



IBSCO 2 released:

International Bathymetric Chart of the Southern Ocean Version 2

- New marine data services online: Marine reflection seismics
- SCAGI Gazeteer and more



International Bathymetric Chart of the Southern Ocean Version 2 (IBSCO 2)



- IBCSO is the authoritative map of the Southern Ocean with the largest database of depth measurements. With billions of soundings contributed by organisations across the globe, it portrays the Southern Ocean seafloor in so-far unprecedented detail
- IBCSO is a regional mapping project of the General Bathymetric Chart of the Ocean (GEBCO) supported by the Nippon Foundation – GEBCO Seabed 2030 Project
- GEBCO is a project under the auspices of the International Hydrographic Organization (IHO) and the Intergovernmental Oceanographic Commission (IOC) with the goal to produce the authoritative map of the world's oceans
- The IBCSO Project is also an integral part of the Antarctic research community and an expert group of the Scientific Committee on Antarctic Research (SCAR). For further information see http://www.ibcso.org

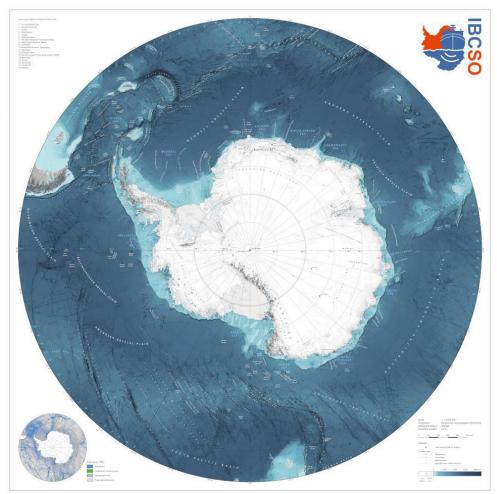


IBSCO version 2



Poster version with detailed information

https://ibcso.org/ibsco-v2/



INTERNATIONAL BATHYMETRIC CHART OF THE SOUTHERN OCEAN (IBCSO)















International Bathymetric Chart of the Southern Ocean Version 2 (IBSCO 2)

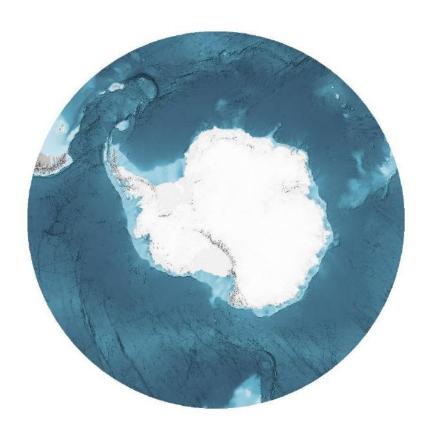


- The IBCSO v2 is a digital bathymetric model (DBM) for the area south of 50° S with special emphasis on the bathymetry of the Southern Ocean
- IBCSO v2 has a resolution of 500 m × 500 m in a Polar Stereographic projection (EPSG: 9354)
- Pooling data from 22 countries
- 25.5 billion soundings, 6 times as many as for IBCSO v1
- The total data coverage of the seafloor is 23.79% with a multibeamonly data coverage of 22.32%. The remaining 1.47% include singlebeam and other data

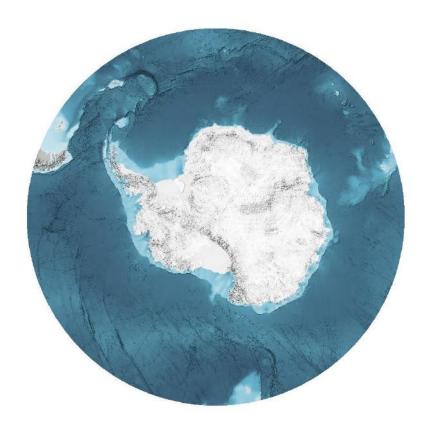


IBSCO version 2





IBSCO 2 ice surface



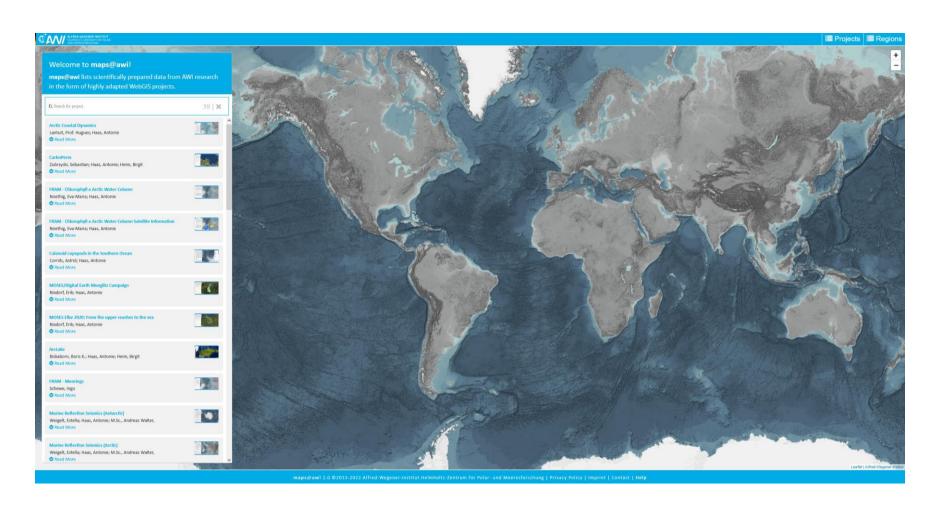
IBSCO 2 bedrock

map and more doi: 10.1594/PANGAEA.937574 nature scientific data publication doi: 10.1038/s41597-022-01366-7



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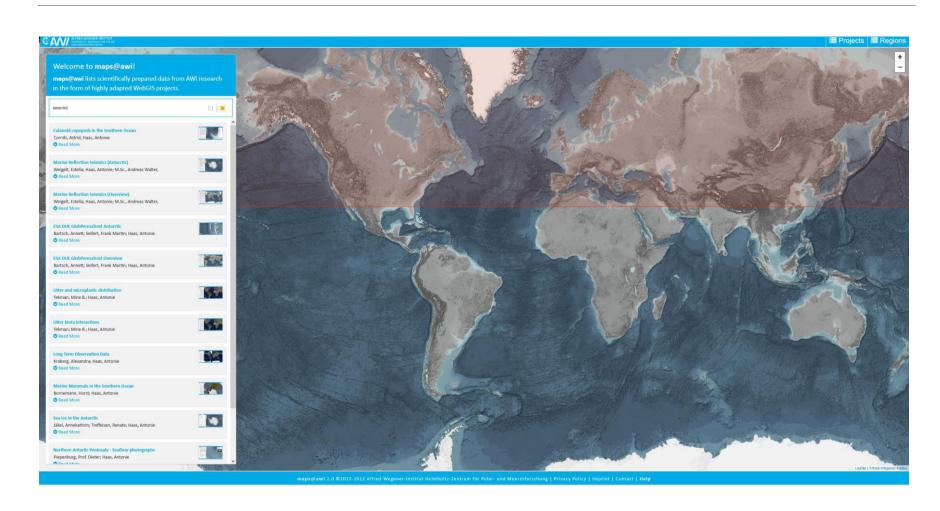


maps is an entree page listing scientifically curated data projects /projects data



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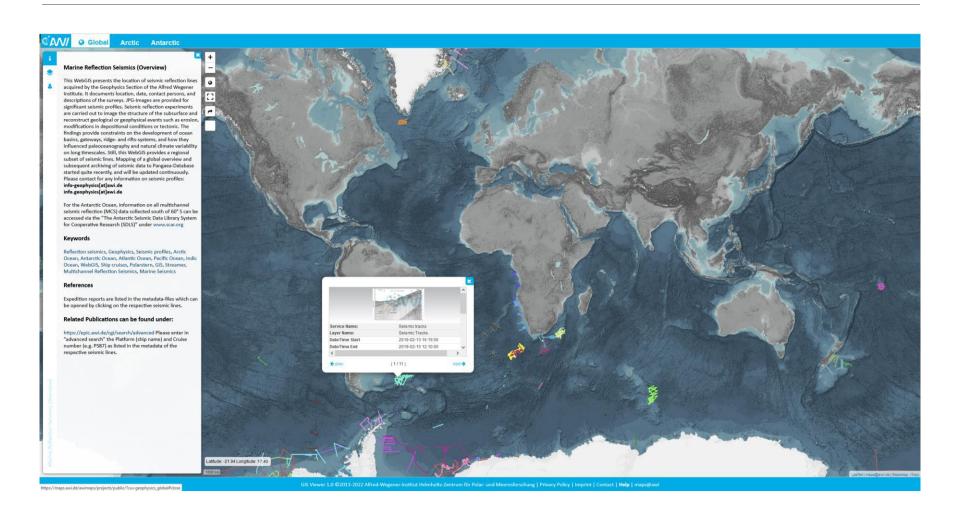
Filtering by keywords lists the resulting pojects

copepods, permafrost, litter and microplastics distribution, litter biota interaction, long term observation, marine mammals, sea ice, seafloor photography...



NEW: Global Marine Reflection Seismics



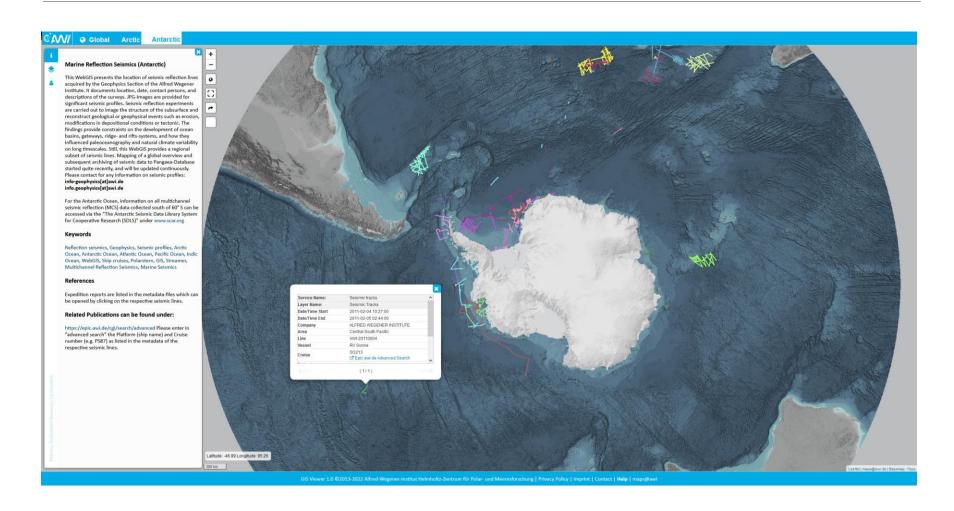


Beside descriptive information all project data is visualized in spatial context



NEW: Antarctic Marine Reflection Seismics





PopUp windows provide descriptive metadata and more information like data access and so on



SCAGI gazetteer and more



- Validation of gazetteer features ongoing done :
 - o Jörn Siemers a former member of the "Ständige Ausschuss für geographische Namen (StAGN)*" reviewed the already given feature names by end of 2020. The edited list was send to J. Muller
 - o Prof. Andreas Läufer (BGR) is the new person of contact for the StAGN to aprove new Antartic feature names
- Increase visibility of national SCAR activities due to publishing online project descriptions
- New Antarctic permafrost data in 2023/24



