saussure, 1878: 456.  
*Type\**: 2 syntypes (♂, ♀), Staatliches Museum für Naturkunde, Stuttgart, West Germany; Cape of Good Hope, South Africa, 1837, Von Ludwig.  
*Distribution*: s. Africa (Chopard 1955).  
*Note*: See *filiger* F. Walker, 1871.
18. *latipennis* Riley, 1881: 61.  
*Type\*\**: ♂, USNM, type no. 1113; Missouri or Alabama, 7 Oct. 1877.  
*Distribution*: e. United States (T. Walker 1962a).
19. *macer* Karsch, 1893a: 161.  
*Type\**: ♂ (lectotype here designated from 2 ♂ and 4 ♀ syntypes), Institut für Spezielle Zoologie und Zoologisches Museum, Berlin, E. Germany, Orth.-Kat.-Nr. 6477; Bismarckburg, Togo (now in Ghana), 1 Nov.-15 Dec. 1890, R. Büttner.  
*Distribution*: tropical Africa south of the Sahara (Chopard 1932, 1948, 1961).  
*Note*: Karsch (1893b: 203) described *macer* n. sp. again, this time with the type from Barombi-Station, Cameroons. Chopard (1932: 247) referred only to the 1893b description, but the 1893a description has priority since it is dated 1 July 1893 and the 1893b description is dated merely as July 1893 (see Article 21, International Code of Zoological Nomenclature). Furthermore, the Togo specimens were labeled as types and the Cameroons specimen was not (K. K. Günther, personal communication).
20. *comptulus* Karsch, 1893a: 161.  
*Type\**: ♂ (lectotype here designated from 5 ♂ and 4 ♀ syntypes), Institut für Spezielle Zoologie und Zoologisches Museum, Berlin, E. Germany, Orth.-Kat.-Nr. 6478; Bismarckburg, Togo (now in Ghana), 15-31 Dec. 1890, R. Büttner.  
*Distribution*: Uganda, Central African Republic, Ghana (Chopard 1932).
21. *pini* Beutenmuller, 1894a: 56.  
*Type\*\**: ♂ (selected from ten syntypes by T. Walker 1963: 774), USNM, type no. 65925; Woodstock, Windham County, Connecticut, Sep. 1893.  
*Distribution*: e. United States (T. Walker 1963).
22. *quadripunctatus* Beutenmuller, 1894b: 250.  
*Type\*\**: ♂ (selected from three syntypes by T. Walker 1963:

- 773), USNM, type no. 65924; Ellenville, New York.  
*Distribution*: s. Canada, U. S. (T. Walker 1963).
23. *lineolatus* Saussure, 1897: 254.  
*Type\*\**: ♂, Genève; Rio Grande do Sul, Brazil, Dr. Ihering.  
*Distribution*: e. and s. Brazil, n. Argentina (T. Walker 1967).
24. *longicaudus* Matsumura, 1904: 136, Pl. 6, Fig. 10.  
*Type\**: 3 ♂ and 3 ♀ syntypes, Hokkaido University, Sapporo, Japan; Jozankei, Hokkaido, Japan, 28 Aug. to 9 Oct., S. Matsumura.  
*Distribution*: Japan, extreme s. e. USSR (Tarbinsky 1932).
25. *rileyi* Baker, 1905: 81.  
*Type\*\**: ♂, USNM (on indefinite loan from Pomona College); mountains near Claremont, California.  
*Distribution*: California, Oregon, Washington (T. Walker 1962a); Mexico? (T. Walker 1967).
26. *immaculatus* Bruner, 1906: 184.  
*Type\*\**: ♀, University of Nebraska State Museum, Lincoln, Nebraska; Trinidad, West Indies, H. D. Chipman.  
*Distribution*: Trinidad, Colombia (T. Walker 1967).
27. *exclamationis* Davis, 1907: 173.  
*Type\*\**: ♀ (lectotype here designated from 4 ♀ syntypes), Staten Island Institute of Arts and Sciences, Staten Island, New York; Staten Island, 2 Nov.  
*Distribution*: e. United States, Arizona (T. Walker 1962a).
28. *turanicus* Uvarov, 1912: 38.  
*Type\**: 17 syntypes (5 ♂, 12 ♀), Zoological Institute, Academy of Sciences of USSR, Leningrad; nine localities in Turkestan.  
*Distribution*: Turkestan, Caucasia (Rodionov 1928).  
*Note*: Described as subspecies of *pellucens*; raised to species rank by Semenov-Tian-Shanskii 1915: 451.
29. *pictipes* Rehn, 1917: 131, Pl. 3, Fig. 19, 20, 21.  
*Type\*\**: ♂, ANSP, type no. 5330; Natal, State of Rio Grande do Norte, Brazil, W. M. Mann.  
*Distribution*: Brazil, n. Argentina, Paraguay (Walker 1967).
30. *angustus* Chopard, 1925a: 32, Fig. 65.  
*Type\**: ♀, Stockholm; Herberton, Queensland, Australia, E. Mjöberg.  
*Distribution*: western, central, and south Australia (Chopard 1951).
31. *decorsei* Chopard, 1932: 245.  
*Type\**: 2 syntypes (♂, ♀), Paris; south and central Chad, French Equatorial Africa, 1904, Dr. J. Decorse.
32. *rufopictus* Chopard, 1932: 246, Fig. 5.  
*Type\*\**: ♂ without head or prothorax, BM; Port St. John, Pondoland, Union of South Africa, 5-30 Apr. 1923, R. E. Turner.  
*Distribution*: s. and e. Africa (Chopard 1932).

33. *similis* Chopard, 1932: 246, Fig. 6, 13.  
*Type\*\**: 2 syntypes (♂, ♀), BM; Mulu, above Muger Valley (ca. 8000 ft.), Ethiopia, 18-23 Dec. 1926, Dr. H. Scott.  
*Distribution*: Africa south of the Sahara (Chopard 1961).
34. *karschi* Chopard, 1932: 246, Fig. 8.  
*Type\*\**: ♂ without abdomen, BM; Port St. John, Pondoland, Union of South Africa, 1-15 Apr. 1924, R. E. Turner.  
*Distribution*: Pondoland, Uganda (Chopard 1932).
35. *rectinervis* Chopard, 1932: 247.  
*Type\**: ♀, Paris; Haute-Sangha, French Congo, 1897, P. A. Ferrière.  
*Note*: Chopard (1932:247) suggests *rectinervis* may be made the type-species of a new genus when the male is known.
36. *henryi* Chopard, 1936: 65.  
*Type\**: ♂, Reg. No. 5514, Colombo Museum, Colombo, Ceylon; Wellawaya, Ceylon, July 1930.  
*Distribution*: Ceylon (Chopard 1936).
37. *bilineatus* Chopard, in Chopard and Chatterjee 1937: 26.  
*Type*: 2 syntypes (♂, ♀), lost (neither Forest Research Institute, Dehra Dun, India, nor Paris has the types; Paris has paratypes from the type-locality); Aiyur, Madras, India, Aug. 1930.  
*Note*: *bilineatus* Chopard, 1948:117, is a junior homonym of this name.
38. *chopardi* Uvarov, in Uvarov and Popov 1957: 364.  
*Type\*\**: ♂, BM; Deneghan (3000 ft.), Socotra, 14 March 1953, G. B. Popov.  
*Distribution*: Socotra (Uvarov and Popov 1957).
39. *allardi* T. Walker and Gurney, 1960: 9, Fig. 1.  
*Type\*\**: ♂, USNM, type no. 64826; Christiansted, St. Croix, Virgin Islands, Oct. 1940, Harry A. Beatty.  
*Distribution*: Leeward Islands and Greater Antilles, West Indies (T. Walker and Gurney 1960).
40. *leptogrammus* T. Walker, 1962a: 309, Fig. 7C.  
*Type\*\**: ♂, ANSP, type no. 5830; Brownsville, Texas, 23 May 1913.  
*Distribution*: s. Texas, Mexico, Central America, Colombia, Venezuela (T. Walker 1967).
41. *fultoni* T. Walker, 1962a: 309, Fig. 7D.  
*Type\*\**: ♂, UMMZ; Franklin County, Ohio, 21 July 1955, T. J. Walker.  
*Distribution*: U. S. (except se.), s. Canada, Mexico (T. Walker 1962a).
42. *celeriniectus* T. Walker, 1963: 773, Fig. 18F.  
*Type\*\**: ♂, USNM, type no. 63590; Gainesville, Florida, 5 July 1960, T. J. Walker.  
*Distribution*: se. United States, Mexico (T. Walker 1963).

43. *laricis* T. Walker, 1963: 773.  
*Type\*\**: ♂, UMMZ; E. S. George Reserve, Livingston County, Michigan, 7 Aug. 1939, I. J. Cantrall.  
*Distribution*: Michigan, n. Ohio (T. Walker 1963).
44. n. sp. No. 6 T. Walker, 1967: in press.  
*Type\*\**: ♂, UMMZ; 1 mi. w. Mil Cumbres, Michoacan, Mexico (9100 ft.), 29 Aug. 1948, P. P. Dowling, Coll. No. 35.  
*Distribution*: w. cen. and s. Mexico, Guatemala (T. Walker 1967).
45. n. sp. No. 7 T. Walker, 1967: in press.  
*Type\*\**: ♀, USNM; Barro Colorado Island, Canal Zone, Panama, June 1940; Jas Zetek, No. 4669.  
*Distribution*: Panama, Costa Rica (T. Walker 1967).
46. n. sp. No. 8 T. Walker, 1967: in press.  
*Type\*\**: ♂, UMMZ; 37 mi. se. Culiacan, Sinaloa, Mexico (100 ft.), 28 Oct. 1958, T. J. Cohn, Coll. No. 233.
47. n. sp. No. 9 T. Walker, 1967: in press.  
*Type\*\**: ♂, UMMZ; Guayaquil, Guayas, Ecuador, 20 Apr. 1963, T. H. Hubbell, L. E. Peña G., Coll. No. 140.

XABEA F. Walker, 1869: 109. Type-species *Xabea decora* F. Walker, 1869: 109, by monotypy.

1. *decora* F. Walker, 1869: 109.  
*Type\*\**: ♂, BM; Sumatra.
2. *furcata* Chopard, 1927: 172, Fig. 31, 32.  
*Type\**: ♂, Paris; Soekaboemi, Java, Chopard.
3. *inermis* Chopard, 1930: 24, Fig. 37, 38, 39, 41.  
*Type*: ♂, lost (not in Sarawak Museum, Kuching; Paris has a ♀ paratype from Pajan River, Borneo); Mt. Penrissen (4500 ft.), Borneo.
4. *maculata* Chopard, 1930: 25, Fig. 40.  
*Type*: ♀, lost (not in Sarawak Museum, Kuching); Mt. Poi (4350 ft.), Borneo.
5. *leai* Chopard, 1951: 463.  
*Type\**: 2 syntypes (1 ♂, 1 ♀), Paris; Cairns District, Australia, A. M. Lea.
6. *podoscirtoides* Chopard, 1951: 521.  
*Type\**: ♀, South Australian Museum, Adelaide; Mt. Lamington (1300-1500 ft.), ne. Papua, New Guinea, C. T. McNamara.  
*Distribution*: Murray Island, Torres Straits (Chopard 1951).

NEOXABEA Kirby, 1906: 76. Type-species *Gryllus bipunctatus* De Geer, 1773: 523, by original designation.

1. *bipunctata* (De Geer), 1773: 523, Pl. 43, Fig. 7.  
*Type\*\**: ♀, Stockholm; Pennsylvania.  
*Distribution*: e. United States (T. Walker 1962a); Central America and s. Mexico (T. Walker 1967).

2. *formosa* (F. Walker), 1869: 94.  
*Type*: ♀, lost (not in BM); Mexico.  
*Distribution*: s. Texas, e. Mexico (T. Walker 1967).  
*Note*: Kirby (1906) and others have treated *formosa* as a synonym of *bipunctata* but more recent studies (Walker 1967) show *formosa* to be a distinct species.
3. *brevipes* Rehn, 1913: 377, Fig. 34, 35, 36.  
*Type\*\**: ♀, ANSP, type no. 5229; Misiones, Argentina, 6 Nov. 1910, P. Jorgensen.  
*Distribution*: Argentina, Brazil, Venezuela (T. Walker 1967).
4. *obscurifrons* Bruner, 1916: 399.  
*Type\*\**: ♀ (lectotype here designated from 2 ♀ syntypes), ANSP; Rio de Janeiro, Brazil, Oct., H. H. Smith.  
*Distribution*: Brazil (T. Walker 1967).
5. *meridionalis* Bruner, 1916: 400.  
*Type\*\**: ♂ (selected from six syntypes by Hebard 1933: 63), ANSP; Valparaiso (4500 ft.), Department of Magdalena, Colombia, April, H. H. Smith.  
*Distribution*: Colombia, Bolivia (T. Walker 1967).  
*Synonymy*: *intricata* Hebard, 1928: 99, Pl. 15, Fig. 3; Hebard 1933: 63. *Type\*\**: ♂, ANSP, type no. 5439; summit of Sierra San Lorenzo, Magdalena, Colombia (8500 ft.), 28 July 1920, J. A. G. Rehn.
6. *trinodosa* Hebard, 1928: 98, Pl. 15, Fig. 2.  
*Type\*\**: ♂, ANSP, type no. 1108; San Antonio, Cauca, Colombia (6500 ft.), Dec. 1908.
7. n. sp. No. 1 T. Walker, 1967: in press.  
*Type\*\**: ♂, ANSP; Colombia.
8. n. sp. No. 2 T. Walker, 1967: in press.  
*Type\*\**: UMMZ; Dos Rios, 2 km. ne. Terra, Napo-Pastaza Province, Ecuador (800 m), 9 May 1963, T. H. Hubbell, L. E. Peña G., Coll. No. 164.
9. n. sp. No. 3 T. Walker, 1967: in press.  
*Type\*\**: ♂, UMMZ; Rancho Grande, Aragua, Venezuela, 21 July 1956, F. H. Test, Coll. No. 81.  
*Distribution*: Venezuela (T. Walker 1967).
10. n. sp. No. 4 T. Walker, 1967: in press.  
*Type\*\**: ♂, ANSP; Chanchamayo, Peru.  
*Distribution*: Peru (T. Walker 1967).
11. n. sp. No. 5 T. Walker, 1967: in press.  
*Type\*\**: ♂, UMMZ; Hacienda Cincinnati, Sierra San Lorenzo, Magdalena, Colombia (4500 ft.), 16-25 July 1920, Hebard.

## INCORRECTLY USED NAMES AND NOMINA DUBIA

*bilineatus* Chopard, 1948: 117.

*Oecanthus bilineatus* Chopard, 1948: 117. *Type\**: ♀, Koninklijk Mu-



- seum voor Midden-Afrika, Tervuren, Belgium; Kapanga, Congo, 6 Sep. 1933, F. G. Overlaet.
- Junior homonym of *bilineatus* Chopard, in Chopard and Chatterjee 1937: 26.
- binotata* Kirby, 1906: 76.  
*Acheta binotata* listed by Kirby 1906:76 as unjustified emendation (by Gmelin 1788: 2062) of *bipunctatus* De Geer, 1773: 523 (now in *Neoxabea*).
- confluens* Hart and Hood.  
*Oecanthus confluens* Folsom, 1909: 145.  
*Nomen nudum*: discussed by T. Walker 1963: 773.
- crucis* Fabricius, 1787: 232.  
*Acheta crucis* Fabricius, 1787: 232. Type\*: ♀, Copenhagen.  
*Oecanthus* (?) *crucis* (Fabricius) Kirby, 1906: 75.  
 Belongs in Eneopterinae: personal communication, S. L. Tuxen, 1965.
- discoloratus* Fitch, 1856: 413.  
*Oecanthus niveus* var. *e. discoloratus* Fitch, 1856: 413.  
*Oecanthus discoloratus* Fitch, F. Walker 1869: 116.  
 Designated *nomen dubium*: T. Walker 1962a: 308.
- fasciatus* De Geer, 1773: 522.  
*Gryllus fasciatus* De Geer, 1773: 522.  
*Oecanthus fasciatus* (De Geer) Fitch, 1856: 414.  
*Nemobius fasciatus* (De Geer) Beutenmuller, 1894b: 250.
- flavipes* Fabricius, 1793: 30.  
*Acheta flavipes* Fabricius, 1793: 30. Type\*: ♀, Copenhagen.  
*Oecanthus* (?) *flavipes* (Fabricius) Kirby, 1906: 75.  
 Belongs in Eneopterinae: personal communication, S. L. Tuxen, 1965.
- fuscipes* Fitch, 1856: 413.  
*Oecanthus niveus* var. *f. fuscipes* Fitch, 1856: 413.  
*Oecanthus fuscipes* Fitch, F. Walker 1869: 116.  
 Designated *nomen dubium*: T. Walker 1962a: 308.
- necydaloides* F. Walker, 1871: 15.  
*Oecanthus necydalcides* F. Walker, 1871: 15.  
*Euscyrtes necydaloides* (F. Walker) Chopard, 1925b: 535.
- pallidocinctus* Kirby, 1890: 533.  
*Oecanthus pallidocinctus* Kirby, 1890: 533.  
*Tafalisca pallidocincta* (Kirby) Kirby, 1906: 108.
- punctulatus* Gmelin, 1788: 2063.  
*Acheta punctulatus* Gmelin, 1788: 2063.  
*Oecanthus punctulatus* (Gmelin?) Fitch, 1856: 415.  
 Erroneous subsequent spelling of *bipunctatus* De Geer, 1773: 523 (now in *Neoxabea*).

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curators who furnished detailed information about the oecanthine types in their museums.

## SUMMARY

The type-locality, identity and location of the type-specimen, and distribution are given for the 47 species of *Oecanthus*, 6 of *Xabea*, and 11 of *Neoxabea*. Synonyms and subspecies are listed, and unresolved nomenclatural problems are noted. Eleven incorrectly used names and nomina dubia are treated. Lectotypes are designated for *Oecanthus macer*, *O. comptulus*, *O. exclamatonis*, and *Neoxabea obscurifrons*. *O. brasiliensis* is placed as a synonym of *O. minutus* (new synonymy), and *N. formosa* is treated as distinct from *N. bipunctata*.

## LITERATURE CITED

- Audouin, M. V., and M. A. Brullé. 1835. Histoire naturelle des Insectes. Vol. 9. Orthoptères et Hémiptères. Pillot, Paris. 415 p.
- Baker, C. F. 1905. Second report on Pacific slope Orthoptera. Invert. Pacifica 1: 71-83.
- Beutenmuller, W. 1894a. Description of a new tree-cricket. J. New York Ent. Soc. 2(2): 56.
- Beutenmuller, W. 1894b. Notes on some species of North American Orthoptera, with descriptions of new species. Bull. Amer. Mus. Natur. Hist. 6(11): 249-252.
- Bruner, L. 1906. Report on the Orthoptera of Trinidad, West Indies. J. New York Ent. Soc. 14: 135-165.
- Bruner, L. 1916. South American crickets, Gryllotalpoidea and Achetoidea. Ann. Carnegie Mus. 10: 344-428.
- Busnel, M.-C. 1954. Étude des chants et du comportement acoustique d'*Oecanthus pellucens* mâle. Ann. Epiphyties, fascicule spécial consacré au colloque sur l'acoustique des Orthoptères, p. 175-202.
- Busnel, M.-C., and R.-G. Busnel. 1954. La directivité acoustique des déplacements de la femelle d'*Oecanthus pellucens* Scop. Ann. Epiphyties, fascicule spécial consacré au colloque sur l'acoustique des Orthoptères, p. 356-364.
- Chopard, L. 1925a. Results of Dr. E. Mjöberg's Swedish scientific expeditions to Australia 1910-1913. 46. Gryllidae. Arkiv för Zoologi 18A(6): 1-57.
- Chopard, L. 1925b. The Gryllidae of Ceylon in the British Museum collections. Ann. and Mag. Nat. Hist. 9th Series 15(89): 505-536.
- Chopard, L. 1927. Descriptions de Gryllides nouveaux. Ann. Soc. Ent. France 96(2): 147-174.
- Chopard, L. 1930. The Gryllidae of Sarawak. Sarawak Mus. J. 4(1): 1-42.
- Chopard, L. 1931. Dr. E. Mjöberg's zoological collections from Sumatra. 12. Gryllidae. Arkiv för Zoologi 23(9): 1-17.
- Chopard, L. 1932. The African species of the genus *Oecanthus*, Serv. (Orth. Gryllidae). Stylops 1(11): 242-247.
- Chopard, L. 1936. The Tridactylidae and Gryllidae of Ceylon. Spolia Zeylanica (Bull. Nat. Mus. Ceylon) Sec. B. 20(1): 9-87.

- Chopard, L.* 1938. La biologie des Orthoptères. Série A, Vol. 20, Encyclopédie Entomologique [Paul Lechevalier, ed.]. Jouve and Co., Paris. 541 p.
- Chopard, L.* 1948. Contribution à l'études des Gryllides du Congo belge. Rev. Zool. Bot. Afr. 41(2-3): 109-121.
- Chopard, L.* 1951. A revision of the Australian Grylloidea. South Australian Mus. 9(4): 397-533.
- Chopard, L.* 1955. Orthoptera Ensifera et Tridactyloidea. South Afr. Animal Life, Results Lund Univ. Exped. 1950-1951. 2: 266-301.
- Chopard, L.* 1961. Orthoptères *Gryllidae* et *Gryllacrididae* of l'Angola. Publ. Cult. Diamantes Angola. 56: 13-70.
- Chopard, L., and N. C. Chatterjee.* 1937. Entomological investigations on the spike disease of sandal (31). Dermaptera and Orthoptera. Indian Forest Rec. (N. S.), Ent. 3(1): 1-30.
- Davis, W. T.* 1907. A new tree cricket from Staten Island and New Jersey. Can. Ent. 39(5): 173-174.
- De Geer, C.* 1773. Mémoires pour servir à l'histoire des insectes, Vol. 3. Stockholm. 696 p.
- Fabricius, J. C.* 1781. Species insectorum exhibentes eorum differentias specificas, synonyma autorum, loca natalia, metamorphosin, Vol. 1. Hamburgi et Kilonii. 552 p.
- Fabricius, J. C.* 1787. Mantissa insectorum sistens eorum species nuper detectas, Vol. 1. Hafniae. 348 p.
- Fabricius, J. C.* 1793. Entomologia systematica emendata et aucta, Vol. 2. Hafniae. 519 p.
- Fabricius, J. C.* 1798. Supplementum entomologiae systematicae. Hafniae. 572 p.
- Fitch, A.* 1856. Third report on the noxious and other insects of the state of New York. Trans. New York State Agr. Soc. 16: 315-490.
- Folsom, J. W.* 1909. The insect pests of clover and alfalfa. Univ. Illinois Agr. Exp. Sta. Bull. 134: 111-197.
- Frison, T. H.* 1927. A list of the insect types in the collections of the Illinois State Natural History Survey and the University of Illinois. Bull. Illinois Nat. Hist. Surv. 16: 137-309.
- Fulton, B. B.* 1915. The tree crickets of New York: life history and bionomics. New York Agr. Exp. Sta. Tech. Bull. 42: 1-47.
- Fulton, B. B.* 1925. Physiological variation in the snowy tree-cricket *Oecanthus niveus* De Geer. Ann. Ent. Soc. Amer. 18(3): 363-383.
- Fulton, B. B.* 1926a. Geographical variation in the *nigricornis* group of *Oecanthus* (Orthoptera). Iowa State Coll. J. Sci. 1(1): 43-61.
- Fulton, B. B.* 1926b. The tree crickets of Oregon. Oregon Agr. Exp. Sta. Bull. 223: 1-20.
- Gmelin, J.* 1788. Orthoptera. Caroli a Linné Systema naturae per regna tria naturae, . . . Ed. 13. 1(4): 2038-2088.
- Hann, W.* 1842. Bijdragen tot de Kennis der Orthoptera. p. 45-248, Pl. 10-23. In C. J. Temminck, Verhandelingen over de natuurlijke Geschiedenis der Nederlandsche overzeesche Bezittingen. Leyden.

- Hebard, M.* 1928. Studies in the Dermaptera and Orthoptera of Colombia. 5. Trans. Amer. Ent. Soc. 54(2): 79-124.
- Hebard, M.* 1933. Studies in the Dermaptera and Orthoptera of Colombia. Supplement to papers one to five. Material received since previous publications. Trans. Amer. Ent. Soc. 59(1): 13-67.
- Hebard, M.* 1935. Orthoptera of the Upper Rio Grande valley and the adjacent mountains in northern New Mexico. Proc. Acad. Nat. Sci. Philadelphia 87: 45-82.
- Horn, W., and I. Kahle.* 1936. Über entomologische Sammlungen, Entomologen and Entomo-Museologie. Pt. 2. Ent. Beih. Berlin-Dahlem 3: 161-296.
- Jannone, G.* 1936. Nuovi contributi alla conoscenza della fauna delle isole italiane dell'Espresso, V. Boll. Lab. Zool. Gen. Agr., Portici 29: 47-248.
- Karsch, F.* 1893a. Die Insecten der Berglandschaft Adeli im Hinterlande von Togo . . . , I. Berliner Ent. Z. 38: 1-266.
- Karsch, F.* 1893b. Verzeichniss der von Herrn Dr. Paul Preuss in Kamerun gesammelten Grillen. Ent. Nachrichten 19(13): 199-204.
- Kirby, W. F.* 1890. Insecta, excepting Coleoptera, of Fernando Noronha. J. Linn. Soc. (Zool.) 20: 530-548.
- Kirby, W. F.* 1906. A synonymic catalogue of Orthoptera. Vol. 2. British Museum, London. 562 p.
- Matsumura, S.* 1904. A thousand insects of Japan. [in Japanese] Keisei Sha, Tokyo. 213 p.
- Rehn, J. A. G.* 1904. Notes on Orthoptera from northern and central Mexico. Proc. Acad. Nat. Sci. Philadelphia 56: 513-549.
- Rehn, J. A. G.* 1913. A contribution to the knowledge of the Orthoptera of Argentina. Proc. Acad. Nat. Sci. Philadelphia 65: 273-379.
- Rehn, J. A. G.* 1917. The Stanford expedition to Brazil 1911, *Orthoptera* ii. Trans. Amer. Ent. Soc. 43: 89-154.
- Riley, C. V.* 1881. Notes and additions, p. 52-63, *In* Dept. Interior, U. S. Entomological Commission, Bull. 6, General Index and Supplement to the 9 reports on the insects of Missouri. GPO, Washington, D. C. 177 p.
- Rodionov, Z. S.* 1928. Pests of cotton. Part II. Beetles, aphids, and flies. [In Russian] Défense de plantes. 4(6): 933-951.
- Saussure, H. de.* 1874. Recherches zoologiques pour servir à l'histoire de la faune de l'Amérique centrale et du Mexique. 6th part. Imprimerie Impériale, Paris. 3: 293-516.
- Saussure, H. de.* 1878. Mélanges Orthoptérologiques, 6th fascicule. Mem. Soc. Phys. Hist. Nat. Genève 25: 369-702.
- Saussure, H. de.* 1897. Oecanthinae. Biologia centrali-Americana. Insecta. Orthoptera. 1: 251-255.
- Saussure, H. de.* 1899. Wissenschaftliche Ergebnisse der Reisen in Madagaskar und Ost-Afrika in den Jahren 1889-1895 von Dr. A. Voeltzkow. Abhandl. Senckenb. Naturforsch. Ges. 21(4): 567-664.
- Schreiner, J. F.* 1915. *Oecanthus pellucens* Scop. [In Russian] Orchard, Market-Garden and Bachza 2: 45-48.

- Scopoli, J. A. 1763. *Entomologia carniolica exhibens insecta carnioliae indigena et distributa*. . . Vindobonae. 421 p.
- Seidl, W. B. 1837. Die Orthopteren Böhmens. Weitenweber, Beitr. Ges. Natur- und Heilwissenschaft 1(18): 205-223.
- Semenov-Tian-Shanskii, A. 1915. [Critical review of] Uvarov, B. Ueber die orthopterenfauna Transcaspiens. [In Russian] Rev. Russe Ent. 15: 449-455.
- Serville, J. G. A. 1831. Revue methodique des Insectes de l'ordre des Orthoptères. Ann. Sci. Natur. 22: 28-65, 134-167, 262-292.
- Serville, J. G. A. 1839. Histoire naturelle des insects. Orthoptères. Roret, Paris. 776 p.
- Tarbinskii, S. P. 1932. A contribution to our knowledge of the orthopterous insects of USSR [In Russian with English descriptions]. Bull. Leningrad Inst. for Controlling Farm and Forest Pests 2: 181-205.
- Titus, E. S. G. 1903. A new *Oecanthus* from Illinois. Can. Ent. 35(9): 260-261.
- Uvarov, B. P. 1912. Ueber die Orthopterenfauna Transcaspiens. Horae Soc. Ent. Rossicae 40(3): 1-54.
- Uvarov, B. P., and G. B. Popov. 1957. The saltatorial Orthoptera of Socotra. J. Linn. Soc. London (Zool.) 43: 359-389.
- Walker, F. 1869. Catalogue of the specimens of Dermaptera Saltatoria and supplement to the Blattariae in the collection of the British Museum. British Museum, London. 224 p.
- Walker, F. 1871. Catalogue of the specimens of Dermaptera Saltatoria in the collection of the British Museum. Supplement. British Museum, London. 116 p.
- Walker, T. J. 1957. Specificity in the response of female tree crickets (Orthoptera, Gryllidae, Oecanthinae) to calling songs of the males. Ann. Ent. Soc. Amer. 50(6): 626-636.
- Walker, T. J. 1962a. The taxonomy and calling songs of United States tree crickets (Orthoptera: Gryllidae: Oecanthinae). I. The genus *Neoxabea* and the *niveus* and *varicornis* groups of the genus *Oecanthus*. Ann. Ent. Soc. Amer. 55(3): 303-322.
- Walker, T. J. 1962b. Factors responsible for intraspecific variation in the calling songs of crickets. Evolution 16(4): 407-428.
- Walker, T. J. 1963. The taxonomy and calling songs of United States tree crickets (Orthoptera: Gryllidae: Oecanthinae). II. The *nigricornis* group of the genus *Oecanthus*. Ann. Ent. Soc. Amer. 56(6): 772-789.
- Walker, T. J. 1967. Revision of Oecanthinae (Gryllidae: Orthoptera) of America south of the United States. Ann. Ent. Soc. Amer. 60: (in press).
- Walker, T. J., and A. B. Gurney. 1960. A new species of *Oecanthus* from the West Indies (Orthoptera, Gryllidae). Fla. Ent. 43(1): 9-13.