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CHIRONOMIDAE (DIPTERA, NEMATOCERA) FROM MADEIRA

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SUMMARY. Seventeen chironomid taxa were identified from collections made in Madeira in August 1989. Ten are recorded for the first time from the Island. Notes on the taxa are provided together with a list of previously recorded species.

RESUMO. Dezassete taxa de Chironomidae foram identificados em coleções feitas na Madeira em Agosto de 1989, dos quais 10 são novos assinalamentos para a Madeira. Juntamente com uma lista dos assinalamentos anteriores, são fornecidas indicações sobre as espécies.

INTRODUCTION

Collections of adult Chironomidae were made in 7 locations on the Island of Madeira in August 1989. Habitat details and taxa captured are listed below. Some specimens were severely damaged and specific identifications were not possible in all cases.

1. Ponta do Sol (18th August 1989). Flies collected sweeping maritime vegetation.

Species collected: *Smittia nudipennis* (Goetghebuer, 1913)

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2. Monte (17th August 1989). Flies collected in a cultivated zone near an irrigation aquaduct (Levada dos Tornos).
Species collected : *Parametrioctenus stylatus* (Kieffer, 1924)
Paratrachocladius rufiventris (Meigen, 1830)
Bryophaenocladius sp.
Limnophyes sp.
Polypedilum (*Pentapedilum*) sp.
3. Caniçal (29th August 1989). Flies collected at the seashore.
Species collected : *Dicrotendipes septemmaculatus* (Becher, 1908)
Thalassosmittia atlantica (Storå, 1936)
4. Encumeada (20th August 1989). Flies collected in woods, near an irrigation aquaduct (Levada das Rabaças).
Species collected : *Metrioctenus* nr. *martinii* Thienemann, 1921
Smittia nudipennis (Goetghebuer, 1913)
Orthoclaadiinae sp.
5. Campanário (15th August 1989). Flies collected in a cultivated zone, near an irrigation aquaduct (Levada do Norte).
Species collected : *Rheocricotopus atripes* (Kieffer, 1913)
Parametrioctenus stylatus (Kieffer, 1924)
Paratrachocladius rufiventris (Meigen, 1830)
Cricotopus vierrensis Goetghebuer, 1935
Cricotopus beckeri Hirvenoja, 1973
Chironomus nr. *pseudothummi* Strenzke, 1959
Zavrelimyia nubila (Meigen, 1830)
6. Funchai (7th August 1989). Flies collected in a cultivated zone, near an irrigation aquaduct (Levada dos Piornais).
Species collected : *Cricotopus vierriensis* (Goetghebuer, 1935)
Smittia nudipennis (Goetghebuer, 1913)
Virgatanytarsus albisutus (Santos Abreu, 1918)
Chironomus nr. *pseudothummi* Strenzke, 1959
Limnophyes sp.
7. Camacha (21st August 1989). Flies collected in woods near an irrigation aquaduct (Levada da Serra).
Species collected : *Apsectrotanypus trifascipennis*. (Zetterstedt, 1838)
Zavrelimyia nubila (Meigen, 1830)
Cricotopus vierriensis Goetghebuer, 1935
Limnophyes sp.

NOTES ON TAXA

Those taxa marked with * are new records for Madeira.

* **Apsectrotanypus trifascipennis** (Zetterstedt, 1838) a widespread species in Europe but never found before in the Azores or Madeira.

* **Zavrelimyia nubila** (Meigen, 1830) is widely distributed and has been found in the Azores and Madeira. No other *Zavrelimyia* species have been recorded in Madeira.

* **Bryophaenocladus** sp. No species in this genus have been found in Madeira. The species found in this survey possessed a broadly pointed hyaline anal point but was too damaged for specific identification.

Cricotopus beckeri Hirvenoja, 1973 has been found only in Madeira (Becker T., 1908 Dipteren der Insel Madeira. Mitt. Zool. Mus. Berlin 4:181-206 - under the name *bicinctus*).

* **Cricotopus vierriensis** Goetghebuer, 1935 is a widely distributed species occurring in the Nearctic, Afghanistan and Europe. It has been found in the Canary Isles but has not previously been reported from Madeira.

* **Cricotopus** sp. A. This species differs from the preceding two but extensive damage prevented specific identification.

* **Limnophyes** sp. nr. **exiguus** (Goetghebuer, 1913). Two species, *minimus* (Meigen, 1818) and *prolongatus* (Kieffer in Thienemann, 1921) have been found before in Madeira. The species taken in this survey is not either of these and although the specimens were badly damaged they appear to be close to *L. exiguus* (Goetghebuer, 1913), a widespread species which has been taken in the Canary Isles.

* **Smittia nudipennis** (Goetghebuer, 1913). Widely distributed Europe, Asia, Japan. *S. brevisfuscata* (Edwards, 1926) has been found in the Azores, *S. aterrima* (Meigen, 1918) has been recorded in both the Azores and Canary Islands and *S. leucopogon* from Canary Islands. *S. nudipennis* is easily distinguished by its long bare anal point and is a new record for Madeira.

* **Metriocnemus** nr. **martinii** Thienemann, 1921 (= *M. cavicola* Kieffer, 1921). The only species in this genus to have been recorded from

Madeira is *Metriocnemus fuscipes* (Meigen, 1918). The present specimen, although damaged, is readily distinguished from *M. fuscipes* on the basis of its anal point.

Parametriocnemus stylatus (Kieffer, 1924). This species is widespread in Europe and has been recorded previously from the Azores and Madeira.

* **Paratrichocladus rufiventris** (Meigen, 1830). Although often taken in collections from the Canary Isles, has not been recorded from Madeira before.

* **Rheocricotopus atripes** (Kieffer, 1913) (= *R. foveatus* Edwards, 1929). This species is widely distributed in Europe and has been recorded in the Azores. This is the first record of *R. atripes* from Madeira.

Thalassosmittia atlantica (Storå, 1936). This species has been recorded previously from Madeira as *Eukiefferiella atlantica* Storå, 1936. The adult male has recently been redescribed (Armitage, 1986) and following collections of pupal and female material has been assigned to the genus *Thalassosmittia* (Armitage & Tuiskuinen, 1988). The specimens collected from Madeira in August 1989 are interesting because they included individuals with very pubescent eyes and others where the pubescence was hardly detectable and confined only to the edge of the eye.

Chironomus nr. **pseudothummi** Strenzke, 1959. The *Chironomus* specimens taken at sites 5 and 6 were badly damaged hence specific identity was impossible.

"**Chironomus dorsalis** Meigen" has been recorded from Madeira by Storå, but its identity is uncertain.

Polypedilum (Pentapedilum) sp., a very widespread genus but not apparently recorded previously from Madeira. *Polypedilum (Polypedilum) convictum* Walker, 1836 is the only firm previous record from Madeira.

* **Dicrotendipes septemmaculatus** (Becker, 1908) is a widespread species occurring in Europe, Asia, Africa and Australasia. Its type locality is Tenerife. This is its first record from Madeira.

* **Virgatanytarsus albisutus** (Santos Abreu, 1918) has been recorded previously from North Africa. Its type locality is in the Canaries (Isla de la Palma) and this is its first record from Madeira.

The current list of Chironomidae species found in Madeira is presented below and is abstracted from Storå, 1949, Freeman, 1959a and the present study. Nomenclature as in Cranston (in press).

TELMATOGENONINAE

Thalassomya frauenfeldi Schiner, 1856

TANYPODINAE

Apsectrotanypus trifascipennis (Zetterstedt, 1838)

Zavrelimyia nubila (Meigen, 1830)

DIAMESINAE

Boreoheptagyia legeri (Goetghebuer, 1933)

Diamesa alata Storå

Bryophaenocladus sp.

ORTHOCLADIINAE

Cardiocladius freyi Storå, 1945

Chaetocladius melaleucus (Meigen, 1818)

Cricotopus beckeri Hirvenoja, 1973

Cricotopus vierriensis Goetghebuer, 1935

Cricotopus sp. A.

Eukiefferiella devonica (Edwards, 1929)

Halocladus varians (Staeger, 1839)

Limnophyes sp. nr. *exiguus* (Goetghebuer, 1913)

Limnophyes minimus (Meigen, 1818)

Limnophyes prolongata (Kieffer, 1923)

Metriocnemus fuscipes (Meigen, 1818)

Metriocnemus sp. nr. *martinii* Thienemann, 1921

Metriocnemus ochraceus Wulp, 1858¹

Parametriocnemus stylatus (Meigen, 1818)

Paraphaenocladus impensus (Walker, 1856)

Paratrichocladus rufiventris (Meigen, 1830)

Rheocricotopus atripes (Kieffer, 1913)

Smittia aterrima (Meigen, 1818)

Smittia nudipennis (Goetghebuer, 1913)

Smittia stercoraria (Degeer, 1776)

Synorthocladus semivirens (Kieffer, 1909)

Thalassosmittia atlantica (Storå, 1936)

Thienemaniella clavicornis (Kieffer, 1911)

CHIRONOMINAE - CHIRONOMINI

"*Chironomus dorsalis* Meigen" ??²

Chironomus sp. nr. *pseudothummi* Strenzke, 1959

Dicrotendipes septemmaculatus (Becker, 1908)

Polypedilum (*Polypedilum*) *convictum* (Walker, 1856)

CHIRONOMINAE - TANYTARSINI

Micropsectra freyi Storå, 1945³

Micropsectra junci (Meigen, 1818)

Virgatanytarsus albisutus (Santos Abreu, 1918)

¹ Nomen dubium in Orthoclaadiinae

² Uncertain identification

³ Nomen dubium in *Micropsectra*

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