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THE TIPULIDAE (DIPTERA) OF SLOVENIA, CROATIA, BOSNIA AND HERZEGOVINA, SERBIA, MONTE NEGRO, AND MACEDONIA

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Abstract – 155 species of the family Tipulidae (Diptera), known from the countries that in the recent past formed Yugoslavia, are listed. Five species are new for the region: *Nephrotoma appendiculata pertenua* Oosterbroek, *Tipula* (*Pt.*) *cinereicosta* Lundstrom, *T. (S.) boreosignata* Tjeder, *T. (S.) cheethami* Edwards and *T. (T.) italica italica* Lackschewitz. The numbers of taxa by country are: Slovenia 82, Croatia 86, Bosnia and Herzegovina 75, Serbia 92, Monte Negro 75, and Macedonia 97. 11 species which, by present knowledge, do not occur in the area, are omitted from the list.

KEY WORDS: Diptera, Tipulidae, fauna, Slovenia, Croatia, Bosnia and Herzegovina, Serbia, Monte Negro, Macedonia

Izvleček – KOŠENINARJI (DIPTERA: TIPULIDAE) SLOVENIJE, HRVAŠKE, BOSNE IN HERCEGOVINE, SRBIJE, ČRNE GORE IN MAKEDONIJE

Našteti so 155 vrst družine Tipulidae (Diptera), znanih iz držav, ki so v bližnji preteklosti sestavljale Jugoslavijo. Pet vrst je novih za to območje: *Nephrotoma appendiculata pertenua* Oosterbroek, *Tipula* (*Pt.*) *cinereicosta* Lundstrom, *T. (S.) boreosignata* Tjeder, *T. (S.) cheethami* Edwards in *T. (T.) italica italica* Lackschewitz. Število taksonov po državah je: Slovenija 82, Hrvaška 86, Bosna in Hercegovina 75, Srbija 92, Črna gora 75 in Makedonija 97. 11 vrst, ki po sedanjem poznavanju ne živijo na območju, je izločenih s seznama.

KLJUČNE BESEDE: Diptera, Tipulidae, favna, Slovenija, Hrvaška, Bosna in Hercegovina, Srbija, Črna gora, Makedonija

Introduction

In this paper we list the species of the dipteran family Tipulidae known from the countries that in the recent past formed the Yugoslav Republic. One of the reasons for presenting this information is the ongoing Fauna Europaea Project which aims to provide a species inventory of all European countries.

The survey of the species from the region started in the second half of the 19th century and at the beginning of the 20th century by the well-known dipterists Egger (1863), Loew (1873), Bergroth (1888), and Strobl (1893-1902), who had described and/or documented about one-third of the presently known 155 species and sub-species. The large majority of these have become known in the second half of the 20th century, especially through the extensive faunistic work of the first author. Since 1959, the results of her studies have been put down in a series of papers, frequently in collaboration with other students. The number of taxa in the countries are

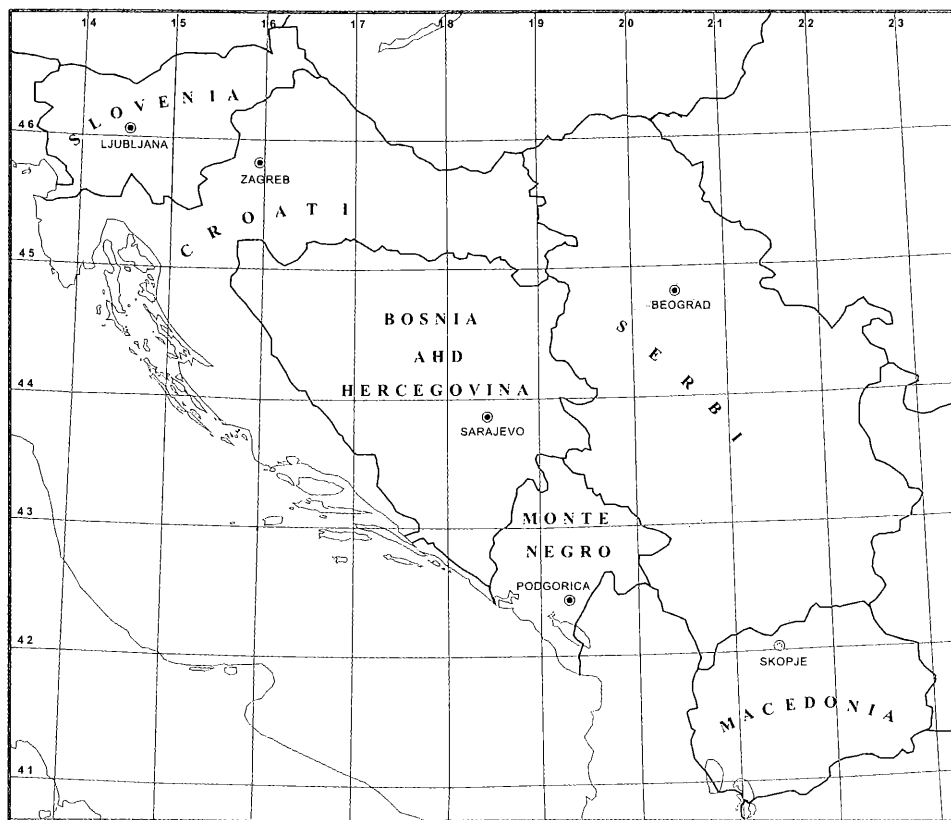


Fig. 1: Investigated region.

as follows: Slovenia 82, Croatia 86, Bosnia and Hercegovina 75, Serbia 92, Monte Negro 75, and Macedonia 97.

In the list below the systematic arrangement and nomenclature largely follows the Catalogue of Palaearctic Diptera (Oosterbroek & Theowald, 1992). For every species or subspecies the countries and the references for these countries are given, followed by remarks (for example, if in certain publications the taxon has been listed under a name different from the one we are using). The abbreviations for the countries are: **SL**: Slovenia; **CR**: Croatia; **BH**: Bosnia and Hercegovina; **SR**: Serbia; **MN**: Monte Negro; **MA**: Macedonia. **T** and **t** marks type locality and type locality of synonym. The abbreviations for the references can be found in the list of references behind the author(s) and year (they consist of one or more letters for the author(s) and the last two numbers of the year, for example B88 is Bergroth 1888).

The following collections are indicated if material is present:

BMNH: British Museum of Natural History, London (species of *Nephrotoma*)

FAB: Faculty of Agriculture, Belgrade (only the new localities are listed because all other material has been dealt with already in the various publications of the first author)

MNHN: Museum National d'Histoire Naturelle, Paris (species of *Nephrotoma*)

OOLL: Oberösterreichisches Landesmuseum, Linz (species of *Lunaticipula*)

ZFMK: Zoologisches Forschungsinstitut und Museum Alexander Koenig (collection Mannheims)

ZMAN: Zoologisch Museum Amsterdam

These museum records include five species new for the region. For these species, as well as in case of new country records, we have added the locality.

The list is completed with the names of species that in the past have been recorded from the region but according to our present knowledge do not occur there.

List of species

Ctenophora (Cnemoncosis) fastuosa Loew, 1871

CR: SP79, SV81, TO86, OT92

Ctenophora (Cnemoncosis) festiva Meigen, 1804

SL: SS78, SV81, SS84, TO86; **CR**: La17, SP79, SV81, TO86; **SR**: SR00, C60;

ZMAN (Borsko Jezero); **MA**: S74, S77, SV81, TO86

Ctenophora (Cnemoncosis) ornata Meigen, 1818

SL: SS78, SV81, TO86; **CR**: La17, SP79, SV81, TO86; **ZMAN**; **SR**: S62, S74,

S77, S79, SV81, TO86; **MA**: S74, S77, ST77, SV81, TO86

Ctenophora (Ctenophora) elegans Meigen, 1818

CR: La17, SP79, SV81, TO86, OT92; **BH**: SR00

Ctenophora (Ctenophora) flaveolata (Fabricius, 1794)

CR: SR98, SR00, SP79, SV81, TO86; **BH**: SR98, SR00, S74, S77, SV81, TO86;

SR: **ZMAN** (Krupac, NW Bela Palanka); **FAB** (Kosmaj); **MA**: S74, S77, SV81, TO86

Ctenophora (Ctenophora) guttata Meigen, 1818

CR: M51, S74, SP79, SV81, TO86; **BH:** SR98, SR00, S74, S77, SV81, TO86;
SR: S62, S74, S77, S79, SV81, TO86; **MA:** S74, S77, SV81, TO86

Ctenophora (Ctenophora) pectinicornis (Linnaeus, 1758)

CR: La17, SP79, SV81, TO86, SV87; **MN:** SV87

Dictenidia bimaculata (Linnaeus, 1761)

CR: La17, SP79, SV81, TO86, SV87; **ZFMK:** **BH:** SR98, SR00, S74, S77, SV81,
 TO86, SV87; **SR:** C58, S74, S77, S79, SV81, TO86, SV87; **MN:** C60, SV87;
MA: S74, S77, SV81, TO86, SV87

Dolichozepea (Dolichozepea) albipes (Ström, 1768)

SL: B88

Remark: Verification of this older record is required but it seems unlikely that it pertains to *graeca* Mannheims, the only other *Dolichozepea* known from the region.

Dolichozepea (Dolichozepea) graeca Mannheims, 1954

SR: S78, SV81, TO86, OT92; **ZMAN**

Nephrotoma aculeata (Loew, 1871)

SL: SVS90; **BH:** SVS90; **SR:** S74, S79, SV81, TO86, SVS90; **ZMAN:** **MN:**
 SV81, TO86, SV87; **MA:** S59, S74, S77, SV81, TO86, SVS90

Nephrotoma analis (Schummel, 1833)

SL: SVS90; **ZFMK:** **CR:** ZFMK (Plitvice); **MA:** S74, S77, SV81, TO86, SVS90;
ZMAN

Nephrotoma appendiculata appendiculata (Pierre, 1919)

SL: B88, S62, S74, S77, SS78, SV81, SS84, TO86; **CR:** La17, C60, S62, S74,
 S77, SP79, SV81, TO86; **BMNH:** **ZFMK:** **ZMAN:** **BH:** SR98, SR00, SR02, S59,
 S74, S77, SV81, TO86; **ZMAN:** **SR:** SR02, S59, S74, S77, S79, SP79, SV81,
 TO86; **ZFMK:** **ZMAN:** **MN:** SR02, S59, C60, S62, S74, S77, SV81, TO86,
 SV87; **BMNH:** **ZMAN:** **MA:** S59, S74, S77, ST77, SV81, TO86; **ZFMK:** **ZMAN**

Remark: Mannheims 1951: Type-locality (Starova, Macedonia) is in northern Greece; all except TO86 as *maculata* Meigen or, SV81, as *maculosa* Meigen

Nephrotoma appendiculata pertenua Oosterbroek, 1978

CR: BMNH (Rab Island); **ZMAN** (idem)

Remark: New for the region

Nephrotoma cornicina cornicina (Linnaeus, 1758)

SL: SVS90; **ZFMK:** **CR:** SP79, SV81, SVS90; **BMNH:** **ZMAN:** **BH:** S74, S77,
 SV81, TO86, SVS90; **SR:** S74, S77, S79, SV81, TO86, SVS90; **ZFMK:** **ZMAN:**
MN: SV81, SV87, SVS90; **MA:** S59, C60, S74, S77, ST77, SV81, SVS90;
BMNH: **ZMAN**

Nephrotoma crocata crocata (Linnaeus, 1758)

SL: B88, SS78, SV81, TO86; **ZMAN;** **CR:** La17, SP79, SV81, TO86; **BH:** S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MA:** S59, S60, S74, S77, ST77, SV81, TO86

Remark: S60 as *hartigi* Mannheims

Nephrotoma croceiventris lindneri (Mannheims, 1951)

SL: SS78, SV81, TO86; **CR:** S62, S74, S77, SP79, SV81, TO86; **BH:** S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **ZMAN;** **MN:** ZFMK (Lovčen); ZMAN (Kolašin); **MA:** S59, S74, S77, SV81, TO86; **MNHN;** ZMAN

Nephrotoma dorsalis (Fabricius, 1782)

SL: SV81, TO86; **CR:** SV81, TO86; **SR:** SV81, TO86

Nephrotoma euchroma (Mik, 1874)

SL: SV81, TO86, OT92; **CR:** La17, SP79

Nephrotoma flavescens (Linnaeus, 1758)

SL: SS78, SV81, SS84, TO86; **CR:** La17, C58, SP79, SV81, TO86; **BMNH;** ZFMK; **ZMAN;** **BH:** SR98, SR00, S59, S74, S77, SV81, TO86; ZFMK; **ZMAN;** **SR:** S62, S74, S77, S79, SV81, TO86; **ZMAN;** **MN:** SV81, TO86, SV87; **ZMAN;** **MA:** S59, S60, S74, S77, ST77, SV81, TO86; **ZMAN**

Remark: SR98, SR00, and S59 as *lineata* Scopoli

Nephrotoma flavipalpis (Meigen, 1830)

CR: S74, SV81, TO86; **ZMAN;** **BH:** ZMAN (motel Hajdučka voda, between Dobož and Banja Luka); **MN:** ZMAN (Šavnik, reka Komarnica)

Nephrotoma guestfalica guestfalica (Westhoff, 1879)

BH: O78; **ZMAN;** **MA:** S59, S74, S77, SV81, TO86; **MNHN**

Nephrotoma lamellata lamellata (Riedel, 1910)

SR: FAB (Zlatar mountain)

Remark: recorded from YU [= former Yugoslavia] in OT92

Nephrotoma lunulicornis (Schummel, 1833)

SL: B88, SVS90; **CR:** La17, ZFMK (Plitvice); **BH:** ZMAN (Vitez); **SR:** S74, S77, S79, SV81, TO86, SVS90; **MN:** C60; **MA:** S59, S74, S77, SV81, TO86, SVS90

Nephrotoma pratensis pratensis (Linnaeus, 1758)

SL: B88, SVS90; **CR:** La17, SP79, SV81, TO86; **BH:** SR98, SR00, S59, S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MA:** S59, S74, S77, SV81, TO86

Nephrotoma quadrifaria quadrifaria (Meigen, 1804)

SL: SV81, SS84, TO86; **ZMAN;** **CR:** La17, S74, S77, SP79, SV81, TO86; **BH:** S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MA:** P19, S59, S74, S77, SV81, TO86; **ZMAN**

Nephrotoma quadristriata (Schummel, 1833)

CR: SP79, SV81, TO86; **MA:** SV81

Nephrotoma scalaris scalaris (Meigen, 1818)

SL: B88, SS78, SV81, SS84, TO86; **ZMAN;** **CR:** S74, S77, SV81, TO86; **BMNH;** **ZFMK;** **ZMAN;** **BH:** S74, S77, SV81, TO86; **BMNH;** **SR:** S74, S77, S79, SV81, TO86; **ZMAN;** **MN:** BMNH (Virpazar); **ZMAN** (Budva); **MA:** C58, S59, S74, S77, ST77, SV81, TO86; **BMNH;** **ZFMK;** **ZMAN**

Remark: B88 as *imperialis* Meigen

Nephrotoma scurra (Meigen, 1818)

CR: La17, SV81, TO86; **MA:** S60, S74, S77, SV81, TO86

Nephrotoma tenuipes (Riedel, 1910)

SL: SVS90; **SR:** S74, S79, SV81, TO86, SV87, SVS90; **MN:** SV81, TO86, SV87, SVS90; **MA:** S59, S74, S77, SV81, TO86, SV87, SVS90

Nigrotipula nigra nigra (Linnaeus, 1758)

SL: B88, SVS90; **ZMAN;** **CR:** SV81, TO86, SVS90; **SR:** S74, S77, S79, SV81, TO86, SVS90; **MA:** S60, S74, S77, SV81, TO86, SVS90; **ZMAN**

Remark: S60 as *nigra* var. *rufopicea* Westhoff

Tanyptera (Tanyptera) atrata atrata (Linnaeus, 1758)

SL: SS78, SV81, TO86; **CR:** La17, S74, S77, SP79, SV81, TO86; **ZMAN;** **BH:** SR98, SR00, S74, S77, SV81, TO86; **SR:** S64, S74, S77, S79, SV81, TO86; **MA:** S74, S77, ST77, SV81, TO86

Tanyptera (Tanyptera) nigricornis nigricornis (Meigen, 1818)

CR: S74, S77, SV81, TO86; **SR:** S64, S74, S77, S79, SV81, TO86; **MA:** S74, S77, SV81, TO86

Tipula (Acutipula) balcanica Vermoolen, 1983

SL: B88, SS78, SV81, SS84, TO86; **CR:** La17, SR02, SP79, SV81, V83, TO86; **ZFMK;** **ZMAN;** **BH:** SR98, SR00, S59, S74, S77, SV81, V83, TO86; **ZFMK;** **SR:** S74, S77, S79, SV81, V83, TO86; **ZMAN;** **MN:** C60, S74, SV81, V83, TO86, SV87; **ZMAN;** **MA:** P19, S59, S74, S77, ST77, SV81, TO86

Remark: all as *maxima* Poda or, La17, V83, TO86, and SV87, as subspecies of *maxima* Poda; various references from the more southern countries might as well pertain to *latifurca* Vermoolen

Tipula (Acutipula) bosnica Strobl, 1898

SL: SVS90; **BH:** T. S74; **SR:** S74, S77, S79, SV81, TO86, SVS90; **MA:** S59, S74, S77, SV81, TO86, SVS90

Remark: the type locality Ivan refers to Ivan planina in Bosnia; all as *decipiens* Čížek; S74 also as *pruinosa* var. *bosnica* Strobl.

Tipula (Acutipula) fulvipennis Geer, 1776

SL: SVS90; **ZMAN;** **CR:** La17, SP79, SV81, TO86, SVS90; **BH:** M52, S74, S77, SV81, TO86, SVS90; **SR:** S62, S74, S77, S79, SV81, TO86, SVS90; **MN:** S62, S77, SV87, SVS90; **MA:** S74, S77, ST77, SV81, TO86, SVS90

Tipula (Acutipula) ismene Mannheims, 1969

MA: SVS90

Tipula (Acutipula) latifurca Vermoolen, 1983

BH: V83; **ZMAN;** **MA:** V83, TO86; **BMNH;** **ZMAN**

Tipula (Acutipula) luna Westhoff, 1879

SL: SS78, SV81, SS84, TO86; **CR:** SP79, SV81, TO86; **ZMAN;** **BH:** S74, S77, SV81, TO86; **SR:** S74, S79, SV81, TO86; **MN:** SV81, TO86; **MA:** S59, S74, S77, SV81, TO86; **ZMAN**

Tipula (Acutipula) schmidti Mannheims, 1952

MA: S73, S74, S77, SV81, TO86, OT92; **ZMAN**

Tipula (Acutipula) tenuicornis Schummel, 1833

CR: SP79, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MA:** S60, S73, S74, S77, SV81, TO86

Tipula (Acutipula) vittata Meigen, 1804

SL: SS84; **CR:** FAB (Novska); **BH:** SR98, SR00, S74, S77, SV81, TO86, SVS90; **SR:** S73, S74, S77, S79, SV81, TO86, SVS90; **FAB (Kosmaj); MN:** SVS90; **MA:** S74, S77, SV81, TO86, SVS90; **ZMAN**

Tipula (Beringotipula) unca unca Wiedemann, 1817

BH: FAB (Vituša; Tjentište); **SR:** S79, SV81, TO86; **MN:** SV87; **ZMAN**

Tipula (Dendrotipula) flavolineata Meigen, 1804

SL: SS78, SV81, SS84, TO86, OT92; **ZMAN;** **SR:** FAB (Goč)

Tipula (Emodotipula) obscuriventris Strobl, 1900

SL: ZFMK (Kamniška bistrica); **SR:** SVS90; **ZMAN;** **MN:** S62, S77, T80, TO86, SV87, SVS90; **ZMAN;** **MA:** S59, S74, S77, T80, SV81, TO86, SV87, SVS90

Remark: all as *saginata* Bergroth

Tipula (Lunatipula) alpina Loew, 1873

CR: OT92; **ZMAN**

Tipula (Lunatipula) anicilla Mannheims, 1967

CR: SV83, TO86; **BH:** T. S74, SV81, SV83, TO86

Remark: SR in TO86 refers to CR

Tipula (Lunatipula) animula Mannheims, 1967

BH: T. S74, SV81, SV83, TO86, SV87; **MN:** SV83, TO86, SV87; **ZMAN;** **MA:** S62, S74, S77, SV81, SV83, TO86, SV87

Tipula (Lunatipula) bifasciculata Loew, 1873

CR: T. SR02, M67, S74, SP79, SV81, SV83, TO86; **ZFMK;** **BH:** t. (*obscura* Strobl, 1898) S74, SV81, SV83, TO86; **MN:** SV87

Tipula (Lunatipula) bispina Loew, 1873

CR: S74, S77, SV81, SV83, TO86, SV87; **SR:** S74, S77, S79, SV81, SV83, TO86, SV87; **ZFMK;** **MN:** SV87; **MA:** S60, S74, S77, ST77, SV81, SV83, TO86, SV87; **ZMAN**

Tipula (Lunatipula) borysthenica Savchenko, 1954

MA: S59, S74, S77, SV81, TO86, OT92; **ZFMK**

Tipula (Lunatipula) capreola Mannheims, 1966

SR: S79, SV81, SV83, TO86; **MA:** S62, S73, S74, S77, SV81, SV83, TO86

Tipula (Lunatipula) caudatula Loew, 1862

MA: M66, S74, S77, SV81, SV83, TO86, OT92; **ZMAN**

Tipula (Lunatipula) caudispina caudispina Pierre, 1921

MA: S74, S77, SV81, SV83, TO86, OT92

Tipula (Lunatipula) cervina Mannheims and Theowald, 1959

CR: OT92; **OOLL**

Tipula (Lunatipula) cinerascens Loew, 1873

CR: SR93, SR98, SR00, M66, S74, S77, SV81, TO86; **ZFMK;** **BH:** SR98, SR00, S74, SV81, TO86; **MA:** S74, S77, SV81, TO86

Tipula (Lunatipula) cinerella Pierre, 1919

SL: SV81, SV83, SS84, TO86; **BH:** S74, SV81, SV83, TO86; **SR:** S79, SV81, SV83, TO86; **MA:** T. S60, S74, S77, ST77, SV81, SV83, TO86

Remark: the type-locality Monastir (ravin de la cote) refers to Bitola in Macedonia

Tipula (Lunatipula) clio Mannheims, 1954

MN: OT92; **MA:** S60, S74, S77, SV81, SV83, TO86, OT92

Tipula (Lunatipula) danieli Simova, 1972

SL: FAB (Postojna; Bled); **SR:** SV81, SV83, TO86, SV87; **MN:** T. S74, S77, SV81, SV83, TO86, SV87; **ZMAN;** **MA:** S74, S77, SV81, SV83, SV87

Tipula (Lunatipula) engeli Theowald, 1957

BH: S74, S77, SV81, TO86; **ZMAN;** **SR:** S62, S74, S77, S79, SV81, TO86; **MA:** S74, S77, SV81, TO86

Tipula (Lunatipula) eugeniana Simova, 1972

SL: S74, S77, SS78, SV81, SS84, TO86, SV87; **SR:** SV81, SV83, TO86, SV87; **ZMAN;** **MN:** SV83, TO86, SV87; **MA:** T. S74, S77, SV81, SV83, TO86, SV87

Tipula (Lunatipula) fascicula Mannheims, 1966

CR: T. TO86; **MN:** OT92; ZMAN

Tipula (Lunatipula) fascingulata Mannheims, 1966

SL: SVS90; **CR:** ZMAN (Plitvice); **BH:** M66, S74, SV81, TO86; ZFMK; ZMAN; **SR:** S74, S79, SV81, TO86; **MN:** S62, TO86, SV87; ZMAN; **MA:** S74, S77, ST77, SV81, TO86

Remark: S62 as *fasciculata* Riedel

Tipula (Lunatipula) fascipennis Meigen, 1818

SL: B88, SR93, SS78, SV81, SS84, TO86; ZMAN; **CR:** S74, S77, SV81, TO86; **BH:** S74, S77, SV81, TO86; **SR:** S64, S74, S77, S79, SV81, TO86; **MN:** SV87; **MA:** S60, S74, S77, SV81, TO86; ZMAN

Tipula (Lunatipula) furcula Mannheims, 1954

SR: S79, SV81, SV83, TO86; **MN:** SV81, SV83, TO86; **MA:** T. S60, S74, S77, SV81, SV83, TO86

Remark: the type locality Reg. d'Iven et ravins de la côte, S.-E. de Monastir, refers to SE Bitola in Macedonia.

Tipula (Lunatipula) fuscicosta Mannheims, 1954

BH: M68, S74, SV81, SV83, TO86; **SR:** S79, SV81, SV83, TO86; ZMAN; **MN:** FAB (Durmitor: Rasova); **MA:** S74, S77, SV81, SV83, TO86; ZMAN

Tipula (Lunatipula) helvola Loew, 1873

SL: SV81, SS84, TO86; ZMAN; **CR:** T. SR98, SR00, SR02, C58, S59, S74, S77, SV81, TO86; OOLL; ZFMK; **BH:** SR98, SR00, S59, S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; ZFMK; **MN:** TO86, SV87; ZMAN; **MA:** C58, S59, S74, S77, ST77, SV81, TO86

Tipula (Lunatipula) hera Theischinger, 1979

MA: OT92; ZMAN

Tipula (Lunatipula) heros Egger, 1863

SL: FAB (Rogaška Slatina); **CR:** T. La17, C60, S74, S77, SP79, SV81, SV83, TO86, OV89; ZFMK; ZMAN; **BH:** SR98, SR00, S74, S77, SV81, SV83, TO86, OV89; **SR:** S74, S77, S79, SV81, SV83, TO86; ZFMK; **MN:** SV83, TO86, OV89; ZMAN; **MA:** t. (*macrocauda* Pierre, 1926) S60, S74, S77, SV81, SV83, TO86, OV89

Remark: S60 as *macrocauda* Pierre

Tipula (Lunatipula) laetabilis Zetterstedt, 1838

SL: ZMAN (Podolševa, Solčava); **CR:** FAB (Kraljičin Zdenac; Podsused); **BH:** FAB (Banja Luka; Ilijaš; Trebevič); **SR:** S79, SV81, TO86, OT92; **MA:** ZMAN (Babuna pass)

Remark: the record from MA in S59 is based on a misidentification; S59, S79, SV81 as *dilatata* Schummel

Tipula (Lunatipula) lanispina Mannheims, 1966

MA: S74, S77, SV81, SV83, TO86, OT92

Tipula (Lunatipula) limitata Schummel, 1833

SR: SVS90

Tipula (Lunatipula) livida livida Wulp, 1858

SR: S74, S79, SV81, TO86, SV87; **MN:** TO86, SV87; **ZMAN:** **MA:** S60, S74, S77, ST77, SV81, TO86, SV87

Tipula (Lunatipula) lunata Linnaeus, 1758

SL: SV81, SS84, TO86; **ZMAN:** **CR:** La17, S74, SV81, TO86; **BH:** SR98, SR00, S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MA:** P19, S59, S74, S77, SV81, TO86; **ZMAN**

Remark: SR98 as *ochracea* Meigen

Tipula (Lunatipula) macropeliostigma Mannheims, 1954

SR: S79, SV81, SV83, TO86; **ZFMK:** **MA:** S60, M65, S74, S77, SV81, SV83, TO86

Tipula (Lunatipula) macroselene macroselene Strobl, 1893

CR: T; t (*lindneri* Riedel, 1925). **SR98, SR00, SR02, S60, M65, S74, S77, SP79, SV81, SV83, TO86; ZFMK; BH:** S60, S74, S77, SV81, SV83, TO86; **SR:** S74, S77, S79, SV81, SV83, TO86; **MN:** TO86; **ZMAN; MA:** C58, C60, S60, S74, S77, SV81, SV83, TO86; **ZMAN**

Tipula (Lunatipula) mellea Schummel, 1833

CR: La17, SR02, S74, SP79, SV81, TO86; **SR:** FAB (Obedska Bara)

Remark: references in S74, SV81, and TO86 BH refer to CR

Tipula (Lunatipula) nausicaa Mannheims, 1966

MA: S74, S77, SV81, SV83, TO86, OT92

Tipula (Lunatipula) onusta Riedel, 1913

CR: M67, S74, SV81, SV83, TO86, OT92; **ZMAN**

Tipula (Lunatipula) pachyprocta Loew, 1873

SL: T. S74, SS78, SV81, SV83, TO86, OT92; **CR:** SV81, SV83, TO86, OT92; **MN:** SP79, OV89, OT92; **ZMAN**

Remark: the record from MA in S59 is based on a misidentification

Tipula (Lunatipula) pannonia jordansi Mannheims, 1954

SR: FAB (Petrovac, Tamnava, Zmajevac); **MN:** SV83, TO86; **MA:** S77, SV81, SV83, TO86

Tipula (Lunatipula) pannonia pannonia Loew, 1873

SL: T. SVS90; **CR:** TO86; ZFMK; **BH:** TO86; **SR:** FAB (Vršački breg); **MN:** SV87, SVS90; **MA:** S59, S74, SV81, TO86, SV87, SVS90

Remark: the type locality Krain refers to Kranj in Slovenia.

Tipula (Lunatipula) peliostigma peliostigma Schummel, 1833

CR: La17, C60, SP79, SV81, TO86; ZMAN; **BH:** M65, S74, SV81, TO86; ZFMK; **SR:** S62, S64, S74, S77, S79, SV81, TO86; ZFMK; **MN:** S74, S77, SV81, TO86; **MA:** S74, S77, SV81, TO86

Tipula (Lunatipula) penelope penelope Mannheims, 1954

SR: S64, S74, S79, TO86, OT92

Tipula (Lunatipula) praecox Loew, 1873

SL: TO86; **CR:** SR02, C58, S59, M66, S74, S77, SP79, SV81, TO86; OOLL; ZFMK; **BH:** SR98, SR00, S59, S74, S77, SV81, TO86; ZMAN; **SR:** S79, SV81, TO86; **MN:** TO86; **MA:** S59, S74, S77, SV81, TO86; ZMAN

Tipula (Lunatipula) rufula Mannheims and Theowald, 1959

SL: S74, SS78, SV81, TO86; ZFMK; **CR:** C58, M66, S74, S77, SV81, TO86; ZFMK; **BH:** M66, S74, SV81, TO86; ZFMK; **SR:** S74, S77, S79, SV81, TO86; **MN:** S62, S74, S77, SV81, TO86; **MA:** S74, S77, SV81, TO86

Tipula (Lunatipula) savtschenkoi Simova, 1960

SR: SVS90; ZMAN; **MN:** SV87, SVS90, OT92; **MA:** T. S74, S77, SV81, SV83, TO86, SV87, SVS90, OT92

Tipula (Lunatipula) seguyi Mannheims, 1954

CR: SV81, TO86; **SR:** S74, S77, S79, SV81, SV83, TO86; **MA:** T. S59, M66, S74, S77, ST77, SV81, SV83, TO86; ZFMK

Remark: the type locality Rég. d'Iven et ravins de la côte, S.-E. de Monastir, refers to SE Bitola in Macedonia.

Tipula (Lunatipula) selene Meigen, 1830

SL: FAB (Ljubljana: Tivoli); **CR:** La17, SP79, SV81, TO86, SV87; **BH:** SR02, S74, SV81, TO86, SV87; **SR:** FAB (Beograd: Bogatić; Divčibare); **MN:** SV87

Tipula (Lunatipula) soosi soosi Mannheims, 1954

SL: SV81, TO86; **CR:** SP79, SV81, TO86; **SR:** S64, S74, S77, S79, SV81, TO86, SV87; ZMAN; **MN:** S74, S77, ST77, SV81, TO86, SV87; ZMAN; **MA:** t (*velox* Savchenko, 1954; *macedonica* Simova, 1960). S74, S77, SV81, TO86, SV87; ZFMK

Tipula (Lunatipula) subtruncata Mannheims, 1954

SR: S64, S74, S79, SV81, TO86, OT92

Tipula (Lunatipula) tergestina Loew, 1873

MA: OT92; OOLL, ZMAN

Tipula (Lunatipula) truncata truncata Loew, 1873

SL: SS78, SV81, TO86; **CR:** T. SR93, SR98, SR00, C58, C60, S60, M66, S74, S77, SP79, SV81, TO86; **OOLL;** ZFMK; **ZMAN;** **BH:** S74, S77, SV81, TO86; **ZMAN;** **SR:** S74, S77, S79, SV81, TO86; **ZFMK;** **ZMAN;** **MN:** TO86; **ZFMK;** **ZMAN;** **MA:** P19, C58, C60, S60, S74, S77, ST77, SV81, TO86; **ZMAN**

Tipula (Lunatipula) urania Mannheims, 1954

BH: S74, SV81, SV83, TO86; **SR:** S62, TO86; **MA:** S60, S74, S77, SV81, SV83, TO86

Tipula (Lunatipula) vernalis Meigen, 1804

SL: SV81, SS84, TO86; **CR:** La17, S74, S77, SP79, SV81, TO86; **BH:** SR98, SR00, S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MN:** SV87; **MA:** S74, S77, SV81, TO86

Tipula (Lunatipula) verrucosa verrucosa Pierre, 1919

SR: S74, S77, S79, SV81, TO86; **ZMAN;** **MN:** S74, S77, SV81, TO86; **MA:** T. S60, S74, S77, SV81, TO86; **ZFMK**

Remark: the type locality Région d'Iven, sud-est de Monastir, ravin de la cote, refers to SE Bitola in Macedonia; all as *brunneinervis* Pierre.

Tipula (Mediotipula) sarajevensis Strobl, 1898

BH: T. S74, SV81, TO86

Remark: the record from MA in S59, as *microstigma* Pierre, is based on a misidentification.

Tipula (Mediotipula) siebkei Zetterstedt, 1852

SL: TO86; **CR:** L34, S74, SV81, TO86; **ZMAN;** **MN:** SV87; **ZMAN**

Tipula (Mediotipula) stigmatella Schummel, 1833

SL: t (*bidens* Bergroth, 1888). SV81, TO86, SV87; **CR:** t (*appressocaudata* Strobl, 1902). S74, TO86, SV87; **ZFMK;** **BH:** L34, S74, S77, SV81, TO86; **SR:** S64, S74, S77, S79, SV81, TO86, SV87; **ZFMK;** **ZMAN;** **MN:** S74, TO86, SV87; **ZMAN;** **MA:** S74, S77, SV81, TO86, SV87; **ZMAN**

Remark: S64, S74, S77, S79 also as *bidens* Bergroth

Tipula (Odonatisca) nodicornis nodicornis Meigen, 1818

SL: SV81, SS84, TO86

Remark: SV81, SS84 as *juncea* Meigen

Tipula (Platytipula) luteipennis luteipennis Meigen, 1830

CR: La17, SP79, SV81, TO86, OT92

Tipula (Pterelachisus) austriaca (Pokorny, 1887)

SL: SVS90; **BH:** S74, SV81, TO86, SVS90

Tipula (Pterelachisus) bilobata Pokorny, 1887

SL: T80; ZFMK; ZMAN; **MN:** SV87, OT92

Tipula (Pterelachisus) cinereocincta Lundstrom, 1907

SR: FAB (Tara)

Remark: new for the region

Tipula (Pterelachisus) crassiventris Riedel, 1913

SL: SS78, SV81, SS84, TO86, SV87; **CR:** T80, SV81, TO86, SV87; ZMAN; **SR:** S74, S77, S79, SV81, TO86, SV87; **MN:** SV87; **MA:** S74, S77, SV81, TO86, SV87

Tipula (Pterelachisus) glacialis (Pokorny, 1887)

SL: B88, SS78, SV81, TO86, SV87; **MN:** SV87, OT92

Tipula (Pterelachisus) irrorata Macquart, 1826

CR: La17, SP79, SV81, TO86; **SR:** SV81, TO86; **MN:** SV87

Tipula (Pterelachisus) luridorostris Schummel, 1833

MN: SV87, OT92

Tipula (Pterelachisus) mayerduerii Egger, 1863

CR: La17, SP79, SV81, TO86, OT92

Tipula (Pterelachisus) neurotica Mannheims, 1966

SL: SV81, TO86; ZMAN; **CR:** SV81, TO86; ZMAN; **BH:** S74, SV81, TO86

Remark: S74 and SV81 as *nervosa* Meigen

Tipula (Pterelachisus) pabulina Meigen, 1818

SL: SS78, SV81, SS84, TO86; **CR:** SP79, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86, FAB (Goč); **MA:** S74, S77, T80, SV81, TO86; ZMAN

Tipula (Pterelachisus) plitviciensis Simova, 1962

CR: T. S74, SP79, SV81, TO86, SV87; **BH:** S74, SV81, TO86; **SR:** SV87; **MN:** S62, T80, TO86, SV87; ZFMK; ZMAN; **MA:** S74, S77, SV81, TO86, SV87

Tipula (Pterelachisus) pseudoirrorata Goetghebuer, 1921

SL: SVS90; ZMAN; **MA:** ZMAN (Gjonovica)

Tipula (Pterelachisus) pseudovariipennis Czizek, 1912

SL: SS78, SV81, SS84, TO86; **CR:** SP79, SV81, TO86; **BH:** S74, S77, SV81, TO86; ZFMK; **SR:** S64, S74, S77, S79, SV81, TO86, FAB (Beograd: Surčin; Goč); **MN:** SV81, TO86, SV87; **MA:** S59, S64, S74, S77, SV81, TO86

Tipula (Pterelachisus) submarmorata Schummel, 1833

SL: SVS90; **BH:** SVS90

Tipula (Pterelachisus) truncorum Meigen, 1830

SL: SV81, TO86; **CR:** La17, S74, S77, SV81, TO86, SV87; **BH:** SR02, S59; **SR:** S62, S74, S77, S79, SV81, TO86, SV87; **MN:** SV87; **MA:** S59, S74, S77, ST77, SV81, TO86, SV87

Remark: La17 as *winnertzii* Egger

Tipula (Pterelachisus) varipennis Meigen, 1818

SL: SS78, SV81, SS84, TO86; **CR:** SP79, SV81, TO86; **BH:** SR98, SR00, S59, S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MA:** S59, S74, S77, SV81, TO86

Tipula (Pterelachisus) winthemi Lackschewitz, 1932

CR: T (Dalmatia)

Tipula (Savtshenkia) alpium Bergroth, 1888

MN: SV87, OT92

Tipula (Savtshenkia) benesignata Mannheims, 1954

SL: TO86, ZMAN; **CR:** SV81, TO86; **MN:** SV87

Tipula (Savtshenkia) boreosignata Tjeder, 1969

MN: FAB (Durmitor: Veliki Krš)

Remark: new for the region

Tipula (Savtshenkia) cheethami Edwards, 1924

BH: FAB (Jahorina)

Remark: new for the region

Tipula (Savtshenkia) goriziensis Strobl, 1893

SL: S74, SS78, SV81, TO86

Tipula (Savtshenkia) grisescens Zetterstedt, 1851

BH: SR02, S74, TO86

Remark: all as *macrocera* Zetterstedt

Tipula (Savtshenkia) invenusta subinvenusta Slipka, 1950

MN: SV87, OT92

Tipula (Savtshenkia) obsoleta Meigen, 1818

SL: SVS90; **CR:** SV81, TO86, SVS90; **BH:** S74, SV81, TO86, SVS90; **SR:** FAB (Radan)

Tipula (Savtshenkia) pagana Meigen, 1818

SL: SVS90

Tipula (Savtshenkia) rufina rufina Meigen, 1818

SL: SV81, SS84, TO86; **CR:** T73; ZFMK; **BH:** S74, S77, SV81, TO86; **SR:** FAB (Crni vrh; Midžor; Rtanj); **MA:** S74, S77, SV81, TO86

Tipula (Savtshenkia) serrulifera Alexander, 1942

MN: SV87, OT92

Tipula (Savtshenkia) subnodicornis Zetterstedt, 1838

SL: SVS90; **SR:** SVS90

Tipula (Savtshenkia) subsignata subsignata Lackschewitz, 1933

MN: SV87, OT92

Tipula (Schummelia) variicornis variicornis Schummel, 1833

SL: SS84, SV87; **ZMAN;** **BH:** SR00; **SR:** SV81, TO86, SV87; **MN:** SV87

Tipula (Schummelia) zonaria Goetghebuer, 1921

SL: ZMAN (E of Tržič, Dolina); **BH:** M52, S74, SV81, TO86, SV87, OT92; **MN:** SV87, OT92

Tipula (Tipula) hungarica Lackschewitz, 1930

MA: S77

Remark: figured in S77 as variation of *orientalis* Lackschewitz (see also Theowald, 1984)

Tipula (Tipula) italica italica Lackschewitz, 1930

SL: ZFMK (Portorož); **CR:** ZFMK (Levada; Pula)

Remark: new for the region

Tipula (Tipula) italica errans Theowald, 1984

CR: M52, S74, SV81, TO86; **MA:** S77

Remark: all as *italica* Lackschewitz, in S77 figured as variation of *orientalis* Lackschewitz (see also Theowald, 1984)

Tipula (Tipula) mediterranea Lackschewitz, 1930

SL: SS78, SV81, TO86, OT92; **MN:** FAB (Djurdjeviča Tara); **MA:** C58

Tipula (Tipula) oleracea Linnaeus, 1758

SL: L30, S74, S77, SS78, SV81, SS84, TO86; **ZMAN;** **CR:** La17, SR98, SR00, S59, S74, S77, SV81, TO86; **ZFMK;** **BH:** SR98, SR00, L30, S59, S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **ZFMK;** **ZMAN;** **MN:** ZMAN (Ivangrad); **MA:** S59, S74, S77, ST77, SV81, TO86; **ZMAN**

Remark: records in SR98 and SR00 might refer to *orientalis* Lackschewitz as well

Tipula (Tipula) orientalis Lackschewitz, 1930

SL: SS78, SV81, TO86; **CR:** L30, M52, S60, S74, S77, SV81, TO86; **ZFMK;** **ZMAN;** **BH:** S74, S77, SV81, TO86; **SR:** S62, S74, S77, S79, SV81, TO86; **ZFMK;** **MN:** SV87; **MA:** M52, S60, S74, S77, ST77, SV81, TO86; **ZFMK;** **ZMAN**

Tipula (Tipula) paludosa Meigen, 1830

SL: SV81, TO86; **ZMAN;** **CR:** La17, SV81, TO86; **BH:** SR98, SR00, S59, S74, SV81, TO86; **SR:** ZFMK (Nova Varoš); **MA:** S59

Tipula (Tipula) subcunctans Alexander, 1921

SL: L30; **ZMAN;** **BH:** S74, S77, SV81, TO86; **SR:** S64, S74, S77, S79, SV81, TO86; **MA:** S74, S77, ST77, SV81, TO86

Remark: S64 as *fusca* Staeger; L30, S74, S77, ST77, S79, SV81 as *czizeki* de Jong

Tipula (Vestiplex) excisa excisa Schummel, 1833

SL: B88, TM62, SS78, SV81, SS84, TO86; **CR:** FAB (Medvednica, Vrhovine); **BH:** S74, SV81, TO86; **SR:** S74, S79, SV81, TO86; **MN:** S74, SV81, TO86; **MA:** S60, S62, S74, S77, SV81, TO86

Remark: S62 as *verbernae* Mannheims and Theowald

Tipula (Vestiplex) hemiptera strobliana Mannheims, 1966

SL: B88, TM62, TO86; **MN:** FAB (Durmitor: Veliki Krš; Čurovac; Jakšiča Katuni)

Remark: B88 from Krn as *excisa* Schummel; TM62 as *cinerea cinerea* Strobl; TO86 as *strobliana strobliana* Mannheims

Tipula (Vestiplex) hortorum Linnaeus, 1758

SL: B88, TO86; **ZMAN;** **CR:** S62, TO86; **ZMAN;** **BH:** SR98, SR00, TO86; **SR:** TO86, ZMAN; **MA:** S77, TO86

Remark: SR98, SR00, S77 (fig. 86) as *nubeculosa* Meigen

Tipula (Vestiplex) montana montana Curtis, 1834

SR: S74, S79, SV81, TO86; **MN:** FAB (Durmitor: Mali Medjed); **MA:** S74, S77, SV81, TO86

Remark: S74, S77, S79, SV81 as *excisoides* Alexander

Tipula (Vestiplex) nubeculosa Meigen, 1804

SL: S74, SS78, SV81, SS84, TO86; **CR:** La17, S74, S77, SP79, SV81, TO86; **ZMAN;** **BH:** S74, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **MN:** SV81, TO86, SV87; **MA:** S74, S77, SV81, TO86

Remark: SS78 as *rubripes* Schummel

Tipula (Vestiplex) pallidicosta pallidicosta Pierre, 1924

SL: SS78, SV81, TO86; **CR:** SV81, TO86; **ZMAN;** **BH:** FAB (Golia mountain);
SR: S62, S74, S77, S79, SV81, TO86; **MN:** M53, S62, S74, S77, SV81, TO86,
SV87; **ZMAN;** **MA:** S60, S74, S77, SV81, TO86

Tipula (Vestiplex) scripta scripta Meigen, 1830

SL: B88, S62, S74, S77, SS78, SV81, SS84, TO86; **CR:** La17, SV81, TO86;
ZFMK; **BH:** SR02, S74, SV81, TO86; **SR:** S62, S74, S77, S79, SV81, TO86;
MN: SV81, TO86, SV87; **MA:** S74, S77, ST77, SV81, TO86

Tipula (Yamatotipula) caesia Schummel, 1833

SL: SS84; **CR:** La17, SP79, SV81, TO86; **ZMAN;** **BH:** SR00, SV81, TO86;
ZMAN; **SR:** S74, S77, S79, SV81, TO86; **ZMAN;** **MA:** S60, S74, S77, SV81,
TO86; **ZMAN**

Tipula (Yamatotipula) lateralis Meigen, 1804

SL: SS84; **ZMAN;** **CR:** M52, S74, S77, SP79, SV81, TO86; ZFMK; **ZMAN;** **BH:**
S74, S77, SV81, TO86; **SR:** S74, S77, S79, SV81, TO86; **ZMAN;** **MN:** SV81,
TO86, SV87; **ZMAN;** **MA:** C58, S59, S74, S77, ST77, SV81, TO86; **ZMAN**

Tipula (Yamatotipula) montium Egger, 1863

CR: La17; **BH:** SR98, SR00, S60, S74, SV81, TO86, SV87; **SR:** SV81, TO86;
MN: SV87; **MA:** S59, S60, TO86

Remark: S59 as *pseudolateralis* Tonnoir

Tipula (Yamatotipula) pierrei Tonnoir, 1921

SL: ZMAN (Risnjak); **SR:** SV81, TO86, OT92

Remark: SV81 as *solstistialis* Westhoff

Tipula (Yamatotipula) pruinosa pruinosa Wiedemann, 1817

BH: SV81, TO86, SVS90; **SL:** SVS90

Tipula (Yamatotipula) riedeli Mannheims, 1952

BH: t (*bosnica* Riedel, 1913). S74, SV81, TO86; **SR:** SV81, TO86; **ZMAN;** **FAB**
(Divčibare; Kosmaj); **MN:** SV87

Tipula (Yamatotipula) submontium Theowald and Oosterbroek, 1981

SL: SVS90; **MN:** TO86, SVS90

Species omitted

The following species, recorded from one of the countries or from former Yugoslavia, are omitted from the list:

Dolichozepea nitida Mik

Nephrotoma forcipata Pierre

Nephrotoma rossica Loew

Nephrotoma submaculosa Edwards

- Tipula (Acutipula) repanda* Loew
Tipula (Lunatipula) affinis Schummel
Tipula (Lunatipula) bullata Loew
Tipula (Lunatipula) pustulata Pierre
Tipula (Yamatotipula) marginella Theowald (as *marginata* Meigen).
Tipula (Subgenus?) *breieri* Mannheims (nomen nudum)
Tipula (Subgenus?) *triangularis* Mannheims (nomen nudum)

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