



SHORT COMMUNICATION

Materials to the knowledge of Polish sawflies. The genus *Dolerus* Panzer, 1801 (Hymenoptera, Symphyta, Tenthredinidae, Selandriinae). Part V - *Dolerus madidus* (Klug, 1818)¹

Jerzy Borowski² & Dawid Marczak³

²Department of Forest Protection and Ecology, SGGW,
ul. Nowoursynowska 159/34, 02-776 Warsaw, Poland
E-mail address: jerzy_borowski@sggw.pl

³Kampinos National Park, ul. Tetmajera 38, 05-080 Izabelin, Poland
E-mail address: dawid.marczak@gmail.com

ABSTRACT

The paper presents historical and new faunistic data concerning the occurrence of *Dolerus madidus* (Klug, 1818) in Poland, supplemented with elements of bionomy – in particular phenology of the appearance of imagines – and general geographical distribution.

Keywords: Hymenoptera, Symphyta, Tenthredinidae, Selandriinae, *Dolerus madidus*, sawflies, Poland, faunistic data, bionomy

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In the presented series of elaborations, focusing on faunistics and bionomy of Polish representatives of *Dolerus* Panz., the authors wish to report the results of collecting on more than thirty Polish localities in 2012-2017. The list (with short description) of localities on which *Dolerus madidus* (Klug) has been found is presented in table 1, and general distribution of the species in Poland on map 1. Collections in the Kampinos National Park were done by both authors (Jerzy Borowski & Dawid Marcza k leg.), the remaining material only by the first of us (Jerzy Borowski leg.). All specimens have been deposited in the Department of Forest Protection and Ecology SGGW, in Rogów.

Table 1. List of localities of *Dolerus madidus* (Klug) in 2012-2017.

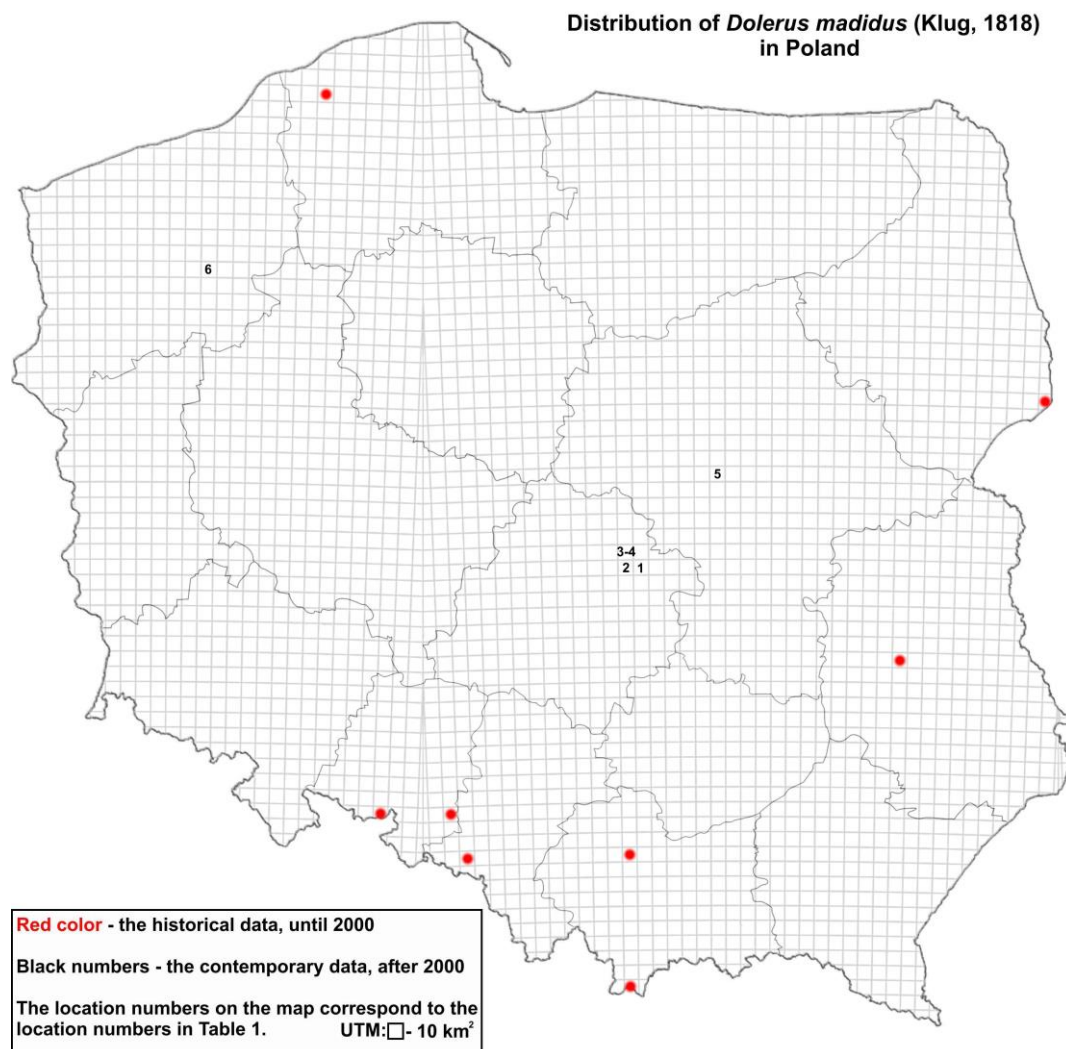
| Locality number | Locality name | GPS coordinates UTM grid | Short description |
|-----------------|---|---|--|
| 1 | Głuchów Range - „Pańska” meadow | N 51°44'56” E 20°05'16” UTM: DC33 | Meadow on the grounds of the Forest Experimental Station, Rogów Forest Inspectorate, Głuchów Forest District; mid-forest meadow with rich herbaceous vegetation and some drainage ditches, partly cultivated as hunting plot. |
| 2 | „Leszczyny Colony” – wet meadow” | N 51°47'15” E 19°54'44” UTM: DC23 | Wet hay-growing meadow near Leszczyny Colony, with numerous species of sedges, grasses, rushes and horsetails, surrounded by ditches draining water exudatives. |
| 3 | Rogów – railroad embankment | N 51°49'59” E 19°54'27” UTM: DC24 | Slopes of embankment of the Łódź Fabryczna – Skierniewice railroad, in the immediate vicinity of forest; xerophytic vegetation with numerous species of grasses, umbelliferes, horsetails and few sedges. |
| 4 | Rogów - „Arboretum” | N 51°49'30” E 19°54'26” UTM: DC24 | Arboretum in Rogów; forest area dominated with fresh mixed forest and fresh forest, of very diversified undergrowth vegetation. |
| 5 | Kampinos National Park - „Sierakowskie” meadows | N 52°19'02” E 20°49'11” UTM: DC89 | Meadows near Sieraków in Kampinos National Park; mixture of utilized pastures, through barren lands with ruderal vegetation, up to wet fertile meadows crossed by many drainage ditches; numerous species of grasses, horsetails and sedges. |
| 6 | Złoceniec | N 53°30'18” E 16°00'21” UTM: WV62 | Natural wet mid-forest meadow near Złoceniec – Lubieszewo road; numerous species of herbaceous plants with extensive patches of sedges, rushes and many species of grasses. |

Dolerus (Achaetoprius) madidus (Klug, 1818) (Fig. 1)

Known localities: Kraków, Tatry, (Wierzejski 1868); Białowieża (Bischoff 1925); Słupsk (Karl 1925); Upper Silesia: Prudnik, Kędzierzyn, Grodzisko (Torka 1929); Lublin (Cmoluch & Piotrowski 1975).

New localities: {1}, Głuchów Range (UTM: DC33), 12.III.2014, 1♀; 13.III.2014, 8♂♂; 15.III.2015, 17♂♂; 15.III.2016, 3♀♀, 1♂; 18.III.2015, 1♀; 21.III.2014, 2♀♀; 25.III.2015, 1♀; 27.III.2017, 1♀; 30.III.2014, 4♀♀, 2♂♂; 4.IV.2016, 1♀; 8.IV.2014, 1♀, 3♂♂; {2}, Leszczyny Colony (UTM: DC23), 29.III.2017, 4♂♂; 5.IV.2016, 2♀♀, 2♂♂; 10.IV.2017, 1♀; {3}, Rogów: Doliska/Zimna Woda Ranges (UTM: DC24), 11.IV.2015, 1♂; {4}, Rogów: Arboretum (UTM: DC24), 11.IV.2015, 1♀; {5}, Kampinos National Park (UTM: DC89), 27.III.2017, 1♂; 4.IV.2017, 1♂; {6}, Złocieniec (UTM: WV62), 19.IV.2014, 1♂.

Host plant: *Juncus effusus* L.



Map 1. Distribution of *Dolerus madidus* (Klug) in Poland.

Geographical distribution: Transpalearctic species occurring throughout Europe and Siberia to China and Korea.

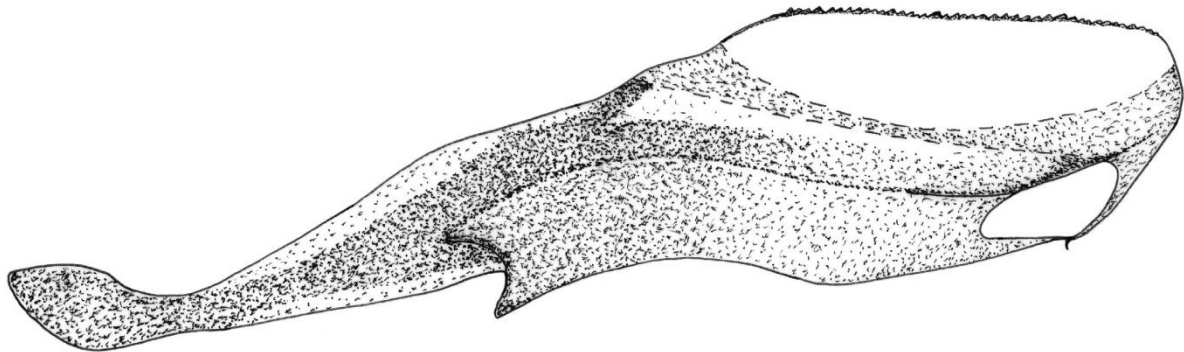


Fig. 1. *Dolerus madidus* (Klug) – a right penis valve of male aedeagus (outer view)

Dolerus madidus is in Poland one of the earliest appearing representatives of the genus: the swarming begins in March, simultaneously with *D. anthracinus* (Klug) and *D. nitens* Zadd., and extends usually to mid-April, with maximum intensity at the third decade of March (Fig. 2). Males and females appear at the same time. The insects actively fly in full sunshine, low over the rushes, now and then sitting on various plants. The species prefers wet places, but it has a greater vagility than *D. ferrugatus*.

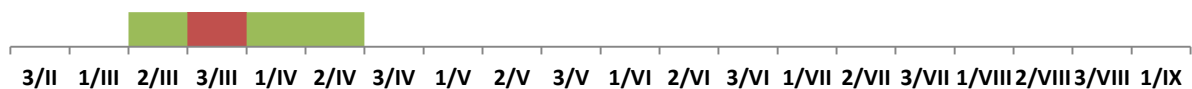


Fig. 2. Period of appearance of *Dolerus madidus* (Klug) imagines in Central Poland (maximum intensity of swarming marked with red); II – IX – months from February to September; 1, 2, 3 – decades of particular months.

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