

FAUNA HELVETICA

1

DIPTERA - CHECKLIST

B. MERZ, G. BÄCHLI, J.-P. HAENNI & Y. GONSETH (EDS.)

Centre suisse de cartographie de la faune
Schweizerische Entomologische Gesellschaft

1998

Centre suisse de cartographie de la faune (CSCF/SZKF)
Schweizerische Entomologische Gesellschaft (SES/SEG)
Terreaux 14, CH-2000 Neuchâtel

Schriften der Herausgeber / Adresses des éditeurs :

Erhard Merz, Entomologische Sammlung ETH, ETH-Zentrum, CH-8092 Zürich

Erhard Bächli, Zool. Museum, Universität Zürich-Irchel, Winterthurerstr. 190, CH-8057 Zürich

Man-Paul Haenni, Muséum d'Histoire naturelle, Terreaux 14, CH-2000 Neuchâtel

Yves Gonseth, CSCF, Terreaux 14, CH-2000 Neuchâtel

Redaktion / Rédaction :

Erhard Burckhardt, Naturhistorisches Museum, Basel

Yves Gonseth, CSCF, Neuchâtel

Übersetzungen / Traductions :

Christian C. Pont, Willy Geiger

Layout / Mise en page :

Manuela Leonetti, CSCF, Neuchâtel

Ansichtswurf / Maquette de couverture :

Christine Ramseyer, Musée d'histoire naturelle, Neuchâtel

Illustration / Dessin de couverture :

Yves Borcard, *Phaenocarpa maculata* (Meig.), Yves Borcard

Finanzieller Unterstützung / Avec le soutien financier de :

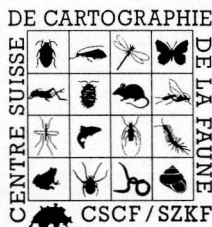
Erhardmann-Mantel-Stiftung, Dr. A. Reichmuth

Schrift Helvetica 1

Anzahl / Tirage : 500 ex.



Schweizerische Entomologische Gesellschaft
Société Entomologique Suisse



Alle Rechte vorbehalten / Tous droits réservés

© 1998 CSCF und SEG

ISBN 2-88414-012-3 / ISSN 1422-6367

13. Ceratopogonidae

Ryszard Szadziewski

Nomenclature: CPD 3: 11-110, BORKENT & WIRTH (1997)

Number of species: in Switzerland: 55 - in Europe: 520

Faunistic knowledge of the family in Switzerland: poor

List:

Ceratopogoninae

Bezzia albicornis (Meigen, 1818) ! * [13]

- *winnertziana* Kieffer, 1919 ! * [1]

Brachypogon alpinus (Clastrier, 1961) L5

Culicoides albicans (Winnertz, 1852) ! * [2]

- *chiopterus* (Meigen, 1830) ! * [1]

- *delta* Edwards, 1939 ! L11

- *festivipennis* Kieffer, 1914 ! L6

- *furcillatus* Callot, Kremer & Paradis, 1962 ! * [6]

- *helveticus* Callot, Kremer & Déduit, 1962 L4

- *kibunensis* Tokunaga, 1937 ! L4

- *obsoletus* (Meigen, 1818) ! * [4, 6, 9]

- *pallidicornis* Kieffer, 1919 L4

- *pictipennis* (Staeger, 1839) ! * [1]

- *punctatus* (Meigen, 1804) ! L4

- *scoticus* Downes & Kettle, 1952 ! * [4]

- *segnis* Campbell & Pelham-Clinton, 1960 ! * [6]

Mallochohelea alpina (Clastrier, 1962) L6

Palpomyia flavicornis (Staeger, 1839) ! * [12]

- *serripes* (Meigen, 1818) ! * [2]

- *spinipes* (Panzer, 1806) ! * [2]

Schizohoelea leucopeza (Meigen, 1804) ! L9

Serromyia femorata (Meigen, 1804) ! * [1, 3-5, 9]

- *ledicola* Kieffer, 1925 ! * [8, 12]

- *subinermis* Kieffer, 1919 ! * [1, 4, 5, 9]

Forcipomyiinae

Atrichopogon brunnipes (Meigen, 1804) ! * [7]

- *flaveolus* Zilahi-Sebess, 1936 L11

- *forcipatus* (Winnertz, 1852) L1

- *fusculus* (Coquillett, 1901) ! L11

= *polydactylus* Nielsen, 1951

- *lucorum* (Meigen, 1818) ! * [2, 4]

- *maculatus* (Lundstroem, 1910) ! * [2]

= *avastensis* Remm, 1959

- *minutus* (Meigen, 1830) ! * [2]

- *oedemerarum* Storå, 1939 ! * [4]
- *pavidus* (Winnertz, 1852) ! * [2]
- *winnertzi* Goetgebuer, 1922 ! * [6]
- Dasyhelea dufouri* (Laboulbène, 1869) ! * [1, 3, 4]
- *flavoscutellata* (Zetterstedt, 1850) ! * [6]
- *modesta* (Winnertz, 1852) ! * [6, 13]
- *notata* Goetgebuer, 1920 ! * [2]
- Forcipomyia alacris* (Winnertz, 1852) ! * [11]
- *bipunctata* (Linnaeus, 1767) ! * [3, 6, 8]
- *braueri* (Wasman, 1893) L13
- *brevipennis* (Macquart, 1826) ! * [3, 6-9]
- *costata* (Zetterstedt, 1838) ! L2
- *fuliginosa* (Meigen, 1818) ! * [6]
- *glauca* Macfie, 1934 ! * [2]
- *monilicornis* (Coquillett, 1905) ! * [2, 6, 7]
- *nigra* (Winnertz, 1852) ! * [4]
- *pallida* (Winnertz, 1852) ! * [4]
- *paludis* (Macfie, 1936) ! * [10]
- *palustris* (Meigen, 1804) ! * [4, 6]
- *phlebotomoides* Bangerter, 1933 L1
- *pulchrithorax* Edwards, 1924 ! * [4]
- *tenuis* (Winnertz, 1852) ! * [1, 6]
- *tonnoiri* (Goetgebuer, 1920) ! * [6]
- *velox* (Winnertz, 1852) ! * [2]

Notes:

1. Ceratopogonidae from Switzerland have received little attention by collectors and students and are very poorly known. The present list is based mostly on study of scanty material deposited in the collections of the MHNN completed by occasional literature records. No area has been intensively collected and the fauna of many regions remains totally unknown. The total number of species expected to occur in Switzerland should be about 200-220.
2. Species of *Bezzia* and *Palpomyia* have been identified by Jarosław Krzywiński, University of Gdańsk (Poland).
3. Localities of species recorded for the first time from Switzerland:
 - [1]. GE: Chênes-Bougeries, June 1994, R. Szadziewski (DZUG).
 - [2]. VD: Grangettes, June-July 1979, Ch. Dufour & W. Geiger (MHNN); Grangettes (Gros Brassat), May-Aug. 1992, M. Sartori (MZL).
 - [3]. NE: Neuchâtel, May-July 1995, J.-P. Haenni (MHNN).
 - [4]. NE: Rochefort (Château), June 1994, S. Barbalat; May-Sept. 1982, Ch. Dufour (MHNN).
 - [5]. NE: Colombier (Chanet), May-June 1994, S. Barbalat (MHNN).
 - [6]. TI: Vezia San Martino, June-Oct. 1979, Ch. Dufour & W. Geiger (MHNN).
 - [7]. FR: Schwarzsee, Sept. 1995, C.-P. Haenni (MHNN).
 - [8]. NE: Tourbière du Cachot, Oct. 1973, W. Matthey (MHNN).
 - [9]. NE: Brot-Dessous, June-Sept. 1994, S. Barbalat (MHNN).

- [10]. VS: Forêt de Finges, 25 July 1985, (on *Calopteryx virgo*), female, M. Sartori (MZL).
 [11]. VD: Chabrey, Sept. 1995, J.-P. Haenni (MHNN).
 [12]. SZ: Ibergeregpass, Aug. 1989, A. Palaczyk (DZUG).
 [13]. VD: Champmartin, Febr.-May 1974, J.-P. Haenni (MHNN).

Literature

1. BANGERTER, H., 1933. Mücken-Metamorphosen V. *Konowia* 12: 248-259, 1 pl.
2. BASSET, Y., 1985. Les peuplements d'Arthropodes sur *Pinus mugo* Turra dans les tourbières du Haut-Jura neuchâtelois. *Bulletin de la Société Neuchâteloise des Sciences Naturelles* 108: 63-76.
3. BORKENT, A. & WIRTH, W.W. 1997. World Species of Biting Midges (Diptera: Ceratopogonidae). *Bulletin of the American Museum of Natural History* 233: 1-257.
4. CALLOT, J., KREMER, M. & DÉDUIT, J. 1962. Nouvelles espèces et nouvelles localisations de *Culicoides* (Diptera: Ceratopogonidae) des Ardennes, du centre de la France, du Jura Français et du Jura Suisse. *Annales de Parasitologie Humaine et Comparée* 37: 153-171.
5. CLASTRIER, J. 1961. Notes sur les Cératopogonidés. XV. *Ceratopogon* et *Alluaudomyia* de la région paléarctique. *Archives de l'Institut Pasteur d'Algérie* 39(4): 401-437.
6. CLASTRIER, J. 1962. Notes sur les Cératopogonidés. XVI. Nouveaux *Palpomyia* Meig. et *Johannsenomyia* Mall. *Archives de l'Institut Pasteur d'Algérie* 40: 225-288.
7. DOWNES, J.A. & WIRTH, W.W. 1981. Ceratopogonidae. In: McALPINE, J.F. (ed.), *Manual of Nearctic Diptera*, vol. 1, pp. 393-421. Research Branch, Agriculture Canada. [identification key to genera and subgenera]
8. GLUKHOVA, V.M. 1989. [Blood-sucking midges of the genera *Culicoides* and *Forcipomyia* (Ceratopogonidae)]. *Fauna of the USSR* 139: 1-408. Izd. Nauka, Leningrad [in Russian]. [identification key to hematophagous species]
9. KIEFFER, J.J. 1915. Neue Chironomiden Mitteleuropas. *Brotéria, Serie Zoologia* 13(2): 65-87.
10. ORSZAGH, I. 1980. Ceratopogonidae. In: CHVÁLA, M. (ed.), *Fauna ČSSR. Krevsajíci mouchy a střečci*. Česk Akad. VED, Praha, pp. 20-143. [identification key to hematophagous species]
11. SZADZIEWSKI, R., KACZOROWSKA, E. & KRZYWIŃSKI, J. 1996. Redescriptions of some European *Atrichopogon* (Diptera: Ceratopogonidae). *Polskie Pismo Entomologiczne* 65: 297-318.
12. SZADZIEWDKI, R., KRZYWIŃSKI, J. & GIŁKA, W. 1997. Diptera Ceratopogonidae, Biting midges. In: NILSSON, A. (ed.), *Aquatic Insects of North Europe - A taxonomic Handbook*, vol 2: 243-263. Apollo Books, Steenstrup [identification key to genera for larvae, pupae and adults].
13. WASMAN, E. 1893. Einige myrmecophile *Ceratopogon*-Larven. *Wiener Entomologische Zeitung* 12: 277-279.