

## Types of Cicadellinae (Homoptera, Cicadellidae) in the Naturhistoriska Riksmuseet in Stockholm<sup>1</sup>

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This is written to stabilize the identities of thirty-three taxa of Cicadellinae in preparation for a generic revision of this group by the author. This study was made possible by a leave of absence for research from North Carolina State of the University of North Carolina at Raleigh and the financial support from that institution and the National Science Foundation.

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There follows a list of the taxa, in their original combinations, for which lectotypes have been selected and so labeled, and one case where a holotype was labeled, in the Naturhistoriska Riksmuseet. Each scientific name is followed by a code number which refers to the section on Literature Cited, where the full bibliographic citation may be found. The code numbers are identical to those used by Metcalf (1942, see literature cited). The code number is followed by a colon, after which appears the page number of the original description. This is followed by information on the specimen chosen as lectotype — the sex, and the labels borne by the pin which bears the specimen. Each label is separated by the word "and" and each line, except the last line, of each label is separated by a semicolon (;).

Illustrations of diagnostic characters of most of the taxa have been made and will be published in the larger paper to follow.

*Tettigonia approximata* Stål (1862 e: 39). The only specimen, a female, is designated lectotype. It bears labels: "Brasil" and "F. Sahlb." and "Typus". It agrees well with the original description.

*Tettigonia bipunctifrons* Stål (1870 c: 733). There is a female and an abnormal (or distorted) male in the collection. The female is designated lectotype. It bears labels: "Ins. Philipp" and "Semper" and "Typus". It agrees well with the original description, except that Stål described the female seventh sternum under the male symbol.

*Tettigonia cavifrons* Stål (1862 e: 41). The only specimen in the collec-

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tion is designated lectotype. It is a teneral female, with labels: "Brasil" and "E. Sahlb." and "cavifrons; Stål". The face had collapsed to yield Stål's chief specific character, which formed the basis for the specific name.

*Tettigonia clypeata* Signoret (1855 b: 234). The only specimen in the collection with a suggestion that Signoret had seen it is designated lectotype. It is a female with labels: "Brasil" and "Sigt.".

*Aulacizes coriacea* Stål (1864 a: 80). The male of a pair of specimens is designated lectotype. It bears labels: "Mexico" and "Sallé." and "Typus". It agrees well with the original description.

*Tettigonia coronulifera* Stål (1862 e: 39). The lone specimen in the collection is designated lectotype. It is a male with labels: "Rio-Jan" and "Stål" and "Typus". It agrees well with the original description.

*Tettigonia curvovittata* Stål (1862 e: 43). The only specimen in the collection is designated lectotype. It is a female with labels: "Brasil" and "E. Sahlb." and "Typus". It agrees well with the original description.

*Tettigonia dilutipes* Stål (1862 e: 41). The only specimen in the collection is designated lectotype. It is a female with labels: "Brasil" and "F. Sahlb." and "Typus". It agrees well with the original description.

*Tettigonia falleni* Stål (1862 e: 44). A female is designated lectotype. It bears labels: "Rio Jan" and "F. Sahlb." and "Typus" and "299; 63" and "Proconia; falleni Stål" and "Riksmuseum; Stockholm". It agrees well with the original description.

*Tettigonia flavoornata* Stål (1862 e: 41). One of the two males in the collection is designated lectotype. It bears labels: "Rio-Jan" and "F. Sahlb." and "Typus". It agrees well with the original description.

*Tettigonia flavovittata* Stål (1862 e: 42). There is a mixed series of seven specimens in the collection. The original description limits type designation to a female. A female with labels: "Rio-Jan" and "Stål" and "Typus" is designated lectotype. It agrees with the original description.

*Tettigonia impressipennis* Stål (1870 c: 733). One of the three males in the collection is designated lectotype. It bears labels: "Ins. Philipp" and "Semper" and "Type." and "impressipennis; Stål" and "Typus". It agrees with the original description.

*Tettigonia kinbergi* Stål (1859 b: 288). The only specimen in the collection is designated lectotype. It is a female with labels: "Malac; ca." and "Tettigonia; Kinbergi; Stål" and "Typus". It agrees well with the original description.

*Tettigonia magica* Stål (1864 a: 77). The only specimen in the collection is designated lectotype. It is a female with labels: "Mexico" and "Sallé" and "Typus". It agrees well with the original description.

*Aulacizes multiguttata* Stål (1864 a: 80). There are five females in the collection. One of these is designated lectotype. It bears labels: "Mexico" and "Sallé." and "Typus" and "297; 63" and "Riksmuseum; Stockholm" and "Amblydisca; multiguttata; Stål". It agrees fairly well with the original description.

*Tettigonia multivirgata* Stål (1864 a: 73). The only specimen, without an abdomen, is designated lectotype. It bears labels: "Mexico" and "5-signata; Walk.; V; p. 194" and "Typus". The original description indicates that the



specimen is probably a female. It agrees with the original description. The legs are missing from the specimen and the hind wings are damaged.

*Tettigonia nigrilinea* Stål (1870 c: 735). The only specimen in the collection is designated lectotype. It is a male with labels: "Ins. Philipp" and "Semper" and "Type" and "*Tettigonia*; nigrolinea; Stål" and "Typus". It agrees well with the original description.

*Euacanthus nigroflavus* Stål (1858 e: 197). The only specimen in the collection is designated lectotype. It is a female with labels: "Irkutsk" and "Stål" and "nigroflavus; Stål" and "Typus" and "300; 63" and "Riksmuseum; Stockholm" and "Euacanthus; nigroflavus; Stål". It agrees well with the original description.

*Aulacizes nitidipennis* Stål (1864 a: 79). One of the two females in the collection is designated lectotype. It bears labels: "Mexico" and "Sallé." and "Typus" and "298; 63" and "Riksmuseum Stockholm" and "Amblydisca; nitidipennis; Stål". It agrees fairly well with the original description.

*Tettigonia pyrrhoptera* Stål (1862 e: 43). The only specimen in the collection is designated lectotype. It is a female with labels: "Brasil" and "F. Sahlb." and "pyrrhop-; tera Stål.". It agrees well with the original description.

*Tettigonia quinquenotata* Stål (1870 c: 734). There are two females in the collection. One of these is designated lectotype. It bears labels: "Ins. Philipp" and "Semper" and "Type" and "*Tettigonia*; quinquenotata; Stål." and "Typus". The specimen agrees well with the original description but it has a spot on the pronotum not mentioned in the original description.

*Tettigonia signiceps* Stål (1862 e: 39). The only specimen in the collection is designated lectotype. It is a teneral female with labels: "Rio-Jan" and "Stål" and "Typus". It agrees well with the original description.

*Tettigonia sirena* Stål (1864 a: 76). The only specimen in the collection is designated lectotype. It is a female with labels: "Mexico" and "Sallé" and "Typus". It agrees with the original description.

*Tettigonia sobrina* Stål (1862 e: 41). One of the two females in the collection has been labeled holotype. It bears labels: "Rio-Jan" and "sobrina; Stål" and "Typus". It agrees well with the original description.

*Tettigonia stillifera* Stål (1862 e: 39). The only specimen in the collection is designated lectotype. It is a female with labels: "Rio-Jan" and "Stål" and "Typus". It agrees well with the original description.

*Tettigonia subolivacea* Stål (1862 e: 42). There are two specimens in the collection, one with the abdomen missing. The other specimen is designated lectotype. It is a somewhat teneral female with labels: "Brasil" and "F. Sahlb." and "Allotypus". It agrees well with the original description.

*Tettigonia subvirescens* Stål (1870 c: 734). There was a series in the collection, but all but one specimen apparently were added after publication of the name. The single exception is designated lectotype. It is a female with labels: "Ins. Philipp" and "Semper" and "Type" and "Typus" and "*Tettigonia*; subvirescens; Stål.".

*Tettigonia suturella* Stål (1855 b: 192). Of the two specimens in the collection, one has the head and abdomen missing. The other is designated lectotype. It is a female with labels: "Manilla" and "Kinb." and "Lectotypus". It has a damaged head and thorax. It agrees well with the original description.

*Tettigonia tagalica* Stål (1870 c: 734). The only specimen in the collec-

tion is designated lectotype. It is a female with labels: "Ins. Philipp" and "Semper" and "Type" and "*Tettigonia*; Tagalica; Stål" and "Typus". It agrees well with the original description.

*Phera tartarea* Stål (1864 a: 78). The male of a pair of specimens is designated lectotype. It bears labels: "Mexico" and "Sallé." and "Typus" and "Oncometopia; tartarea Stål" and "127; 57". It agrees well with the original description.

*Aulacizes thunbergi* Stål (1864 a: 79). Of the two females, which are doubtfully conspecific, in the collection, the only one which is topotypic is designated lectotype. It bears labels: "Vera Cruz" and "Sallé." and "Typus". It agrees well with the original description.

*Phera tiarata* Stål (1864 a: 79). One of the two females in the collection is designated lectotype. It bears labels: "Vera Cruz" and "Sallé" and "tiarata Stål" and "Typus" and "Phera tiarata Stål" and "126; 57". It agrees with the original description better than the other specimen which appears to be "var. b." of the description.

*Tettigonia urbana* Stål (1864 a: 74). Of the two specimens in the collection, only one is topotypic. It is a female with labels: "Vera Cruz" and "Sallé" and "Typus". It is designated lectotype. The specimen agrees with the original description.

#### Literature Cited

- METCALF, Z. P. 1942. Bibliography of the Homoptera Auchenorrhyncha. North Carolina State College of Agriculture and Engineering of the University of North Carolina. Raleigh, N.C. 886 pp.
- STÅL, C. 1855 b. Nya Hemiptera. Ofv. Svenska Vet. Akad. Förh. 12: 181—192.
- 1858 e. Beitrag zur Hemipteren-Fauna Sibiriens und des Russischen Nord-Amerika. Stett. Ent. Zeit. 19: 175—198.
- 1859 b. Hemiptera. Species novas descripsit. Eugenies resa . . . K. Svenska Vet. Akad. Zool. 4: 219—298.
- 1862 e. Bidrag till Rio Janeiro-traktens Hemipterfauna II. Svenska Vet. Akad. Handl. 3(6): 1—75.
- 1864 a. Hemiptera mexicana enumeravit speciesque novas descripsit (Continuatio). Stett. Ent. Zeit. 25: 49—86.
- 1870 c. Hemiptera insularum Philippinarum. Bidrag till Philippinska öarnes Hemipterfauna. Öfv. Svenska Vet. Akad. Förh. 27: 607—776.