INTERIM REPORT

Mires of Bosnia and Herzegovina - Important and Fragile Habitat Types and Refugium for Boreal and Circumboreal Fungal Species



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Field Research and Results

From the beginning of the project implementation until end of April 2024, we have completed 17 mycology field researches on four main peatland sites in Bosnia and Herzegovina (Protected Landscape Bijambare, Đilda`s peatland – Mt. Zvijezda, Han Kram peatland – Han Pijesak and Jezerca peatland – Mt. Vranica). Field research have been organized in almost every month during project duration except December and January due to the low temperature, snow and frost at the peatland sites.

No	Date	Petland site	Locality
1	17.04.2023.	Đilda`s peatland	Mt. Zvijezda
2	04.05.2023.	Duga/Slana bara	Bijambare PL
3	06.05.2023.	Duga/Slana bara	Bijambare PL
4	20.05.2023.	Duga/Slana bara	Bijambare PL
5	04.06.2023.	Duga/Slana bara	Bijambare PL
6	29.06.2023.	Đilda`s peatland	Mt. Zvijezda
7	09.07.2023.	Han Kram peatland	Han Pijesak
8	09.08.2023.	Đilda`s peatland	Mt. Zvijezda
9	25.08.2023.	Đilda`s peatland	Mt. Zvijezda
10	10.09.2023.	Jezerca peatland	Mt. Vranica
11	19.09.2023.	Đilda`s peatland	Mt. Zvijezda
12	08.10.2023.	Duga/Slana bara	Bijambare PL
13	28.10.2023.	Đilda`s peatland	Mt. Zvijezda
14	04.11.2023.	Duga/Slana bara	Bijambare PL
15	25.02.2024.	Duga/Slana bara	Bijambare PL
16	10.03.2024.	Đilda`s peatland	Mt. Zvijezda
17	07.04.2024.	Đilda`s peatland	Mt. Zvijezda

Table 1. List of completed field research on four main peatland sites in Bosnia and Herzegovina

It is important to highlight that every field research takes at least 2-3 days of laboratory analysis in order to determine collected fungal species and to input all relevant data into FAMU (electronic database and fungarium).

From the last report we have managed to find some very important and intriguing fungal species, most of them are indicator species, highly specialized for peatlands as rare and endangered habitat type in this part of Europe.



Photo 1. Rare and endangered peatland fungal species –
Hygrocybe coccineocrenata
(Đilda`s peatland, Mt. Zvijezda)



Photo 2. Indicator and stenovalent peatland species – Bogbodia uda (Duga bara, Bijambare)

Some of the most important recorded fungal species are: Hypholoma ericaceum, Bogbodia uda, Hygrocybe coccineocrenata, Arrhenia leucotricha, Galerina sphagnorum, etc. All these findings represent first official records for Bosnia and Herzegovina.



Photo 3 & 4. First time recorded in Bosnia and Herzegovina – Arrhenia leucotricha (Đilda`s peatland). Macrophoto above (photo 3), microphoto bellow (photo 4).



Arrhenia leucotricha is quite rare and not enough understood fungal species from the family Hygrophoraceae. In our case, it decompose dead remnants of Filipendula ulmaria plant.

Book preparation

Preparation, design and illustration of the book "Peatlands Fungi in Bosnia and Herzegovina" is now at its final stage. Total number of pages is more than 200 with close to 100 most important registered fungal species being richly illustrated and described.

For each species most important details will be specified through symbols: ecology, IUCN proposed conservation status, indicator status and information if it is first official finding for mycobiota of Bosnia and Herzegovina.



Description of each species will be followed with high quality photos of fungi as well as some drone photos of the peatlands and associated habitat.

Book will be printed in 200-300 copies and will be distributed to the all relevant authorities in Bosnia and Herzegovina in both entities. Apart of authorities, book will be given to he all National and City Libraries in Bosnia and Herzegovina as well as to all Faculties for Natural Science, relevant schools, other similar associations and societies, etc.

Book promotion will be held together with documentary movies premiere in National Museum of Bosnia and Herzegovina in Sarajevo, as proposed within project application.

Documentary movie

A hours of video material have been recorded so far. From the beginning of June video editing and producing of documentary movie about peatlands and fungi inhabiting peatlands will start.

Plan is to produce short documentary movie up to 30 minutes long and to show and to present it for the first time along with previously mentioned book within National Museum of Bosnia and Herzegovina.

Documentary movie will be afterwards broadcasted on YouTube MycoBH channel with sponsored posts about its premiere.

Mycology workshop

At the very end of the planned project activities we are planning to organize mycological workshop at the area close to the one of the main peatlands in Bosnia and Herzegovina. Workshop will be held in September or October and we believe this will be great opportunity to record some very important fungal species. Currently, we are above 150 fungal species registered in the peatlands of Bosnia and Herzgovina.



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Mitrula paludosa Fr. - Duga bara, Rijambare-

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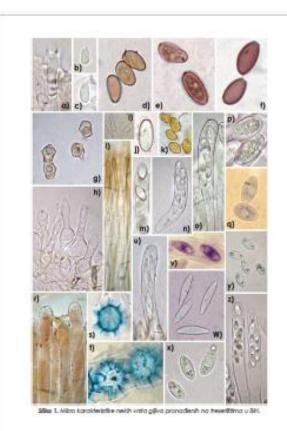
Trizodia acrobia Laukka Dega bara, Njambaw -

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Photo 5. Details from the book – Petlands Fungi in Bosnia and Herzegovina



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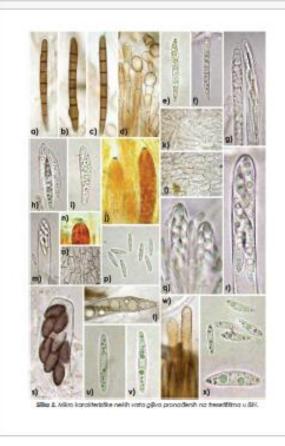


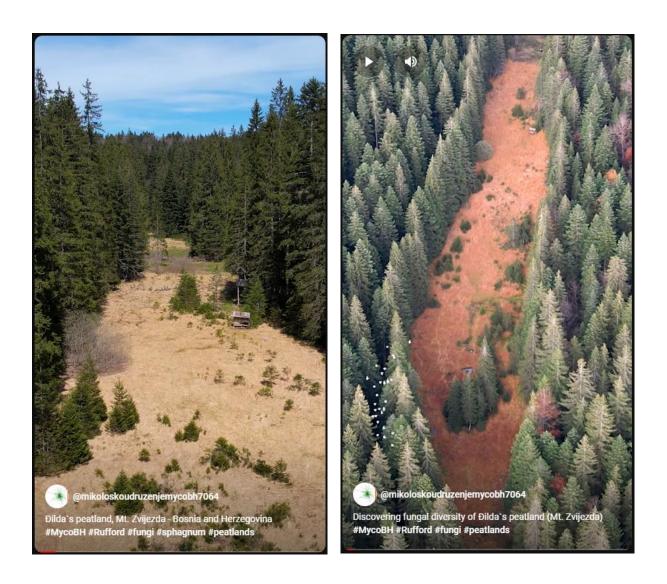


Photo 6. Details from the book – Petlands Fungi in Bosnia and Herzegovina

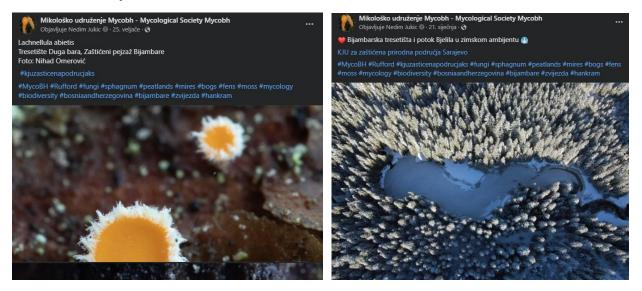
Project promotion

Additional social media videos in reels format have been recorded and published on Facebook, Instagram and YouTube MycoBH profiles and channels. Both are from the Đilda's peatland in Mt. Zvijezda:

- <u>https://www.youtube.com/shorts/uFhuIGPeUA0</u>
- <u>https://www.youtube.com/shorts/4Fk9-t4qSLM</u>



Social media posts



Mikološko udruženje Mycobh - Mycological Society Mycobh Objavljuje Nedim Jukic 💿 · 5. studeni 2023. · 😚

"Sfagnumska" Entoloma

Entoloma cetratum, Zaštićeni pejzaž Bijambare, tresetište Duge bare.

#MycoBH #Rufford #kjuzasticenapodrucjaks #fungi #sphagnum #peatlands #mires #bogs #fens #moss #mycology #biodiversity #bosniaandherzegovina #bijambare #zvijezda #hankram

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Photos from filed research

