

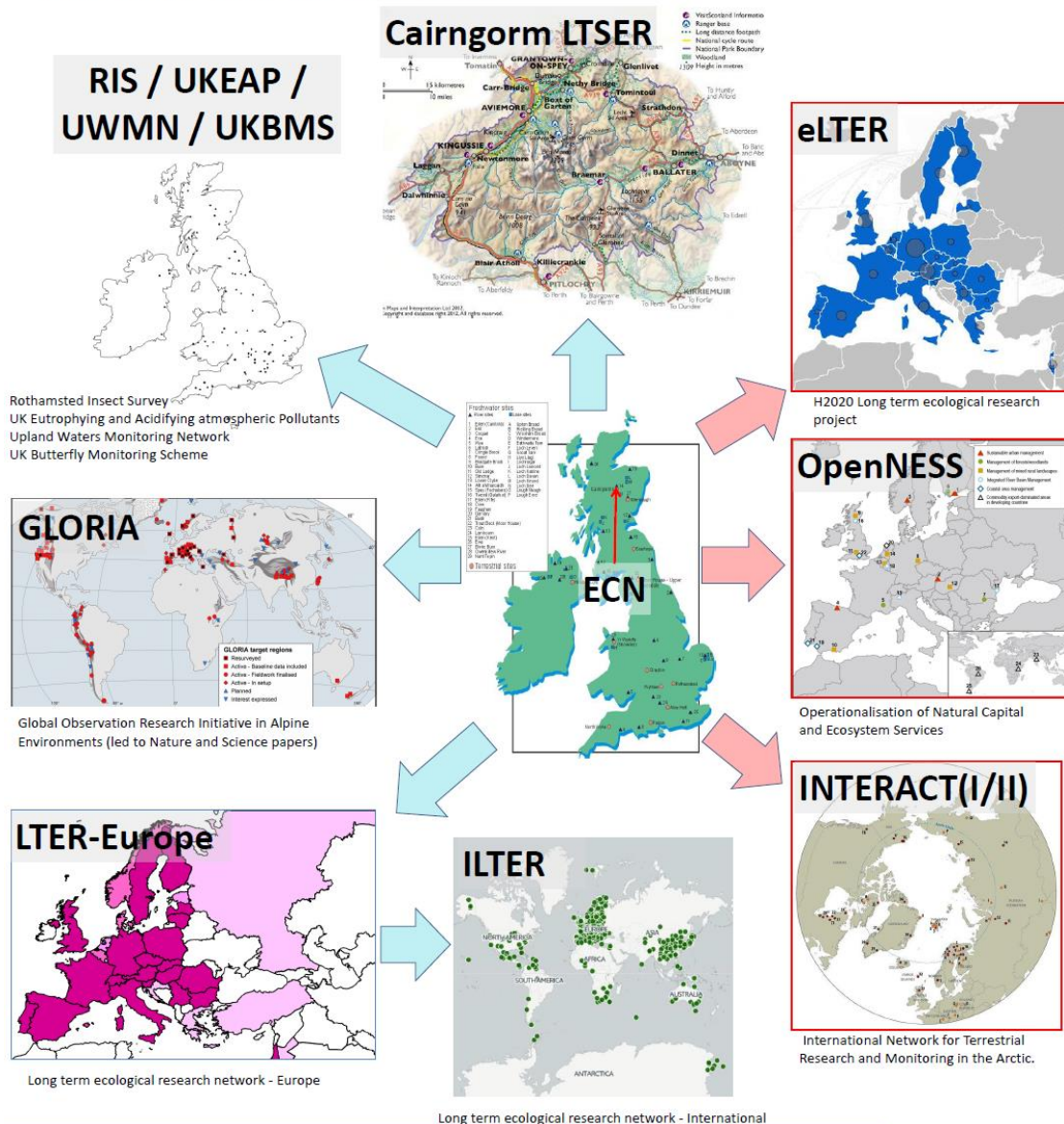


eLTER Research Infrastructure

Integrated European
Long-Term Ecosystem Research
Infrastructure

Integrated research and monitoring

Through ECN the Allt a' Mharcaidh research site currently provides data for nine networks at local, national, regional and global scales (**blue arrows**), and is further involved in three EU funded projects (**red arrows**).



Chris Andrews – Station manager



Jan Dick
jand@ceh.ac.uk



Scope of eLTER presentation

- Purpose of network (discipline),
- Geographical distribution (gaps),
- Rough costs (time/money?)
- What is required by members (e.g. methods/equipment, sampling, data handling)
- How to become a member and
- Links to network website?

eLTER Purpose

TAKING
THE PULSE OF
EUROPE'S
ENVIRONMENTAL
SYSTEM

OUR MISSION

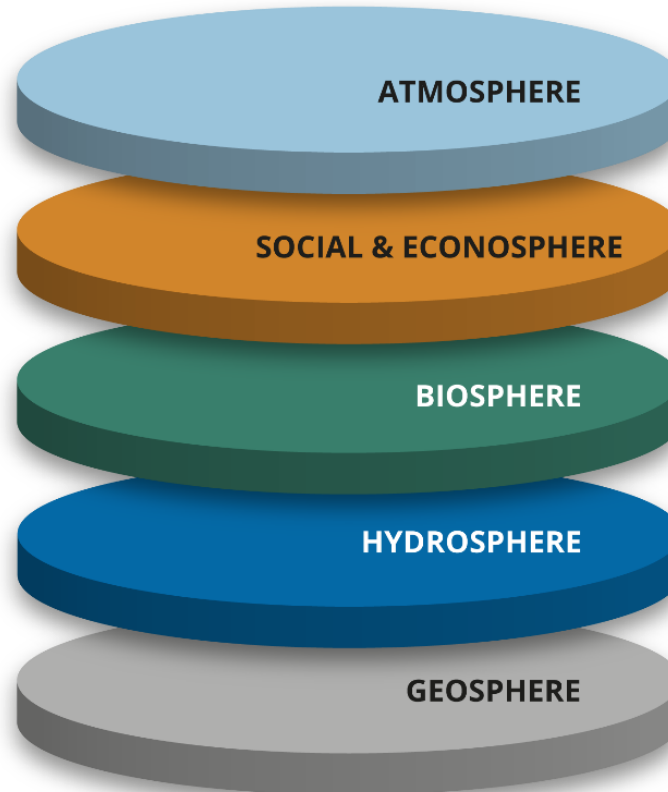
Research into ecosystem
structures and functions

Site-based

Multi-scale

Cross-disciplinary

eLTER WILL SERVE
MANY RESEARCH
COMMUNITIES



USERS

Researchers

Policymakers

Students

Authorities

Civil society



Long-Term Ecosystem Research in Europe



Networking



LTER-Europe network

In this section...

[about](#)

[networks & sites](#)

[data](#)

[projects](#)

[join](#)

LTER-Europe

Long-Term Ecosystem Research (LTER) is an essential component of world-wide efforts to better understand ecosystems. Through research and monitoring, LTER seeks to improve our knowledge of the structure and functions of ecosystems and their long-term response to environmental, societal and economic drivers.

LTER contributes to the knowledge base informing policy and to the development of management options in response to the Grand Challenges under Global Change.

[LTER-Europe](#) was launched in 2003 as the umbrella network for Long-Term Ecosystem Research (LTER) in Europe. It's members are [national networks](#) operating a wide range of research and monitoring [sites](#) as well as larger [platforms](#) for socio-ecological research.

LTER-Europe

● Contact us: secretariat@ltereurope.net ● [Members' area](#)

www.lter-europe.net

Long-Term Ecosystem Research in Europe

- ILTER regional network
- ENVRIplus member
- DataONE Member Node

Contact us

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Credits
Website powered by Plone

LTER in Europe comprises three components, well embedded in the European Research Area:

Networking



LTER-Europe: The European Long-term Ecosystem Research Network. The international LTER network (ILTER) consists of formal national networks and regional groups, including the 25-member LTER-Europe. The governance structures of LTER-Europe secure permanent representation of LTER at the European scale and enable strategic activities.

[More...](#)



Research & Development



eLTER H2020 project: The Horizon 2020 flagship cooperation project of the European LTER and critical zone research, developing network level Research Infrastructure services alongside exemplary research questions and analyses of data from ~160 sites across Europe.

[More...](#)



Infrastructures



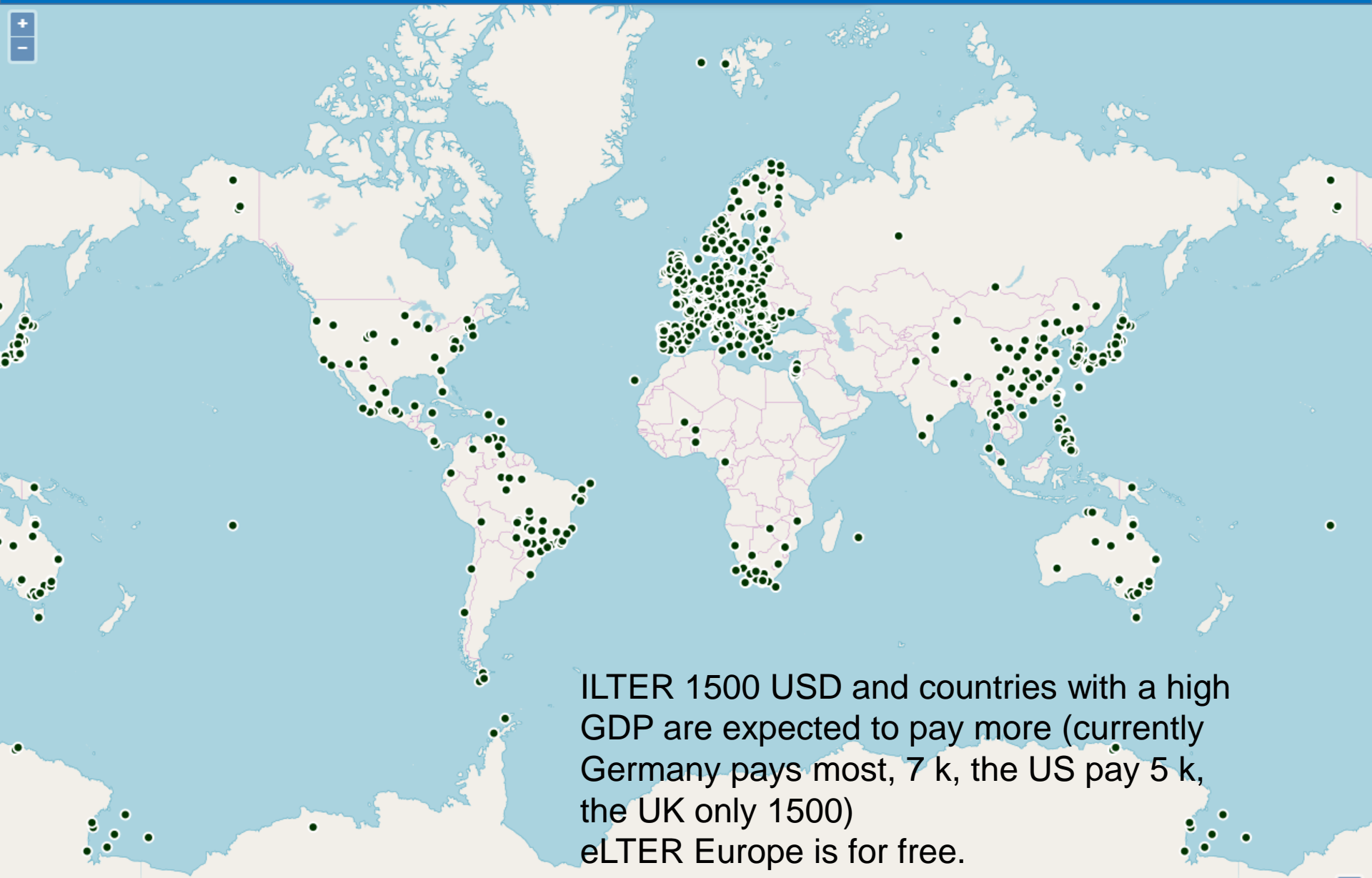
eLTER RI: Developing the eLTER Research Infrastructure (eLTER RI) via the ESFRI process. When fully operational, eLTER RI will provide a wide range of services to different end users. eLTER RI is now on the 2018 ESFRI roadmap.

[More...](#)

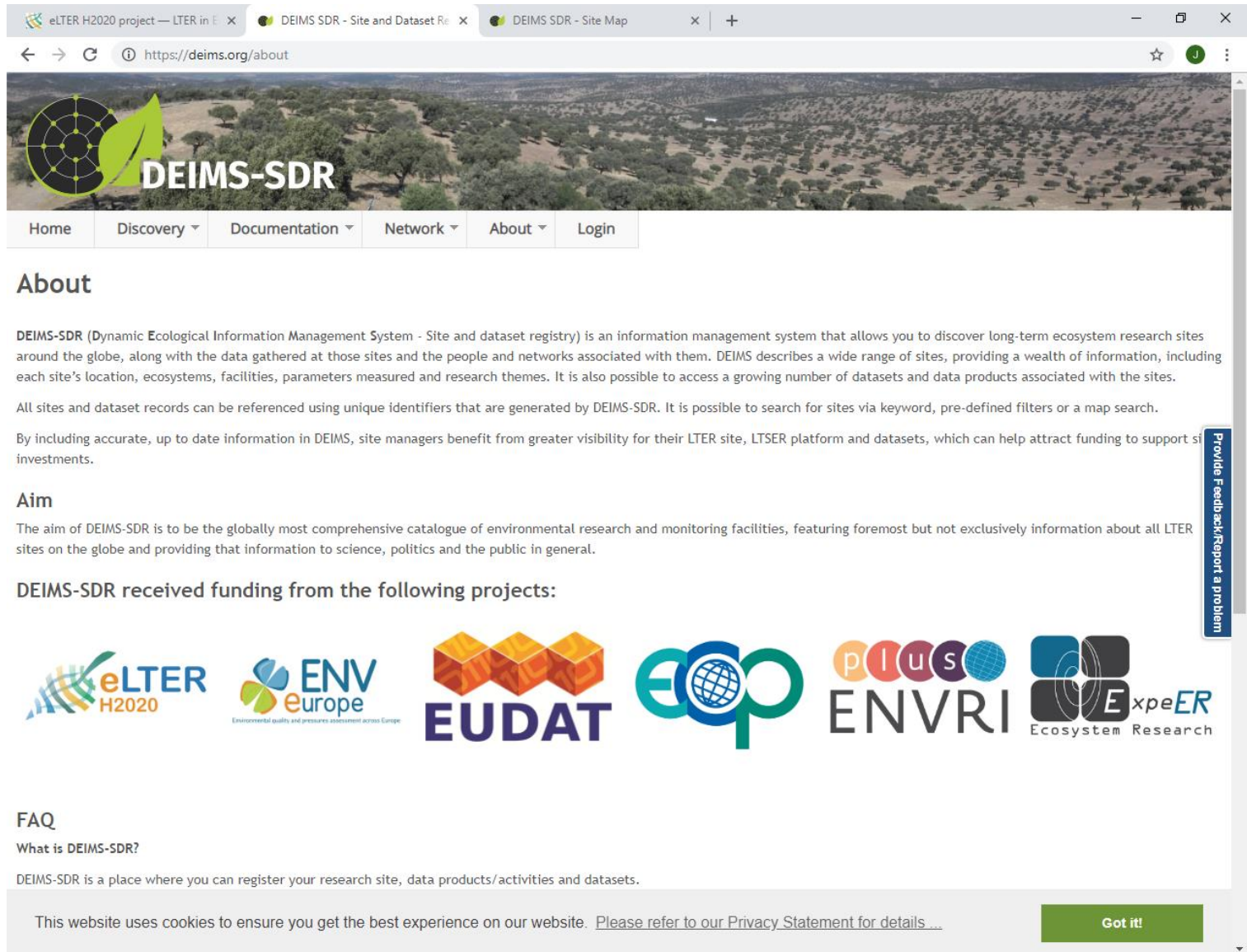


<http://www.lter-europe.net/>

eLTER and International Long term Ecological Research Network (ILTER) Geographical distribution



What is required by members



The screenshot shows a web browser with three tabs: 'eLTER H2020 project — LTER in E...', 'DEIMS SDR - Site and Dataset Registry', and 'DEIMS SDR - Site Map'. The address bar shows 'https://deims.org/about'. The website header features a large landscape image with the DEIMS-SDR logo (a green leaf and a black globe with a network pattern) and the text 'DEIMS-SDR'. Below the header is a navigation menu with links: Home, Discovery, Documentation, Network, About, and Login. The main content area is titled 'About' and contains the following text:

About

DEIMS-SDR (Dynamic Ecological Information Management System - Site and dataset registry) is an information management system that allows you to discover long-term ecosystem research sites around the globe, along with the data gathered at those sites and the people and networks associated with them. DEIMS describes a wide range of sites, providing a wealth of information, including each site's location, ecosystems, facilities, parameters measured and research themes. It is also possible to access a growing number of datasets and data products associated with the sites.







All sites and dataset records can be referenced using unique identifiers that are generated by DEIMS-SDR. It is possible to search for sites via keyword, pre-defined filters or a map search.

By including accurate, up to date information in DEIMS, site managers benefit from greater visibility for their LTER site, LTER platform and datasets, which can help attract funding to support site investments.

Aim

The aim of DEIMS-SDR is to be the globally most comprehensive catalogue of environmental research and monitoring facilities, featuring foremost but not exclusively information about all LTER sites on the globe and providing that information to science, politics and the public in general.

DEIMS-SDR received funding from the following projects:



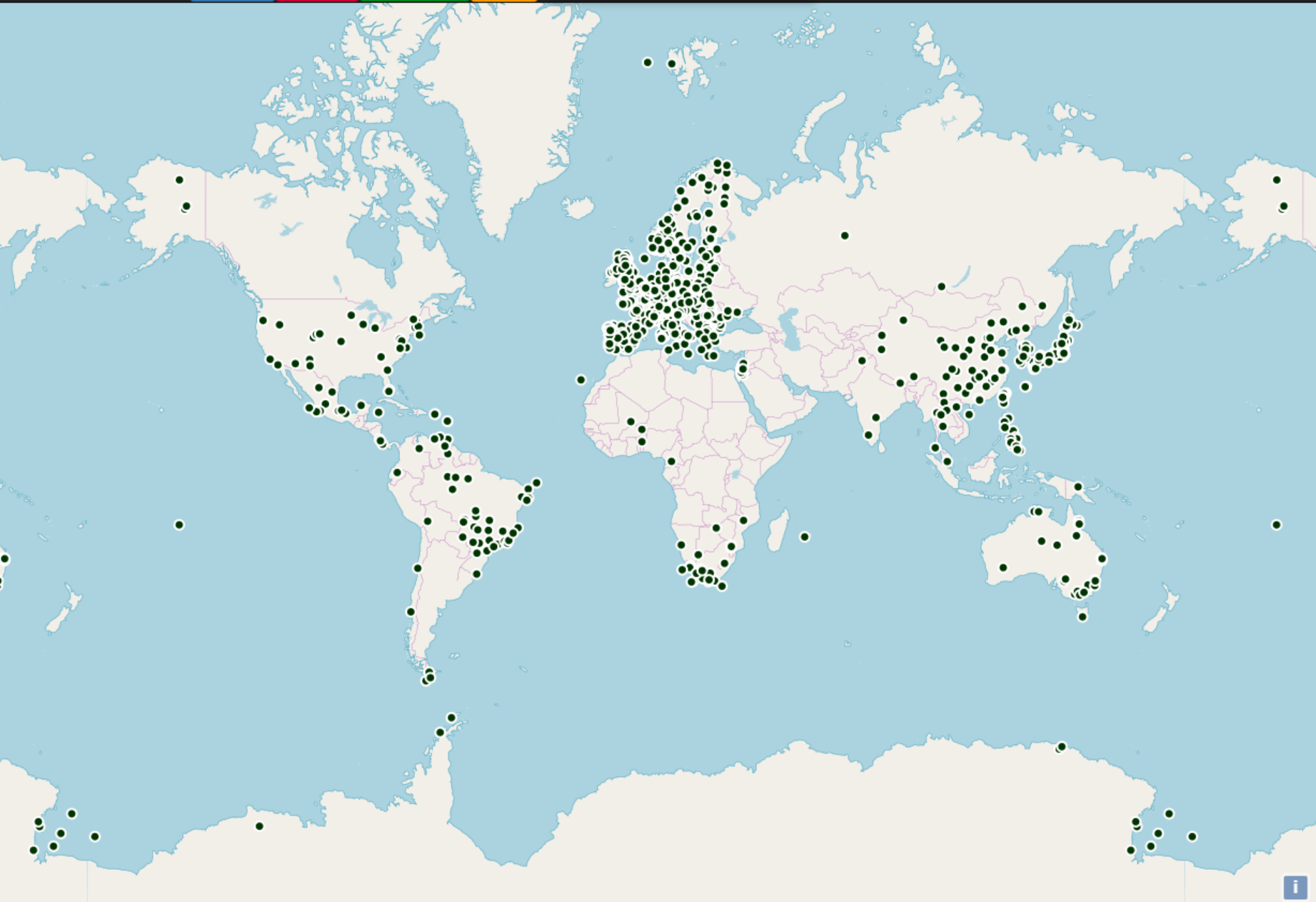
FAQ

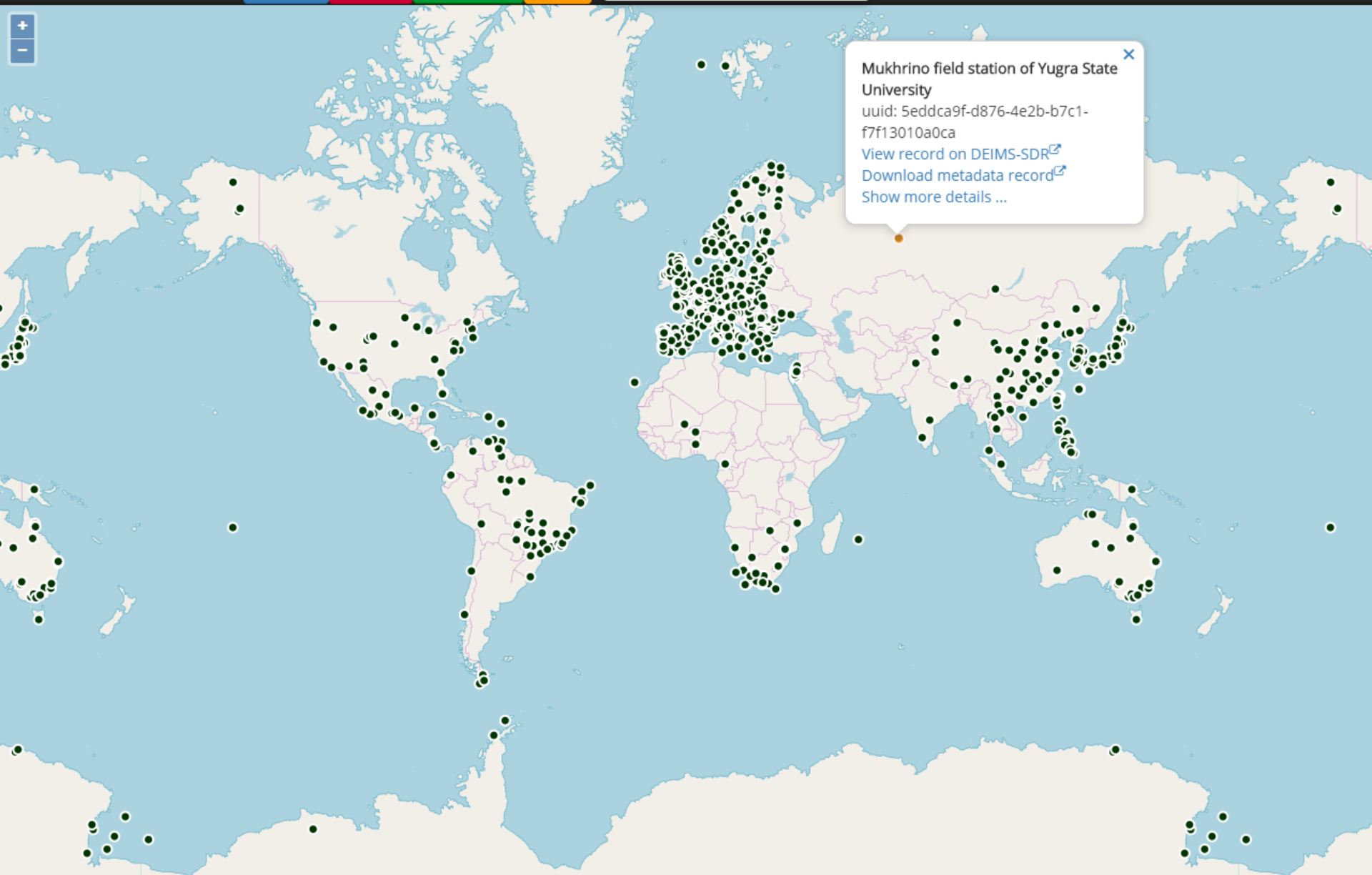
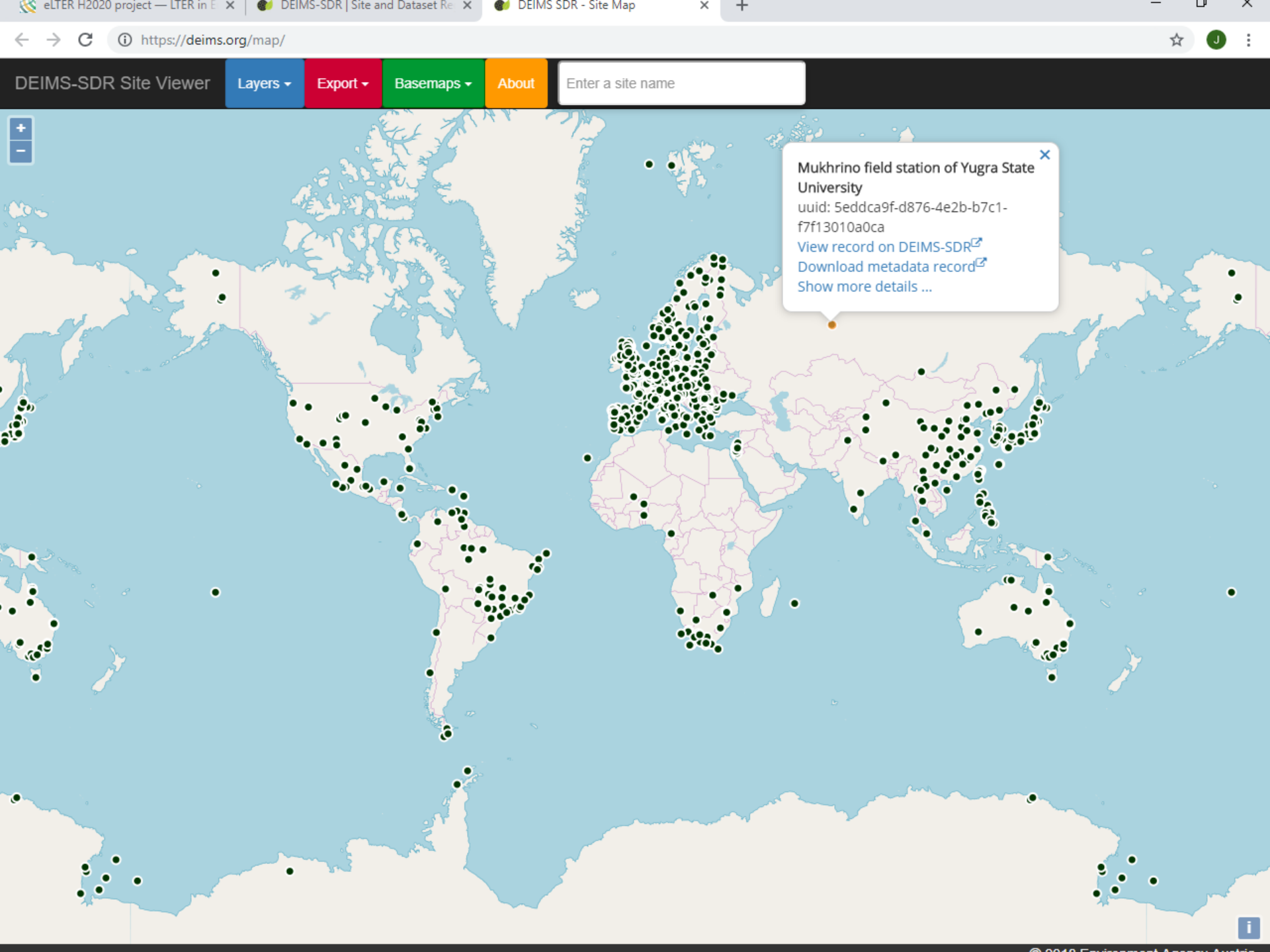
What is DEIMS-SDR?

DEIMS-SDR is a place where you can register your research site, data products/activities and datasets.

This website uses cookies to ensure you get the best experience on our website. [Please refer to our Privacy Statement for details ...](#) [Got it!](#)

Provide Feedback/Report a problem





Mukhrino field station of Yugra State University
uuid: 5eddca9f-d876-4e2b-b7c1-f7f13010a0ca
[View record on DEIMS-SDR](#)
[Download metadata record](#)
[Show more details ...](#)

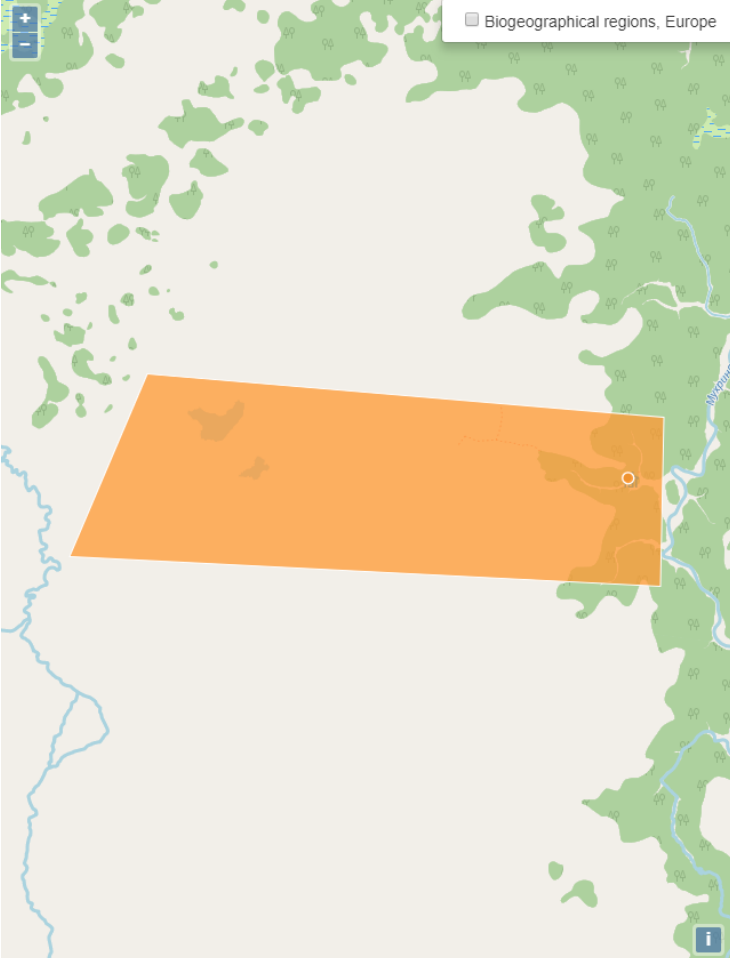
It is required to complete DEIMS

eLTER H2020 project — LTER in E x DEIMS SDR - Site and Dataset Re x DEIMS SDR - Site Map x https://deims.org/node/10667/e x + - □ x

← → ↻ ⓘ https://deims.org/map/ ☆ ⬇ ⋮

DEIMS-SDR Site Viewer Layers Export Basemaps About Enter a site name

☐ Biogeographical regions, Europe ✕ Close



Mukhrino field station of Yugra State University

5eddca9f-d876-4e2b-b7c1-f7f13010a0ca

Description: Mukhrino Field Station is owned and run by the UNESCO Chair on Environmental Dynamics and Climate Change at the Yugra State University, Khanty-Mansiysk, Russia. The Mukhrino Field Station is located at the east bank of the Irtysh River near the confluence with the Ob River in the central taiga area of Western Siberia (60°54' N, 68°42' E), 30 km south-west of the town of Khanty-Mansiysk (60 000 inhabitants). Due to the severe continental climate, the environmental conditions in the region are comparable with the sub-arctic zone of Northern Europe. The research site is representative for the Western Siberian pristine carbon accumulating peatland ecosystem ("plain mires"). The mires cover c. 60 % of the land surface and can be regarded as important sources/sinks of greenhouse gases and aerosols. The main mire type of the site is raised bogs of the type Pine-dwarf shrubs-bogs (Ryam) characterized by pine trees, Ledum palustre and dwarf shrubs, with areas of Sphagnum fuscum. Interspersed are mires of the type Poor fens (partly drained in the summer) dominated by Carex lasiocarpa and other graminoids, and Sphagnum balticum. Also ridge-hollow complexes, consisting of bog ridges and poor fen hollows are present.

media monitored: Terrestrial 🌳

onlineResource(s):
<https://mukhrinostation.com/>
<https://www.ugrasu.ru/education/institutions/rec-environmental-dynamics-and-global-climate-change-the-unesco-chair/polevaya-stantsiya-mukhrino/>
<https://www.flickr.com/photos/mukhrinostation/>
<https://vk.com/mukhinfofs>

ObservingCapabilities: atmospheric parameter; carbon dioxide concentration; methane concentration; air water vapour pressure; air temperature; air humidity; air water vapour concentration; air specific humidity; atmospheric pressure; precipitation intensity; snow depth; snow water equivalence; heat flux; incoming radiation intensity; solar radiation; reflected radiation intensity; ecosystem parameter; ground water level; heat flow; microbial diversity; nitrogen content; percent carbon; plant carbon concentration; community composition; diversity index; species composition; species richness; species abundance; birds abundance; macrofauna abundance; plant cover; soil organic residual; soil microbial diversity; soil heat flux;

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It is required to complete DEIMS

← → ↺ ⓘ <https://deims.org/map/>

DEIMS-SDR Site Viewer

Layers ▾

Export ▾

Basemaps ▾

About

Enter a site name



Biogeographical regions, Europe

Mukhrino field station of Yugra State University

876-4e2b-b7c1-f7f13010a0ca

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red: Terrestrial

ce(s):

ostation.com/

rasu.ru/education/institutions/rec-environmental-dynamics-and-global-climate-esco-chair/polevaya-stantsiya-mukhrino/

kr.com/photos/mukhrinostation/
[mukhrinofs](https://mukhrinofs.com/)

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Contents lists available at ScienceDirect

Forest Ecology and Management

journal homepage: www.elsevier.com/locate/foreco



Ecology and management history drive spatial genetic structure in Scots pine

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^c CREAL (Centre de Recerca Ecològica i Aplicacions Forestals), Campus UAB, Edifici C-5, 08193, Bellaterra (Barcelona), Spain

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Genetic diversity

Forest management


Life stages

ABSTRACT

Forest management practices that remove trees from stands can promote substantial changes in the distribution of genetic diversity within and among populations at multiple spatial scales. In small and isolated populations, elevated inbreeding levels might reduce fitness of subsequent generations and threaten forest resilience in the long term. Comparing fine-scale spatial genetic structure (SGS) between life stages (e.g. adult and juvenile cohorts) can identify when populations have undergone disturbance, even in species with long generation times. Here, we studied the effects of historical and contemporary forest management, characterized by intense felling and natural regeneration respectively, on genetic diversity and fine-scale SGS in adult and juvenile cohorts. We examined fragmented Scots pine (*Pinus sylvestris* L.) stands in the Scottish Highlands, and compared them with a remote, unmanaged stand. A total of 777 trees were genotyped using 12 nuclear microsatellite markers. No difference was identified in allelic richness or gene diversity among stands or life stages, suggesting that historical and contemporary management have not impacted levels of genetic variation. However, management appears to have changed the spatial distribution of genetic variation. Adult genotypes from managed stands were more spa-

eLTER H2020 project — LTER in E x DEIMS-SDR | Site and Dataset Re x +

← → ↻ ⓘ https://deims.org ☆ ⌵ ⋮



DEIMS-SDR

Home Discovery **Documentation** Network About Login

Quick Search

Welcome to DEIMS-SDR

We released a new version of DEIMS-SDR. Among other things it has a new url deims.org. [Read more](#)


DEIMS-SDR (Dynamic Ecological Information Management System - Site and dataset registry) is an information management system that allows you to discover long-term ecosystem research sites around the globe, along with the data gathered at those sites and the people and networks associated with them. DEIMS describes a wide range of sites, providing a wealth of information, including each site's location, ecosystems, facilities, parameters measured and research themes. It is also possible to access a growing number of datasets and data products associated with the sites. [Read more ...](#)

Do you need any help? [Read our tutorials](#)

Is something not working or do you have any change requests? [Provide feedback](#)


Do you want your site or research to be on DEIMS-SDR? [Contact us](#)

Available Resources




Sites

Find out about the international network of ecosystem research, monitoring and experimentation sites.










Datasets

Find out about the available dataset metadata records from the network.



Persons

Latest Updates

-  **Kaminagawa, Yamagata University...**
2018-09-21 15:26
-  **Sapporo Hitsujigaoka Experimental Forest...**
2018-09-21 15:26
-  **Kiso River - Japan**
2018-09-21 15:26
-  **Lake Biwa - Japan**
2018-09-21 15:26
-  **Fukuroyamasawa Experimental Watershed...**
2018-09-21 15:26
-  **Lake Toya - Japan**
2018-09-21 15:26
-  **Field Museum Tamakuryo - Japan**
2018-09-21 15:26

Tweets by @eLTER_Europ

eLTER Retweeted

LTER.Slovenia
@LTER_Slovenia

Inclusion of @eLTER_Europe on the @ESFRI_eu 2018 Roadmap - a significant achievement for European ecosystem, critical zone & socio-ecological research communities! It paves the way for further development & formalization of eLTER RII!

Sep 14, 2018

eLTER Retweeted

NEON
@NEON_sci

Great to come together w other environmental observation networks at @ICRI2018 #ICRI2018 including @TERN_Aus @CERN @Saeonews @ILTER_network @eLTER_Europe & @USLTER to talk #global interoperability & collaboration @NSF

Embed View on Twitter

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DEIMS-SDR Tutorials

Search docs

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Adding or editing dataset information

Working with my content

Editing a network

LTER specific information

The DEIMS.ID

Docs » Welcome to the tutorial section of DEIMS-SDR

[View page source](#)

Welcome to the tutorial section of DEIMS-SDR

Here you will find information on how to use DEIMS-SDR. If you need more information on something or feel like the tutorials are not sufficient, please contact us so we can take care of that.



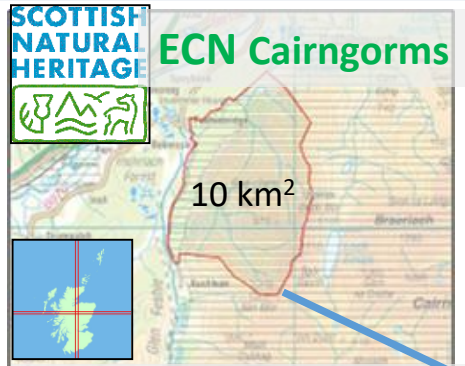
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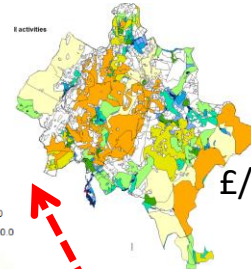
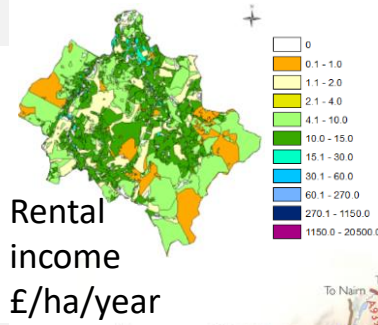
Cairngorms long term social and ecological research platform (LTER & LTSER)

Funding →

Science →

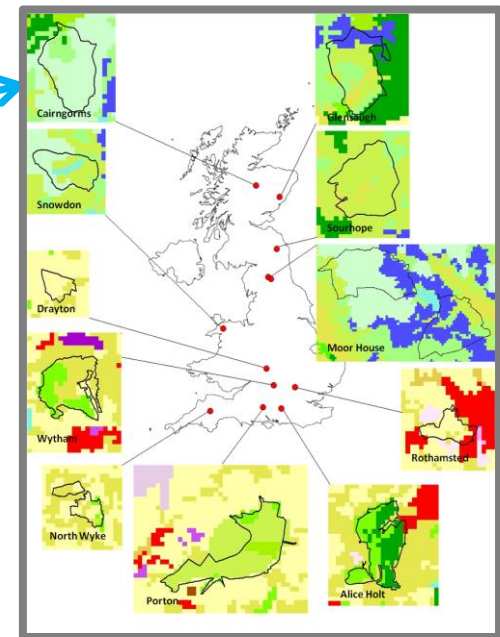


Economic & Social Values

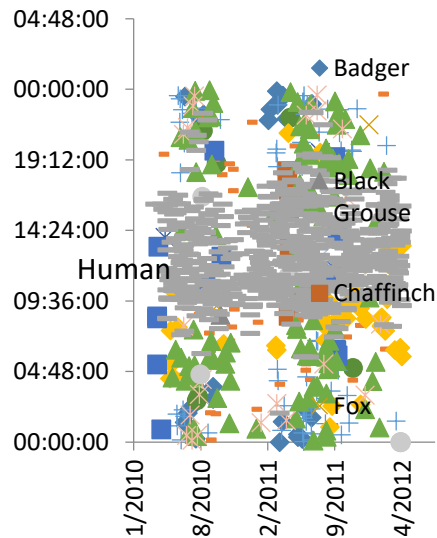


Added value of
recreation
£/Person/ha/year

UK Environmental Change Network

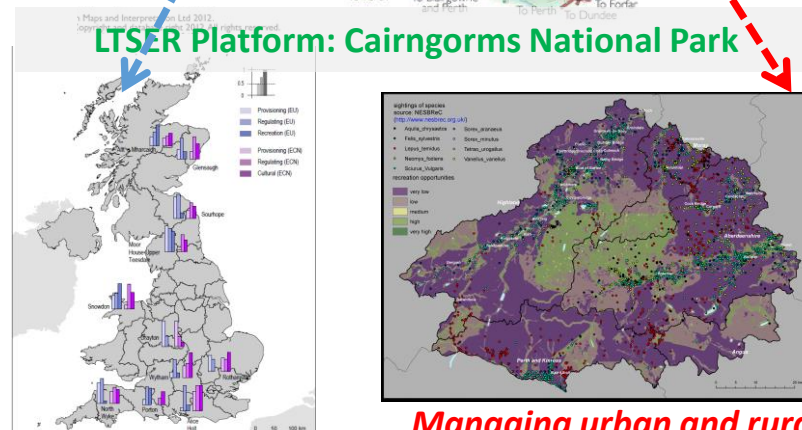


Trade-off between biodiversity & recreation



4,528 km²

LTSER Platform: Cairngorms National Park



Managing urban and rural
access

ES assessment methodology

Keep in touch



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