

**10<sup>th</sup> International Symposium on Syrphidae**  
**Lesvos Greece**  
8<sup>th</sup> - 12<sup>th</sup> September 2019



---

**PROGRAMME**  
**&**  
**BOOK OF ABSTRACTS**

---



**MYTILENE 2019**



### **Organizing Committee**

Theodora Petanidou, University of the Aegean, Mytilene, Greece  
Thomas Tscheulin, University of the Aegean, Mytilene, Greece  
Ante Vujić, University of Novi Sad, Novi Sad, Serbia  
Jelena Ačanski, University of Novi Sad, Novi Sad, Serbia  
Marija Miličić, University of Novi Sad, Novi Sad, Serbia  
Marina Janković, University of Novi Sad, Novi Sad, Serbia  
Dubravka Milić, University of Novi Sad, Novi Sad, Serbia  
Ana Grković, University of Novi Sad, Novi Sad, Serbia  
Laura Likov, University of Novi Sad, Novi Sad, Serbia

### **International Scientific Committee**

Francis Gilbert, University of Nottingham, Nottingham, United Kingdom  
Gunilla Ståhls, University of Helsinki, Helsinki, Finland  
Santos Rojo, University of Alicante, Alicante, Spain  
Mirian N. Morales, Universidade Federal de Lavras, Lavras, Brazil  
John T. Smit, European Invertebrate Survey – Netherlands, Leiden, the Netherlands  
Ximo Mengual, Zoological Research Museum Alexander Koenig, Bonn, Germany  
Snežana Radenković, University of Novi Sad, Novi Sad, Serbia  
Mihajla Đan, University of Novi Sad, Novi Sad, Serbia

### **Congress Venue**

Department of Geography, University of the Aegean, University Hill, 81100, Mytilene, Greece

### **Sponsored by**

University of the Aegean

Department of Geography, University of the Aegean

### **Supported by**

University of the Aegean

**Symposium logo:** Jelena Ačanski



## Hoverflies of Serbia: What suits them better – Protected Areas or Prime Hoverfly Areas?

Marina Janković\*<sup>1</sup>, Marija Miličić<sup>2,3</sup>, Jelena Ačanski<sup>2</sup>, Snežana Popov<sup>1</sup> & Ante Vujić<sup>1</sup>

<sup>1</sup> Department of Biology and Ecology, Faculty of Sciences, University of Novi Sad, Novi Sad, Serbia; e-mail: marinaj@dbe.uns.ac.rs, snezana.jovicic@dbe.uns.ac.rs, ante.vujic@dbe.uns.ac.rs

<sup>2</sup> BioSense Institute – Research Institute for Information Technologies in Biosystems, University of Novi Sad, Novi Sad, Serbia; e-mail: marija.milicic@biosense.rs, acanskijelena@gmail.com

<sup>3</sup>LIBRe – Laboratory for Integrative Biodiversity Research, Finnish Museum of Natural History, University of Helsinki, Helsinki, Finland

Keywords: conservation; efficiency; insects; Syrphidae

Biodiversity is declining on a global level, which raises the question of efficiency of Protected Areas (PAs). Furthermore, PAs are often established for political or economic reasons, rather than based on ecological principles, or scientific criteria. When designating PAs, the focus is mainly on well known, charismatic species, often leaving invertebrates, especially insects, underrepresented.

In Serbia, 77 species of hoverflies have been protected by the national law Code on declaration and protection of strictly protected and protected wild species of plants, animals and fungi (Official Gazette of RS, no. 5/2010). In order to improve the conservation status of hoverflies, Vujić et al. (2016) identified species of conservation concern and proposed priority areas (Prime Hoverfly Areas - PHA) for their preservation in Serbia, based on long-term monitoring data.

The aims of this study are to identify the areas of high hoverfly diversity in Serbia and to evaluate the efficiency of protected areas and Prime Hoverfly Areas in conservation of hoverfly diversity, especially species of conservation concern. The results indicate that PHA network corresponds better to areas of high hoverfly diversity than the network of PAs. The correspondence is even better when it comes to areas harbouring species of conservation concern.

Acknowledgements: This work was funded by the Ministry of Education, Science and Technological Development of the Republic of Serbia Grant Nos. OI173002 and III43002, the Provincial Secretariat for Science and Technological Development of the Republic of Serbia Grant No. 114-451-1125/2014-03 and 114-451-1702/2014-03 and H2020 Project “ANTARES” (664387).



---

References:

Vujić A, Radenković S, Nikolić T, Radišić D, Trifunov S, Andrić A, Markov Z, Jovičić S, Mudri Stojnić S, Janković M & Lugonja P (2016) Prime Hoverfly (Insecta: Diptera: Syrphidae) areas (PHA) as a conservation tool in Serbia. *Biological Conservation* (198):22–32.