

# SOOS- A platform for Southern Ocean research

CHALLENGER SOCIETY 2016 CONFERENCE  
LIVERPOOL

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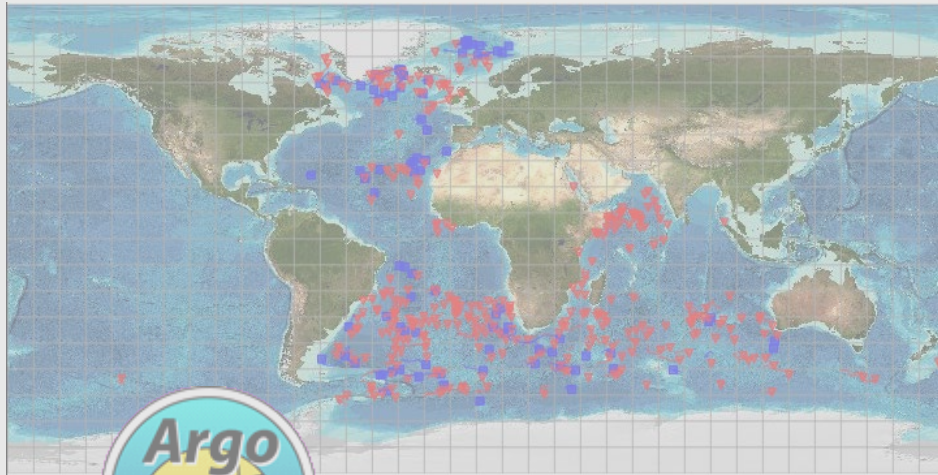
**National  
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NATURAL ENVIRONMENT RESEARCH COUNCIL

[noc.ac.uk](http://noc.ac.uk)

**NERC** SCIENCE OF THE  
ENVIRONMENT



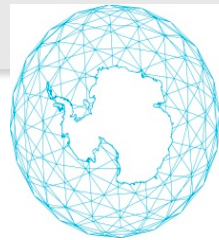
# BODC- International Initiatives



<http://www.ukargo.net/>



<http://www.seadatanet.org/>



# SOOS

SOUTHERN OCEAN OBSERVING SYSTEM

<http://www.soos.aq/>



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# What is SOOS?

- SCAR and SCOR's International Initiative (setup in 2011)
  - ✓ Facilitate the design and implementation of a comprehensive and multi-disciplinary observing system for the Southern Ocean.
  - ✓ Advocate and guide the development of new observation technologies
  - ✓ Compile and encourage use of existing international standards and methodologies, and facilitate the development of new standards where required
  - ✓ Unify and enhance current observation efforts and leverage further resources across disciplines, and between nations and programs
  - ✓ Facilitate linking of sustained long-term observations to provide a system of enhanced data discovery and delivery, utilising existing data centres and programmatic efforts combined with, as needed, purpose-built data management and storage systems
  - ✓ Provide services to communicate, coordinate, advocate and facilitate SOOS objectives and activities

# SOOS- Data Management Sub-Committee

- ✓ Advise the SOOS Scientific Steering Committee (SSC) and the SOOS International Project Office (IPO) on the data management requirements for the SOOS initiative.
- ✓ In collaboration with SOOS stakeholders, develop a practical, sustainable and cost-effective strategy for the long-term management and timely publication of SOOS observations.
- ✓ Encourage SOOS partners and others to store relevant data in publicly-accessible data repositories and make their metadata records accessible through the SOOS metadata portal.
- ✓ Act on requests and suggestions by the SOOS SSC and SOOS scientific community for new developments in data management products and strategies.
- ✓ Explore opportunities to secure funding for SOOS related data management and data publication initiatives



# DMSC members



# Metadata portal

The screenshot displays the SOOS (Southern Ocean Observing System) metadata portal. At the top, the SOOS logo and name are visible, along with navigation links for HOME, SOOS WEBSITE, and SUBMIT METADATA. Below this, there are tabs for Data Sets, Services / Tools, and Ancillary Descriptions. The main content area is titled "Selected Search Refinements" and is divided into two columns: "Refine" and "Results".

**Refine Column:**

- by Freetext:** Includes a search input field, "Refine" and "Clear" buttons, and a link to "View Full Explanation".
- by Category:** Includes a dropdown menu with a plus sign.
- by Spatial Search:** Includes an "Apply" button, a "Clear" button, and a map interface with "Map" and "Satellite" buttons, zoom controls, and a "Google" logo.
- by Temporal Search:** Includes a dropdown menu with a plus sign.

**Results Column:**

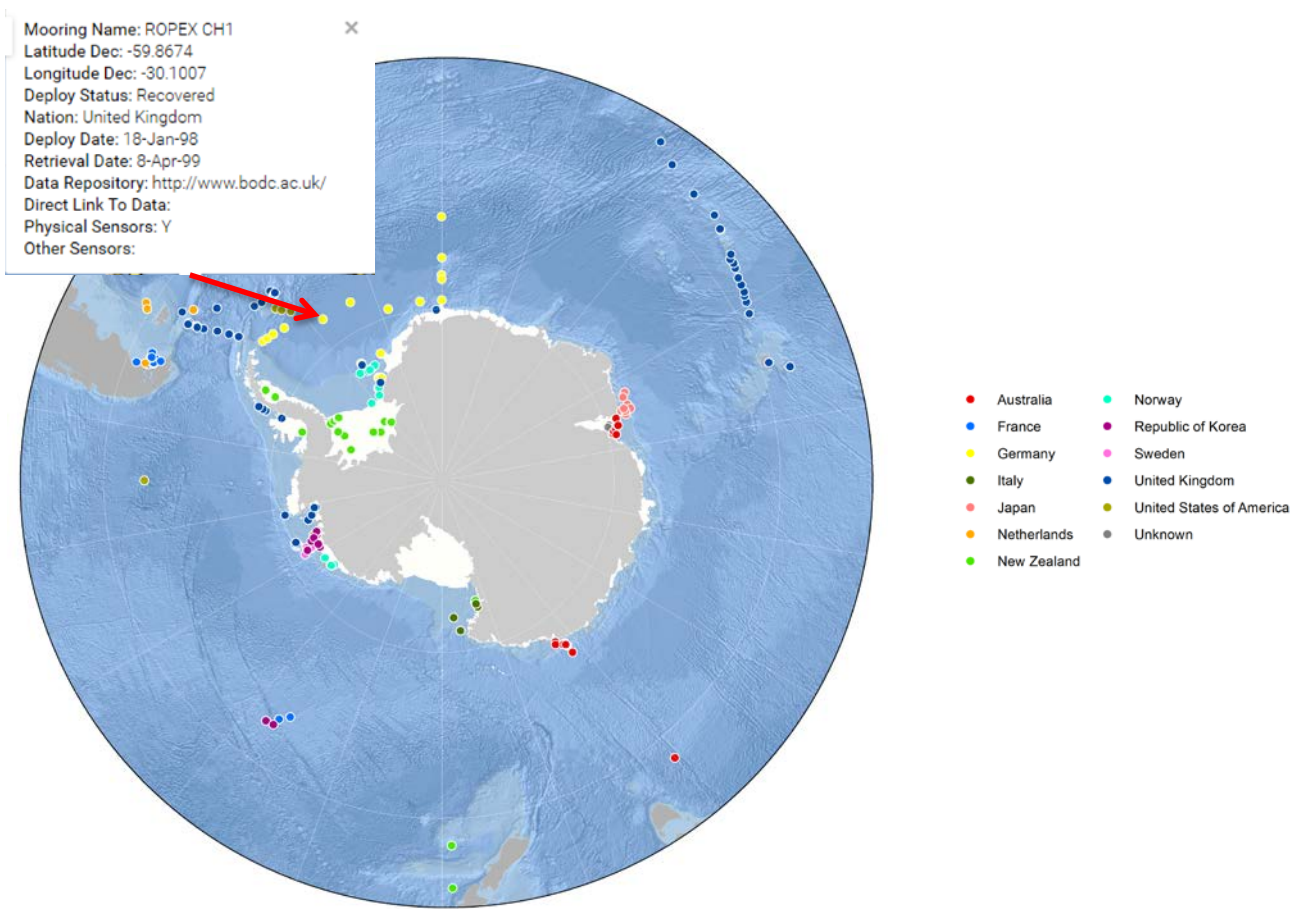
- Shows "Showing 1 - 50 of 4234" results.
- Lists search results with their titles and descriptions, such as "AIRSAR ALONGTRACK INTERFEROMETRY JPG", "ALOS PALSAR KMZ", "ALOS PALSAR LEVEL 1.0", "ALOS PALSAR LEVEL 1.1", "ALOS PALSAR LEVEL 1.5", "PALSAR Radiometric Terrain Corrected high\_res", "PALSAR Radiometric Terrain Corrected low\_res", "ERS-1 Standard Beam Level 0 Frame", and "ERS-1 LEVEL 1".

At the bottom left of the results area, there is a link: "Click [here](#) for a static view of records."

<http://gcmd.nasa.gov/portals/soos/>



# Mooring sites



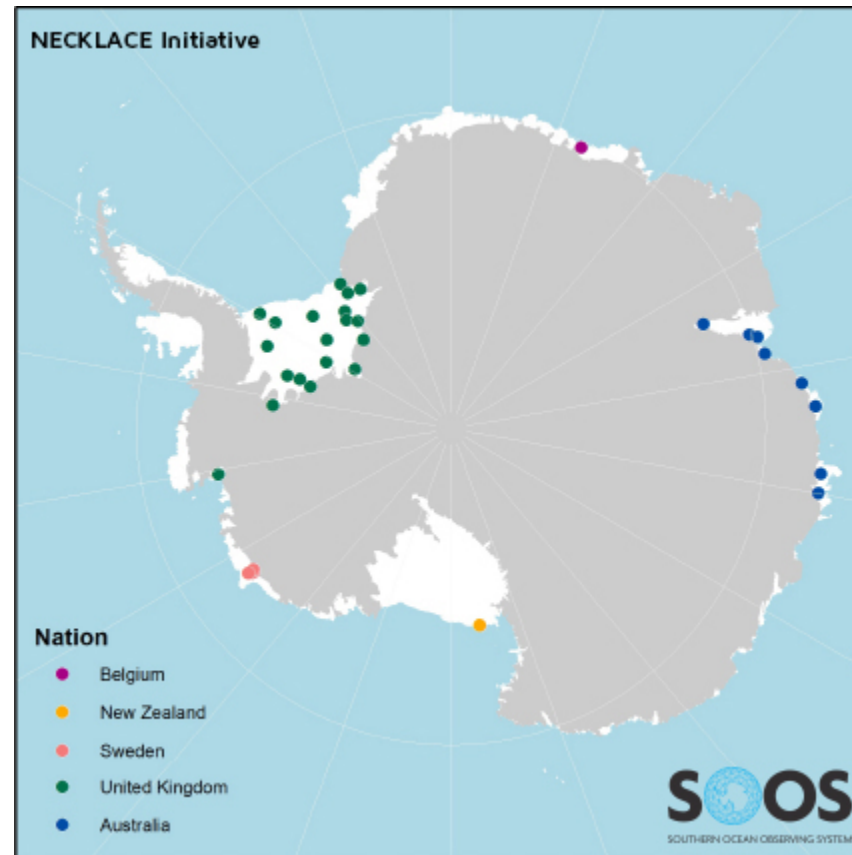
<http://www.soos.aq/activities/soos-at-sea/moorings>





# NECKLACE

(Network for the Collection of Knowledge on meLT of Antarctic iCe shElves)



<http://www.soos.aq/activities/soos-at-sea/necklace>



# Field Activities

## Cruise Creator

1. Click (hold) and drag the map to position it
2. Use the Plus (+) and Minus (-) buttons to zoom.
3. Use the (↵) button to draw a line.
4. Use the (✎) button to edit the line.
5. Use the (🗑️) button to remove the line.
6. Click the **Do Search** button.

### Ship Name

### Chief Scientist

### Contact Email

### Start Date

### End Date

### Geojson Output:

```
"properties": {},  
"geometry": {  
  "type": "LineString",  
  "coordinates": [  
    [  
      147.3984375,  
      -43.5166889  
    ]  
  ]  
}
```

