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SHORT COMMUNICATION

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

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ABSTRACT

The paper presents historical and new faunistic data concerning the occurrence of *Dolerus vestigialis* (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 vestigialis*, sawflies, Poland, faunistic data, bionomy

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 vestigialis* (Klug) has been found is presented in Table 1, and general distribution of the species in Poland on Map 1. Most of the specimens were collected by the authors of this paper. Nine specimens were caught by K. Rudziński, R. Plewa and M. Miłkowski (see paragraph “New localities”). All specimens have been deposited in the Department of Forest Protection and Ecology SGGW, in Rogów.

Table 1. List of localities of *Dolerus vestigialis* (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	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.
3	Rogów - „Center of Nature-Forest Education”	N 51°49’18” E 19°54’04” UTM: DC24	Green area around the Center of Nature and Forest Education in Rogów; tree clumps and lawns mowed several times a year.
4	Kampinos National Park - „Truskaw” meadow	N 52°18’52” E 20°45’49” UTM: DC89	Meadow in Kampinos National Park near Truskaw; natural mid-forest meadow with numerous species of sedges, grasses and rushes.
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	Kampinos National Park - „Niepust” meadows	N 52°19’16” E 20°44’57” UTM: DC89	Extensive natural midforest patches of sedges near village Pociecha in Kampinos National Park.
7	Kampinos National Park - „Debły” meadow	N 52°17’18” E 20°38’57” UTM: DC79	Natural, extensive mid-forest meadow in Kampinos National Park near Debły with rich herbaceous vegetation and numerous areas overgrown with sedge.

8	Kampinos National Park - „Brzozówka” meadows”	N 52°20’53” E 20°41’08” UTM: DD70	Mowed, and partly pastured with cattle, meadows near Brzozówka, with numerous species of grasses, sedges and rushes.
9	Złocieniec, surroundings of the city	N 53°32’36” E 16°00’11” UTM: WV63	Side spaces of roads, fallows, forest edges, railroad embankments, ruderal vegetation.
10	Drozdowo	N 53°09’03” E 22°10’03” UTM: ED79	Natural, partly mowed wet meadow on the Narew, temporarily inundated each spring; large patches of sedges, horsetails and not numerous areas overgrown with grasses or flowering herbaceous plants.
11	Warsaw	N 52°09’42” E 21°02’46” UTM: EC07	SGGW campus in Warszawa-Ursynów; synantropic environment with ruderal vegetation.
12	Librantowa near Nowy Sącz	N 49°39’58” E 20°45’36” UTM: DA80	Barrens and economically exploited meadows in Librantowa near Nowy Sącz.
13	Radom	N 51°25’19” E 21°11’15” UTM: EB19	Area of the heating plant Radom-Gołębiów.
14	Cegłów near Błonie	N 52°09’46” E 20°31’29” UTM: DC67	Within the borders of Cegłów village.
15	Uniejów - Rędziny	N 50°26’36” E 19°58’19” UTM: DA28	Barrens and roadsides near Uniejów-Rędziny village; grasses and numerous species of ruderal and xerotherm plants.

Dolerus (Dicrodolerus) vestigialis vestigialis (Klug, 1818) (Fig. 1)

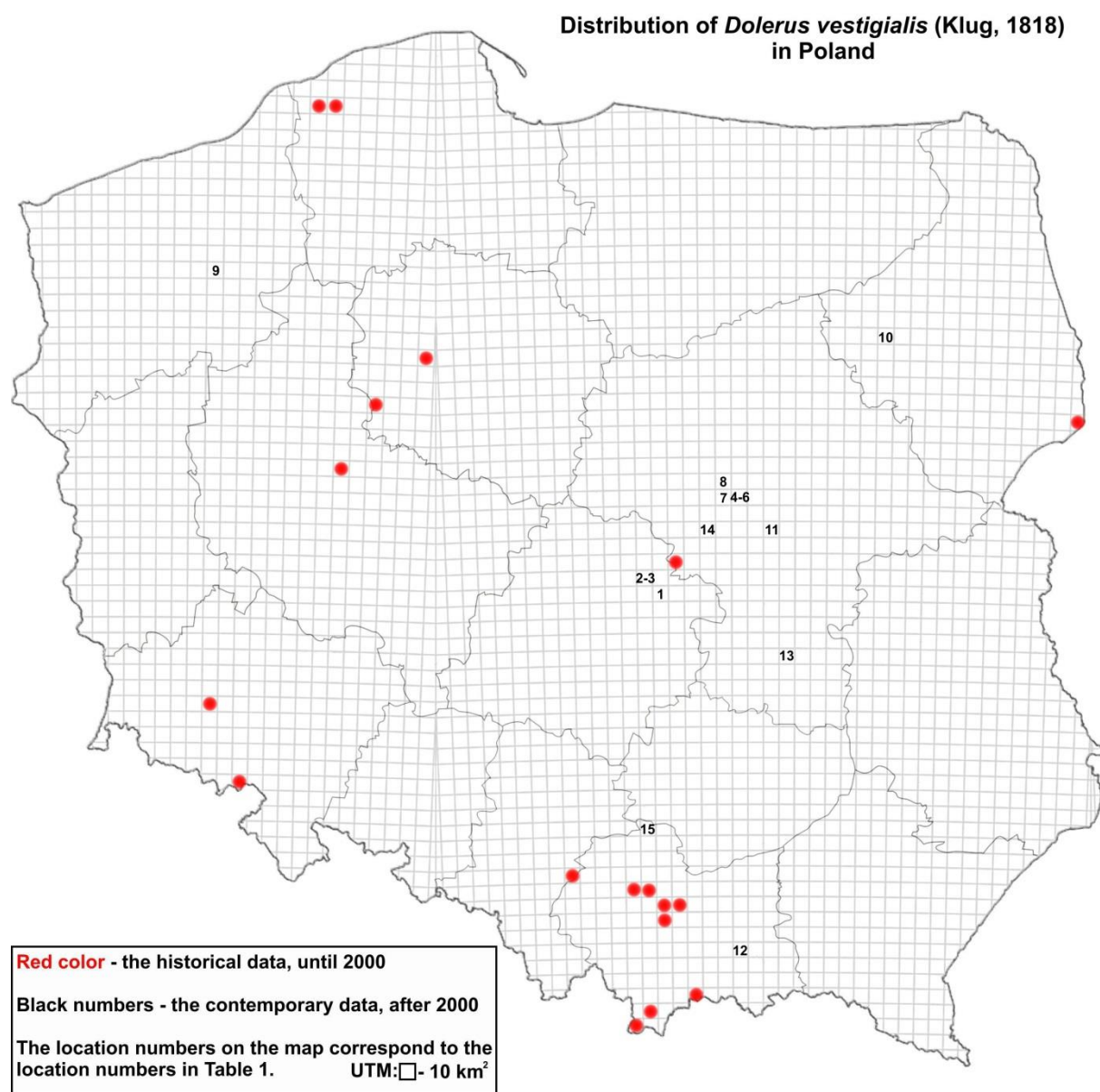
Known localities: Kraków, Tatra Mts. (Wierzejski 1868); Kraków, Wieliczka, Kościelisko, Droginia (Niezabitowski 1897); Kłaj, Kraków-Bielany, Kraków-Sikornik, Kraków-Dębniki, Chełmek (Niezabitowski 1899); Złotoryja, Sokołowsko (Dittrich 1905); Bydgoszcz env. (Meyer 1912); Wielkopolska Lowland: Brudzyń (Sulczewski 1922); Białowieża (Bischoff 1925); Słupsk, Widzino (Karl 1925); Upper Silesia (Torka 1929); Skierniewice (Obarski 1931); National Park of Wielkopolska: Ludwikowo, Góreckie Lake, Mosina (Szulczewski 1939); Pieniny Mts. (Huflejt 1976).

New localities: {1}, Głuchów Range (UTM: DC33), 7.V.2013, 1♀; 16.V.2015, 5♂♂, 4♀♀; 19.V.2015, 4♂♂, 3♀♀; 13.VI.2013, 1♀; 30.VI.2015, 1♀; {2}, Rogów: Doliska/Zimna Woda Range (UTM: DC24), 12.V.2015, 1♂, 3♀♀; 19.V.2013, 7♀♀; {3}, Rogów (UTM: DC24), 14.V.2017, 1♀; {4}, Kampinos National Park (UTM: DC89), 15.V.2017, 1♂; 01.VI.2015, 1♀, 1♂; {5}, Kampinos National Park (UTM: DC89), 16.V.2015, 1♀, 8♂♂; 19.V.2017, 1♀; {6}, Kampinos National Park (UTM: DC89), 8.VI.2015, 1♀; {7} Kampinos National Park (UTM: DC79), 16.V.2017, 1♀; 21.VI.2017, 1♀; {8}, Kampinos National Park (UTM: DD70), 7.V.2015, 1♀; {9}, Złocieniec (UTM: WV63), 1-30.V.2015, 2♂♂, 5♀♀, leg. K. Rudziński;

{10}, Drozdowo (UTM: ED79), 15.V.2013, 2♀♀; {11}, Warsaw (UTM: EC07), 20.V.2015, 1♀; {12}, Librantowa (UTM: DA80), 3.V.2013, 3♂♂; {13}, Radom (UTM: EB19), 22.V.2015, 1♀, leg. M. Miłkowski; {14}, Ceglów (UTM: DC67), 16.V.2015, 1♀, leg. R. Plewa; {15}, Uniejów-Rędziny (UTM: DA28), 23.V.2017, 2♂♂.

Host plant: *Equisetum* spp.

Geographical distribution: The nominotypical subspecies occurs almost throughout Europe, Caucasus to Siberia. The *D. vestigialis insulicola* Rohwer, 1910 is an East Palaearctic subspecies and occurs in Japan (Rohwer 1910, Huflejt 1978, Taeger & al. 2006, 2010).



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

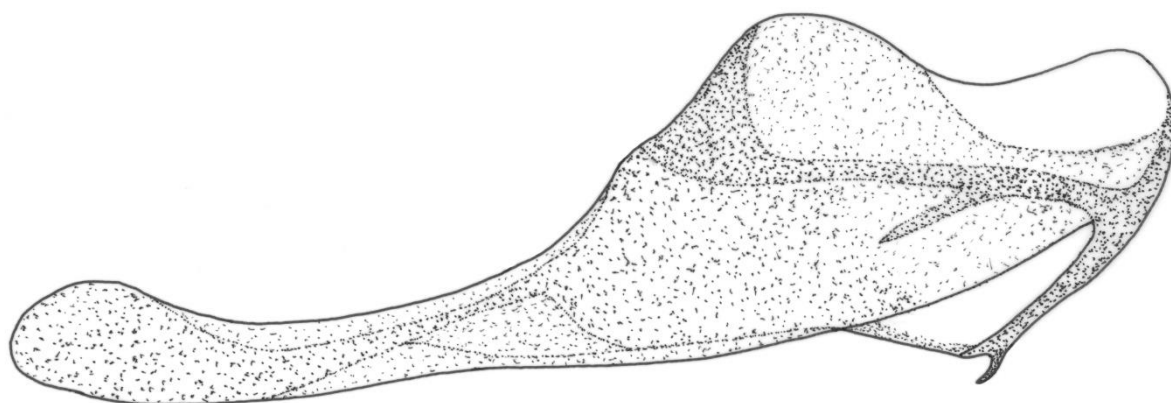


Fig. 1. *Dolerus vestigialis* (Klug) – a right penis valve of male aedeagus (outer view).

A common species inhabiting mainly ruderal spaces, barrens and fields. Appears in May and June, males somewhat earlier than females, with peak swarming in second and third decade of May (Fig. 2) – those found in III decade of June belong apparently to the second generation. Flies rather slowly, on short distances. Occurs as well in shadowy as in sunny places.

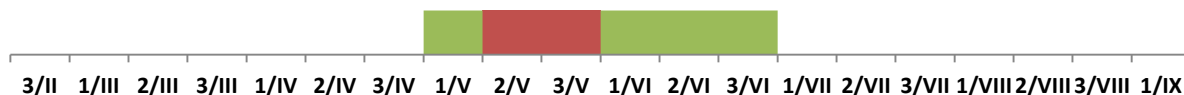


Fig. 2. Period of appearance of *Dolerus vestigialis* (Klug) imagines in Central Poland (maximum intensity of swarming marked with red); II – IX – months from February to September; 1, 2, 3 – decades of particular months.

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