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Types of Flatidae (Homoptera) III. Lectotype designations and taxonomic notes on species in the Budapest Museum

By John T. MEDLER (Received 3 December, 1984)

Abstract: The type specimens of 27 species of Flatidae described by Melichar were studied. The genitalia of 15 holotype or lectotype males were illustrated. New synonyms are the following species, each a junior synonym of the species shown in parentheses: Colgar indicata Melichar (= Colgar diversa Melichar), Colgar similata Melichar (= Nephesa bistriguttata Stal), Paratella fumaria Melichar (= Paratella modesta Melichar), Paratella roseoalba Melichar (= Nephesa decolor Walker), Poeciloflata luteofasciata Melichar (= Poeciloflata modesta (Donovan)). New combinations are: Papuanella cyanea (Melichar) and Papuanella despecta (Melichar) each from Sephena. Colgar diversa Melichar is restored as a valid species of Neomelicharia, not a synonym of Poeciloptera ocellifera Walker.

Type specimens of Flatidae have been examined in connection with my research on this family in Southeast Asia and New Guinea. The types in the Hungarian Natural History Museum, Budapest are based on specimens described by MELICHAR during preparation of his monographic revision of the family (1901, 1902). Many specimens were from the collections made by Dr. Lajos BIRÓ in the eastern coastal areas of New Guinea in 1896-1901. Other specimens were obtained by purchase from H. FRÜHSTORFER, who collected widely for commercial purpose.

The authenticity of the syntypes was verified by reference to data recorded in the original publication. The label data associated with each specimen were recorded precisely by the following format: (1), (2), (3), etc., indicate the sequence of original labels on the pin from top to bottom, A slash (/) shows the separation of the printed or written lines on each label. Lastly, a red label with my hand printed lectotype or paralectotype designation is attached to each specimen.

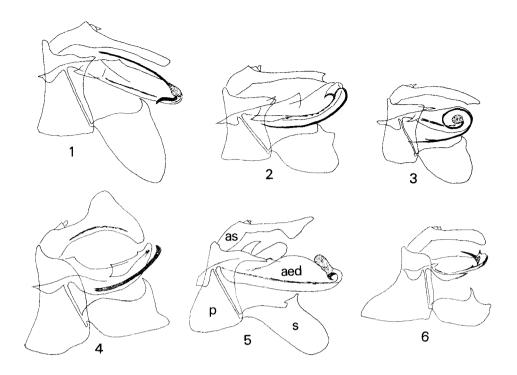
Many species of Flatidae can be identified accurately only by using diagnostic characters of the male genitalia. Therefore, male specimens were dissected and the genitalia illustrated wherever possible. The dissected male was designated as the lectotype when syntypes existed.

This research was made possible by the help of Dr. Tamás VÁSÁRHELYI, to whom I express grateful acknowledgement at this time.

Alphabetical List of Types

conspersa Melichar, 1902, p. 125 (Sephena)

Lectotype 6 - (1) Solomo Archip./ Shortland Isl./C. Ribbe (2) conspersa / det. Melichar (3) typus (red-bordered label). (Dissected) Paralectotype ϱ - Same labels as the lectotype.



Figs 1-6. Left lateral view of male genitalia. 1, Paratella roseoalba Melichar. 2, Sephena rufo-marginata Melichar. 3, Sephena despecta Melichar. 4, Poeciloflata luteofasciata Melichar. 5, Colgar diversa Melichar. 6, Poeciloflata uniformis Melichar. aed = aedeagus, as = anal segment, p = pygofer, s = style

The genitalia of the lectotype are illustrated (Fig. 9). The paralectotype may represent the specimen illustrated by Melichar (Pl. IV, fig. 8). The species belongs to an undescribed genus in the Sephena complex.

cyanea Melichar, 1902, p. 127 (Sephena)

Holotype 6 - (1) Neu Pommern / Kinigunang / C. Ribbe (2) cyanea / det. Melichar (3) typus (red-bordered label). (Dissected)

The genitalia of the holotype are illustrated (Fig. 11). Melichar lapsed in citing a female in the original description. The species belongs to <u>Papuanella</u> Distant, along with about 2 dozen undescribed species in New Guinea. New Combination (Papuanella).

despecta Melichar, 1902, p. 129 (Sephena)

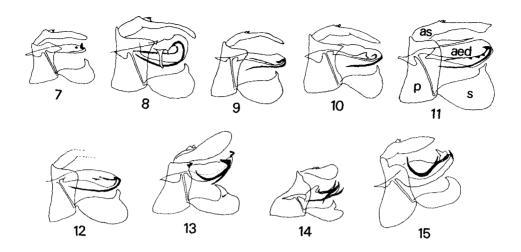
Holotype & - (1) Roon / ex coll. Fruhstorfer (2) despecta / det. Melichar (3) typus (red-bordered label). (Dissected)

The genitalia of the holotype are illustrated (Fig. 3). The species belongs to Papuanella Distant. New combination (= Papuanella).

discoidalis Melichar, 1902, p. 120 (Paratella)

Paralectotype o - (1) N. Guinea / Biró 97 (2) Stephansort / Astrolabe Bai (3) discoidalis / det. Melichar (4) typus (red-bordered label).

This species is a junior synonym of <u>Paratella amata</u> (Walker). The lectotype female is in the Dresden Museum.



Figs 7-15. Left lateral view of male genitalia. 7, Paratella fumaria Melichar, 8, Sephena interstincta Melichar. 9, Sephena conspersa Melichar. 10, Sephena guttifera Melichar. 11, Sephena cyanea Melichar. 12, Sephena scutellata Melichar. 13, Uxantis solennis Melichar. 14, Uxantis illota Melichar. 15, Sanurus dubius Melichar. aed = aedeagus, as = anal segment, p = pygofer, s = style

diversa Melichar, 1902, p. 113 (Colgar)

Lectotype 6 - (1) Batjan / Aug-Septbr. / ex coll Fruhstorfer (2) diversa / det. Melichar (3) typus (red-bordered label). (Dissected)

A male and female specimen were cited in the original description, but only the male here designated as the lectotype was found. The lectotype agrees well with Melichar's illustration (pl. IV, fig. 1). The genitalia of the lectotype (Fig. 5) differ from the genitalia of Poeciloptera ocellifera Walker. This overturns the synonymy established by Distant, 1910, p. 331, and restores diversa as a valid species. New status (= Neomelicharia).

divisa Melichar, 1902, p. 48 (Phyma)

Paralectotype o - (1) Borneo (2) divisa / det. Melichar (3) typus (red-bordered label).

The lectotype male is in the Paris Museum. (= Lawana)

dubius Melichar, 1902, p. 29 (Sanurus)

Lectotype δ - (1) Sumba / Fruhstorfer (2) dubius / det. Melichar (3) typus (red-bordered label). (Dissected) Paralectotype ϱ - Same labels as the lectotype.

The lectotype genitalia are illustrated (Fig. 15). Three paralectotypes (1 6 2 $^\circ$ 0) are in the Paris Museum. The syntypes recorded by Melichar in the Berlin Museum were not found, and are presumed to be lost.

fasciata Melichar, 1902, p. 8 (Acrophaea)

Lectotype $oldsymbol{o}$ - (1) N. Guinea / Biró 1900 (2) Stephansort / Atsrolabe Bay. Paralectotypes 2 $oldsymbol{o}$ - (1) N. Guinea / Biró 96 (2) Erima / Astrolabe B. (3) fasciata / typ. Melichar (4) typus (Redbordered label).

The illustration by Melichar (Pl. IV, fig. 4) may be the specimen selected as the lectotype. The illustration is poorly rendered, but the two dark fasciae across the tegmen enable recognition of the species. Melichar apparently lapsed in citing a male in the original description as only three syntype females were found. The Metcalf Catalog, 1957, erred in citing "Loyalty Islands" as this locality was not given by Melichar in the original description.

fumaria Melichar, 1902, p. 122 (Paratella)

Lectotype 6 - (1) Australia / Biró 1900 (2) N. S. Wales / Parramatta (3) fumaria / det. Melichar (4) typus (red-bordered label). (Dissected)

The lectotype genitalia are illustrated (Fig. 7). The genitalia preparation was lost accidentylly after being drawn. Paralectotypes (2 \circ) are in the Paris Museum. This species is the same as Paratella modesta Melichar, and is designated as the junior synonym. It belongs to an undescribed genus in the Sephena complex. New synonym.

guttifera Melichar, 1902, p. 126 (Sephena)

Holotype o - (1) Roon / ex. coll. Fruhstorfer (2) guttifera / det. Melichar (3) typus (red-bordered label).

The holotype was illustrated by Melichar (Pl. IV, fig. 5). I believe that the holotype is properly associated with a male specimen from Nabire, S. Geelvink Bay, New Guinea, collected by Gressitt and in the Bishop Museum. The genitalia are illustrated (Fig. 10). The species belongs to an undescribed genus in the Sephena complex.

illota Melichar, 1902, p. 165 (Uxantis)

Holotype ϕ - (1) Roon / ex coll. Fruhstorfer (2) illota Mel / det. Melichar (3) typus (red-bordered label).

I believe that the holotype is properly associated with a male specimen from Amboina collected by Muir and in the Bishop Museum. The genitalia are illustrated (Fig. 14).

indicata Melichar, 1902, p. 113 (Colgar)

Lectotype o - (1) Batjan / Aug-Septbr / ex coll Fruhstorfer (2) indicata / det. Melichar (3) typus (red-bordered label).

The syntype (presumably a male) recorded in the Brussels Museum was not found. I consider indicata to be a junior synonym of <u>Colgar diversa</u> (above) because the lectotypes appear to be the same and the locality labels are identical. New synonymy (= Neomelicharia).

infixa Melichar, 1901, p. 227 (Bythopsyrna)

Holotype o - (1) Borneo / Xantus (2) infixa / det. Melichar (3) typus (red-bordered label).

The anal segment (wax plate) of the holotype is missing. The tegminal markings superficially resemble those of some species of <u>Bythopsyrna</u>. This may have led to erroneous placement of the species in that genus. However, the presence of two lateral spines on the hind tibiae, along with other characters, indicates that the species belongs to an undescribed genus.

interstincta Melichar, 1902, p. 126 (Sephena)

Lectotype 6 - (1) N. Guinea / Biró 96 (2) Seleo / Berlinhaf (3) interstincta / det. Melichar (4) typus (red-bordered label). (Dissected) Paralectotype 9 - Same labels as the lectotype.

The lectotype genitalia are illustrated (Fig. 8). This species belongs to an undescribed genus in the Sephena complex.

lurida Melichar, 1902, p. 128 (Sephena)

The syntype specimen recorded by Melichar from the Budapest Museum was not found. A male specimen fitting the description and bearing the exact label data as originally described was found at the Brussels Museum.

luteofasciata Melichar, 1901, p. 236 (Poeciloflata viridana var.)

Holotype 6 - (1) Samanga / S. Celebes / Nov 1895 / H. Fruhstorfer (2) Helena var / luteofasciata / det. Melichar (3) typus (red-bordered label). (Dissected)

The genitalia of the holotype are illustrated (Fig. 4). The apical cross bands of the tegmen are faintly discernible, but are the same banding pattern as <u>modesta</u>. No differences in genitalia were found, and the species is considered to be a junior synonym of <u>Poeciloflata modesta</u> (Donovan). New Synonymy.

maculatum Melichar, 1902, p. 2 (Phlebopterum)

Holotype Q - (1) Nord Celebes / Toli-Toli / Nov.-Dez. 1895 / H. Fruhstorfer (2) maculatum / det. Melichar (3) typus (red-bordered label).

The holotype was illustrated by Melichar (Pl. IV, fig. 4). The species was placed in <u>Sephena</u> by Melichar erroneously, apparently being misled by a superficial resemblance of the tegmina. However, the presence of two posttibial spines and other characters excludes the species from the <u>Sephena</u> complex of genera. The species appears to belong in an undescribed genus near Siscia.

miniata Melichar, 1902, p. 120 (Paratella)

Paralectotype o - (1) N. Guinea / Bir6 97 (2) Stephansort / Astrolabe Bai (3) miniata / det. Melichar (4) typus (red-bordered label).

The lectotype female is in the Dresden Museum. This species is a junior synonym of Paratella amata (Walker).

optata Melichar, 1902, p. 49 (Phyma)

Paralectotype o - (1) Sumatra / Deli / ex coll. Fruhstorfer (2) optata / det. Melichar (3) typus (red-bordered label).

The lectotype male is in the Paris Museum. (= Lawana)

reversa Melichar, 1902, p. 164 (Uxantis)

Lectotype $oldsymbol{o}$ - (1) Singapore / Biró 1898 (2) reversa / det. Melichar (3) typus (red-bordered label) Paralectotype $oldsymbol{o}$ - Same labels as the lectotype.

The lectotype apparently is the specimen illustrated by Melichar (Pl. VII, fig. 21). The male syntype cited by Melichar in the original description was not located in the Budapest Museum. roseoalba Melichar, 1902, p. 119 (Paratella)

Lectotype δ - (1) Roon / ex coll. Fruhstorfer (2) roseoalba / det. Melichar (3) typus (red-bordered label). (Dissected) Paralectotype ϱ - Same labels as the lectotype.

The lectotype genitalia are illustrated (Fig. 1). Paralectotypes are in the Brussels, Genova and Vienna Museums. The species is a junior synonym of <u>Paratella decolor</u> (Walker). New synonymy.

rufomarginata Melichar, 1902, p. 129 (Sephena)

Syntype 6 - (1) N. Guinea / Bir6 - 97 (2) Stephansort / Astrolabe Bai (3) rufomarginata / det. Melichar (4) typus (red-bordered label). (Dissected)

The illustration of the syntype genitalia (Fig. 2) represents an undescribed species in <u>Papua-nella</u> Distant. The lectotype male in the Dresden Museum is different from this species. Misidentified.

scutellata Melichar, 1902, p. 125 (Sephena)

Lectotype q - (1) N. Guinea / Biró 96 (2) Tamara / Berlinhafen (3) scutellata / det. Melichar (4) typus (red-bordered label). Paralectotype 6 - (1) N. Guinea / Biró 1901 (2) Friedrich - / Wilhhafen (3) scutellata. (Dissected)

The male and female specimens cited by Melichar in the original description are probably represented by the lectotype and paralectotype. It appears that Melichar lapsed in citing only one locality. The genitalia of the paralectotype are illustrated (Fig. 12). The lectotype was used for Melichar's illustration (Pl. IV, fig. 6).

similata Melichar, 1902, p. 116 (Colgar)

Holotype o - (1) N. Guinea / Biró 96 (2) Erima / Astrolabe B. (3) similata / det. Melichar (4) typus (red-bordered label).

The holotype is conspecifix with <u>bistriguttata</u> Stal, and is here designated as the junior synonym. New synonymy (= Neocromna)

solennis Melichar, 1902, p. 164 (Uxantis)

Holotype 6 - (1) S. Celebes / Bua-Kraeng / 5000 Febr. 1896 / H. Fruhstorfer (2) solennis M. / det. Melichar (3) typus (red-bordered label). (Dissected)

The genitalia of the holotype are illustrated (Fig. 13).

surrecta Melichar, 1902, p. 59 (Cromna)

Lectotype o - (1) N. Guinea / Biró 96 (2) Erima / Astrolabe B. (3) surrecta / det. Melichar (4) typus (red-bordered label).

The syntype recorded from Roon in the original description was not found in either the Dresden or Budapest Museum. (= Colgar)

uniformis Melichar, 1902, p. 236 (Poeciloflata)

Lectotype 6 - (1) Borneo / Kudat (2) Bir6 '98 (3) uniformis / det. Melichar (4) typus (red-bordered label). (Dissected). Paralectotypes 2 of 1 (no abdomen) - Same labels as the lectotype. Paralectotypes 2 of 1 of - (1) Nord-Celebes / Toli-Toli Nov.-Dez. 1895 / H. Fruhstorfer (2) uniformis / det. Melichar (3) typus (red-bordered label).

The lectotype genitalia are illustrated (Fig. 6). The species belongs to an undescribed genus.

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Author's address: Dr. J. T. MEDLER
Bernice P. Bishop Museum
Honolulu
Hawaii 96819
U.S.A.