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SHORT COMMUNICATION

Materials to the knowledge of Polish sawflies. The genus *Dolerus* Panzer, 1801 (Hymenoptera, Symphyta, Tenthredinidae, Selandriinae). Part IX - *Dolerus cothurnatus* Serville, 1823[1]

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ABSTRACT

The paper presents historical and new faunistic data concerning the occurrence of *Dolerus cothurnatus* Serville, 1823 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 cothurnatus*, sawflies, Poland, faunistic data, bionomy

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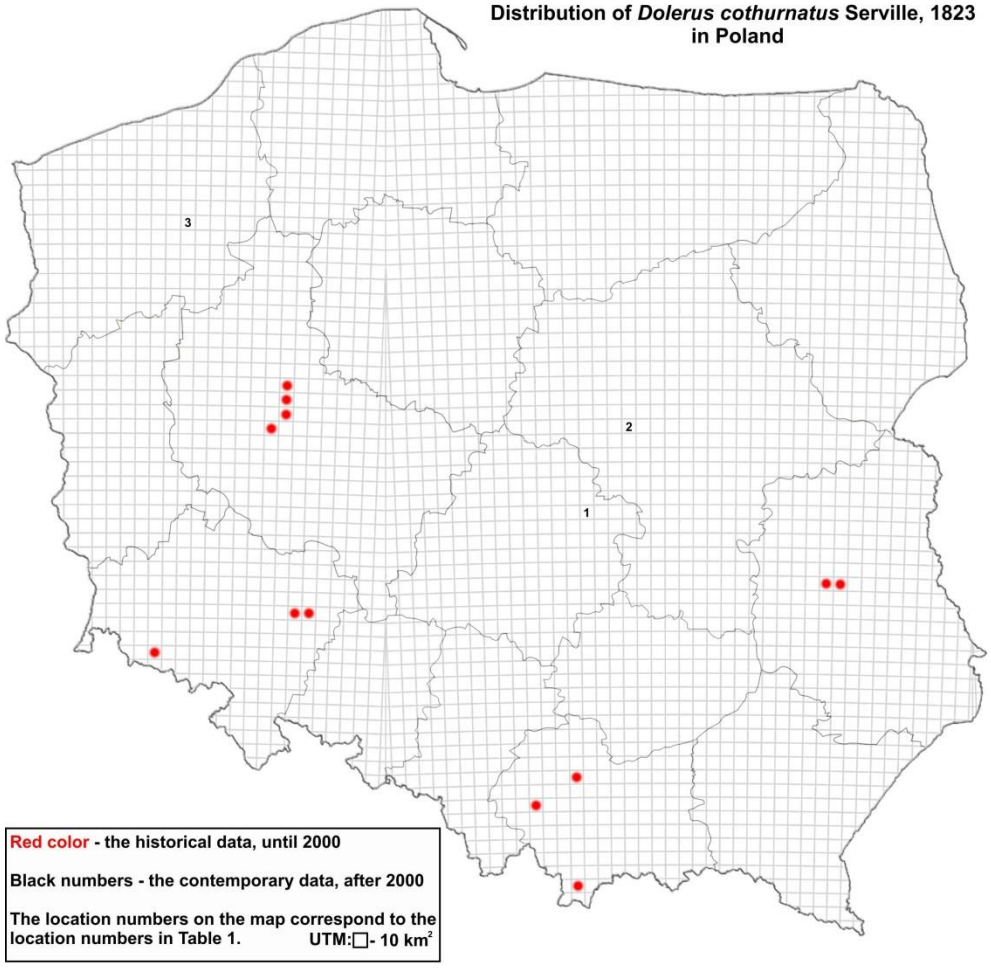
In the presented series of elaborations, focusing on faunistics and bionomy of Polish representatives of *Dolerus* Panz., the authors wish to report the results of collecting on more than thirty Polish localities in 2012-2017. The list (with short description) of localities on which *Dolerus cothurnatus* Serville has been found is presented in tab. 1, and general distribution of the species in Poland on map 1. Most of the specimens were collected by the authors of this paper. Two males were caught by K. Rudziński (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 cothurnatus* Serville 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	Kampinos National Park - „Wiejca" meadows	N 52°20'53" E 20°41'08" UTM: DC69	Natural, partly exploited wet meadows between Wiejca and Korfowe; numerous patches of sedge, large expanses of horsetails and small spots overgrown with hygrophilous herbaceous plants.
3	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.

Dolerus (Dolerus) cothurnatus Serville, 1823 (Fig. 1)
Known localities: Kraków, Tatra Mts. (Wierzejski 1868); Kraków (Niezabitowski 1897); Wadowice, Tatra Mts., Kraków-Dębniki (Niezabitowski 1899); Mirków, Cieplice Śląskie Zdrój, Wrocław (Dittrich 1905); Poznań, Biedrusko, Owińska (Ruszkowski 1925); National Park of Wielkopolska: Skrzynka Lake (Szulczewski 1939); Lublin-Czechów (Miczulski 1964); Elizówka (Miczulski 1980).
New localities: {1}, Głuchów Range (UTM: DC33), 7.V.2013, 1♂; 19.V.2015, 6♂♂; 20.V.2014, 3♀♀; **{2},** Kampinos National Park (UTM: DC69), 24.V.2016, 2♀♀; **{3}**, Złocieniec (UTM: WV63), 13.V.2014, 2♂♂, leg. K. Rudziński.

Host plant: *Equisetum* spp.
Geographical distribution: Palearctic species occurs in almost all of Europe and Siberia, where it reaches Sakhalin and the Kamchatka Peninsula (Haris 2000; Taeger & *al.* 2006, 2010). In Europe, however, it is more often observed in the north and in the middle of it than in the south.



Map 1. Distribution of *Dolerus cothurnatus* Serville in Poland.

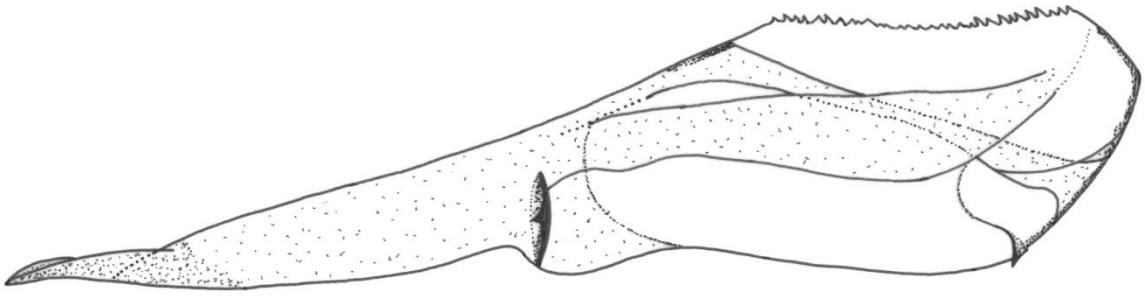


Fig. 1. *Dolerus cothurnatus* Serville – a right penis valve of male aedeagus (outer view).

Dolerus cothurnatus is much less frequently met than *D. bimaculatus* or *D. germanicus*. Swarms – like *D. bimaculatus*, *D. anticus* and *D. pratensis* – usually in the second decade of May (Fig. 2), preferring wet and sunny places.

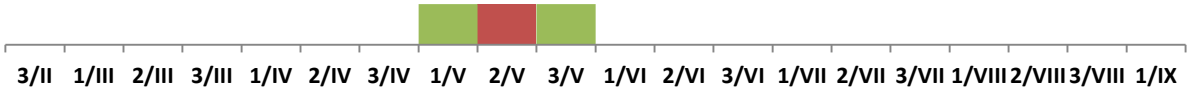


Fig. 2. Period of appearance of *Dolerus cothurnatus* Serville imagines in Central Poland (maximum intensity of swarming marked with red); II – IX – months from February to September; 1, 2, 3 – decades of particular months.

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References

[1] Dittrich R. 1905. Verzeichnis der bisher in Schlesien aufgefundenen Hymenopteren. II. Chalastogastra. *Zeitschrift für Entomologie*, 30: 23-47

[2] Haris A. 2000. Study on the Palaearctic *Dolerus* Panezr, 1801 species (Hymenoptera: Tenthredinidae). *Folia Entomologica Hungarica*, 61: 95-148

[3] Miczulski B. 1964. Błonkówki (Hymenoptera) w biocenozie upraw rzepaku. Część I. Rośliniarki (Symphyta). *Polskie Pismo Entomologiczne*, ser. B, z. 3-4: 189-201

[4] Miczulski B. 1980. Materiały do znajomości fauny błonkówek (Hymenoptera) upraw zbożowych w okolicach Lublina. *Roczniki Nauk Rolniczych*, ser. E, 10(1-2): 27-58

[5] Niezabitowski-Lubicz E. 1897. Przyczynek do fauny rośliniarek (Phytophaga) Galicyi. *Sprawozdanie Komisyi Fizyograficznej*, 32(II): 63-74

[6] Ruszkowski J. 1925. Rośliniarki (Tenthredinoidea) nowe dla fauny Wielkopolski. *Polskie Pismo Entomologiczne*, 4(1): 14-18

[7] Szulczewski J.W. 1939. Błonkówki (Hymenoptera). Cześć I. Liściarki (Tenthredinoidea). *Prace Monograficzne nad Przyrodą Wielkopolskiego Parku Narodowego w Ludwikowie pod Poznaniem*, 1939(6): 1-30

[8] Taeger A., Blank S.M. & Liston A.D. 2006. European Sawflies (Hymenoptera: Symphyta) – A Species Checklist for the Countries. pp. 399-504. In: Blank S.M., Schmidt S. & Taeger A. (eds), Recent Sawfly Research: Synthesis and Prospects, Goecke & Evers, Keltern. 704 pp.

[9] Taeger A., Blank S.M. & Liston A.D. 2010. World Catalog of Symphyta (Hymenoptera). *Zootaxa*, 2580: 1-1064

[10] Wierzejski A. 1868. Przyczynek do fauny owadów błonkoskrzydłych (Hymenoptera). *Sprawozdanie Komisyi Fizyograficznéj*, 2: 108-120

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