GBIF seminar Tromsø 2024

GBIF—the Global Biodiversity Information Facility—is an international network and data infrastructure providing open access to data about all types of life on Earth for anyone, anywhere.

The Norwegian GBIF node in cooperation with the Arctic University Museum of Norway would like to welcome you to an open biodiversity data seminar running from lunch to late lunch Thursday 23th to Friday 24th of May in Tromsø at Tromsø Museum. On day one, we will present the GBIF along with interesting use cases demonstrating how this infrastructure can help make your biodiversity research transparent and reproducible.

On day 2 we offer hands-on training with data publishing. This is a fantastic opportunity to work on your data with the assistance of experts. We invite you to bring your own data. It is also possible to practise with dummy data that we can provide for you. No experience is required, as long as you know and understand your own dataset!

We would very much like to hear about your GBIF data use and data publishing experiences. Please contact us if you want to present examples on data use or data publishing helpdesk@gbif.no by 16th of April.

Register at: https://nettskjema.no/a/417095#/page/1

The seminar is free of charge and lunch is included.

Day 1: Thursday 23 May

A seminar put together of a series of lectures that will explain the GBIF infrastructure and what it can do, demonstrate current and potential usage of GBIF mediated data, both from a data publisher and a data consumers perspective.

Abstracts and speaker bios for each talk are available on https://www.gbif.no/

Venue: Tromsø Museum, Lars Thørings vei 10

Online attendance: In person only

Time	Activity	Description
	Session 1	**The Global Biodiversity Information Facility and open biodiversity science** Session chair: n.n
10:30 - 11:00	***Doors open for sign-in, coffee, mingling.***	

11:00 - 11:10	**Welcome** Geir Rudolfsen, Head of Department, The Arctic University Museum of Norway (not confirmed)
11:10 - 11:30	**What is GBIF: The Global Biodiversity Information Facility at a glance** - GBIF, an infrastructure that gives everyone, everywhere, free unrestricted access to information on planet earth's biodiversity. Over 2.6 billion species records, 90 thousand datasets and over 2000 publishing institutions on a global scale. Dag Endresen, University of Oslo, Node manager GBIF Norway.
11.30 - 11:45	**GBIF in the Open Science landscape** - Big biodiversity data, models and techniques are needed to meet the current needs of research and policy. GBIF plays a critical role in shaping the open biodiversity landscape, ultimately contributing to a better understanding and conservation of our planet's biodiversity Anders G. Finstad, Norwegian University of Technology and Science
11.45 - 12:00	**OBIS - marine biodiversity datastreams** - The Ocean Biodiversity Information System (OBIS) is central access point for information on the distribution and abundance of marine life across the globe Andreas Altenburger, The Arctic University Museum of Norway
12:00 - 12:15	**Norway's Species Map Service: How GBIF and NBIC complete each other in the scientific- and management-data nexus** - Norway's Species Map Service ("Artskart") builds on and uses the same set of data standards as GBIF and utilises GBIF to link Norwegian biodiversity data internationally, bridging the gap between scientific and management data streams. Knut Anders Hovstad, Norwegian Biodiversity Information Centre
12:20 - 13:20	**Lunsj**
	Session 2 **Publishing data on GBIF** Session chair: n.n
13:20 - 13:50	**Why publishing biodiversity data** - The why and how you should publish your biodiversity-data on GBIF. What's in it for you and your institution? Teaser: this is an established and easy way for you to get your biodiversity data out according to FAIR principles. Michal Torma, University of Oslo
13:50 - 14:05	**How to use GBIF for publishing data?** - General introduction to how biodiversity-data sharing using the international data standard Darwin Core (DwC) and the GBIF infrastructure works Vidar Bakken, University of Oslo
14:05 - 14:25	**GBIF Hosted portals - customizable multilingual biodiversity information platforms** - Living Norway Ecological data Network; a platform to facilitate data collections and much more
14:25 - 14:45	***Coffee break***
	Session 3 **GBIF data usage and quantitative data synthesis** Session chair: n.n.
14:20 - 14:40	**Why should you use GBIF data?** - How to filter, access, download and cite GBIF data. Emphasis data citation tools as a

	crucial element in a reproducible and transparent scientific workflow. Michal Torma, University of Oslo
14:40 - 14:55	**How to make reproducible workflows in biodiversity data synthesis using GBIF data?** - How to utilise the GBIF ecosystem of machine-to-machine communication and data citation mechanisms through familiar implementations in e.g. the R language in order to increase the quality of your science by making your data synthesis transparent and reproducible Beatrice Maria Trascau, Department of Natural History, NTNU University Museum
14:55 - 15:15	**The Nansen Legacy: a multidisciplinary project to explore the Living Barents Sea** Philipp Assmy, Norwegian Polar Institute
15:15-16:00	**T.b.a.**
	Evening | **Dinner at Suvi (suvitromso.no) Grønnegata 48**
18:00 - TBD	All attendees are invited to join the GBIF node crew for dinner and refreshments.

Day 2: Friday 24 May

Format: Data publishing workshop. To fully participate in hands-on portions of the workshops, it would be useful to bring a computer.

Is my data right for this? In general, data that includes a list of species should be published as Darwin Core Archives. Measurements or facts associated with these species can also be included, including community measurements and data from experiments. If you are not sure whether your data are suitable to publish as a Darwin Core Archive, or if you have any other questions, please contact helpdesk@gbif.no.

You will work with the assistance of experts from GBIF and learn by doing, and from any challenges other people in the group encounter:

- Convert your data to Darwin Core Archive.
- Map parameter names to Darwin Core terms
- Restructuring of data where necessary
- Using GBIF's Integrated Publishing Toolkit (IPT): https://www.gbif.org/ipt

Venue: Tromsø Museum, Lars Thørings vei 10

Online attendance: Only in-person attendance is possible.

Time	Activity	Description

	Workshop Session 1	Accessing, handling, and referencing open biodiversity data using the Global Biodiversity Information Facility (GBIF)
09:00 - 9:30	**Introduction to Darwin Core**	
9:15 - 9:30	**Round with participants presenting their datasets**	
9:30 - 12:00	**Work on standardization of data**	
12:00 - 13:00	***Lunch***	
13:00 - 13:30	**Introduction to IPT**	
13:30 - 15:00	**Publishing individual datasets to (test) IPT**	