# Open Polar: a discovery service covering the global output of openly accessible polar research data and publications

Tamer Abu-Alam, Per Pippin Aspaas, Leif Longva, Karl Magnus Nilsen, Obiajulu Odu

The University Library, UiT The Arctic University of Norway, Postboks 6050 Langnes, 9037 TROMSØ

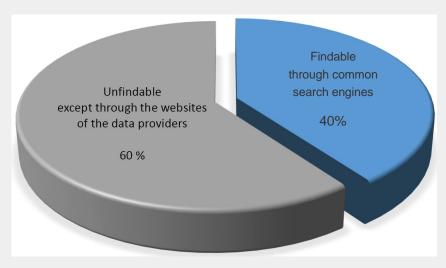


#### **Abstract**

- Data from the Polar Regions are of critical importance to modern polar research.
- Researchers rely heavily on the comparison of existing data with new data sets to assess changes that are taking effect.
- In a recent survey, we found that an estimated 60% of the existing polar research data is unfindable through common search engines and can only be accessed through institutional webpages.
- This results in an awareness of the need of the scientific community to harvest different metadata related to the Polar Regions and collect these in a homogenous, seamless database and making this database available to researchers, students and the public through one search platform.
- This contribution describes the progress in an ongoing project, Open Polar (https://site.uit.no/open-polar/) started in 2019 at UiT The Arctic University of Norway.
- The suggested service will include three parts: 1) harvesting metadata; 2) enriching and filtrating of the harvested metadata relevant to Polar Regions; and 3) making the collected records available and searchable to the end-users through an interactive user interface.
- The service will help to make the polar related research data and documents more visible and searchable to the end-users and thereby reducing the findability gap.



# 60% findability gap



There is a 60% findability gap of the polar records. When it comes to social science, indigenous knowledge, and education, 3 records out of 18 can be found through common search engines (84% findability gap) (e.g. Johnson et al., 2019).

This findability gap raises an awareness sign of the need of the scientific community to create a homogeneous, seamless database of the open-access records about the polar regions and making this database available to researchers, students and the wider public through one search Platform (**Open Polar**).

**#MUNIN2020** 

## **Open Polar**: Progress and added values

- Open Polar will include both open-access publications and research data from both Arctic and Antarctic (a filtration algorithm was written and tested)
- Open Polar will harvest data from all (most) open-access repositories which include polar-related data/publications. (Still in progress) -- At the current status, the Open Polar has 1,500,000 records
- Open Polar uses an interactive user interface. (The user interface was setup, and the beta-version can be tested at: <a href="https://james.ub.uit.no/vufind/">https://james.ub.uit.no/vufind/</a>)
- Open Polar will add a value to the records by searching for the geographic location of each record.
   (an extensive geographic location database, that includes more than 270,000 locations, was compiled. An algorithm to search and set the locations to the records was tested successfully)
- End-users will be able to search the database using a map search tool using maps with polar stereographic
  projection (The Arctic map was setup and functions well. The Open Polar team is still working with
  the Antarctic map)
- Open Polar will rely on continuous recommendations from a reference board. The reference board will help ensure that the service meets the needs of the scientific community.
   (The reference board was established)

  #MUNIN2020

## Organization and feedback



Beta version of Open Polar can be tested at: <a href="https://james.ub.uit.no/vufind/">https://james.ub.uit.no/vufind/</a> The beta version will be transferred to the official domains of Open Polar at: OpenPolar.no, OpenPolar.info, OpenPolar.net, OpenPolar.org

The team of Open Polar appreciates your feedback and suggestions for cooperation -- <a href="mailto:tamer.abu-alam@uit.no">tamer.abu-alam@uit.no</a>

Open Polar is a joint project between





