

On type specimens of some species of Miridae described by H. Lindberg (Heteroptera)

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The paper includes lectotype designations and information on sex and/or locality of holotypes lacking in the original publications by Lindberg.

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H. Lindberg described several dozens of species and varieties of Miridae, but in a number of cases he failed to designate a holotype, or indicated "type ♂, type ♀" thus not making an available holotype designation, or indicated the location and collection number of the "holotype" ("type") but did not indicate to which of the two represented sexes it belongs and/or from which of the two or more localities it was collected, or did not indicate the collecting date giving a clue to the type locality. The purpose of this paper is to designate lectotypes and provide necessary information for such cases in order to include it in the catalogue of the Palaearctic Heteroptera. The paper does not include some species in which the sex of holotype and type locality were indicated in the original publication, but the type number given by Lindberg did not correspond to the number under specimen labelled as holotype in the collection.

For 5 species, all from Lindberg, 1958 (*Orthotylus acacicola*, *Psallus artemisiae*, *P. odontospermi*, *Atomoscelis hyalinus*, *Sthenarus insularis*), localities of holotypes were already indicated by Linnavuori (1993, 1994) and for *Tinicephalus macciae* Lindberg, 1934 by Matocq (1993). For *Orthotylus nigropilosus* Lindberg, 1934 a lectotype was designated by Yasunaga & al. (1996). Lindberg's types in the Museum National d'Histoire Naturelle, Paris (Lindberg, 1956) were considered by Kerzhner & Matocq (1994). A few types in the Zoologisches Museum, Uni-

versität Hamburg (Lindberg, 1930b, 1933) are not considered here. Most of the types discussed are kept in the Zoological Museum in Helsinki, a few (with species names asterisked) in the Naturhistoriska Riksmuseet, Stockholm. Usually only information completing the original description is indicated.

Lectotypes are designated here for the following taxa:

**Adelphocoris transversus* Lindberg, 1934b: 35 – ♀ (apparently the specimen figured in the original description);

Calocoris amurensis Lindberg, 1934a: 17 – ♂, Vladivostok, Suchan, Malaise, type nr. 7554;

Calocoris opacipennis Lindberg, 1934a: 17 – ♂, Vladivostok, Suchan, Malaise, type nr. 7555;

Globiceps cruciatus var. *obscuripes* Lindberg, 1940: 38 – ♀ (f. brach.), Atlas med., Azrou, 24.VI.-2.VII.1926, Håkan Lindberg, type nr. 12179;

Lygus conspurcatus var. *annulatus* Lindberg, 1940: 27 – ♂, "spec. typ.", Maroc, Rabat, A. Théry;

**Lygus malaisei* var. *pallidior* Lindberg, 1925: 6 – ♂, Kamchatka;

Monalocoris filicis var. *atlantica* Lindberg, 1941: 15 – ♂, Azores, Flores, Sta Cruz, 1-15.VI. Stora + blue label "1815" [= Monte Mounti, 3.VI.1938; information from notebook];

Nasocoris albipennis Lindberg, 1939: 19 – ♂, Egypt, Min. Agric., W. Feiran, 17.V.1934, coll. Prof. Priesner, type nr. 12204;

Psallus aethiops var. *flavicolor* Lindberg, 1921: 50 – ♂, Dudinka, Wuorentaus.

For the following species the specimen indicated by Lindberg (1934c, 1948, 1951) as "Type ♂" or "Holotype ♂" is here designated lectotype:

Atractotomus genistae Lindberg, 1948: 53 – type nr 7945;

Calocoris migrans Lindberg, 1948: 42 – type nr. 7919;

Campylomma platani Lindberg, 1948: 56 – type nr. 7935;

Campylomma viticis Lindberg, 1948: 55 – type nr. 7930;

Canariocoris euphorbiae Lindberg, 1951: 11 – type nr. 9520.

Dichroscytus cyprius Lindberg, 1948: 43 – type nr. 7924;

Dicyphus escalerae Lindberg, 1934c: 11 – type nr. 7579.

Phytocoris cedri Lindberg, 1948: 36 – type nr. 7911;

Phytocoris pinihailepensis Lindberg, 1948: 35 – type nr. 7906;

Platycranus genistae Lindberg, 1948: 49 – type nr. 7955;

Psallus pterocephali Lindberg, 1948: 51 – type nr. 7950;

Utopnia echinopsis Lindberg, 1948: 54 – type nr. 7940.

In 6 species, holotypes were indicated in the publication with their type numbers only, but no specimens with such numbers are found in the collection and specimens labelled as holotypes (*Canariocoris argyranthemis* has unpublished R. Remane's label "Neotype") have differing type numbers affixed after 1960. We suppose that the holotypes were not lost, but type labels were not affixed by Lindberg. This supposal is confirmed by the fact that in some of such cases the number of specimens is the same as indicated in the original publication. As no exact data were defined for holotype originally, lectotype designation is needed. The lectotypes are designated as follows:

Campylomma plantarum Lindberg, 1958: 118 – ♂ (uppermost; + 2 ♀), Ins Cabo Verde, Boavista, Funde de Figueiras, 30.I.1954, H.Lbg, type nr 12244 (description gives nr 11126);

Canariocoris argyranthemis Lindberg, 1951: 8 – ♂, Tenerife, Vallade Masca, 12-13.X.1947, H.Lbg, type nr. 12362 (description gives nr 9518), additional label "Neotype, design. R. Remane XI.1968";

Canariocoris zollicoferiae Lindberg, 1951: 6 – ♂, Gran Canaria, Maspalomas, 24-26.II.1949, H.Lbg, type nr 10558 (description gives nr 9516);

Orthotylus parallelus Lindberg, 1927: 24 – ♂, Amur Fl.: Nikolajevsk, 31.VIII.1917, Y. Wuorentaus, type nr 11434 (description gives nr 4030);

Plagiognathus phlomidis Lindberg, 1934c: 21 – ♂, Sierra de Cordoba, 10-11.IV.1926, H.Lbg, type nr 12236 (description gives nr 7596);

Tinicephalus cisti Lindberg, 1934c: 18 – ♂, Hisp. Algeciras, 15-22.IV.1926, H. Lbg, type nr 12208 (description gives nr 7583).

The following are the sex, locality or collecting date of the holotypes (or lectotypes designated above):

Adelphocoris callosus Lindberg, 1958: 88 – Ins. Cabo Verde, Nicolau, Rib. Bravo, 6-19.XII.1953;

**Adelphocoris tenebrosus* var. *atratus* Lindberg, 1934a: 12 – ♂;

**Adelphocoris tenebrosus* var. *flavipes* Lindberg, 1934a: 12 – ♀;

**Adelphocoris obliquefasciatus* Lindberg, 1934a: 15 – ♀;

Adelphocoris zollikoferiae Lindberg, 1953: 115 – Fuerteventura, Corralejo, 16-17.III. 1949;

Atomoscelis halophilus Lindberg, 1953: 149 – Fuerteventura, Gran Tarajal, 12-15.III.1949;

Atractotomus genistae Lindberg, 1948: 53 – Cyprus, Ayios Hilarion, 7.VI.1939;

Calocoris migrans Lindberg, 1948: 42 – Cyprus, Troodos, 16-22.VI.1939;

**Calocoris marmoratus* Lindberg, 1934b: 36 – 18 October [= Tung-Tung-siao];

Campylomma indigena Lindberg, 1958: 120 – Ins. Cabo Verde, Nicolau, Rib. Bravo;

Campylomma platani Lindberg, 1948: 56 – Cyprus, Troodos, Platania, 18- 23.VI.1939;

Deraeocoris pilosula Lindberg, 1940: 29 – ♀, Atlasmed., Ras-el-Ma, 24-29.VI.1926;

Dichroscytus cyprius Lindberg, 1948: 43 – Cyprus, Troodos, Livadia, 18.VI.1939;

Dicyphus bolivari Lindberg, 1934c: 12 – ♂, Sierra Morena, Sta Helena, 4-8.IV.1926;

Engytatus canariensis Lindberg, 1936: 36 – Tenerife, Aqua mansa, R. Stora + red label "3189";

Lygus acaciae Lindberg, 1958: 93 – Ins Cabo Verde, S.Tiago Serra Pico, Antonia, 10.II.1954;

**Lygus adustus* var. *bicolor* Lindberg, 1934a: 18 – ♂;

Lygus eduardi Lindberg, 1958: 90 – Ins Cabo Verde, Nicolau, Mte Gordo, 9-15.XII.1953;

Lygus flavoscutellatus Lindberg, 1958: 94 – Ins Cabo Verde, S.Vicente, Rib. Juliao, 26.XI.-2.XII.1953;

Lygus lavandulae Lindberg, 1958: 96 – Ins Cabo Verde, S.Antao supra Porto Novo, 3.I.1934;

**Lygus malaisei* Lindberg, 1925: 4 – ♀, Kamchatka;

**Lygus scutellatus* Lindberg, 1934b: 37 – ♂; *Macrotylus spergulariae* Lindberg, 1953: 138 – Lanzarote, Haria, 19.III.1949;

Malacotes aervae Lindberg, 1958: 114 – Ins Cabo Verde, Nicolau, P. do Lombinho, 10.XII.1953;

Orthotylus aceris Lindberg, 1940: 39 – ♀, Atlas med. Ras-el-Ma, 24-29.VI.1926;

Orthotylus callitris Lindberg, 1940: 41 – ♂, Marocco, Djebel Amsittan, 16-18.5.1926;

Orthotylus halophilus Lindberg, 1953: 130 – Gran Canaria, Maspalamos, 9-10.III.1950;

Orthotylus membraneus Lindberg, 1940: 42 – ♂, Atlas mai. Reraia, 29.V.-15.VI.1926;

Orthotylus parvinotum Lindberg, 1940: 40 – ♀, Atlas mai. Reraia, 29.V.-15.VI.1926;

Orthotylus pinicola Lindberg, 1953: 128 – La Palma, Caldera, 25.V.1947;

Orthotylus viburni Lindberg, 1953: 126 – Tenerife, Los Mercedes, 28-30.V.1947;

Phytocoris arganiae Lindberg, 1940: 14 – ♀, Marocco, Mogador, 9-14.V.1926;

Phytocoris dimorphus Lindberg, 1940: 21 – ♀, Marocco, Safi, 7-8.V.1926;

Phytocoris nevadensis Lindberg, 1934c: 6 – ♂, Sierra Nevada, 21-24.VII.1926;

Phytocoris pinihalepensis Lindberg, 1948: 35 – Cyprus, Stavros, 18-19.VII.1939;

Phytocoris reraiensis Lindberg, 1940: 18 – ♀, Atlas mai., Reraia, 29.V.-15.VI.1926;

Phytocoris scitulosoides Lindberg, 1948: 37 – Cyprus, Kykko, 15-17.VII.1939;

Plagiognathus mamorae Lindberg, 1940: 51 – ♂, Marocco, Mamora, coll. Thery;

Psallus cytisi Lindberg, 1953: 144 – ♂, Tenerife, Beramejo, 1400 m, 21.V.1947;

Psallus hyperici Lindberg, 1953: 141 – Can. La Palma, Mazo, 6.IV.1950;

Psallus laureti Lindberg, 1936: 38 – ♂, Tenerife, Los Mercedes;

Psallus pterocephali Lindberg, 1948: 51 – Cyprus, Kykko, 15-17.VII.1939;

Psallus reraiensis Lindberg, 1940: 49 – ♀, Atlas mai., Reraia, 29.V.-15.VI.1926;

Psallus rumicis Lindberg, 1953: 143 – Can., Hierro: Valverde 600 m, 24-30.III.1950;

Strongylocoris coerulescens Lindberg, 1940: 45 – ♀, Marocco, Tanger, 25-29.IV.1926;

Tuponia viridisparsa Lindberg, 1958: 123 – Ins Cabo Verde, S. Vicente, Rib. Juliao, 26.XI.-2.XII.1953;

Utopnia echinopsis Lindberg, 1948: 54 – Cyprus, Ayos Hilarion, 7.VI.1939.

For the following 4 species types were on loan or not found: *Adelphocoris bimaculicollis* Lindberg, 1948: 41; *Nesidiocoris tenuissimus* Lindberg, 1958: 101, *Omocoris parallelus* Lindberg, 1930a: 21, and *Sthenarus vidali* Lindberg, 1940: 52.

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