## What is your affiliation?

| V2 |
|---|
| AMAP Secretariat |
| Alaska Native Tribal Health Consortium |
| Alaska Ocean Observing System |
| Aleut Community of St. Paul Island/ Aleut International Association |
| Alfred Wegener Institute, Germany |
| British Antarctic Survey |
| CNR-ISP |
| CNR-ISP |
| Centre National de la Recherche Scientifique |
| Department of Biology University of Padua |
| Environment and Climate Change Canada |
| GFZ German Research Centre for Geosciences |
| GRID Arendal |
| International Council for the Exploration of the Sea (ICES) |
| Lund University, Sweden |
| NCPOR, Goa |
| NILU - Norwegian Institute for Air Research |
| NOAA, GOMO/ARP |
| National Centre for Polar and Ocean Research |
| National Centre for Polar and Ocean Research (NCPOR) |
| National Institute of Polar Research |
| National Oceanic and Atmspheric Administration NOAA, U.S. |
| Natural History Musuem, Spanish Research Council |
| Norwegian Polar Institute |
| Polar Knowledge Canada, Canada |
| The ARM Data Center, Oak Ridge National Laboratory |
| The Aerospace Information Research Institute (AIR) , the Chinese Academy of Sciences (CAS) |
| The Geological Survey of Denmark and Greenland |
| University of Alaska Anchorage |
| University of Groningen, Arctic Centre, The Netherlands |
| University of Helsinki |
| University of Leeds |
| World Meteorological Organization |
| World meteorological Organization |

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## What is your working relationship with observation data in your organisation?

**The FREQ Procedure**

| DuVa5 | Frequency |
|---|---|
| Managing observation data | 23 |
| Producing observation data | 24 |
| Using/consuming observation data | 24 |

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## Where are you located (continent)?

**The FREQ Procedure**

| V4 | |
|---|---|
| V4 | Frequency |
| Asia | 5 |
| Europe | 20 |
| North America | 10 |

## Are you or your institution engaged in one or more of the following international activities/organisations?

The FREQ Procedure

| DuVa6 | Frequency |
|---|---|
| Arctic Council (or one of its subsidiaries, i.e. Expert or Working Groups | 35 |
| EU-PolarNet | 9 |
| European Polar Board | 9 |
| Other EU-funded programmes, like Arctic PASSION, INTERACT or other EU Polar Cluster members | 20 |
| Scientific Committee on Antarctic Research (SCAR) / SCAR Standing Committee on Antarctic Data Manage | 15 |
| Southern Ocean Observing System (SOOS) | 11 |
| Sustaining Arctic Observing Networks (SAON) (or one of its Committees: ADC or CON) | 23 |

## Is the interest/scope of your work?

The FREQ Procedure

| V6 | |
|---|---|
| V6 | Frequency |
| Antarctic | 1 |
| Arctic | 15 |
| Polar | 19 |

## Within your institution: Do you compile and organise information about observing assets in polar regions?

The FREQ Procedure

| V7 | |
|---|---|
| V7 | Frequency |
| No | 5 |
| Yes | 30 |

## If yes, what kind of observing assets does your institution organise information about?

The FREQ Procedure

| DuVa14 | Frequency |
|---|---|
| Networks | 20 |
| Observatories | 22 |
| Observing systems | 19 |
| Programs | 21 |
| Projects | 21 |

| | |
|---|---|
| Sites | 23 |
| Stations | 23 |
| Transects | 13 |

## If yes, what is the technical framework or structure that your institution use for the organisation of this information?

The FREQ Procedure

| DuVa22 | Frequency |
|---|---|
| Catalogues, databases or online portals | 24 |
| Simple information structures (spreadsheet, text files) | 14 |

## If your answer above included "Catalogues, databases or online portals", which?

| V10 |
|---|
| AMAP Project Directory: http://projects.amap.no/directory/amap; Study of Environmental Arctic Change (SEARCH): http://projects.amap.no/directory/search; ENVINET Activities Catalog: http://projects.amap.no/directory/envinet/ |
| All |
| All of these |
| Arctic Observing Viewer (AOV); Arctic Research Mapping Application (ARMAP) |
| Data Catalogues and Online Portals |
| Database and online portal |
| Fluxnet, Pangaea, GFZ Data Services |
| Global Cryosphere Watch Data Portal |
| ICOS carbon portal, GTN-P |
| Indigenous Sentinels Network, BeringWatch Database |
| Information are available in Institute website |
| Local Environmental Observer (LEO) Network |
| No polar dedicated database or catalogue |
| PANGAEA |
| SAON, NRDD, Arctic Data Portal, NCEI |
| We have a variety of all three: see https://www.bas.ac.uk/data/our-data/ |
| Yes for polar datasets |
| both - online and catelogues |
| databases |
| http://ebas.nilu.no |
| https://oscar.wmo.int/surface |
| https://www.ices.dk/data/dataset-collections/Pages/default.aspx |
| promice.org, http://www.greenmin.gl/ |

## If your answer above included "Catalogues, databases or online portals", do they have an Application Programming Interface (API) or other machine-readable endpoint for access (such as OGC CSW, OAI-PMH, or a web accessible folder)?

The FREQ Procedure

| V11 | |
|---|---|
| V11 | Frequency |
| Don't know | 7 |
| No | 3 |

| | |
|---|---|
| Yes | 14 |
| Frequency Missing = 11 | |

## Is the information stored in this/these system(s) accessible for people outside your institution

The FREQ Procedure

| V12 | |
|---|---|
| V12 | Frequency |
| Openly | 24 |
| There are restrictions on access | 6 |
| Frequency Missing = 5 | |

## If restrictions on the access apply, please specify

| V13 |
|---|
| As open as we can without having a general structure |
| Information not yet accessible to people outside |
| Most open, but can be restrictions due to embargoes etc. |
| Note: I did not select restrictions above, but they are currently in development and not available, yet. |
| Part of the data can be accessible upon request |
| Registration |
| Some data sets require contacting the PI to assess possibilities for collaboration |
| must partner with or contact our org for data permissions |
| some data are not part of an open licence |

## If restrictions on the access apply, is your institution currently considering or already implementing developments that will relax the restrictions?

| V14 |
|---|
| No |
| Not applicable |
| Not yet |
| We aim for data to be as open as possible |
| unclear |
| we are revising out open access policy, our restricted data licences and always endeavour to make as much data openly accessible as possible but we are also bound by the data providers to respect their wishes on the use of these data i.e. economic data may be restricted |
| yes |

## If your institution does not already organise or make the information available, would your institution have the capacity and be interested in making this information available to externals?

The FREQ Procedure

| V15 | |
|---|---|
| V15 | Frequency |
| No | 2 |
| Yes | 16 |
| Frequency Missing = 17 | |

## If you answered 'No' to the first question in this section, what could motivate you or your institution?

| V16 |
|---|
| Capacity to do so. |

## If you answered 'Yes' to the first question in this section, how would you or your institution technically want to make the information available?

The FREQ Procedure

| DuVa25 | Frequency |
|---|---|
| Enter the information into an external system through a web entry interface | 10 |
| Organise the information in structured files (spreadsheet, .csv-files), following an agreed format and make it available to externals | 7 |
| Through an existing technical framework or structure within your institution and expect this to make it available to externals | 16 |

## Would you be willing to update the information provided regularly, say on a yearly basis?

The FREQ Procedure

| V18 | |
|---|---|
| V18 | Frequency |
| Maybe | 7 |
| Yes | 18 |
| Frequency Missing = 10 | |

## Please feel free to provide any additional information that you believe is important in this context. This could be, for example, links to databases available online that you would like to point us to or any other feedback that you would like to provide, etc.

| V19 |
|---|
| AOOS Website with access to data portal: https://aoos.org/ Research ASSETS Map (though might not be current for 2021): https://portal.aoos.org/old/#module-metadata/bf53e8c9-eb91-4b44-839c-16d28a6b6a67/3f3b0c7b-8577-4953-8aaa-818df34883fc Data Catalogue: https://portal.aoos.org/#search?type_group=all |
| DueSouth (https://duesouth.europeanpolarboard.org/expedition/) captures information on future expeditions for the Southern Ocean, could this be extended for all polar regions? |
| HiMAC Data Category (http://115.29.142.79/) |
| I answered the questions based on the data we collect, Indigenous data need special considerations about how "easily" they are made available and some organizations may not have the capacity or skills to organize and maintain csv files following standard formatting on a regular basis |
| Metada are openly available in the Spanish National Center of Polar Data |
| National polar data centre of NCPOR https:/npdc.ncaor.gov.in |
| The ARM Data Center process, archive, and distribute the data using FAIR data principles (CoreTrust Seal certified), the data are available via data discovery portal as well as web service. ARM Data Center provides robust metadata in community developed standards for broader metadata sharing. |
| There are several databases and agreements on storing data. We have no capacity to do it more. |
| WMO is discussing with its members a Unified Data Policy to provide a mechanism for free international data exchange for Earth system data |
| We do have a clear picture on our observing assets, yet not available in an open database. What we do not have is a polar version of this information. Although we are interested in making the information openly available we currently do not have the resources. |
| We have our own open data portal, as well as access via obrs.ca, and submit YOPP data to the WMO YOPP portal as well (managed by MetNorway) |
| at the moment we aim to use Antarctic (www.pnra.aq) ansd Arctic (under development) portals to provide catalogues and tools to distribute information openly and give the possibility to regularly update and adjour them. These information will complement information accessible through data centers (NADC for Antarctica and IADC for the Arctic) on pojects and datasets released |

| |
|---|
| https://psl.noaa.gov/iasoa/dataataglance (not currently maintained but may be in the future) |
| https://www.ocean-ops.org/board for Arctic ocean observations |
| www.leonetwork.org Must be member (free) to have access to all content. |
| yes, npdc.ncpor.res.in |