



Short note

## *New Localities of Sympetrum pedemontanum (Insecta: Odonata) in Bulgaria*

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**Abstract.** Two new localities of *Sympetrum pedemontanum* and distributional map of the species in Bulgaria are reported.

**Key words:** Dragonflies, Banded Darter, Libellulidae, Bulgaria.

### Introduction

The distribution of *Sympetrum pedemontanum* (Müller in Allioni, 1766) is given in KALKMAN (2014) as "...from Europe through the warmer, non-arid parts of temperate Asia to Japan. In Europe, its main area of distribution is situated in Central Europe.", and the species is included in IUCN Red List in category Least Concern (LC). According BESHOVSKI (1994) *S. pedemontanum* (Fig. 1) is rare in Bulgaria.

### Material and Methods

The known distribution of the species (Fig. 2) is on the base of information included in database of Milen Marinov (pers. comm.). The new localities are results of terrain investigations only.

### Results and Discussion

*Sympetrum pedemontanum* (Müller in Allioni, 1766)

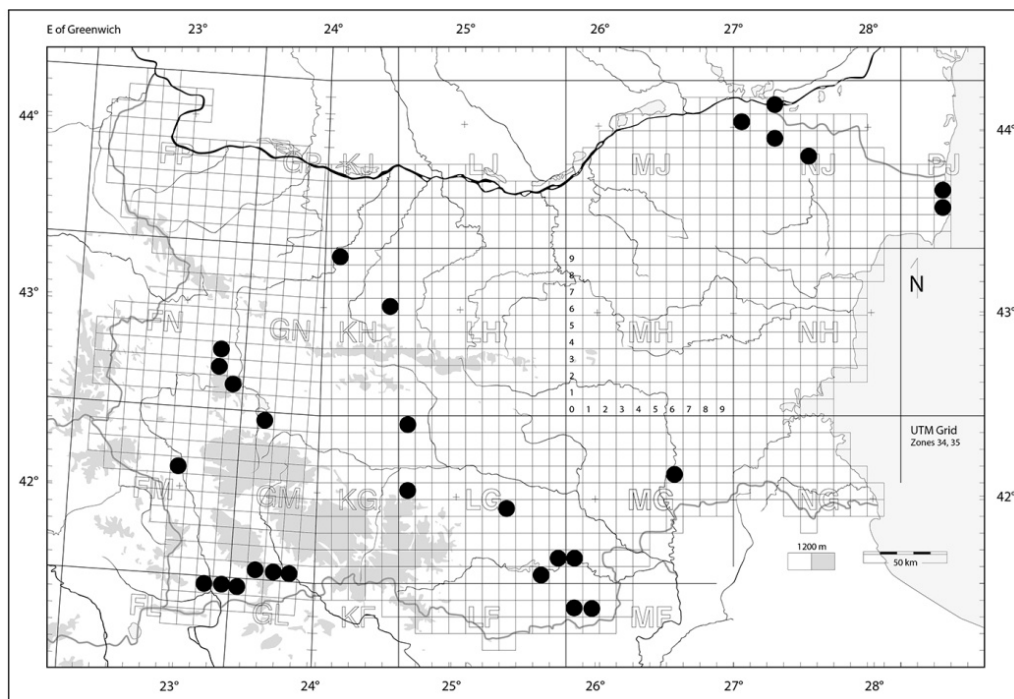
*New localities:* North Bulgaria, near Sopot Dam, south of Golyama Zhelyazna Village, UTM: KH96, 42.9929 N 24.4491 E, 7.07.2015, more than 10 males and females, in copula and oviposition, D. Bechev obs. (Fig. 1); South Bulgaria, south of Parvenets Village, UTM: LG05, 42.0556 N/ 24.6517 E, 12.07.2011, 1 female, D. Bechev obs.

Database of Milen Marinov contains data for 38 localities of the species in Bulgaria (7 from literature sources: PETKOV, 1914; NEDELKOV, 1923; MAUERSBERGER, 1985; BESHOVSKI & MARINOV, 1993; BESCHOVSKI & MARINOV, 1998 and 31 unpublished observations) with a maximal altitude of 517 m a.s.l. The localities are situated in 26 10X10 km UTM squares. In all localities *S. pedemontanum* was recorded by single specimens (1 – 3).



**Fig. 1.** *Sympetrum pedemontanum* (male) from Sopot Dam.

In the new reported locality, near Sopot Dam, the species was recorded with numerous



**Fig. 2.** Distribution of *Sympetrum pedemontanum* in Bulgaria.

specimens, probably forming a population, with male and female in copula and oviposition observed. Thus the record provided information and about the reproduction period of the species in North Bulgaria.

**Acknowledgements**

I am grateful to Dr. Milen Marinov who provided me information concerning the localities of this species in Bulgaria.

**References**

BESHOVSKI V. 1994. *Insecta, Odonata. 23. Fauna Bulgaria*. Bulgarian Academy of Sciences, Sofia, 372 p. (in Bulgarian).  
 BESCHOVSKI V., M. MARINOV 1993. The Dragonflies (Odonata) from the Srebarna Biosphere Reserve in Bulgaria. In: *Second National Entomologic Conference*, Sofia, 25-27 October 1993: pp. 9-13 (in Bulgarian, English summary).  
 BESCHOVSKI V., M. MARINOV, 1998. Order Odonata. – In: Michev, T; B. Georgiev, A. Petrova & M. Stoyneva (Eds.), *Biodiversity of the Srebarna Biosphere reserve*.

*Checklist and Bibliography*. MEW/Pensoft: 73.

KALKMAN V. 2014. *Sympetrum pedemontanum*. *The IUCN Red List of Threatened Species 2014*: e.T165464A19170001. Available at: [dx.doi.org/10.2305/IUCN.UK.2014-1.RLTS.T165464A19170001.en](https://dx.doi.org/10.2305/IUCN.UK.2014-1.RLTS.T165464A19170001.en) (Accessed on 20 November 2016).  
 MAUERSBERGER R. 1985. Libellen (Odonata) von der nordbulgarischen Schwarzmeerküste. *Entomologische Nachrichten and Berichte*, 29: 199-207.  
 NEDELKOV N. 1923. Eight contribution to the entomological fauna of Bulgaria. *Spisanie na Balgarskata Akademiya na Naukite*, 25: 45-52 (in Bulgarian).  
 PETKOV P. 1914. Entomological notes. *Trudove na Balgarskoto prirodoszpitatelno druzhestvo*, 6: 99-104 (in Bulgarian).

Accepted: 26.11.2016  
 Published: 20.12.2016