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A CATALOGUE OF THE CANACIDAE HOUSED IN THE DIPTERA COLLECTION  
OF THE NATURAL HISTORY MUSEUM OF VENICE (ITALY)  
(DIPTERA, BRACHYCERA, CARNOIDEA)

**Riassunto.** *Catalogo dei Canacidae conservati nelle collezioni ditterologiche del Museo di Storia Naturale di Venezia, Italia (Diptera, Brachycera, Carnoidea).*

È fornito il catalogo dei ditteri Canacidae conservati nella collezione ditterologica del Museo di Storia Naturale di Venezia e in quella di Lorenzo Munari. Alcune specie di particolare interesse sono anche brevemente commentate.

**Summary.** A catalogue of the canacid flies housed in the Diptera Collection of the Natural History Museum, Venice and in Lorenzo Munari's Collection is provided. Some particularly interesting species are shortly discussed.

**Keywords:** Diptera, Canacidae, Diptera Collection, Natural History Museum, Venice (Italy), catalogue of species.

**Reference:** Munari L., Bramuzzo S., 2018. A catalogue of the Canacidae housed in the Diptera collection of the Natural History Museum of Venice (Italy) (Diptera, Brachycera, Carnoidea). *Bollettino del Museo di Storia Naturale di Venezia*, 69: 27-42.

## INTRODUCTION

This paper provides a partially annotated catalogue of the collection of Canacidae housed in the Natural History Museum, Venice (MSNVE), also including the senior author's species-richest collection, which is temporarily housed in his private study, while being owned by the MSNVE. The material is made up of species from throughout the world, also including holotypes and many paratypes. In the above-mentioned collections the subfamily Canacinae is woefully poorly represented. Most of the specimens belonging to this subfamily, preserved in the Venice museum and previously identified by Canzoneri and by Mathis, are listed here uncritically, that is, without further verification. The other subfamilies are much richer in genera and species, especially the subfamilies Apetaeninae, Horaismopterinae, and Tethininae (most of them in the senior author's collection).

We have elected to compile this inventory as a partially annotated catalogue, that is, including concise remarks only for those taxa that we have thought to be of particular interest, or that are represented in collection by specimens exhibiting peculiarities that need some clarification.

## MATERIALS AND METHODS

Most of the specimens are double mounted, micropinned in a plastic block, or glued to the tip of a card point. A small number of identified specimens are also stored in ethanol (70%) and deposited mainly in the senior author's collection. The records for the specimens in alcohol are reported with the capital letter [A] in square brackets, followed by the vial identification code, e.g. [A: T001].

As for the various synonyms and other significant taxonomical and nomenclatural issues, the reader is

referred to MUNARI & MATHIS (2010). Otherwise, type specimens of synonymized nominal taxa are listed under the taxon to which they are currently assigned; for all type specimens the original combination is mentioned when different from the current one. In this connection, for more detailed information concerning Collin's types of *Tethina* deposited in MSNVE (COLLIN, 1966), the reader is referred to MUNARI (2006), who downgraded most of Collin's new species to junior synonyms.

Label data is usually not verbatim, but rather summarised and standardised to avoid redundancy and format inconsistency. Therefore, the label data format used here is mainly as follows:

Genus, species, authorship, date of publication.

Country (in bold, under the respective zoogeographical region of belonging) - administrative Region/County - Locality (the main localities are always provided while the local toponyms are often, but not always, omitted) - collecting month (in a few cases the complete date is reported, see further) - number of specimens with the relative (cumulative) male/female sexes for each sample.

In this catalogue, Italy is dealt with in a more detailed way, with the sequence of the administrative Regions arranged mainly with north-south and west-east orientations. The Italian Provinces are in round brackets under each Region and before the collecting place name. As for the localities of the Arab and North African countries, all the diacritical marks from transliterated Arabic are omitted in the text. Additionally, the collector names and other scarcely significant information are also omitted for all the species recorded in the present catalogue. Annotations by the authors are in square brackets.

Holotypes (deposited in MSNVE) and paratypes (also including possible allotypes) are marked by capital letters between square brackets as follows: [HT sex, type inventory #] for the holotypes, and [PT] for

the paratypes, followed by their respective label data in a mostly epitomised form, that is, excluding both the collection dates and the collector names. Indeed, the format we have adopted herein for the types strictly follows that proposed for the holotypes in the World Catalog of the family (MUNARI and MATHIS, 2010) and that published by RATTI (2000) for both the holotypes and paratypes. Therefore, the above data for the type material as a whole, be it made up of holo- or paratypes, have been omitted.

The sequence of subfamilies, genera, and species lists the taxa in alphabetical order.

The material presented in this catalogue constitutes the bulk of the collections, that is, all the identified material (as for the unidentified material, see further). However, the amount of specimens may be subject to slight future fluctuations, mainly due to the exchange of materials with other institutions and/or to new acquisitions (additions of specimens and species). Therefore, the situation of the collections must be understood here up to the end of September 2018, which is the submission date of the manuscript.

For a few very common species, such as *Tethina albosetulosa* (Strobl, 1900), *T. flavigenis* (Hendel, 1934), *T. grisea* (Fallén, 1823), *T. pallipes* (Loew, 1865), and *T. strobliana* (Mercier, 1923), label data of the vast majority of specimens from Italy was also previously recorded verbatim by MUNARI & VANIN (2007). For much more detailed information about those collection records, interested readers are, therefore, referred to that paper. Concerning most of the tropical species, many records may have previously been disseminated in numerous other senior author's papers.

Large numbers of specimens from the Mediterranean subregion and adjacent eremic/suberic areas were collected by the late Prof. Antonio Giordani Soika and by his technician Mr. Mario Levrini, the latter having been particularly active in collecting flies from several different habitats of north-eastern Italy. The specimens were netted by using the sweeping net or by an autocatcher net ("in aeroplanton", according to Giordani Soika), in a time-span ranging mostly from the fifties to the mid-eighties. Many of these specimens are beach flies represented by very common psammophilous species of *Tethina* (prevalently *T. albosetulosa*) that still lie in the MSNVE collection as unworked material.

In the above-mentioned collections there are numerous specimens labelled by Giordani Soika only with a typewritten number, or with a preprinted label that reads "Laguna Veneta, Ricerche lagunari 1944-48, Staz. terr. N ... Giordani Soika", to which a handwritten number had been added. Full data for such numeric codes are contained in a list deposited at MSNVE. In the present catalogue, the locality for such specimens was retrieved and given between square brackets, followed by the actual data presents on the label.

In the material dealt with here, the collection days as well as the years are usually omitted for all the common species inhabiting continental seashores or vast archipelagos, as they would be scarcely informative and out of the aim of this paper. However, the complete date referring to rarely collected species (the so-called "rare" species) and to all specimens collected on small, remote oceanic islands is reported. In fact, for these insular faunas we are unable to know if a given species, collected in one or few specimens several decades ago on a small oceanic island, still occurs there, or if it has become extinct in a short time, after an initial attempt at colonization (MUNARI, 2015). The fragility of the faunal composition on small islands is generally due to combined dynamics of colonization and extinction that take place in such limited ecosystems (MINELLI, 2012). For this reason, we consider it appropriate to quote the complete date of capture for such specimens.

#### THE COLLECTION

##### Subfamily APETAENINAE

**Remarks.** MUNARI (2007, 2008) exhaustively reviewed this subfamily of endemic subantarctic beach flies inhabiting cold and windy oceanic rocky shores. The microhabitats where the Apetaeninae live are characterised mainly by decaying substrates in penguin nests. However, these flies can be commonly found also on guano of seabirds and among piles of stranded kelp.

*Apetaenus (Apetaenus) litoralis litoralis* Eaton, 1875  
Sub-Antarctic Indian Ocean: Crozet Islands - Île aux Cochons, 20.ii.1974, 7 ♂♀; **Kerguelen Islands** - Pén[insule] J. Dark, Port Hopeful, ii.1939, 1 ♂; Pén[insule] Hoche, Port Louison, ii.1939, 1 ♂; Île Dupont, ii.1939, 1 ♀.

*Apetaenus (Apetaenus) litoralis marionensis* Munari, 2008  
Sub-Antarctic Indian Ocean: Marion Island - [PT] Baie Jeannel, 1 ♂; [no locality], i-ii.1952, 2 ♂♀.

*Apetaenus (Apetaenus) litoralis watsoni* Hardy, 1962  
Australasian/Oceanian: Macquarie Islands - [PT] Hurd Point, 4 ♂♀; [PT] North Head, 1 ♀; [PT] Nuggets Point, 1 ♂.

*Apetaenus (Listriomastax) enderleini* Munari, 2007  
Sub-Antarctic Indian Ocean: Crozet Island - La Pérouse, 6.iii.2001, 6 ♂♀; Jardin Japonaise, 20.x.2001, 4 ♀; Île aux Cochons, 15.ii., 25.ii.1974, 4 ♂♀; [A: T017, as *Listriomastax litorea* Enderlein], La Pérouse, 6.iii.2001, 8 ♂♀; [A: T018, as *Listriomastax litorea* Enderlein], Jardin Japonaise, 20.x.2001, 12 ♂♀.

**Remarks.** As far as the Latin nomenclature for this species is concerned, MUNARI (2007) proposed the

following changes:

“*Apetaenus* Eaton, 1875 [masculine gender]

- *Macrocanace* Tonnoir & Malloch, 1926; (MATHIS & SASAKAWA, 1989, synonymy)
- *Listriomastax* Enderlein, 1909; (HENNIG, 1971, synonymy)

Accordingly, the type species *Listriomastax litorea* Enderlein, 1909 (by original designation) changes its name as follows: *Apetaenus enderleini*, *nomen novum* for *Apetaenus litoreus* (Enderlein, 1909), [from *litorea* to *litoreus*, relating to the masculine gender of *Apetaenus*]; *nomen preoccupatum* by *Apetaenus littoreus* (Hutton, 1902), [ICZN, 1999 (art. 58 and 58.7)]”.

*Apetaenus (Macrocanace) australis* (Hutton, 1902)

**Australasian/Oceanian: Antipodes Islands** - Reef Point, 31.i., 8.ii.1969, 2 ♂; Stella Bay, 16.ii.1969, 2 ♂♀. **Auckland Islands** - Adams Island, 20.i.1966, 1 ♀; Camp Cave, 8.ii.1973, 1 ♀. **Campbell Islands** - Beeman Camp, 11–14.i.1969, 2 ♂♀; Tucker Cove, 10.i.1969, 1 ♂. **Snares Islands** - Seal Cove, 26.xi.1976, 1 ♂.

*Apetaenus (Macrocanace) littoreus* (Hutton, 1902)

**Australasian/Oceanian: Antipodes Islands** - Stella Bay, 12.ii.1969, 3 ♂♀; Reef Point, 28.ii.1969, 1 ♀; **Bounty Island** - [A: T019] Proclamation Island, 23.xi.2004, 13 ♂♀.

#### Subfamily CANACINAE

*Allocanace gibba* Munari, 2018

**Oriental: Singapore** - [PT] Pulau Semakau, mangroves, Malaise trap, 01°12'23.9"N - 103°45'37.6"E, 1 ♀.

**Remarks.** *Allocanace* Munari, 2018 is the only canacina fly (tentatively assigned to the subtribe Canacina) occurring in the Oriental Region, the genus *Canace* Haliday in Curtis, 1837 being recorded only in the West Palaearctic and West Afrotropical (north of the Equator) Regions.

*Canace actites* Mathis, 1982

**Palaearctic: France** - Marseilles, Endoume, xi, 1 ♂. **Italy** - Veneto: (Venezia), Laguna Veneta, Pellestrina, viii, 1 ♂; (Venezia), Motte di Volpego, ix, 1 ♀; (Venezia), Pellestrina (Murazzi), viii, 2 ♂♀; Emilia Romagna: (Ferrara), Volano, x, 6 ♂♀; Marche: (Fermo), Marina Palmense, vii, 46 ♂♀; Abruzzo: (Teramo), Martinsicuro, viii, 1 ♂; Lazio: (Roma), Fiumicino, iv, 2 ♂; Campania: (Napoli), Isola di Procida, ix, 1 ♀; (Napoli), isola di Vivara, ix, 2 ♂♀; Puglia: (Foggia), Gargano, Rodi [Garganico], v, 2 ♀; Sicilia: (Palermo), Romagnolo, viii, 1 ?sex. **Portugal** - Madeira Island: Faial, iv, 2 ♂ plus 1 ?sex; Funchal, iv, 2 ♀.

*Canace nasica* (Haliday, 1839)

**Palaearctic: Italy** - Friuli VG: (Trieste), fiume Timavo, vi, 4 ♂♀; Veneto: Laguna di Venezia, viii, 3 ♂♀; (Venezia), Venezia, viii, 1 ♀; (Venezia) Venezia, Canal Grande, ix-x, 28 ♂♀; Toscana: (Livorno), Isola di Capraia, viii, 1 ♀; Abruzzo: (Chieti), Vasto Marina, iv, 12 ♂♀; Lazio: (Roma), Anzio, v, 1 ♀ (cf., headless specimen); Campania: (Napoli), Isola di Procida, ix, 4 ♂♀; (Napoli), Isola di Vivara, ix, 3 ♂♀; Sicilia: (Palermo), Romagnolo, viii, 2 ♂♀; (Trapani), Pantelleria, vii, 1 ♂. **Lebanon** - Beirut, iv, 1 ♀. **Portugal** - Açores [Azores], Flores, Ribeira d'Alem de Fazenda, iv, 1 ♂; Açores [Azores], São Miguel, Ribeira des tres Voltas, near Ribeira Chã, iii, 3 ♂♀; Açores [Azores], São Miguel, São Populo, 7,5 km E of Ponta Delgada, 1 ♂; Algarve, Albufeira, ii, 2 ♂♀; Arcozelo, V.N. Gaia, iv-xi, 7 ♂♀; Faro District, Aljezur, Carrapateira, vi, 1 ♂; Madeira Island, Funchal, Rib. Seco, 2 ♀ plus 2 ?sex (abdomenless); Madeira Island, Porto Santo, x, 3 ♂♀; Madeira Island, Praia do Faial, x, 1 ♂; Miramar, V.N. Gaia, v, 1 ♂ [with Laboulbeniales]; Parede (near Lisbon), vi, 5 ♂♀. **Spain** - Canary Islands, Tenerife, Puerto de la Cruz, ii-iii, 2 ♂♀; Canary Islands, Lanzarote, Playa Puerto del Carmen, x, 1 ♂.

*Canace* cf. *nasica* (Haliday, 1839) / cf. *rossii* Canzoneri, 1982

**Afrotropical: Senegal** - Dakar N'gor, vi, 11 ♂.

**Remarks.** These two species are very closely related and are distinguished mainly by the morphology of the posterior surstylar process. Therefore, their possible sympatric occurrence in West Africa, north of the Equator, needs verification. The morphological differences of the above-mentioned surstylar processes between the two species are strikingly slight and might be attributable to intraspecific clinal variation. In this connection, MATHIS & FREIDBERG (1991) stated that, albeit the differences are so slight, they would seem to be consistent. Therefore, these authors have elected to recognize the variation between northern (as well as southern (LM)) European and West African (Sierra Leone and Cameroon) populations as interspecific, awaiting to examine better sampling from several sites between those rather disjunct geographical areas. This verification is needed in order to test whether the variation is intraspecific, perhaps clinal, or whether the differences they found are consistent and represent independent lineages.

*Canace ophiusae* Munari and Almeida, 2014

**Palaearctic: Portugal** - [HT ♂, #5155] Parede, 38°41'9.179"N, 9°21'18.126"W; [PT] same site as holotype, 7 ♂♀.

*Canace rossii* Canzoneri, 1982

**Afrotropical: Sierra Leone** - [HT ♂, #2988] Western Area, Freetown; [PT] same site as holotype, 5 ♀; same

site as holotype, vi, 5 ♂♀; Western Area, Sussex, iii, v, xii, 43 ♂♀.

Remarks. See above discussion under *C. nasica* / *rossii*.

*Canace salonitana* Strobl, 1900

Palaeartic: **Bulgaria** - Achtopol, x, 7 ♂♀; Varna, south of Galata, vi, 29 ♂♀. **Italy** - Friuli VG: (Trieste), fiume Timavo, vi, 2 ♀; Puglia: (Foggia), Gargano, Rodi [Garganico], v, 1 ♀. **Lebanon** - Beirut, iii, 8 ♂♀. **Turkey** - Karatas, v, 9 ♂♀.

*Canace zvyv* Mathis and Freidberg, 1991

Afrotropical: **Cameroon** – [PT] Limbe, 1 ♀.

*Canace* sp./spp.

Palaeartic: **Italy** – Friuli VG: (Trieste), Palude [swamp] Timavo, vi, 1 ♀; Toscana: (Grosseto), Mt. Argentario, Porto S. Stefano, vii, 1 ♀; Abruzzo: (Chieti), Vasto Marina, iv, 1 ♀.

Remarks. Doubtful specimens that need verification.

*Canaceoides nudatus* (Cresson, 1926)

Nearctic: **United States** - California, Sta. Barbara Co., W of Goleta, iv, 1 ♀.

*Dynomiella stuckenbergi* (Wirth, 1956)

Afrotropical: **Namibia** – [PT, as *Canace stuckenbergi* Wirth; *Dynomiella arenicola* Giordani Soika, 1956, junior synonym] SW Afrika, Walfish Bay [Walvis Bay], 3 ♀.

*Isocanace albiceps* (Malloch, 1925)

Australasian/Oceanian: **Australia** - Woolli, ix, 6 ♂♀.

*Isocanace australis* Mathis, 1982

Afrotropical: **South Africa** – Cape Province, ESE George, Kaaimans River, x, 1 ♂.

*Isocanace briani* Mathis, 1982

Afrotropical: **Seychelles** - Aldabra, Picard, La Gigi, 19-20.iii.1986, 2 ♂♀.

*Isocanace flava* (Canzoneri and Meneghini, 1969)

Afrotropical: **Democratic Republic of the Congo** (Haut Zaire) – [PT, as *Canace flava* Canzoneri and Meneghini], Congo Belge, P.N.A. [Albert National Park], May ya Moto [May-ya-moto], 20 ♂♀ plus 1 paratype lost (only micropin).

*Isocanace freidbergi* Mathis, 1999

Afrotropical: **Tanzania** - Dar Es Salaam, xi, 6 ♂♀.

*Nocticanace affinis* Munari, 2008

Afrotropical: **Oman** - [PT] Dhofar, beach near Mirbat, 1 ♀; [PT] Muscat, Haramel, 1 ♂. **United Arab Emirates** - Khor Fakkan, iii, 3 ♂♀.

*Nocticanace flavipalpis* Mathis and Wirth, 1979

Afrotropical: **Seychelles** – Cosmoledo, Menai Island,

26.iii.1986, 3 ♂♀.

*Nocticanace kraussi* Munari, 2010

Australasian/Oceanian: **Cook Islands** - [PT] Aitutaki, xii.1977, 1 ♂.

*Nocticanace mahensis* (Lamb, 1912)

Afrotropical: **Seychelles** – Mahé, Machabee, iv, 5 ♂♀; Mahé, Point du Sud, ii, 15 ♂♀.

Oriental: **Christmas Island** – [no locality], i-iv.1933, 1 ♂.

*Nocticanace peculiaris* Malloch, 1933

Australasian/Oceanian: **Marquesas** – [PT] Nuka-hiva [Nuku Hiva], 1 ♀.

*Nocticanace sinaiensis* Mathis, 1982

Palaeartic: **Israel** – [PT] Sinai, Eilat, 1 ♂.

*Nocticanace taprobane* Mathis, 1982

Afrotropical: **Sierra Leone** - Western Area, Sussex, i-iii, 158 ♂♀.

Oriental: **Sri Lanka** – Col[ombo] Dist[riect], Colombo, iv, 4 ♂♀; [PT] Gal. [sic, incorrect abbreviation for Gampaha (not Galle)] Dist[riect], Mirigama, 1 ♂; [PT] Ham[bantota] Dist., Kirinda, 2 ♂.

Remarks. The above records are the only ones so far known for this species. MUNARI (2013) pointed out that such a remarkably disjointed distribution can be tentatively explained by two different preliminary assumptions: first, one of the two populations (i.e. Sierra Leone and Sri Lanka) has accidentally been introduced by anthropical (or avian) transfer into a suitable environment that allowed its probably permanent settlement; second, this species is widely distributed throughout the eastern and western coasts of the Afrotropical Region, but it has not been collected or recorded yet outside of Sierra Leone.

*Nocticanace* sp.

Neotropical: **Chile** - Coquimbo SW, 5.4 km N of Los Vilos, N of Laguna Conchali, xi, 1 ♀.

Remarks. The specimen has 3 large, dorsoclinate genal setae, as well as several small spinulae on the cerci. See remarks under *chilensis* in WIRTH (1954).

*Procanace canzonerii* Mathis and Freidberg, 1991

Afrotropical: **Cameroon** – [PT] Limbe, 2 ♂♀.

*Procanace dianneae* Mathis, 1988

Nearctic: **United States** – [PT] Virginia, Westmoreland Co., Potomac River, 1 ♂.

*Procanace grisescens* Hendel, 1913

Afrotropical: **Kenya** - [as *Procanace fluvialis* Canzoneri, 1987, junior synonym] Ukunda, vii, 2 ♀. **Sierra Leone** - [also as *Procanace fluvialis* Canzoneri, 1987, junior synonym] Western Area, Freetown, vi, 1 ♂; Bathurst Falls, x, 8 ♂♀; Tiwai

Island, xi, 5 ♂♀. **Sudan** - [HT ♂, #2929, *Procanace fluvialis* Canzoneri, 1987, junior synonym] Khartoum, Bari [a misspelling for “bahr”, which means “river” in the Sudanese language. Indeed, the specimen was collected on the banks of the White Nile (G. Rallo pers. comm.); [PT] Nile River, Omdurman, 1 ♀.

*Procanace* cf. *townesi* Wirth, 1951

Oriental: **Singapore** - Pulau Semakau, x, 1 ♂.

*Procanace* sp. *griscens*-group

Oriental: **Borneo** - Sarawak, Bako Nat. Park, i, 1 ♂.

Remarks. The specimen does not belong to *P. townesi* Wirth, 1951. The terminalia of ♂ in caudal view are similar to *P. cogani* Mathis, 1988 ones, but the specimen does not belong to the latter species.

*Xanthocanace capensis* Wirth, 1956

Afrotropical: **Sierra Leone** - Western Area, Sussex, 14.iii.1993, 2 ♀ (possibly a misidentification).

*Xanthocanace hamifer* Munari, 2008

Afrotropical: **United Arab Emirates** - [PT] Qurrayah, 3 ♂.

*Xanthocanace kaplanorum* Mathis and Freidberg, 1982

Afrotropical: **United Arab Emirates** - N of Ajman, ix, 1 ♂; Ajman, ii, 2 ♂.

Palaeartic: **Bahrain** - [no locality], ix, 2 ♂♀. **Qatar** - Al Khor, iii, 1 ♂; Al Shamal, Al Zubarah, iii, 4 ♂♀; Madinat Al Shamal, Fuwairit, iii, 4 ♂♀.

*Xanthocanace ranula* (Loew, 1874)

Palaeartic: **France** - Arcachon, vi, 1 ?sex; Boucau, Adour River, vi, 13 ♂♀; Lac d'Hossegor, vi, 6 ♂♀; Le Croisic, vi, 1 ?sex. **Germany** - Borkum, [no date], 1 ♀. **Great Britain** - England, [Hesse], Harwick, viii, 1 ♀. **Morocco** - 3 km NE of Azemmour, iii, 2 ♂; 3.5 km WNW of Bricheh, iii, 1 ♂; 3.8 km WSW of El Khaoucha, iii, 2 ♂♀; Fedala [Bay], Oued Nefifikh, vi, 13 ♂♀ [other specimens found accidentally detached from the card-points are stored into an Eppendorf vial]; Larache, Oued Loukos, iii, 1 ♀; 40 km S of Larache, iv, 2 ♂♀. **Portugal** - Vau, Óbidos, ix-x, 9 ♂♀. **Spain** - Fara, iv, 2 ♂♀.

*Xanthocanace sabroskyi* Mathis and Freidberg, 1982

Afrotropical: **Oman** - Shinas, vi, 1 ♂. **United Arab Emirates** - N of Ajman, ix-x, 1 ♀; Fujairah, ii, 1 ♂; Khor Kalba, iii, 3 ♂♀; Qurrayah, iii, 5 ♂♀.

Palaeartic: **Israel** - [PT] Sinai, Nabek, 1 ♂ (strongly damaged).

Remarks. This species is very closely related to *X. kaplanorum*. MUNARI (2010) questioned about the validity of these two species, supposing their possible conspecificity. As for the paratype from Israel, the identification label erroneously reads: “Paratype, *Nocticanace sabroskyi* Mathis and Freidberg”.

*Xanthocanace zeylanica* Delfinado, 1975

Oriental: **Sri Lanka** - Trincomalee [District], Uppuweli, v, 4 ♂.

Canacinae, unidentified genus and species

Palaeartic: **Morocco** - Oum er-Rbia, ENE of Slamena, iii, 1 ♀; Salines W of Dehamena, iii, 5 ♀ plus a specimen with abdomen lacking.

Remarks. Near *Isocanace* Mathis, 1982 and *Dynomiella* Giordani Soika, 1956, but with chaetotactic characters transitional between the two genera.

#### Subfamily HORAISMOPTERINAE

*Horaismoptera hennigi* Sabrosky, 1978

Oriental: **Sri Lanka** - [PT] Mannar District, Olaithoduvai, 10 mi NW Mannar, 6 ♂♀.

*Horaismoptera microphthalma* (Bezzi, 1908)

Afrotropical: **Namibia** - Lüderitz, Agate Beach, ix, 3 ♂♀; Swakop River, mouth near Swakopmund, viii, 3 ♂♀; Walvis Bay, ix, 1 ♀.

*Horaismoptera vulpina* Hendel, 1907

Palaeartic: **Qatar** - Umm Said, iii, 5 ♂♀. **Saudi Arabia** - Jazan, Alshogaiek, ii, 6 ♂♀.

Afrotropical: **Kenya** - Diani Beach, vii, 3 ♂♀; 60 km south of Mombasa, v, 3 ♀; Takaungu Beach (north of Mombasa), viii, 3 ♂♀. **Madagascar** - Fort Dauphin, Libanona Beach, iv, 2 ♂♀. **Oman** - Barr al Hikman, xi, 9 ♂♀. **Tanzania** - Dar es Salaam, xi, 8 ♂♀.

*Tethinosoma fulvifrons* (Hutton, 1901)

Australasian/Oceanian: **New Zealand** - Ocean View, near Dunedin, ii, 1 ♂; Otago Peninsula, Allan's Beach, i, 4 ♂♀.

#### Subfamily PELOMYIINAE

*Masoniella richardsi* Vockeroth, 1995

Nearctic: **United States** - Nevada, Clark Co., Las Vegas Wash, iv, 4 ♂♀.

Remarks. VOCKEROTH (1987) recorded these new genus and new species as *nomina nuda*. Later, he formally described the two taxa (VOCKEROTH, 1995).

?*Masoniella* sp.

Neotropical: **Chile** - Coquimbo SW, 5.4 km N of Los Vilos, N of Laguna Conchali, xi, 1 ♀.

Remarks. Anterior frontorbital seta minute and thin; gena/eye ratio = 0.23; shiny chitinous stripe of peristomal margin poorly developed; no ctenidial comb of forefemur. The assignment of this female to the genus *Masoniella* Vockeroth remains doubtful.

*Neopelomyia rostrata* (Hendel, 1911)

**Nearctic:** **Canada** - British Columbia, Bowen Island, Howe, v, 1 ♀; British Columbia, Queen Charlotte Island, Queen Charlotte City, vii, 2 ♂♀; British Columbia, Vancouver, vi, 1 ♂. **United States** - California, Asilomar, ix, 1 ?♀; California, Monterey, ix, 2 ♂

*Pelomyia aurantifrons* Foster and Mathis, 2003

**Neotropical:** **Peru** - Cuzco, Urubamba, 2,900 m, viii, 1 ♀.

*Pelomyia avittata* Munari, 2013

**Neotropical:** **Chile** - [HT ♂, #5153] Coquimbo SW: 5.4 km N of Los Vilos, N of Laguna Conchali, 31°51'38"S, 71°30'38"W; [PT] same site as holotype, 7 ♂♀; [PT] Coquimbo SW: Los Vilos beach, N of the town, 1 ♂.

*Pelomyia coronata* Loew, 1866

**Nearctic:** **United States** - California, Inyo Co., Death Valley Junction, ix, 1 ♂; California, Quail Springs, x, 1 ♂; California, San Bernardino, Victorville, v, 3 ♂♀; California, Thousand Palms, iii-iv, 3 ♂♀; Oregon, Curry Co., Cape Sebastian, vi, 2 ♂.

*Pelomyia fuegina* Munari, 2010

**Neotropical:** **Argentina** - [PT] Tierra del Fuego, 36 [collecting site]: Estancia Viamonte, Auricosta, 3 ♀.

*Pelomyia irwini*, Foster and Mathis, 2003

**Neotropical:** **Chile** - Coquimbo SW, Los Vilos beach, xi, 2 ♂♀; Coquimbo E, Rd D597, N of Pulpica Bajo, 5 km E of Monte Patria, xii, 1 ♀.

*Pelomyia occidentalis* Williston, 1893

**Nearctic:** **United States** - California, Obispo Co., San Luis, ix, 1 ♂; California, Thousand Palms, Willis Palms Oases, iv, 2 ♂♀.

**Palaeartic:** **Czech Republic** - Praha-Holešovice, vii, x, 3 ♂♀. **Germany** - Niedersachsen, LDK Helmstedt, v-vi, 4 ♂♀; Niedersachsen, Wendland, vi-vii, 2 ♂; Sachsen-Anhalt, Börde, Loitsche, viii, 1 ♂; Sachsen-Anhalt, Salzlandkreis, Hecklingen, viii, 1 ♂. **Switzerland** - Canton Ticino, Gordola/Bolle, vii, 1 ♂.

*Pelomyia peruviana* Malloch, 1934

**Neotropical:** **Peru** - Arequipa, 2,500 m, vii, 4 ♂♀.

*Pelomyia trivittata* Malloch, 1934

**Neotropical:** **Chile** - Coquimbo E, Rd D597, N of Pulpica Bajo, 5 km E of Monte Patria, xii, 1 ♀.

*Pelomyia undulata* Foster and Mathis, 2003

**Neotropical:** **Peru** - Cuzco, Urubamba, 2,900 m, viii, 1 ♂.

*Pelomyiella cinerella* (Haliday, 1837)

**Palaeartic:** **Great Britain** - Scotland, Torrisdale

Beach, W of Thurso, vii, 1 ♀. **Sweden** - Öland, Halltorps hage, vi, 1 ♂; Kullaberg, vi, 1 ♂.

*Pelomyiella hungarica* (Czerny, 1928)

**Palaeartic:** **Hungary** - Dömsöd, Apajpuszta, v, 3 ♂♀; Hortobágy N.P., v, 1 ♀. **Slovakia** - Šturovo, Kamenín, v, 3 ♂♀.

*Pelomyiella mallochi* (Sturtevant, 1923)

**Afrotropical:** **Kenya** - Lake Naivasha, 14.vii.1979, 1 ♀, (cf.).

**Nearctic:** **Canada** - Ellesmere Island, Eureka, viii, 2 ♂♀; Labrador, Nutak, vii, 1 ♀; Ontario, Northumberland, NW of Trenton, vii, 2 ♂♀; Saskatchewan, Elbow, vi, 1 ♂; Saskatchewan, Saskatoon, vi, ix, 2 ♂♀. **United States** - California, Temecula, vi, 1 ♂; Connecticut, Westport, vii, 3 ♂♀; Massachusetts, Wellfleet, vi, 1 ♂; Oregon, Lake Co., Summerlake, vi, 3 ♂♀.

**Palaeartic:** **Austria** - Neusiedlersee, Zicksee, vi, 3 ♂♀. **Greece** - Kavala, Keramoti, vi, 1 ♀; Tessaloniki, Lake Koroneia, Vassilios, viii, 1 ♂. **Hungary** - Ágasegyháza, vii, 1 ♀; Csévharaszt, viii, 1 ♂. **Italy** - Veneto: (Venezia), Alberoni, iv, 1 ♀; Emilia Romagna: (Ferrara), Comacchio, Lido delle Nazioni, v, 2 ♀; (Ferrara), Volano, vi-viii, 28 ♀; Sardegna: (Oristano), Sinis Peninsula, Cuglieri, Capomannu, vi, 2 ♀. **Romania** - Histria, Lake Sinoe, vi, 1 ♀; Tulcea-Braila, vi, 2 ♀. **Turkey** - Erçek, viii, 5 ♂♀; Istanbul, Kilyos, v, 2 ♂♀.

**Remarks.** The unique female specimen found in Kenya (see above) represents the first-ever record of this primarily New World subfamily for the Afrotropical Region (MUNARI & MATHIS, in press). The genus *Pelomyiella* includes eight species, five of which are recorded from the Palaeartic Region. The distribution of *Pelomyiella mallochi* ranges from North America, through Europe, to Mongolia. This species is suspected to occur in the southern West Palaeartic Region as a primarily parthenogenetic fly, with males found only occasionally in nature.

*Pelomyiella melanderi* (Sturtevant, 1923)

**Nearctic:** **Canada** - British Columbia, Q.C. [Queen Charlotte] Island, Tlell, v, 1 ♀. **United States** - California, Arvin, iii, 1 ♂; California, Death Valley, Saratoga Spring, i, 1 ♂; California, Temecula, vi, 1 ♂; Oregon, Lake Co., Summer Lake, vi, 3 ♂♀.

*Pelomyiella mongolica* Soós, 1978

**Palaeartic:** **Mongolia** - [PT] Südgobi aimak: "Nojon nuruu, Grenzposten Ovot Chuural" (1500 m), 2 ♂♀.

## Subfamily TETHININAE

*Afrotethina aemiliani* Munari, 1986

**Afrotropical:** **Kenya** - [HT ♂, #1783] Diani Beach; [PT] Diani Beach, 6 ♂♀ plus 5 ?sex; Gazi, 60 km S of

Mombasa, v, 4 ♂♀; Mombasa, Yadini Beach, i, 2 ♂♀.  
**Tanzania** - Dar es Salaam, City Beach, xi, 6 ♂♀; Dar es Salaam, Ndege Beach, ix, 3 ♂♀.

*Afrotethina aurisetulosa* (Lamb, 1914)

**Afrotropical: Madagascar** - Fenerive, xii, 1 ♂; Nosy Be, vii, 2 ♂♀; Nosy Tanikely, iv, 1 ♂; NE of Sambava Beach, iv, 1 ♂. **Seychelles** - Aldabra, Grande Terre, iii.1986, 1 ♀; Aldabra, Picard, iii.1986, 5 ♂♀; Aldabra, Middle Island, ii.1968, 2 ♀; Aldabra, South Island, i-iii. 1968, 6 ♂♀.

**Oriental: Chagos** (UK) - Diego Garcia, De Moulin, iv.1971, 1 ♂.

*Afrotethina brevicostata* Munari, 1990

**Afrotropical: Kenya** - Mombasa, Takaungu Beach, viii, 2 ♂♀. **Madagascar** - S of Fort Dauphin Beach, iv, ♂♀. **Seychelles** - [PT] Aldabra, South Island, Anse Cedre, 4 ♂♀; [PT] Aldabra, South Island, Dune Jean-Louis, 2 ♂♀. **Tanzania** - Dar es Salaam, Ndege Beach, ix, 3 ♂♀.

*Afrotethina femoralis* (Munari, 1981)

**Afrotropical: Kenya** - [HT ♂, #2276, as *Pseudorhinoessa femoralis* Munari] Diani Beach; [PT, as *Pseudorhinoessa femoralis* Munari] Diani Beach, 125 ♂♀. **Madagascar** - S of Fort Dauphin Beach, iv, 5 ♂♀; Fort Dauphin, Sainte-Luce, ii, 2 ♀. **South Africa** - Natal, St. Lucia Park, x, 1 ♂; Natal, Umkomaas, xii, 2 ♂.

*Afrotethina kaplanae* Munari, 1994

**Afrotropical: Cameroon** - [PT] Kribi (beach), 1 ♀. **Sierra Leone** - Western Area, Sussex, i, 1 ♂.

*Afrotethina martinezi* Munari, 2005

**Afrotropical: Oman** - Barr al Hikman, xi, 2 ♂♀. **United Arab Emirates** - Abu Dhabi, Ruwais Beach, xii, 2 ♂♀.

**Palaeartic: Qatar** - [PT] Umm Said, seahline, 45 km S of Doha, 1 ♂. **Saudi Arabia** - Jazan, Alshogaiek, ii, 10 ♂♀.

**Remarks.** Qatar and Saudi Arabia represent the only recorded (West) Palaeartic countries for this Afrotropical genus.

*Afrotethina persimilis* Munari, 1991

**Afrotropical: Namibia** - Lüderitz, Agate Beach, ix, 4 ♂♀; Swakopmund, i, 3 ♂♀; Walvis Bay, ix, 4 ♂♀.

*Afrotethina stuckenbergi* Munari, 1990

**Afrotropical: South Africa** - Arniston, Western Cape, x, 2 ♂♀; [PT] Cape Town, Milnerton, 1 ♀; False Bay, E of Muizenburg [Muizenberg], i, 2 ♂♀; [PT] Ysterfontein, Atlantic Coast, Southwest Cape, 2 ♂.

*Dasyrhinoessa adelpha* Munari, 2005

**Afrotropical: United Arab Emirates** - Khor Kalba, iii, 2 ♂♀.

**Oriental: India** - [PT] Goa, Ribander, 5 km E Panjim, 3 ♂♀.

*Dasyrhinoessa bicolor* Munari, 2002

**Australasian/Oceanian: Fiji** - [PT] Mana Island, 1 ♂; [PT] Ovalau Island, 4 km S Levuka, 3 ♂♀.

*Dasyrhinoessa celata* Munari, 2010

**Australasian/Oceanian: Bismarck Islands** - [PT] Dyaul, Sumuna, 1 ♂.

*Dasyrhinoessa ciliata* Munari, 2004

**Australasian/Oceanian: Australia** - [PT] North Territory, Darwin, Buffalo Ck, 1 ♀.

*Dasyrhinoessa clandestina* Munari, 2002

**Australasian/Oceanian: New Caledonia** [French Republic] - [PT] (in plane), 4 ♂♀.

*Dasyrhinoessa ferruginea* (Lamb, 1914)

**Afrotropical: Kenya** - South of Mombasa, v, 1 ♂. **Madagascar** - Diégo Suarez, xii, 2 ♂; S of Fort Dauphin, Libanona Beach, iv, 2 ♀; Nosy Be, Ambatoloaka, iv, 3 ♂♀. **Oman** - Barr al Hickman, xi, 1 ♀. **Seychelles** - Aldabra, Middle Island, nr East Channel, ii, 1 ♂; Aldabra, Picard, La Gigi, iii, 2 ♀; Aldabra, South Island, Dune Jean-Louis, iii, 6 ♂; Aldabra, South Island, Takamaka, ii, 2 ♀; Mahé, ii, 13 ♂♀; Mahé, Airport, iv, 2 ♂; Mahé, Anse Louis, ii, 3 ♂♀ + 1 ?sex; Mahé, Boah, ii, 1 ♀; Mahé, Cascade, iv, 2 ♂. **United Arab Emirates** - Al-Ajban, xi-xii, 1 ♂.

**Australasian/Oceanian: Australia** - Queensland: Lloyd Bay, xii, 3 ♂; Portland Roads, xii, 1 ♀. **Mariana Islands** - Saipan, Lau Lau, viii, 2 ♂♀. **Papua New Guinea** - Central Prov., Gaba Gaba, xii, 2 ♂; Port Moresby, Ela Beach, i, 4 ♂♀.

**Oriental: Philippines** - Masbate, Mandaon, ix, 2 ♂; Palawan, nr Puerto Princesa, iv, 2 ♂. **Singapore** - Sentosa Island, ix, 1 ♂.

**Palaeartic: Qatar** - Al Shamal, Al Zubarah, iii, 1 ♂.

**South Indian Ocean Islands: Amsterdam Island** - DNG nr Cape Sausabor [?], 27.ix.1944, 2 ♀.

*Dasyrhinoessa fulva* (Hendel, 1913)

**Afrotropical: United Arab Emirates** - N of Ajman, vi, ix-x, 6 ♂♀; Khor Kalba, iii, 2 ♂.

**Australasian/Oceanian: Hawaii** - Maui, Lahaina, x, 2 ♂; Ohau, Hickam A.F.B., x, 1 ♀; Oahu, Halawa Stream, vi, 1 ♂; Ohau, Pearl Harbor, v, 1 ♂.

*Dasyrhinoessa humilis* Munari, 2004

**Australasian/Oceanian: Australia** - [PT] New South Wales, Careel Bay, 1 ♂; Queensland: Carbrook, Logan River Delta, x, 5 ♂; [PT] Gladstone, 2 ♂; Victoria Point, Eprapah Cons. Res., x, 1 ♂.

*Dasyrhinoessa insularis* (Aldrich, 1931)

**Afrotropical: Cameroon** - [PT, *D. freidbergi* Munari, 1994, junior synonym] Victoria [known today as

Limbe], 5 ♂♀; [PT, *D. freidbergi* Munari, 1994, junior synonym] Limbe, 1 ♀. **Nigeria** - [PT, *D. freidbergi* Munari, 1994, junior synonym] Lagos, 2 ♂. **Sierra Leone** - Western Area, Sussex, i, 10 ♂♀.

Australasian/Oceanian: **Fiji** - Ovalau, 7 km N Levuka, 11.ii.1989, 2 ♂♀; Viti Levu, Suva Point, 18.i.1988, 1 ♂. **Hawaii** - Hawaii, Pololu Valley, 2.viii.1958, 1 ♀; Hilo, 6.vii.1968, 15.ix.1993, 2 ♂; Kauai, Barking Sands, 2.iv.1969, 1 ♀; Oahu, Waimanalo, 2.x.1966, 4 ♂♀; Pearl and Hermes [Reef], SE Island, 14, 15.xii.1970, 3 ♂♀. **Kiribati** [Gilbert Islands] - Abemama, Kariatebike, 1.iii.1976, 1 ♂. **Marquesas** - Nuku Hiva, Taiohae, 9-15.vi.1987, 4 ♂♀. **Midway Islands** - Sand Island, ii.1953, 3 ♂♀. **Pitcairn** - Down Rope, 25.v.1987, 2 ♂. **Society Islands** - Bora Bora, iv.1961, 1 ♂; Tahiti, Papeete, 13.iii.1925, iii-iv. 1925, 2 ♂. **Vanuatu** [New Hebrides] - Erromanga [Erromango], Dillon Bay, iii.1978, 2 ♂.

Oriental: **Indonesia** - Sulawesi [Celebes], Ternate [included today in the Maluku Islands (Moluccas)], viii.1954, 2 ♂♀.

Neotropical: **Brazil** - [A: T003, T004, T005] Ceara, Fortaleza, Praia Meireles, ii, 6 ♂♀.

*Dasyrhicnoessa longisetosa* Munari, 2004

Australasian/Oceanian: **Australia** - [PT] Queensland, Mackay, 3 ♂♀.

*Dasyrhicnoessa mathisi* Munari, 2002

Australasian/Oceanian: **Chile** - [PT] Easter Island, Hanga Roa, 4 ♂♀.

*Dasyrhicnoessa ostentatrix* Munari, 2004

Australasian/Oceanian: **Australia** - New South Wales: [PT] Avalon, Careel Bay, 8 ♂♀; [PT] Broken Head near Byron Bay, 1 ♂; [PT] mangroves north Cronulla, 4 ♂; [PT] north Cronulla near Sydney, 1 ♀; [PT] North Creek near Ballina, 2 ♂♀; Queensland, Carbrook, Logan, x, 2 ♂.

*Dasyrhicnoessa pallida* Munari, 2004

Australasian/Oceanian: **Australia** - [PT] Queensland, Mackay, 2 ♂♀.

*Dasyrhicnoessa paradoxa* Munari, 2014

Oriental: **Malaysia** - Selangor, Port Kelang, 4.iii.1982, 1 ♀.

*Dasyrhicnoessa sexseriata* (Hendel, 1913)

Australasian/Oceanian: **Australia** - Queensland, MacKay, i, 1 ♂. **Bismarck Islands** - Dyaul, Sumuna, 4.iii.1962, 3 ♂♀. **Caroline Islands** - Palau, 28.vi.1981, 2 ♂♀. **Fiji Islands** - Ovalau Is., 4 km South of Levuka, 10.ii.1989, 1 ♂; Viti Levu, Suva Point, 5.i.1989, 5 ♂♀. **Tonga Islands** - Vavau, Neiafu, i.1980, 2 ♂♀.

Oriental: **Chagos** - Diego Garcia, Barachois Sec., 25.iv.1971, 1 ♂; Diego Garcia, Pointe Marianne, 6.iv.1971, 1 ♀; **Maldives** - Gan, Addu Atoll,

7.viii.1958, 1 ♀

*Dasyrhicnoessa tripunctata* Sasakawa, 1974

Australasian/Oceanian: **Bismarck Islands** - Dyaul, Sumuna, iii, 2 ♂. **Papua New Guinea** - Northern District, Oro Bay, xii, 1 ♀.

Oriental: **Malaysia** - Borneo, Sarawak, Santubong, x-xi, 2 ♂♀; Borneo, Sarawak, Bako N.P., xii-i, 14 ♂♀.

**Philippines** - Balabac, Dalawan Bay, x, 2 ♂.

*Dasyrhicnoessa vockerothi* Hardy and Delfinado, 1980

Afrotropical: **Seychelles** - [HT ♂, #1777, *Dasyrhicnoessa occidentalis* Munari, 1986, junior synonym] Mahé: Mahé Beach (10 km N); [PT, *Dasyrhicnoessa occidentalis* Munari, 1986, junior synonym] Mahé: Mahé Beach (10 km N), 4 ♂; [PT, *Dasyrhicnoessa occidentalis* Munari, 1986, junior synonym] Mahé: Anse Louis, 1 ♂; Aldabra, South Island, Dune D'Messe, iii, 4 ♂♀; Aldabra, South Island, Dune Jean-Louis, iii, 6 ♂♀; Aldabra, West Island, nr. Settlement, ii-iii, 1 ♂; [PT, *D. occidentalis* Munari, 1986, junior synonym] Anse Louis, 2 ♂; [PT, *D. occidentalis* Munari, 1986, junior synonym] Mahé, 10 km north of Mahé, 1 ♂ 1 ♀?sex; Mahé, airport, iv, 2 ♂.

Australasian/Oceanian: **Australia** - New South Wales, Lord Howe Island, 24.ii.1971, 3 ♂♀; North Territory, Cobourg Pen, iii, 3 ♂; **Hawaii** - Hilo, ix, 5 ♂♀; Kauai, Barking Sands, iv, 2 ♂♀; Oahu, ix, 2 ♂♀; [PT] Oahu, Honolulu, 1 ♂.

Oriental: **Cocos** (Keeling) - [no locality], i-x.1941, 3 ♂♀. **Malaysia** - Penang, Georgetown, i, 3 ♂♀. **Philippines** - Panay, Haclan Province, Boracai Island, x, 5 ♂♀; **Singapore** - Pasir Panjang Nature Reserve, i, 2 ♂.

*Dasyrhicnoessa yoshiyasui* Sasakawa, 1986

Oriental: **China** - Hong Kong, (*Ulva* wu Kwai Shm.), 5.v.1980, 2 ♂♀.

*Pseudorhicnoessa longicerca* Munari, 2014

Australasian/Oceanian: **Papua New Guinea** - [PT] Central Prov., Gaba Gaba, 2 ♂♀; [PT] Port Moresby, Ela Beach, 1 ♂.

*Pseudorhicnoessa rattii* Munari, 1981

Afrotropical: **Seychelles** - [HT ♂, #1791] Mahé, Anse Louis; [PT] Mahé, Anse Louis, 342 ♂♀; [PT] Mahé, Anse La Mouche, 122 ♂♀; [PT] Mahé, Barbarons Beach, 8 ♂♀; [PT] Mahé Bay (10 km north), 35 ♂♀; [A: T001, T002] Cousine Island, vii, 10 ♂♀; Mahé, Bel Ombre, iv, 1 ♂; Mahé, Beau Vallon Beach, iv, 2 ♂♀; Mahé, Port Launay, iv, 1 ♀.

Oriental: **India** - Goa, Bogmalo Beach, xii, 5 ♂♀. **Maldiv Islands** - Addu Atoll, Gan, viii, 4 ♂♀. **Sri Lanka** - Col[ombo] Dist[RICT], Colombo, iv, 1 ♀; Tri[ncomalee] Dist[RICT], Nilaveli, v, 3 ♂.

*Pseudorhichnoessa spinipes* Malloch, 1914

**Australasian/Oceanian:** **Australia** - Northern Territory, Cobourg Peninsula, Smith Point, iii, 1 ♂; Queensland: Lloyd Bay, xii, 2 ♂♀; Mossman, x, 6 ♂♀; Portland Roads, Restoration Beach, x, 1 ♂. **Bismarck Islands** - Dyaul, Sumuna, iii, 2 ♂♀; Hermit Island, Luf, vi, 1 ♂; Lavongai, Banatam, iii, 3 ♂♀; **Papua New Guinea** - Northern District, Oro Bay, xii, 1 ♀; Port Moresby, Ela Beach, x, 3 ♂♀. **Solomon Islands** - Ontong Java, Leuanuia, ix, 2 ♂♀. **Oriental:** **Indonesia** - Celebes [Sulawesi], Ternate, viii, 2 ♀; Maluku Utara, Bacan Labuha, ix, 3 ♂♀. **Malaysia** - Penang, George Town, i, 4 ♂♀; Pulau Rumbia, xi, 1 ♂; Sabah, Kota Kinabalu, viii, 1 ♀; Sarawak, Bako Natural Park, xii-i, 3 ♂♀. **Philippines** - Aklan Province, Panay, Boracay Island, x, 7 ♂♀; Calicoan, ix, 1 ♂; Masbate, Mandaon, ix, 4 ♂♀; Negros Oriental, Dumaguete City, ix, 2 ♂; Palawan, Puerto Princesa, iv, 2 ♂♀; **Singapore** - Pasir Panjang, i, 3 ♂♀. **Thailand** - South Songkhla Beach, x, 2 ♂♀.

*Sigaloethina endiomena* Munari, 2005

**Australasian/Oceanian:** **Australia** - [PT] South East QLD [Queensland], Carbrook, Logan, river delta, mangroves, 27.41S/153.19E, 3 ♂♀.

*Sigaloethina phaia* Munari, 2004

**Australasian/Oceanian:** **Australia** - [PT] NSW [New South Wales], Careel Bay, Avalon, mangroves, 3 ♂♀; [PT] NSW [New South Wales], north Creek near Bollina, 1 ♀; [PT] NSW [New South Wales], mangroves north of Cronulla, 1 ♂.

*Tethina acrostichalis* Freidberg and Beschovski, 1996  
**Palaeartic:** **Israel** - [PT] Tel Aviv, dunes, 6 ♂♀.

*Tethina alboguttata* (Strobl, 1900)

**Palaeartic:** **Morocco** - Agadir, Tamri, iv, 3 ♂♀; Briech (3.5 km WNW of), iii, 2 ♂♀; Essaouira, Cap Hadid, iv, 4 ♂♀; Larache, Loukos, iii, 2 ♂♀; Safi, Dar-Caïd-Hadji, iv, 3 ♂♀. **Portugal** - Salir do Porto, Caldas da Rainha, xi, 6 ♂♀. **Spain** - [Balearic Islands] Mallorca, N.P. S'Albufera, v, 1 ♂; [Canary Islands] Fuerteventura, v, 1 ♀; [Canary Islands] Isla Graciosa, iii, 4 ♂♀; [Canary Islands] Lanzarote, iii, 4 ♂♀; Palmones, San Roque, 3 ♂♀; Torre la Higuera Matalascanas, v, 3 ♂♀. **Tunisia** - Cap Bon, vi, 1 ♀; Sousse, iv, 1 ♀ (cf.); Tunis, Gamarth, vi, 7 ♂♀.

*Tethina albosetulosa* (Strobl, 1900)

**Afrotropical:** **Senegal** - Dakar, N'Gor, vi, 5 ♂♀. **Palaeartic:** **Bulgaria** - Kranevo, vi, 3 ♂♀; Varna, vi, 1 ♂. **Cyprus** - Akamas Peninsula, iv, 1 ♂; Lemasos [Limassol], iv, 1 ♂; Mazotos, iv, 1 ♂; Petra tou Romiou, iv, 1 ♂; **France** - [HT ♂ (destroyed) #1757, *Tethina mixta* Collin, 1966, junior synonym] Plage S. Raphael, Var; [PT, *Tethina mixta* Collin, 1966, junior synonym] same place as holotype, 1 ?sex; Corsica, l'Île Rousse, vii, 1 ♀ Corsica, Sàrtene, Tizzano, viii, 3

♂♀; Hérault, Mireval, viii, 3 ♂; Hérault, Plage de Sète, v, 1 ♀; Hérault, Vic-la-Gardirole, iii-ix, 6 ♂♀; Port-Vendres, ix, 1 ♀. **Germany** - Niedersachsen, Rysumer Nacken, vi, 1 ♂; Niedersachsen, Spiekeroog Island, ix, 1 ♀. **Greece** - Crete, Aghia Galini, vi, 2 ♂; Lesbos, x, 2 ♂; Kos, viii, 2 ♂♀; Peninsula Sithonia, Diaporos Island, viii, 2 ♂♀; Rhodes, Mandrikon, v, 1 ♀; Rodopi, Fanari, iv, 2 ♂♀. **Italy** - Friuli VG: (Gorizia), Grado, vi, 2 ♀; (Trieste), Sistiana, v, 1 ♂; (Udine), Lignano, vii, 31 ♂♀; Veneto: [HT ♀ (destroyed) #1753, *Tethina albissima* Collin, 1966, junior synonym] (Rovigo), Rosolina Mare; (Rovigo), Rosapineta, iv, 1 ♂; [PT, *Tethina mixta* Collin, 1966, junior synonym] Rosolina Mare, 1 ?sex; Rosolina Mare, iv-x, many specimens of both sexes; Porto Caleri, vi, 4 ♂♀; (Venezia), [HT ♂, #1747, *Tethina diversa* Collin, 1966, junior synonym] Sp[aggi] Alberoni; [PT, *Tethina diversa* Collin, 1966, junior synonym] same site as holotype, 3 ♂♀ plus 2 ?sex (destroyed); [PT, *Tethina mixta* Collin, 1966, junior synonym] Lido Alberoni, 1 ?sex; Chioggia, Ca' Roman, ix, 26 ♂♀; Fusina, cassa di colmata A, v, 5 ♂; Alberoni Malamocco, v, 3 ♂; [Lido Alberoni], st. 102, st. 105, st. 429, st. 971, st. 499, st. 695, st. 918, st. 923, st. 955, st. 959, st. 1104, st. 1115, st. 1134, st. 1176, st. 1191, st. 1193, st. 1212, st. 1219 [most likely Alberoni beach], st. 1221 [most likely Alberoni beach], st. 2014, st. 2018, st. 2019, st. 2020, iv-x, many specimens of both sexes; [Malamocco], st. 990, iv-vi, 9 ♂♀; [Motte di Volpego], st. 2016, vi, 1 ♂; Pellestrina, vi, 65 ♂♀; Punta Sabbioni, viii, 4 ♂♀; S. Giuliano [Mestre], iv-vi, 4 ♂♀; Vignole, v, 1 ♂; S. Margherita [Caorle], iii, 1 ♂; [PT, *Tethina albissima* Collin, 1966, junior synonym] Lido di Jesolo, 1 ♀; [PT, *Tethina mixta* Collin, 1966, junior synonym] Lido di Jesolo, 1 ?sex; Lido di Jesolo, iv-x, many specimens of both sexes; Emilia Romagna: (Ferrara), [PT, *Tethina mixta* Collin, 1966, junior synonym], Lido di Volano, 3 ♂♀; Lido di Volano, iv-x, many specimens of both sexes; (Ravenna), Cervia, v, 5 ♂♀; (Rimini), Bellaria, iv, 1 ♂; Toscana: (Grosseto), Monterotondo, vii, 6 ♂; (Livorno), Golfo di Baratti, vii, 1 ♂; Isola di Capraia, Vado di Porto, viii, 2 ♂♀; San Vincenzo, P.N. Rimigliano, vii-viii, 26 ♂; Lazio: (Latina), P.N. Circeo, viii-ix, 27 ♂♀; Abruzzo: (Chieti), Marina S. Salvo, ix, 5 ♂; Vasto, iv-v, 28 ♂♀; Molise: (Campobasso), foce Fiume Trigno, vii, 14 ♂♀; Campania: (Napoli), Isola di Procida, ix, 2 ♂; Puglia: (Foggia), Laguna di Varano, vi-vii, 28 ♂; (Taranto), Taranto, v, 2 ♂♀; Sicilia: (Agrigento), Isola di Lampedusa, [no date], 9 ♂♀; Porto Empedocle, iv, 1 ♂; (Messina), Spadafora, vi, 10 ♂♀; Isola Vulcano, viii, 5 ♂♀; (Palermo), foce Fiume Calatubo, viii, 2 ♂; (Siracusa), Noto/Vendicari, vi, 1 ♂; (Trapani), Capo S. Vito, viii, 1 ♂; Sardegna: (Nuoro), Bosa Marina, vi, 1 ♀; Carbonia-Iglesias, Buggerru, xi, 1 ♀; Dorgali, vi, 1 ♂. **Malta** - Ghadira, vi, 1 ♀; Gozo, v, 1 ♂; Mgiebah, v, 1 ♂; Xemxija, vi, 2 ♂. **Portugal** - Arcozelo, W.N. Gaia, vi, 1 ♂; Apúlia, Esposende, vi, 1 ♂; Azores,

Fayal, Horta, v, 2 ♀; Porto Leça de Palmeira, viii, 1 ♂; Vau, Obidos, x, 1 ♂; Viana do Castelo, Vila Nova de Anha, vi, 1 ♀. **Spain** - Canary Islands, Gran Canaria, Las Palmas, ?month, 2 ♂♀; Castellon, Benicasim, iv, 3 ♂♀. **Tunisia** - Tunis, Gamarth, vi, 3 ♂. **Turkey** - Akyaka, iv-ix, 6 ♂♀; Antalya, Cavusköy (Andrasan), iv, 1 ♂; Antalya, Phaselis, iv, 6 ♂♀; Istanbul, Kilyos, v, 2 ♂.

*Tethina albula* (Loew, 1869)

**Neartic:** **Mexico** - [PT, *Rhinoessa sonorensis* Melander, 1952, junior synonym] Rocky Point Marsh, 2 ♂♀. **United States** - Delaware, Kent Co., Woodland Beach, vi, 1 ♂.

*Tethina amphitrite* Munari and Báez, 2000

**Palaeartic:** **Cape Verde Islands** - [PT] Boa Vista, Rabil, 1 ♂; [PT] S. Vincente, Rib. Julião, 1 ♀.

*Tethina brasiliensis* Prado and Tavares, 1966

**Neotropical:** **Brazil** - Angra dos Reis, E. de Rio, vi, 1 ♂; Ceara, Fortaleza, Praia Meireles, ii, 2 ♂♀; [A: T006] Ceara, Pecem, ii, 35 ♂♀; same [double mounted], 4 ♂♀; São Paulo, Praia do Estaleiro, iii, 1 ♂.

**Remarks.** MUNARI (2013) reinstated this species as a valid taxon from the synonymy proposed by MATHIS & FOSTER (1998) under *T. xanthopoda* (Williston).

*Tethina callosirostris* Munari, 2008

**Afrotropical:** **United Arab Emirates** - Al Ajban, x-xi, 1 ♀; [PT] Sharjah, Desert Park, light trap, 2 ♀; [PT] Sweihan, NARC, light trap, 2 ♂♀.

*Tethina carolae* Munari and Stuke, 2011

**Palaeartic:** **Madeira** (Portugal) - [HT ♂, #5152] Praia do Faial, 32°47'32"N, 16°50'55"W.

*Tethina cohiba* Foster and Mathis, 1998

**Neotropical:** **Guadeloupe** (France) - Sainte-Rose, Plage les Amandiers, iv, 5 ♂♀; **Jamaica** - Long Bay, viii, 4 ♂♀. **Venezuela** - Caracas, Todasana Beach, ix, 1 ♀ + 1 ♀ (cf.).

*Tethina czernyi* (Hendel, 1934)

**Palaeartic:** **Algeria** - Sebket Melloul, v, 1 ♂. **Cyprus** - Mazotos beach, iv, 2 ♂. **Greece** - Xanthi, S of Nea Kessani, iv, 2 ♂♀; Rodopi, SE of Lagos, iv, 2 ♂. **Italy** - Puglia: (Lecce), Punta Maculone, v, 1 ♀. **Romania** - Histria, Lake Sinoe, vi, 5 ♂♀. **Tunisia** - N of Sousse, iv, 6 ♂♀.

*Tethina dunae* Munari, 2007

**Afrotropical:** **Oman** - [PT] N. Masira Is., B.E.R.S. Camp, 7 ♂♀.

*Tethina flavigenis* (Hendel, 1934)

**Palaeartic:** **Croatia** - Krk Island, vi, 7 ♂♀. **France** - Hérault, Grabels, ix, 4 ♂♀. **Germany** - Salzländ, Hecklingen, viii, 1 ♂. **Greece** - Corfu, Perama, viii, 1

♀. **Italy** - Friuli VG: (Gorizia), Grado, vi-x, 8 ♂♀; Lago di Doberdò, vi, 1 ♂; (Trieste), Muggia, v-vii, 15 ♂♀; Sistiana, vi, 13 ♂♀; fiume Timavo, vi, 6 ♂♀; (Udine), laguna di Marano, vi, 1 ♂; Veneto: (Venezia), Chioggia, vii-viii, 2 ♂♀; st. 492, [without locality and date, most likely Marghera-S. Giuliano [Mestre], vii], 1 ♂; st. 556, 558, [without locality and date, most likely vii-viii], 5 ♂♀; Alberoni, vii, 2 ♂♀; Campalto, v, 2 ♂♀; cassa di colmata D-E, v, 4 ♂♀; Malamocco, vi, 4 ♂♀; [S. Erasmo], st. 17, st.113, st. 583, st. 997, vi-vii, 15 ♂♀; Punta Sabbioni, viii, 10 ♂♀; S. Giuliano [Mestre], iv-vii, 3 ♂♀; Torcello, v, 1 ♂; [Vignole], st. 594, v, 2 ♂; fiume Tagliamento, v, 3 ♂; Emilia Romagna: [HT ♂, #1763, *Rhinoessa dubiosa* Collin, 1966, junior synonym] (Ferrara), Lido di Volano; Lido di Volano, v-viii, 14 ♂♀; Toscana: (Grosseto), Orbetello, vii, 2 ♂♀; Bocca d'Ombrone, vi, 32 ♂♀; Lazio: (Latina), P.N. Circeo, viii-ix, 51 ♂♀; Sicilia: (Agrigento), Licata, iv, 1 ♀; Sardegna: (Nuoro), Stagno di San Teodoro, viii, 1 ♂. **Morocco** - Oum er-Rbia River, iii, 2 ♂. **Romania** - Lake Sinoe, vi, 4 ♂♀; Dobrogea, Histria, vii, 1 ♂. **Spain** - Murcia, San Javier, vii, 1 ♂. **Tunisia** - Tunis, Sebket El Riana, v, 2 ♂.

*Tethina flavoidea* Beschovski, 1997

**Palaeartic:** **Israel** - En Mor, 16.iii.1995, 5 ♂♀.

*Tethina gatti* Munari and Ebejer, 2001

**Palaeartic:** **Algeria** - Sahara, Biskra, ii, 1 ♂; Sahara, Chegga Source, ii, 1 ♂. **Tunisia** - [HT ♂, #5021] Sousse, Sidi Bou Ali; [PT] Sousse, Sidi Bou Ali, saltmarsh, 1 ♂.

*Tethina grisea* (Fallén, 1823)

**Palaeartic:** **Bulgaria** - Kranevo, vi, 2 ♂♀; Varna, vi, 2 ♂. **Cyprus** - Akamas peninsula, Lara beach, iv, 2 ♂; Lemasos, v, 1 ♂; Mazotos Beach, iv, 2 ♂♀; Pissouri, Petra tou Romiou, iv, 1 ♀. **France** - Brittany, Raguennes, viii, 1 ♀; La Tranche-sur-Mer, v, 3 ♂; Vendée, La Faute-sur-mer, v, 1 ♂. **Germany** - Niedersachsen, Borkum, vi, 1 ♀. **Great Britain** - Devon, Woolacombe Bay, viii, 1 ♀. **Greece** - Corfu, Agios Spiridon, iv, 1 ♂; Corfu, Sidari, v, 1 ♂; Kavala, Akroneri, iv, 2 ♂♀; Kavala, Agiasma, iv, 1 ♂; Kavala, Keramoti, iv, 2 ♂♀; Kos, Marmari, viii, 1 ♀. **Italy** - Friuli VG: (Gorizia), Grado, v, 1 ♀; (Trieste), Sistiana, v-vi, 2 ♂♀; (Udine), Lignano, iv-x, 7 ♂♀; Veneto: (Rovigo), Rosapineta, iv, 1 ♂; Rosolina Mare, iv-x, many specimens of both sexes; (Venezia), st. 250, st. 1219, st. 1223, [most likely Alberoni beach], 32 ♂♀; Lido, vi, 4 ♂♀; Alberoni, iii-x, many specimens of both sexes; Pellestrina, vi, 3 ♂♀; Bibione, vi, 1 ♂; Lido di Jesolo, v-vi, 17 ♂♀; Emilia Romagna: (Ferrara), Lido di Volano, iii-x, many specimens of both sexes; (Ravenna), Cervia, v, 3 ♀; (Rimini), Rimini, iv, 5 ♂♀; Toscana: (Grosseto), Monterotondo, vii, 1 ♂; (Livorno), Golfo di Baratti, vi, 1 ♂; S. Vincenzo, vii, 2 ♂; Lazio: (Roma), Anzio,

v, 7 ♂♀; Abruzzo: (Chieti), Marina S. Salvo, ix, 5 ♂♀; Vasto, iv-v, 37 ♂♀; Molise: (Campobasso), foce fiume Trigno, vii, 1 ♀; Puglia: (Foggia), Laguna di Varano, vi, 1 ♂; Gargano, Torre Mileto, vi, 1 ♀; (Taranto), Taranto, v, 4 ♂♀; Sicilia: (Agrigento), Isole Pelagie, [without date], 1 ♂; (Caltanissetta), Biviere di Gela, vi, 1 ♂; Porto Empedocle, iv, 3 ♂; Sardegna: (Sassari), La Maddalena, vi, 2 ♂♀. **Malta** - Ghadira Beach, vi, 1 ♂; Mgiebah, v, 1 ♂. **Portugal** - Apúlia, Esposende, v, 1 ♀; Azores, Fayal. Horta, v, 1 ♀. **Sweden** - Sandhammaren, vi, 3 ♂♀; Haväng, viii, 1 ♀. **Tunisia** - Zarzis, iii, 1 ♂.

*Tethina grossipes* (Becker, 1908)

**Afrotropical**: **Cape Verde**, Boa Vista, Sal Rei, x, 1 ♀. **Palaeartic**: **Morocco** - Agadir, Tamri, iv, 2 ♀. **Spain** - Canary Islands: Isla Graciosa, iii, 2 ♂; Isla de Lobos, v, 1 ♂; La Gomera, V. Gran Rey, iv, 2 ♀; Lanzarote, iii, 1 ♂; Tenerife, i, 6 ♂♀.

*Tethina guttata* Freidberg and Beschovski, 1996

**Palaeartic**: **Israel** - [PT] Bor Mashash, 2 ♂♀.

*Tethina heringi* (Hendel, 1934)

**Palaeartic**: **Spain** - Canary Islands: Fuerteventura, ii-iii, 3 ♂♀; Graciosa Island, iii, 1 ♂; Lanzarote, ii, 3 ♂; Tenerife, i-x, 3 ♂♀.

*Tethina hirsuta* Munari, 2000

**Australasian/Oceanian**: **Australia** - [PT] SW Australia, Hopetoun, southern coast, St. X-682, 33.57S-120.07E, 6 ♂♀; [PT] SW Australia, Peppermint Beach, NE of Busselton, X-627, 1 ♂.

*Tethina histrica* Munari, 2009

**Palaeartic**: **Croatia** - [HT ♂, #5146] Istria, Kamenjak Peninsula, 44°46'N, 13°55'E; [PT] same site as holotype, 13 ♂♀; [PT] Kavran, Luka Budava, 5 ♂♀.

*Tethina illota* (Haliday, 1838)

**Palaeartic**: **France** - Arromanches, Plage de Asnelles, vi, 2 ♂; Vendée, La Faute-sur-Mer, viii, 2 ♂♀. **Germany** - Niedersachsen, Rysumer Nachen, vi, 2 ♂♀. **Great Britain** - Cornwall, Lelant, Towans, vii, 1 ♂; Devon, Croyde, viii, 2 ♂♀. **Portugal** - Vila Nova de Gaia, Arcozelo, vi, 2 ♂♀; Braga, Esposende, Apulia, v-ix, 5 ♂♀; [A: T020] Braga, Esponde, Apulia, ix, 3 ♂; Porto, Leça da Palmeira, viii, 3 ♂. **Sweden** - Hall[and], Laxvik, viii, 2 ♂.

*Tethina incisuralis* (Macquart, 1851)

**Afrotropical**: **United Arab Emirates** - Al Rafah, iii, 1 ♂; Umm al-Qaywayn, iii, 6 ♂♀.

**Palaeartic**: **Algeria** - Biskra, iv-v, 3 ♂♀; Ghardaia, x, 4 ♂♀. **Egypt** - Alexandria, iii-iv, 5 ♂♀; Cairo, iii, 3 ♂♀; Fayum, iii, 3 ♂♀; Mansura, iii, 2 ♂♀. **Israel** - Bor Mashash, iii, 5 ♂♀; Elot, iii, 1 ♂; En Mor, iii, 3 ♂♀; Enot Zukim, iii, 1 ♂; Mishar Paran, iii, 2 ♂; Newe Zohar, iii, 5 ♂♀. **Jordan** - Svaima, Dead Sea,

iv, 1 ♀. **Morocco** - Erfoud/Rissani, iv, 1 ♂. **Qatar** - Al Shamal, Al Zubarah, iii, 1 ♂; Al Shamal, Al Araish, iii, 3 ♂♀. **Spain** - Granada, iv, 1 ♀. **Tunisia** - Nefta, iii, 1 ♂.

*Tethina inopinata* Munari and Canzoneri, 1992

**Palaeartic**: **Greece** - [HT ♂, #2975, as *Tethina (Tethina) inopinata* Munari and Canzoneri] Salonika: Sithoniá Peninsula, Isola Diaporos; [PT] same site as holotype, 15 ♂♀; Kavala, Akroneri, iv, 1 ♀; Lesbos, x, 1 ♀.

*Tethina intermedia* Collin, 1966

**Palaeartic**: **Tunisia** - [HT ♂, #1755, destroyed] Tunis, La Marsa; [PT] same site as holotype, 1 ♀; Tunis, La Marsa, vi, 2 ♂♀ (cf ♀); Tunis, Gamarth, v, 1 ♂.

*Tethina karatasensis* Munari, 1981

**Palaeartic**: **Turkey** - [HT ♀, #1774] Karatàs; Aydıncik, 100 km SW of Silifke, v, 8 ♂♀; Antalya Province, Side, Selimye, v, 1 ♀.

*Tethina litocola* Munari and Ebejer, 2001

**Palaeartic**: **Cyprus** - Akrotiri Peninsula, Lady Mile Beach, iv-v, 6 ♂♀; **Tunisia** - [HT ♂, #5023] Tabarka; [PT] Tabarka, coastal dunes, 5 ♂♀; [PT] Tabarka, Ain Sobah, dunes, *Eucaliptus*, pine, bog, 1 ♀; [PT] 1 km East of Tabarka, 4 ♂♀.

*Tethina longilabella* Munari, 2007

**Afrotropical**: **Oman** - [PT] N. Masira Is., B.E.R.S. Camp, 1 ♀; [PT] Ra's al Ghubbah, 20°07'N - 57°49'E, 5 m, at light, 1 ♂.

*Tethina longirostris* (Loew, 1865)

**Palaeartic**: **Algeria** - Atlas Sétif, Sebket Melloul, iv-v, 2 ♂♀. **Cyprus** - Akrotiri peninsula, iv-v, 13 ♂. **Greece** - Crete, iv, 3 ♂♀. **Italy** - Sicilia: (Agrigento), Agrigento, iv, 1 ♂. **Malta** - Gozo, iv-v, 8 ♂♀. **Tunisia** - Kairouan, iv, 4 ♂♀; N of Sousse, iv, 4 ♂♀.

*Tethina* sp. near *longirostris* (Loew, 1865)

**Palaeartic**: **Italy** - Toscana, (Grosseto), Bocca d'Ombro, vi, 1 ♂.

**Remarks**. This specimen is distinguished from *T. longirostris* mainly by the following combination of characters: paler species; ventral face not prognathous, with labellum as long as buccal cavity. The genital surstylus is like that of *T. longirostris*.

*Tethina lusitanica* Munari, Almeida and Andrade, 2009

**Palaeartic**: **Portugal** - [HT ♂, #5151, in alcohol] Braga, Esposende, Apulia; [PT] same site as holotype, 8 ♂♀; Viana do Castelo (5km south of), 41.664689, - 8.823868, dry dune, 3.v.2018; 3 ♂.

**Remarks**. An extremely localised species, which has very recently been observed occurring with thousands of individuals everywhere on dry dunes of a sandy

beach of Portugal (5km south of Viana do Castelo, see above) (Jonas Mortelmans, personal communication). The new finding place is in northern Portugal, about 21 km north of the type locality. The random sample collected by Mortelmans himself is made up of various specimens, three males of which (see above) were redetermined by the senior author who also confirmed their specific status.

*Tethina marmorata* (Becker, 1908)

**Palaeartic:** **Spain** - Canary Islands, Tenerife, i-vi, 5 ♂♀; Canary Islands, La Gomera, iii, 1 ♂.

*Tethina melitensis* Munari and Ebejer, 2001

**Palaeartic:** **Malta** - [HT ♂, #5026] Gozo, Ramla dunes; [PT] same site as holotype, 20 ♂♀; same site as holotype, v, 5 ♂♀ (no type specimens); Ghadira Beach, v, 1 ♂.

*Tethina milichioides* (Melander, 1913)

**Nearctic:** **United States** - California, Corona del Mar, v, vii, 4 ♂♀; California, Obispo Co., San Luis, ix, 2 ♂♀; [PT, *Tethina steyskali* Foster, 1976, junior synonym] [California] Pismo Beach, 2 ♂♀; [PT, *Tethina woodi* Foster, 1976, junior synonym] [California] San Francisco, 2 ♀; Oregon, Curry Co., Whalehead S.P., vii, 1 ♀; Oregon, Douglas Co., Umpqua River mouth, x, 1 ♂.

*Tethina minoia* Munari, 1999

**Palaeartic:** **Greece** - [PT] Western Crete, southern coast near Plakiás, sand dunes, x547, 2 ♂♀.

*Tethina munarii* Carles-Tolrà, 1993

**Palaeartic:** **Italy** - (Agrigento), Linosa Island, P.ta Arena Bianca, 8–24.vii.1988, 1 ♀; Pantelleria Island, Le Balate, 23.ix.1987, 6 ♂♀; **Spain** - [PT] Cadaques (Gerona), on a puddle near the sea, 1 ♂; Mallorca, S'Albufera, 18.ix.2008, 1 ♀ [cf.].

*Tethina nigriseta* Malloch, 1924

**Australasian/Oceanian:** **Australia** - New South Wales: Forster District, Bootibooti N.P., The Ruins, x, 1 ♂; Maltland Bay nr Terrigal, i, 2 ♂♀; Bellinger, North Beach, i, 2 ♂; Seal Rocks, x, 2 ♂♀; Sydney, Botany Bay, La Perouse, x, 3 ♀; Sydney, Long Reef, ii, iv, 2 ♀; Turimetta Beach nr Sydney, v, 1 ♂; Twofold Bay, Nullica Beach, v, 2 ♂; Valla Beach nr Urunga, ix, 1 ♂; Woody Head nr Iluka, xii, 1 ♀; Woolli, ix, 3 ♂♀; Woombah, ix, 3 ♂♀; Queensland, [nr] Mossman, x, 3 ♂.

*Tethina nigrofemorata* Beschovski, 1997

**Palaeartic:** **Cyprus** - Episkopi, Kourion, iv, 1 ♂. **Greece** - Crete, Kokinos Pirog, vi, 2 ♂. **Israel** - En Mor, iii, 2 ♂♀. **Jordan** - Al Azraq ash Shamali, iv, 6 ♂♀. **Malta** - Gozo, Ramla, v, 1 ♂; Marsaxlokk, v, 1 ♂. **Spain** - Canary Islands: Gran Canaria, Galdar, ii, 3 ♂♀; Gran Canaria, Maspalomas, ii, 1 ♂. **Syria** -

Syrian Desert, Palmyra, v, 1 ♂. **Tunisia** - Bou Hedma, iv, 1 ♀; Gamarth, vi, 2 ♂; 25 km South of Kairouan, iv, 1 ♀.

*Tethina omanensis* Munari, 2007

**Afrotropical:** **Oman** - [PT] N. Masira Is., B.E.R.S. Camp, 1 ♀.

*Tethina pallidiseta* Malloch, 1935

**Australasian/Oceanian:** **Australia** - [A: T011] SW Australia, S of Denmark, iii, 4 ♂♀; New South Wales: Nth. Cronulla, iv, 4 ♂; Dee Why, nr. Sydney, xi, 1 ♀; Long Reef, ii, 2 ♂♀; Lord Howe Island, Blinky Beach, 25.ii.1971, 2 ♂♀; Newport, x, 2 ♂♀; Red Rock, nr. Woolgoolga, xi, 1 ♂; Royal National Park, Otford/Werrong track, x, 3 ♂; Sydney, Botany Bay, x, 2 ♀; Woombah, ix, 4 ♂♀.

*Tethina pallipes* (Loew, 1865)

**Afrotropical:** **Cape Verde** - S. Vicente, Rib. Julião, xi-xii, 1 ♂. **Namibia** - Swakopmund, i, 4 ♂♀; **Senegal** - Dakar N'Gor, vi, 1 ♂. **South Africa** - Knersvlakte, north of Vanrhynsdorp, x, 1 ♀; Strandfontein, west of Vanrhynsdorp, x, 1 ♂. **United Arab Emirates** - Al-Ajban, iv-v, 1 ♂; Al-Rafah, iii, 1 ♂; Sharjah Desert Park, i-ii, 1 ♂; Sharjah, vi, 1 ♂. Sweihan, iii, 2 ♂♀.

**Palaeartic:** **Algeria** - Ghardaia, x, 1 ♂; Ghardaia, Oued Mzab, vi, 1 ♂. **Bulgaria** - Kranevo, vi, 2 ♂. **Cyprus** - Akrotiri Peninsula, v, 1 ♂; Mazotos, iv, 2 ♂. **Egypt** - Hurgada, iii, 4 ♂; Sinai, Taba, iv, 1 ♀. **France** - Port-Vendres, ix, 2 ♂♀. **Greece** - Corfu, Sidari, v, 3 ♂♀; Crete, Georgiopolis, iv, 2 ♂♀; Crete, Kokinos Pirog, vi, 1 ♂; Kos, Marmari, viii, 1 ♂; Lesbo, x, 1 ♂; Zákynthos, v, 1 ♂. **Italy** - Liguria: (Imperia), Ventimiglia, Balzi Rossi, viii, 8 ♂♀; Veneto: (Venezia), Alberoni, v-vi, 2 ♂; [Pellestrina], st. 35, vii, 1 ♂; Jesolo, foce Sile, v, 2 ♂♀; [Chioggia], st. 34, vii, 1 [lacking abdomen]; Emilia Romagna: (Ferrara), Lido di Volano, viii, 1 ♂; (Ravenna), Cervia, v, 1 ♀; Abruzzo: (Chieti), Vasto Marina, iv, 1 ♀; Lazio: (Latina), P.N. Circeo, viii, 1 ♂; Campania: (Napoli), Ischia, viii, 1 ♀; Lago Lucrino, viii, 2 ♂♀; Puglia: (Foggia), Gargano, Torre Mileto, vi, 2 ♂; (Lecce), Punta Maculone, iv-v, 3 ♂♀; (Taranto), Taranto, v, 2 ♂; Sicilia: (Agrigento), Agrigento, iv, 1 ♂; Pelagie Islands, vii, 3 ♂♀; Porto Empedocle, iv, 5 ♂♀; Lampedusa, vii, 2 ♂; (Siracusa), Siracusa, iv, 1 ♂; Sardegna: (Sassari), La Maddalena, vi, 2 ♀. **Malta** - Ghadira Beach, v-vi, 5 ♂♀; Gozo, Ramla Bay, vi, 1 ♂. **Portugal** - Azores, Fayal, Horta, vi, 1 ♂, Azores, S. Miguel, Ribeira Grande, v, 1 ♂. **Spain** - Almeria, iii, 1 ♂; Almeria, Albufera, iii, 1 ♀; Balearic Islands, Mallorca, ix, 1 ♀; Canary Islands: Las Palmas, [without date], 1 ♀; Tenerife, x, 5 ♂♀. **Tunisia** - Tunis, Gamarth, vi, 1 ♂; Tunis, Sebkhet El Riana, v, 2 ♂♀. **Turkey** - [HT ♂, #1764, *Tethina canzonerii* Munari, 1981, junior synonym] Karatàs; [PT, *Tethina canzonerii* Munari, 1981, junior synonym] (Asia Minore), Karatàs, 11

♂♀; Akiaka, v-ix, 5 ♂; Mersin, Tarsus, v, 1 ♀.

**Remarks.** A very common, subcosmopolitan species which was formerly known also with the following names (junior synonyms): *Rhinoessa ochracea* Hendel, 1913, *Rhinoessa texana* Malloch, 1913, *Tethina chilensis* Malloch, 1934 and *Tethina canzonerii* Munari, 1981.

*Tethina parvula* (Loew, 1869)

**Nearctic:** **Canada** - N[ova] S[cotia], Ingonish, vii, 2 ♂♀; N[ova] S[cotia], Lockeport, vii, 2 ♂♀. **United States** - Massachusetts, Dennis, C[ape] Cod, viii, 2 ♂♀; New York, C[o]ld Sp[ring] Harb[or], vii, 3 ♂♀; New York, South Beach, ?vii, 1 ♂.

*Tethina pictipennis* Freidberg and Beschovski, 1996

**Palaeartic:** **Morocco** - Agadir, Tamri, iv, 1 ♀; Briek (3.5 km WNW), iii, 2 ♂♀; Larache, Loukos, iii, 1 ♂.

*Tethina pleuralis* Munari, 2010

**Afrotropical:** **United Arab Emirates** - [PT] Umm al Qaywayn, beach, 25°31.46'N - 055°31.53'E, 2 ♂♀.

*Tethina robusta* Foster and Mathis, 2000

**Neotropical:** **Chile** - Coquimbo, SW, 5.4 km N of Los Vilos, N of Laguna Conchali, xi, 15 ♂♀.

*Tethina salinicola* Beschovski, 1998

**Palaeartic:** **France** - Bouches-du-Rhône, Salin de Giraud, 29.v.1995, 2 ♂.

**Remarks.** Topotypic specimens recorded and commented on by MUNARI (2011). This species can most likely be assigned to the *T. strobliana* species-complex (see further).

*Tethina* sp. near *salinicola* Beschovski

**Palaeartic:** **Morocco** - Agadir, Tamri, iv, 2 ♂.

**Remarks.** These two male specimens, along with a few others from Morocco, have been exhaustively commented on and compared with Beschovski's species by MUNARI (2004).

*Tethina* sp. near *salinicola* Beschovski /*strobliana* (Mercier)

**Palaeartic:** **Portugal** - Apúlia, Esposende, ix, 2 ♂♀; Vau, Óbidos, ix, 1 ♂.

**Remarks.** A very tentative identification for these specimens exhibiting transitional interspecific morphological features.

*Tethina sasakawai* Foster and Mathis, 2008

**Nearctic:** **Canada** - British Columbia, Vancouver, Point Grey, vii, 2 ♂♀.

*Tethina shalom* Freidberg and Beschovski, 1996

**Palaeartic:** **Qatar** - Umm Said, iii, 2 ♂♀, (cf).

*Tethina soikai* Munari, 1981

**Afrotropical:** **Oman** - Rosail, Barka, 8.iv.1985, 1 ♂.

**Senegal** - [HT ♂, #1775] Rufisque.

**Remarks.** This species shows a strongly disjointed distribution. No other specimens are known to date.

*Tethina spinigera* Munari, 2008

**Afrotropical:** **United Arab Emirates** - [PT] Al Ajban, 4 ♂♀; Al Ajban, xi, 3 ♂♀.

**Remarks.** This species exhibits a few peculiar autapomorphic character states consisting of the genital epandrium of male without long setae, but with a few short, thin setae only present posteriorly, and especially for having 5-6 pairs of strikingly characteristic, stout spinulae on entire caudal surface, in particular on the perianal margin. Despite this peculiarity, *T. spinigera* belongs no doubt to the *Tethina alboguttata*-group.

*Tethina spinulosa* Cole, 1923

**Neotropical:** **Mexico** - [PT] Baja California [Sur], Loreto, 2 ♂; Vera Cruz, Isla de los Sacrificios, ix, 1 ♂.

*Tethina stobaeana* Munari, 1996

**Palaeartic:** **Uzbekistan** - [PT] Tashkent, 17.ix.1977, 1 ♀.

**Remarks.** A very doubtful identification based on a single female. The holotype ♂ was described from Spain. The taxonomic status of this specimen necessarily needs verification when additional material from Uzbekistan and adjacent territories will be available for examination.

*Tethina strobliana* (Mercier, 1923)

**Afrotropical:** **Oman** - Dhofar, Khor Tagah, xi, 3 ♂.

**Palaeartic:** **Bulgaria** - Kranevo, vi, 1 ♂; **Croatia** - Istria, Clavar, Fianona [Plomin], vii, 2 ♂; Krk Island, Soline, vi, 1 ♂. **France** - Arcachon, vi, 1 ♂; Corsica, L'Île-Rousse, vii, 1 ♀; Etang de Canet, vii, 2 ♂; Hérault, Lattes, viii, 3 ♂♀. **Germany** - Sachsen-Anhalt, Börde, viii, 2 ♂. **Greece** - Corfu, Halikiopolou, iv, 1 ♂; Crete, Kokinos Pigos, vi, 3 ♂. **Israel** - En Gedi, v, 1 ♂. **Italy** - Friuli VG: (Trieste), fiume Timavo, vi, 4 ♂; Veneto: (Rovigo), fiume Adige, vii, 1 ♂; (Venezia), Alberoni, v-x, 3 ♂♀; Campalto, v, 1 ♂; Forte Marghera, st. 158, iii, 1 ♀; Fusina, cassa di colmata A, v, 1 ♀; [Lido], st. 990, iv, 4 ♂♀; [Moranzani], st. 542, v-viii, 3 ♂♀; Pellestrina, vii, 1 ♀; Punta Sabbioni, viii, 1 ♂; S. Giuliano [Mestre], iv-x, 3 ♂♀; [Chioggia], st. 34, vii, 1 ♂♀; Chioggia barene, x, 3 ♂♀; Valle Averte, [no month], 1 ♀; (Padova), Montegrotto, ix-xi, 5 ♂♀; Emilia Romagna: (Ferrara), Codigoro, viii, 1 ♂; Lido di Volano, v-x, 25 ♂♀; Toscana: (Grosseto), Bocca d'Ombrone, vi, 1 ♂; Orbetello, vii, 2 ♂♀; Lago di Burano, vi, 6 ♀; (Livorno), Isola di Capraia, viii, 1 ♂; Lazio: (Latina), P.N. Circeo, viii-ix, 4 ♂♀; Abruzzo: (Chieti), San Salvo Marina, ix, 3 ♂♀; (Pescara) fiume Saline, viii, 2 ♂; Molise: (Campobasso), fiume Trigno, vii, 61 ♂♀; Campania: (Napoli), Ischia, viii, 8 ♂♀; Lago Lucrino 1 ♀; Basilicata: (Matera), fiume

Agri, viii, 3 ♂; fiume Bradano, viii, 11 ♂♀; Puglia: (Brindisi), Torre Gualcita, iv, 1 ♂; Sicilia: (Agrigento), Agrigento, iv, 6 ♂♀; Porto Empedocle, iv, 4 ♂♀; (Messina), Isola di Lipari, viii, 6 ♂♀; (Palermo), fiume Calatubo, viii, 1 ♂; Sardegna: (Sassari), Golfo di Arzachena, vi, 1 ♂. **Malta** - Fiddien, v, 1 ♂; Ghadira, iv, 1 ♀; Marsaxlokk beach, v, 1 ♂; Salina Bay, v, 2 ♂. **Spain** - Balearic Islands, Mallorca, iv-v, 2 ♂; Barcelona, iv, 1 ♀. **Tunisia** - Bizerta, iv, 1 ♂; Kairouan, iv, 1 ♀; Tunis, Gamarth, vi, 1 ♂.

*Tethina strobliana*-complex

**Palaeartic: Italy** - Veneto: (Venezia), [Pellestrina], st. 7, vii, 1 ♀; Emilia Romagna: (Ferrara), Volano-Romea, v, 4 ♂♀; Puglia: (Brindisi), Torre Gualcita, iv, 1 ♂; Basilicata: Agri-strada ionica, viii, 3 ♂. **Morocco** - Rabat, Oued Abou, iii, 1 ♀; Rehouna, iii, 1 ♂. **Tunisia** - Tunis, Gamarth, vi, 7 ♂♀.

**Remarks.** The different body sizes, the evenly coloured mesonotum vs the striped one, and the diverse range of the lateral profiles of the surstylus (MUNARI, 2006) are supposed to be a possible evidence of the occurrence of a cryptic species-complex rather than of an accentuated intraspecific variation. In our opinion, only a molecular analysis can really settle, at least to a certain extent, this issue, the above variation being often found in numerous specimens from different places.

*Tethina stukei* Munari, 2010

**Afrotropical: United Arab Emirates** - [PT] N Ajman, coast, 25°27.02'N - 055°28.42'E, 4 ♂♀; [PT] S Ras Al Khaymah, coast, 25°43.66'N - 055°52.42'E, 1 ♀; [PT] Umm al Qaywayn, beach, 25°31.46'N - 055°31.53'E, 2 ♂♀.

*Tethina tethys* Munari and Báez, 2000

**Palaeartic: Italy** - Liguria: (Imperia), Ventimiglia, Balzi Rossi, 5.v.1980, 1 ♀; Sardegna: (Sassari), La Maddalena, Punta Tegge, 14.vi.1978, 1 ♀. **Spain** - [A: T015, T016] Balearic Islands, Ibiza, Redonda Island, 23, 26.vi.1988, 2 ♂♀.

**Remarks.** *T. tethys* is a very rarely collected species with extremely localised records. It is probably more diffusely widespread in suitable habitats throughout the West Palaeartic Region, from Azores to the Mediterranean subregion.

*Tethina willistoni* (Melander, 1913)

**Australasian/Oceanian: United States** - Hawaii Islands: Hawaii, Hilo, ix, 1 ♂; Mahui, Lahaina, x, 3 ♂♀; Oahu, Waimanalo, x, 3 ♂♀; Oahu, Honolulu, viii, 1 ♂.

**Nearctic: Bermuda** - Horseshoe Bay, xi, 2 ♂♀. **United States** - [PT, *Rhichnoessa variseta* Melander, 1952, junior synonym] California, Corona del Mar, 2 ♂; Texas, Galveston Co., W of Galveston, 3 ♂♀.

**Neotropical: Barbados** - Silver Sands, viii, 1 ♂. **Guadeloupe** [France] - Le Moule, iv, 2 ♂♀; Plage Grande Anse, vii, 6 ♂♀. **Jamaica** - Long Bay, viii, 1 ♀. **Mexico** - Acapulco, Revolcadero, ix, 4 ♂♀;

Chiapas, Puerto Arista, v, 2 ♂; Vera Cruz, ix, 8 ♂♀. **Venezuela** - Caracas, Todasana Beach, ix, 7 ♂♀; North Coast, Cuyagua, N of Rancho Grande N.P., iv, 4 ♂♀.

*Tethina xanthopoda* (Williston, 1896)

**Neotropical: Antigua** - West Island, near airport, iii, 1 ♂ [specimen lost, only terminalia stored in a small plastic vial]. **Barbados** - St. Andrew, Long Pond, v, 1 ♂. **Belize** - Belize District, Turneffe Islands, Calabash Cays, iii, 1 ♂; Stann Creek District, Carrie Bow Cay, i, 1 ♂. **Bermuda** - Pembroke Park, Admiralty House Beach, vi, 1 ♂. **Cuba** - Matanzas Pr[ovince], Playa Larga, v, 2 ♂. **Curaçao** - Westpunt, ii, 1 ♂. **Dominica** - Layou R[iver] mouth, i, 2 ♂. **Grand Cayman** - Double Head, iv, 2 ♂. **Grenada** - St. George, Bouséjour Bay, ix, 1 ♂. **Guadeloupe** [France] - Le Moule, iv, 3 ♂; Sainte-Rose, Plage les Amandiers, iv, 4 ♂♀. **Jamaica** - Clarendon, Barnswell Beach, v, 1 ♂; Manchester, Alligator Pond, v, 1 ♂. **Panama** - Mojinga Swamp, vii, 1 ♂. **Puerto Rico** - Playa de Guayanilla, ix, 2 ♂. **Saint Vincent** - West Island, Cumberland Bay, vi, 1 ♂. **St. Lucia** - Soufrière, vi, 1 ♂. **Tobago** - Lowlands, ii, 1 ♂; St. John, Charlotteville, vi, 2 ♂. **Trinidad** - St. Patr[ick], Chatham, vi, 1 ♂.

**Remarks.** MUNARI (2013) provided some interesting observations about the variation in the morphology of the male terminalia, especially in relation to the Caribbean distribution of this species.

*Tethina yaromi* Freidberg and Beschovski, 1996

**Palaeartic: Spain** - [PT] Almeria, Cabo de Gata Natural Park, Dune Reserve, 4 ♂♀.

*Tethina* sp. near *yaromi* Freidberg and Beschovski, 1996

**Palaeartic: Spain** - Alicante, Guardamar/Segura, 16.v.1989, 1 ♂.

**Remarks.** The type locality of *T. yaromi* is only about 203 km SW from "Guardamar del Segura". The male terminalia of this specimen are virtually identical (in both lateral and caudal views) to those of *T. yaromi*. However, it remarkably differs from the latter species mainly by a distinctly paler (cinereous) body, bright yellow legs (piceous black in *T. yaromi*), milky wings (infuscated in *T. yaromi*) with paler veins, and distinctly paler and slightly more reduced scutellar spot, which is of a very regular round shape. Facial prognathism, length of the labellum and acrostichals are strongly similar in the two species.

*Tethina yemenensis* Munari, 2007

**Afrotropical: Yemen** - [PT] Al Kowd, light trap, 6 ♂♀.

*Tethina* sp. (unidentified)

**Neotropical: Brazil** - [A: T014] Ceara, Pecem, 14.ii.1998, 2 ♂♀.

*Tethina* ?spp. nov. "i" and "ii"

**Palaeartic: Morocco.**

Sp. "i": "Flussmündung des Qued, ca. 3.5 km WNW Briech", 24.iii.2016, 1 ♂.

Sp. "ii": "3 km NE Azemmour", 19.iii.2016, 1 ♀.

**Remarks.** These species of doubtful identification are characterised as follows: Sp. "i") Femora and hind tibia as in *T. nigrofemorata* Beschovski, but surstylus different, like that of some specimens of the *T. strobliana* complex. Sp. "ii") Very large longitudinal stripe on gena, larger than the genal stripe of *T. pallipes* (Loew), but with 4 obvious regular rows of acrostichal setulae (2, sometimes 3, rows in *T. pallipes*).

*Thitena cadaverina* Munari, 2004

**Australasian/Oceanian: Australia** - [PT] Western Australia, Barrow Island, beach, on dead turnstone, 2 ♂♀.

**Remarks.** A monotypic genus known only from the type locality in Western Australia.

Tethininae, gen. et sp. nov. (unnamed, not yet studied)

**Australasian/Oceanian: Australia** - [A: T011] SW Australia, Hopetown, southern coast, 31.iii.1989, 1 ♀.

Subfamily ZALEINAE

*Suffomyia dancei* Munari, 2008

**Afrotropical: Oman** - [PT] Muscat, Haramel, 3 ♂♀.

*Suffomyia scutellaris* Freidberg, 1995

**Palaeartic: Egypt** - [PT] Sinai, 10 km North of Nueiba, 4 ♂♀.

*Zalea major* (D.K. McAlpine, 1982)

**Australasian/Oceanian: Australia** - New South Wales, Seal Rocks, x, 2 ♂♀.

*Zalea minor* (D.K. McAlpine, 1982)

**Australasian/Oceanian: Australia** - New South Wales, Seal Rocks, x, 8 ♂♀; Wooli, ix, 3 ♂♀.

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