



# The latest coolest changes at the Mukhrino Field Station, Khanty-Mansiysk, Russia

Evgeny Zarov, Nina Filippova



# Mukhrino FS location



# Global changes at the Mukhrino FS

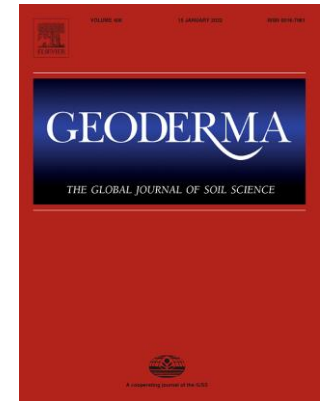
- Crazy increase of staff

population 4 -> 8 -> 43



- Active publication in high-rating journals

- Created 2 labs and 1 department



# Laboratory of Ecosystem-Atmospheric Interactions of Forest - Mire Complexes

**Yugra State University (YuSU), Khanty-Mansiysk, Russia**

**University of Helsinki (UHEL), (co-ordination)**  
**Natural Resources Institute Finland (LUKE)**



Prof. Timo Vesala







**Site 1**  
Ridge-hollow complex  
(Alekseychik et al. 2017 г.)

**Site 2**

**Site 3**

House

200 m



# Site 1



Metek 2000  
Li7500 1500

# Site 2

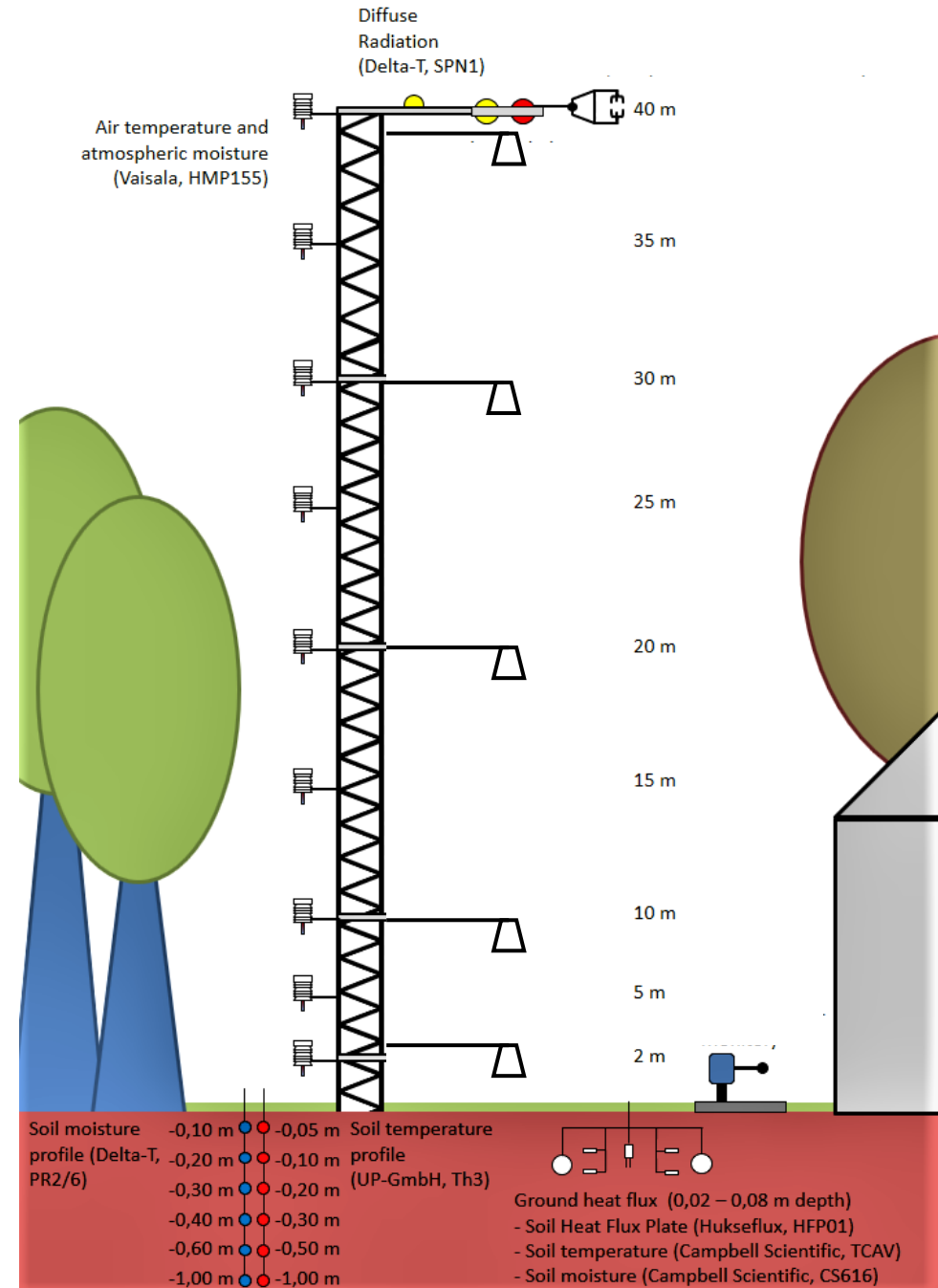


Metek 2000  
Li7200 3500  
P-2201-f 9000  
Li7550 500  
Mast 100

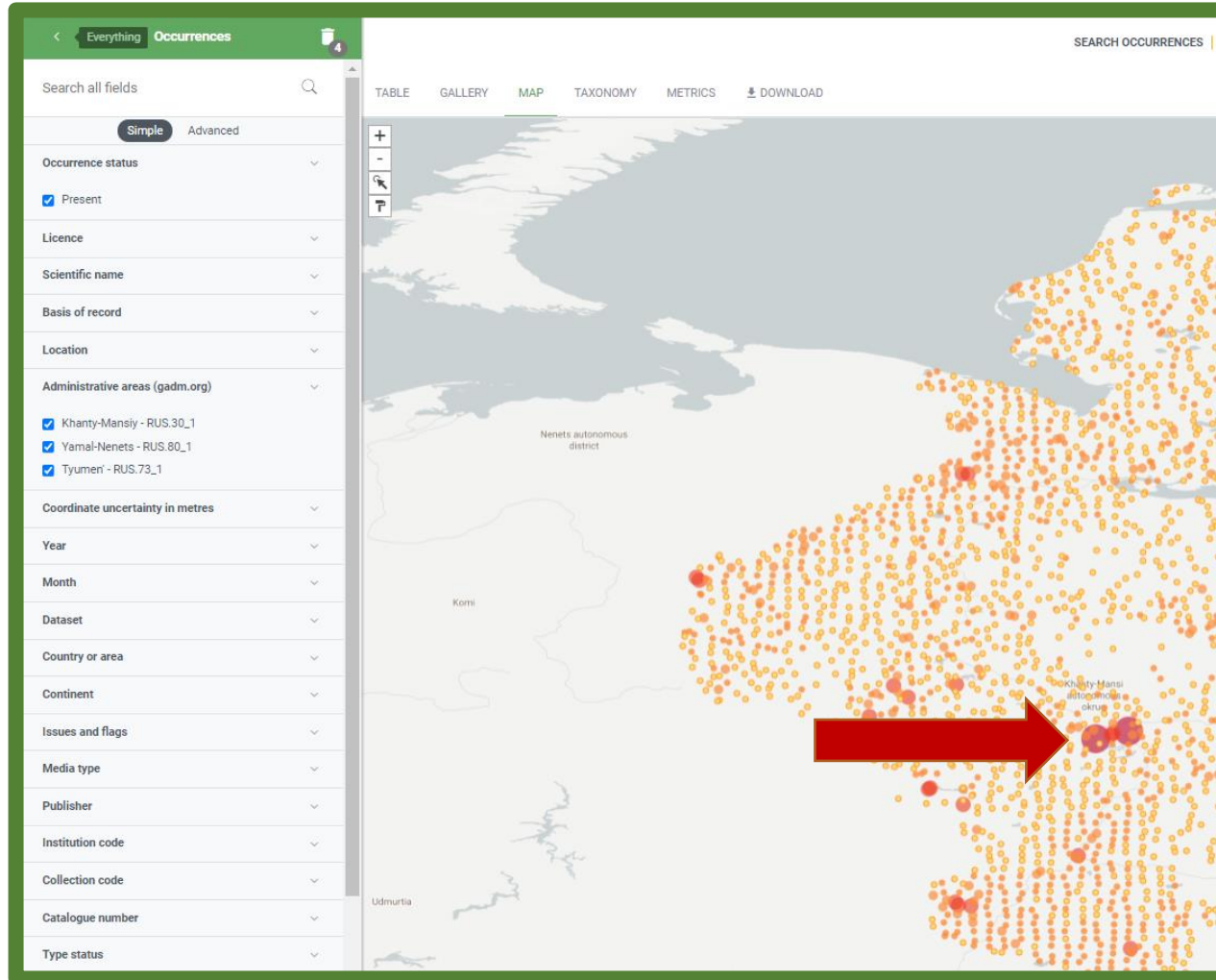
# Site 3



Metek 2000  
Li7200 3500  
P-2201-f 9000  
Li7550 500  
Mast etc 2000



# Mukhrino field station – a biodiversity of peat and center for biodiversity



GBIF INTEGRATED PUBLISHING TOOLKIT (IPT) free and open access to biodiversity data Logged in as [filippova.courlee.nina@gmail.com](#) [ACCOUNT](#) [LOGOUT](#) [ENGLISH](#)

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### Organisations

Filter:

Organisation name	Alias	Can publish resources?	DOI registration agency	Can register DOIs?
<a href="#">Federal State Budgetary Institution "United Directorate of Reserves of Taimyr"</a>	Federal State Budgetary Institution "United Directorate of Reserves of Taimyr"	Yes	--	No
<a href="#">Institute for Biological Problems of Cryolithozone SB RAS</a>	Institute for Biological Problems of Cryolithozone SB RAS	Yes	--	No
<a href="#">Institute of the problems of Northern development is a subdivision of Tyumen Scientific Centre SB RAS</a>	Institute of the problems of Northern development is a subdivision of Tyumen Scientific Centre SB RAS	Yes	--	No
<a href="#">Malaya Sosva State Nature Reserve</a>	Malaya Sosva State Nature Reserve	Yes	--	No
<a href="#">Museum of Nature and Man</a>	Museum of Nature and Man	Yes	--	No
<a href="#">National Research Tomsk State University</a>	National Research Tomsk State University	Yes	--	No
<a href="#">Natural park "Samarovskiy Chugas"</a>	Natural park "Samarovskiy Chugas"	Yes	--	No
<a href="#">Natural park «Kondinskije lakes» named after L.F. Stashkevich</a>	Natural park «Kondinskije lakes» named after L.F. Stashkevich	Yes	--	No

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## Портал биологических коллекций Севера Западной Сибири

This portal is part of the digitization and data mobilization initiative in the Northern Part of Western Siberia. It will host databases of biological collections of Yugra State University, as well as other universities, nature reserves and individual collections in the region. Further information about the project, description of sources of biodiversity data and ongoing programs could be found [on the web site](#).

To browse a particular collection, select the tab from the top navigation bar. Details about the collections:

- Fungarium of Yugra State University ([GBIF dataset](#)) - collection of specimens of fungi, 8323 specimens with pictures of life specimens
- Herbarium of Yugra State University ([GBIF dataset](#)) - collection of specimens of vascular plants (currently in digitization, 135 specimens available) with pictures of life specimens and scans
- Bryological collection of Yugra State University ([GBIF dataset](#)) - collection of bryophytes collected by Elena Lapshina (in digitization, 128 specimens from about 7000 available)
- Elena Zvyagina Fungarium ([GBIF dataset](#)) - personal collection of specimens of fungi (in digitization, 363 specimens available)
- Herbarium of Kondinskije Oзера Natural Park ([GBIF dataset](#)) - (in digitization, 745 specimens available)
- Herbarium of Yuganskiy State Nature Reserve ([GBIF dataset](#)) - (in digitization, 861 specimen available)
- Herbarium of Numto Nature Park ([GBIF dataset](#)), 144 specimens of vascular plants, mosses and lichens
- Macrofungi of raised bog habitats - 517 specimens from YSU-F selected for taxonomic revision

For more details about the portal please contact:

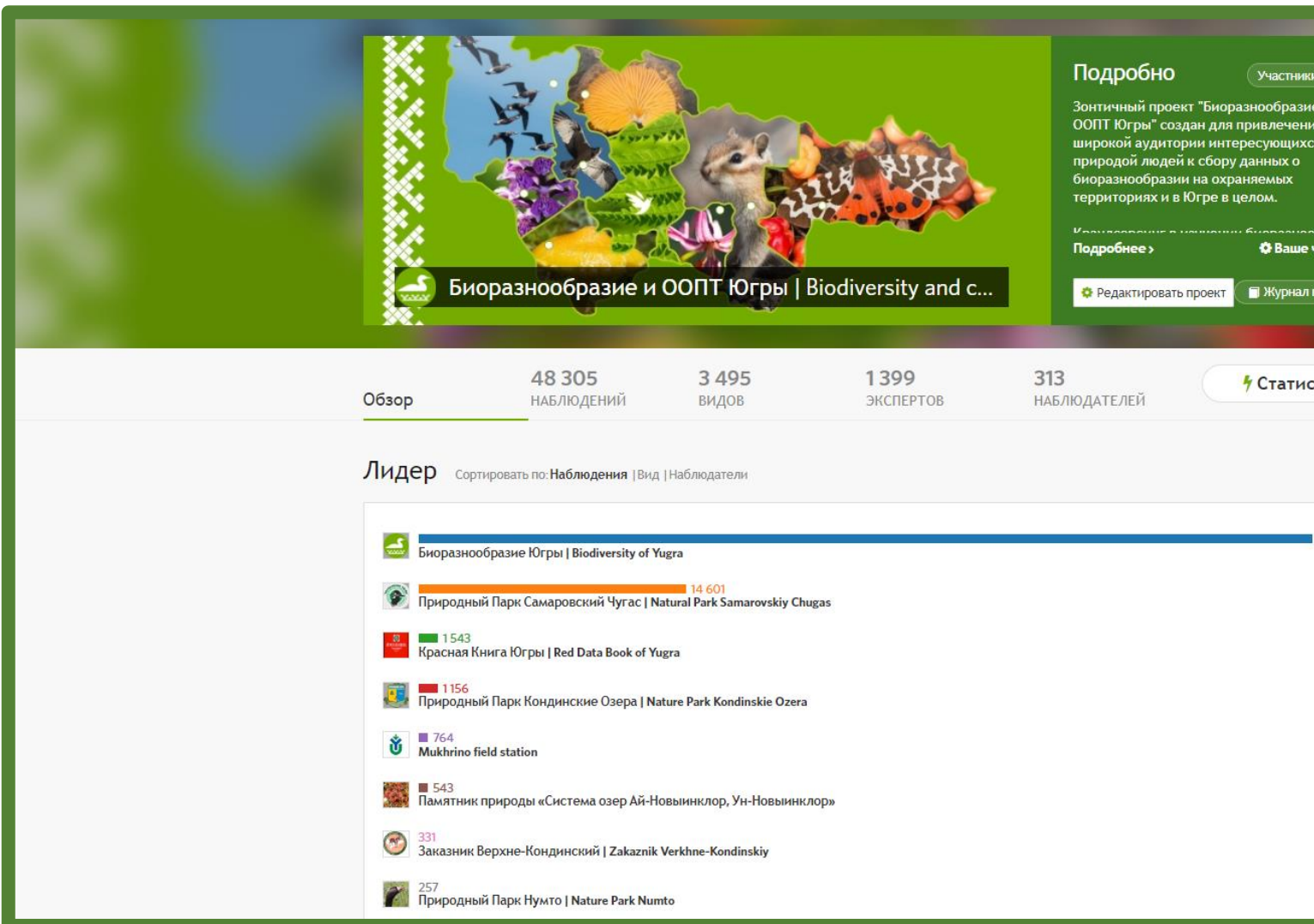
- Nina Filippova, responsible for the content ([filippova.courlee.nina@gmail.com](mailto:filippova.courlee.nina@gmail.com))
- Dmitry Karpov, IT ([dvk@ugrasu.ru](mailto:dvk@ugrasu.ru))

The project is supported by the INTERACT Virtual Access under EU-H2020 Grant Agreement No.730938.

Проект поддержан фондом Президентских грантов (№20-0015601) Комплекс в сфере создания и мобилизации данных о биоразнообразии для научных и образовательных организаций Югры, 1.07.2020-01.07.2021).



# Citizen Science in Biodiversity Mukhrino and in the



## Mukhrino on iNaturalist.org

iNaturalist.org is a social network of naturalists, citizen scientists, and biologists for mapping and sharing observations of biodiversity across the globe. Since 2019 we use iNaturalist to map biodiversity observations in the station' vicinity. There is also active and growing community of iNaturalists in Yugra region (<https://nwsbios.org/inat-yugrabio>).

### How to join iNaturalist.org and start making observations

iNaturalist

#### Who you are

You'll need to make an iNaturalist account and please only post your own personal observations

#### Where you saw it

Record both the coordinates of the encounter as well as their accuracy. You can obscure the location from the public

#### What you saw

Choose a group of organisms like **butterflies** or better yet a specific organism like the **Monarch butterfly**. If you provide evidence you can leave this blank and the community can help

#### When you saw it

Record the date of your encounter, not the date you post it to iNaturalist

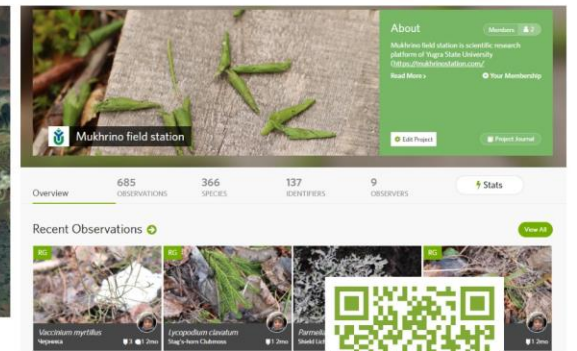
#### Evidence of what you saw

By including evidence like a **photo** or **sound**, the community can help add, improve, or confirm the identification of the organism you encountered. Help the community by taking clear well framed photos, by including multiple photos from different angles

There are about half of thousand observations made in Mukhrino project on iNaturalist today. They are collected by 10 observers and confirmed by hundred of experts. Together we registered about 350 species of different organisms and some of their biological features (phenology, for example). You could explore biodiversity of Mukhrino by browsing the project.



Map of observations in Mukhrino vicinity



Please, consider iNaturalist as a tool for your adventure in Mukhrino Field Station biodiversity!



Mukhrino project on iNaturalist.org

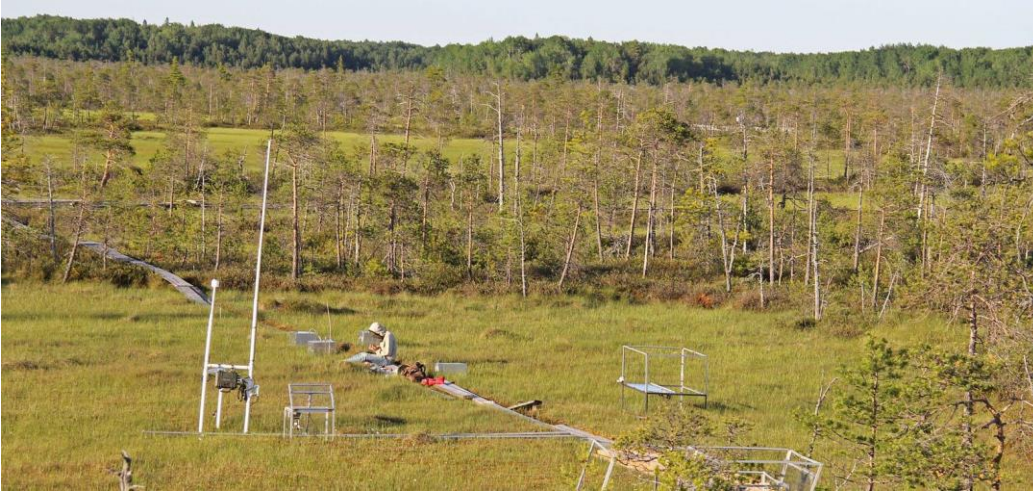
# New **Molecular Laboratory** for complex approach to studying peatland biodiversity

- New equipment for molecular systematics and ecology
  - Nucleic acid extraction, PRC, Sanger sequencing, metagenomics
- Several groups invited through TA to collaborate on the project
- 5 new employees for the laboratory full scale development





# Thank you for your attention



*SITE* <https://mukhrinostation.com/>

*FOTO* <https://www.flickr.com/photos/mukhrinostation/>

*GIS* <https://vis.uriit.ru/resource/935/display?panel=layers>

*FB* <https://www.facebook.com/mukhrino>

*INTERACT* <https://eu-interact.org/field-sites/mukhrino-field-station/>