

Entomofauna

ZEITSCHRIFT FÜR ENTOMOLOGIE

Band 7, Heft 24 ISSN 0250-4413 Linz, 20. September 1986

Two new species of Hemerodromiinae from Poland (Diptera, Empididae)

Stefan Niesiolowski

Abstract

This paper describes two new species of *Empididae*, *Heleodromia wagneri* sp.n. and *Chelifera perlucida* sp.n., found in the Świętokrzyskie Mountains in central Poland.

Zusammenfassung

Die vorliegende Arbeit beinhaltet die Beschreibung von zwei neuen *Empididae*-Arten, *Heleodromia wagneri* sp.n. und *Chelifera perlucida* sp.n. Beide Arten wurden in den Świętokrzyskie-Bergen in Zentralpolen gefangen.

Heleodromia wagneri sp.n.

The species is named after Doctor Rüdiger WAGNER, Schlitz, to whom I am indebted for his kind help in identification of some of my materials.

♂ Head black with brownish tint, vertex broad, dark-brown, occiput of the same color. Occipital bristles

fairly long, of the same length as on the thorax. Face elongate in shape, triangular both above and below with the narrowest part at middle where the eyes almost are touching each other. Antennae short, a little browner than head. Third segment of the antennae thin, palpi very short with several bristles. Proboscis as long as head or somewhat shorter.

Thorax black-brown but with a distinct brownish tint. Abdomen not very stout, brown-grey. Hypopygium more spherical than oval, penis clearly split. Numerous processes on the dorsal side of the hypopygium.

Legs dark-brown, knees lighter, especially of the third pair of legs. Legs long, slender, poorly haired. First segments of the feet long, thin, somewhat longer than other segments of the feet together, especially in the first pair of legs.

Wings smoky, light brown, of neuration identical as *Heleodromia immaculata* HALIDAY, 1833. Lower brin of the wing with very poorly indicated cutting. Squama small, dark brown. Halteres whitish.

Body length 3,0 mm, wing length 2,5 mm.

Material collected: Holotype ♂: Poland, Świętokrzyskie Mountains, Ameliówka, May 30, 1980, leg. Stefan NIE-SIOLOWSKI, coll. Department of General Zoology, University of Łódź, Poland. One specimen captured on a meadow close to Lubrzanka River in the eastern region of Świętokrzyskie Mountains.

Chelifera perlucida sp.n.

♂ Frons brown-black, somewhat lighter-clear to the base of antennae. Ocellar pair of bristle very small and weak, vertex, occiput and eyes uniformly black. Antennae very short and pale, uniformly colored, third segment without a darker apex. Palps of the same color as face.

Thorax viewed from above yellow-brownish with two broad brown stripes on the sides, viewed from the side uniformly light. Scutellum of the same color as the back of the thorax, postscutellum brown. The uniserial dorso-central and biserial acrostichals small, two scutellar bristles long, these latter placed together. Above notopleural depression a long bristle. Generally chaetotaxy

very weak. Abdomen light brown, belly yellowish, hypopygium as in Fig.4, side lamellae more projecting than upper lamellae or ventral lamella, upper lamellae with a thickened projection equipped with several fairly strong "teeth". Hypopygium poorly haired.

Legs light yellow with a whitish tint, two last segments of feet of the third pair of legs black (feet of other legs unfortunately lost). Front femora with a double row beneath of yellowish bristles about six in each row, and between these rows a double of short black points, front tibiae of almost uniform thickness on all of their length, poorly haired with a stout terminal spur at the tip.

Wings pale, "creamy", clearly seen light-brown spots on their upper parts, postdiscal and anal veins very faint. Squama pale yellow, halteres white.

Body length 4,0 mm, wing length 3,5 mm.

Material collected: Holotype ♂: Poland, Świętokrzyskie Mountains, Dębno, August 29, 1983, leg. Stefan NIESIOLOWSKI, coll. Department of General Zoology, University of Łódź, Poland. One specimen captured on the side of a small (1-2 m broad) stream, affluent of Pokrzywianka River.

Explanations of the figures (p.352-354)

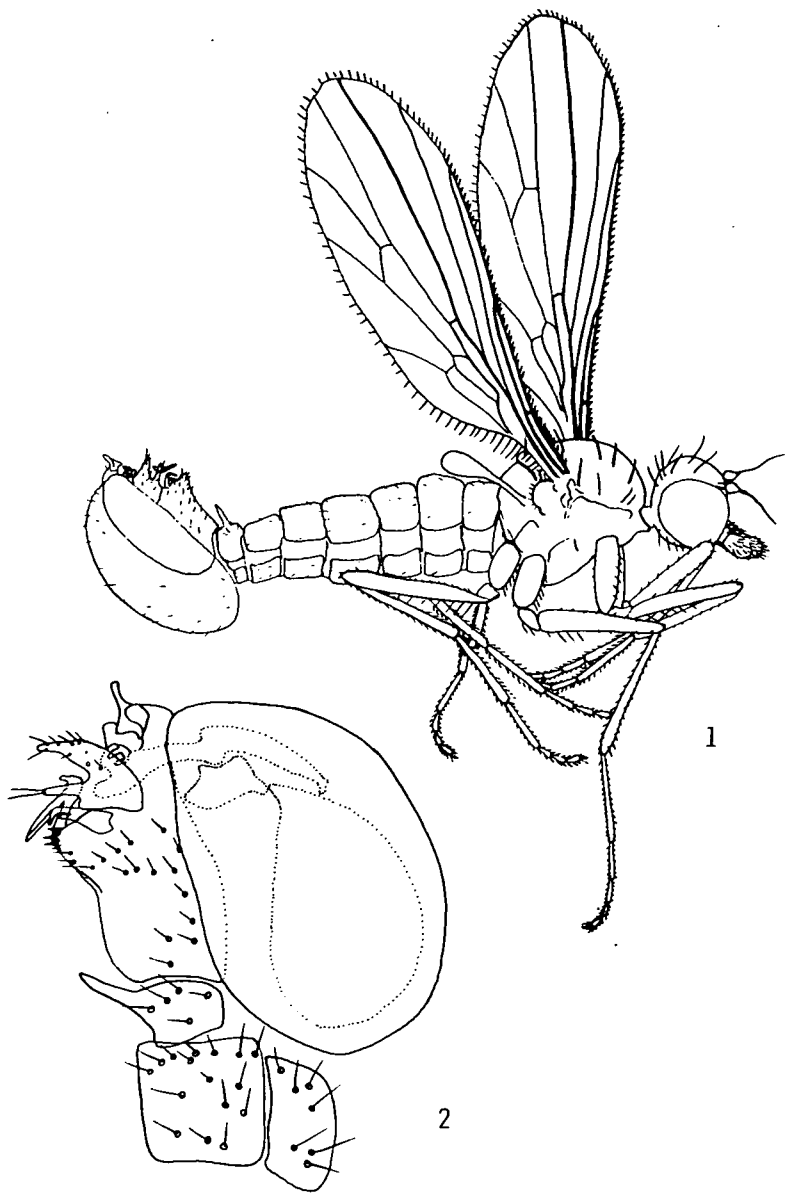
Fig.1: ♂ *Heleodromia wagneri* sp.n.

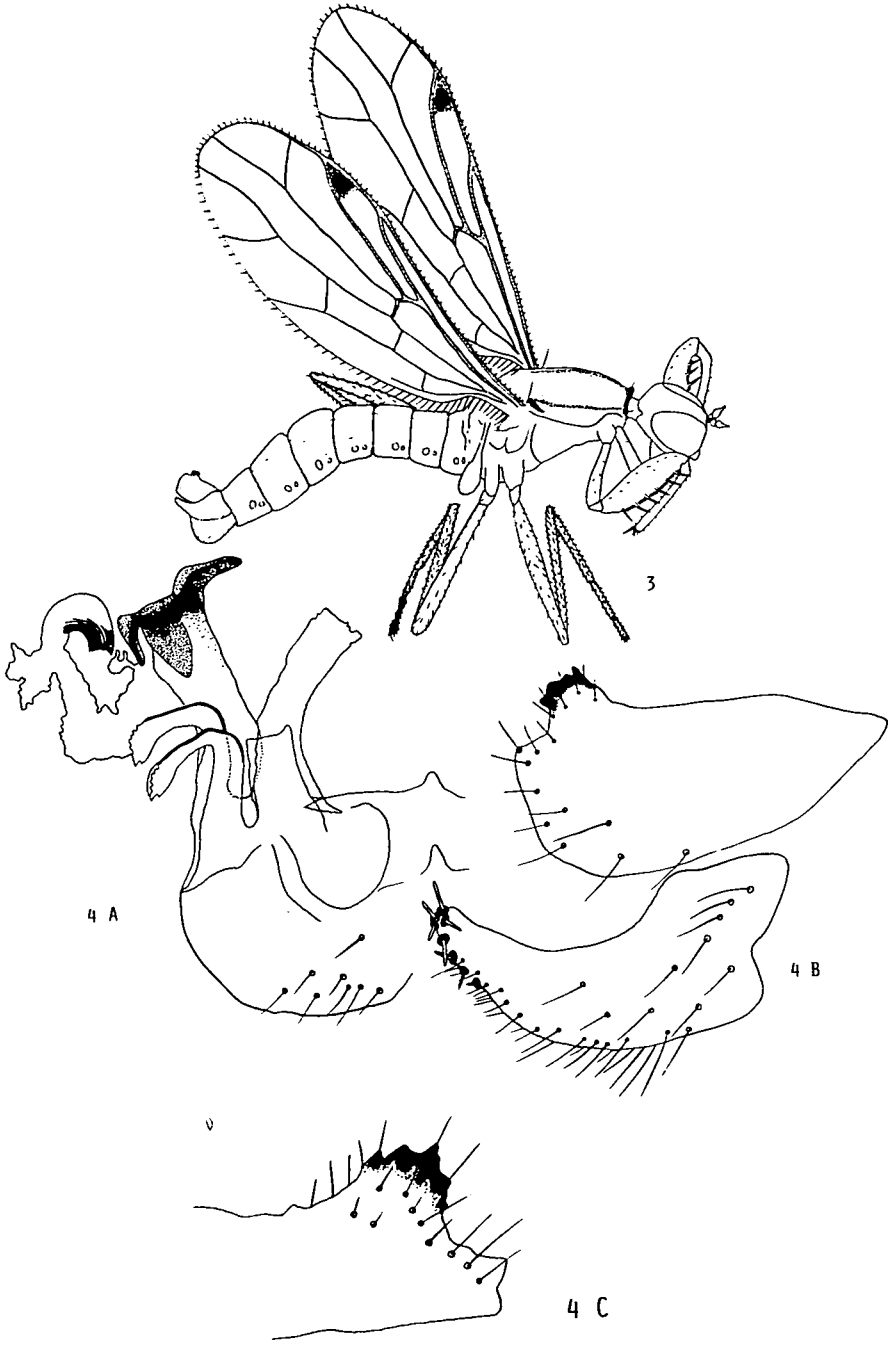
Fig.2: *Heleodromia wagneri* sp.n., hypopygium.

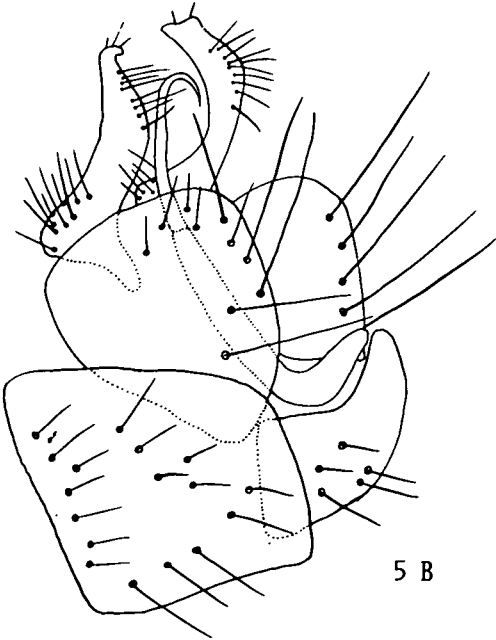
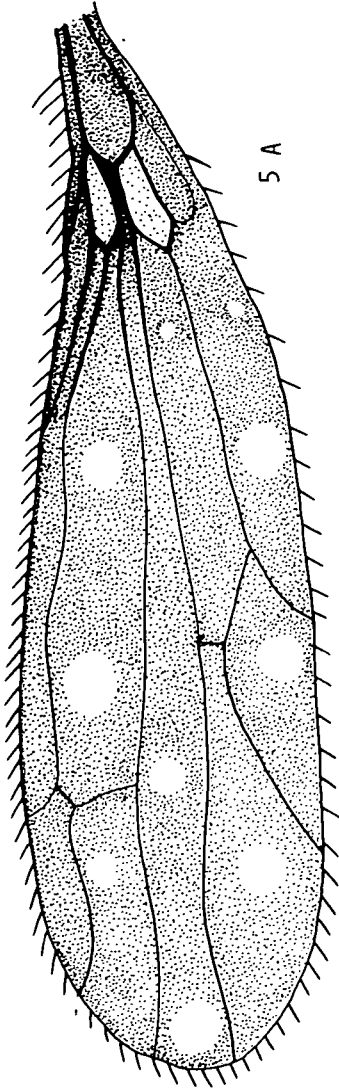
Fig.3: ♂ *Chelifera perlucida* sp.n.

Fig.4: *Chelifera perlucida* sp.n. A) hypopygium, B) epandrium, C) apex of epandrium.

Fig.5: *Dolichocephala thomasi* WAGNER, A) wing of male, B) hypopygium.







Moreover occurrence of the following species of the subfamily *Hemerodromiinae* was established for the Świętokrzyskie Mountains: *Heleodromia immaculata* HALIDAY, 1833, *Chelipoda vocatoria* (FALLÉN, 1815), *Phyllodromia melanocephala* (FABRICIUS, 1794), *Chelifera precatória* (FALLÉN, 1815), *Chelifera precabunda* COLLIN, 1961, *Chelifera concinnicauda* COLLIN, 1927, *Chelifera trapezina* (ZETTERSTEDT, 1838), *Hemerodromia unilineata* ZETTERSTEDT, 1842, *Dolichocephala irrorata* (FALLÉN, 1815), *Dolichocephala thomasi* WAGNER, 1983, *Trichopeza longicornis* MEIGEN, 1822, *Hydrodromia wesmaelii* (MAQUART, 1835), *Wiedemannia lamellata* (LOEW, 1869), *W. zetterstedti* (FALLÉN, 1826).

The presence of *Dolichocephala thomasi* WAGNER, 1983, a species described recently (WAGNER, 1983) is especially noteworthy, as it is the second locality of this species. One male of *thomasi* was captured on June 16, 1983 in the "Czarny Las" nature reservation on the coast of interforest Czarna Woda stream in the eastern part of Świętokrzyskie National Park.

From among aqueous *Empididae*, *Wiedemannia zetterstedti* (FALLÉN, 1826) clearly predominates in Świętokrzyskie Mountains. This species occurs massively over rivers and streams. Other species occurring relatively frequently are only: *Chelifera precatória* (FALLÉN, 1815), *C. precabunda* COLLIN, 1961, *Trichopeza longicornis* MEIGEN, 1822, *Hydrodromia wesmaelii* (MACQUART, 1835), on coastal plants.

Central European fauna of aqueous *Empididae* is relatively well known (ENGEL 1938-1940, COLLIN 1961, VAILLANT 1967, 1981, CASPERS & WAGNER 1982, WAGNER 1982). However, more recent data from Poland are almost completely lacking. Except for the study of VAILLANT (1968) all the informations on *Hemerodromiinae* of Poland originate from the XIX-th century, beginning and first part of this century, and the determination seems in many cases doubtful. Filling this gap seems an important goal. The present study represents the first step in this direction.

References

- CASPERS, N., WAGNER, R. - 1982. Emergenz-Untersuchungen an einem Mittelgebirgsbach bei Bonn VII. Empididen- und Dolichopodiden-Emergenz 1976 (Insecta, Diptera, Brachycera). - Arch.Hydrobiol., 93(2):209-237.
- COLLIN, J.E. - 1961. British flies, VI: Empididae, 8:1-782.
- ENGEL, O. - 1938-1940. Empididae. In: E. Lindner, Die Fliegen der Paläarktischen Region, 4, 4. Stuttgart.
- VAILLANT, F. - 1968. Quelques Empididae Hemerodromiinae de Pologne (Diptera). - Ann.zool.Polska Akad.Nauk., 1, 26:1-5.
- VAILLANT, F. - 1978. In: J. Illies, Limnofauna Europaea, Empididae, 2:465-469.
- VAILLANT, F. - 1981. Diptères Empididae Hemerodromiinae nouveaux ou peu connus de la region paléarctique (première partie). - Bonn.zool.Beitr., 32(3-4):351-408.
- WAGNER, R. - 1982. Über einige Empididae (Clinoceratiinae) aus den Alpen und aus Italien (Diptera, Empididae). - Ent.Zeit.Entomol., 3(15):217-222.
- WAGNER, R. - 1983. Aquatische Empididen (Diptera) aus hessischen Mittelgebirgen und angrenzenden Gebieten. - Beitr.Naturkde.Osthessen, 19:135-146.

Manuskripteingang: 1.2.1984

Author's address:

Dr. Stefan NIESIOLOWSKI
Department of General Zoology
University of Łódź
ul. Banacha 12/16
PL - 90-237 Łódź

Druck, Eigentümer, Herausgeber, Verleger und für den Inhalt verantwortlich: Maximilian SCHWARZ, Konsulent für Wissenschaft der O.Ö. Landesregierung, Eibenweg 6, A-4052 Ansfelden.
Redaktion: Erich DILLER, Münchhausenstr.21, D-8000 München 60.
Max KÜHBANDNER, Marsstraße 8, D-8011 Aschheim.
Wolfgang SCHACHT, Scherrerstraße 8, D-8081 Schöngesing.
Thomas WITT, Tengstraße 33, D-8000 München 40.
Postadresse: Entomofauna, Münchhausenstr.21, D-8000 München 60.

ZOBODAT - www.zobodat.at

Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Entomofauna](#)

Jahr/Year: 1986

Band/Volume: [0007](#)

Autor(en)/Author(s): Niesiolowski Stefan

Artikel/Article: [Two new species of Hemerodromiinae from Poland \(Diptera, Empididae\). 349-356](#)