

# SOOSmap brings circumpolar Southern Ocean data to a computer near you



Pip Bricher<sup>1</sup>, Antonio Novellino<sup>2</sup>, Patrick Gorringer<sup>3</sup>, Marco Alba<sup>2</sup>, Jie Zhang<sup>4</sup>, and Roger Proctor<sup>5</sup>

<sup>1</sup>Southern Ocean Observing System, University of Tasmania, Private Bag 110, Sandy Bay, Tasmania, 7001 Australia, email: data@soos.aq;  
<sup>2</sup>EMODnet-Physics, Genova, Italy; <sup>3</sup>EuroGOOS Office, Brussels, Belgium; <sup>4</sup>Polar Research Institute of China, China; <sup>5</sup>IMOS/AODN, Australia

The Southern Ocean Observing System (SOOS) is an international initiative with the mission to facilitate the collection and delivery of essential observations on dynamics and change of Southern Ocean systems to all international stakeholders (researchers, governments, industries), through design, advocacy and implementation of cost-effective observing and data delivery systems. As part of this, SOOS has a mandate to provide tools to make it easier to share and discover existing data from the Southern Ocean.

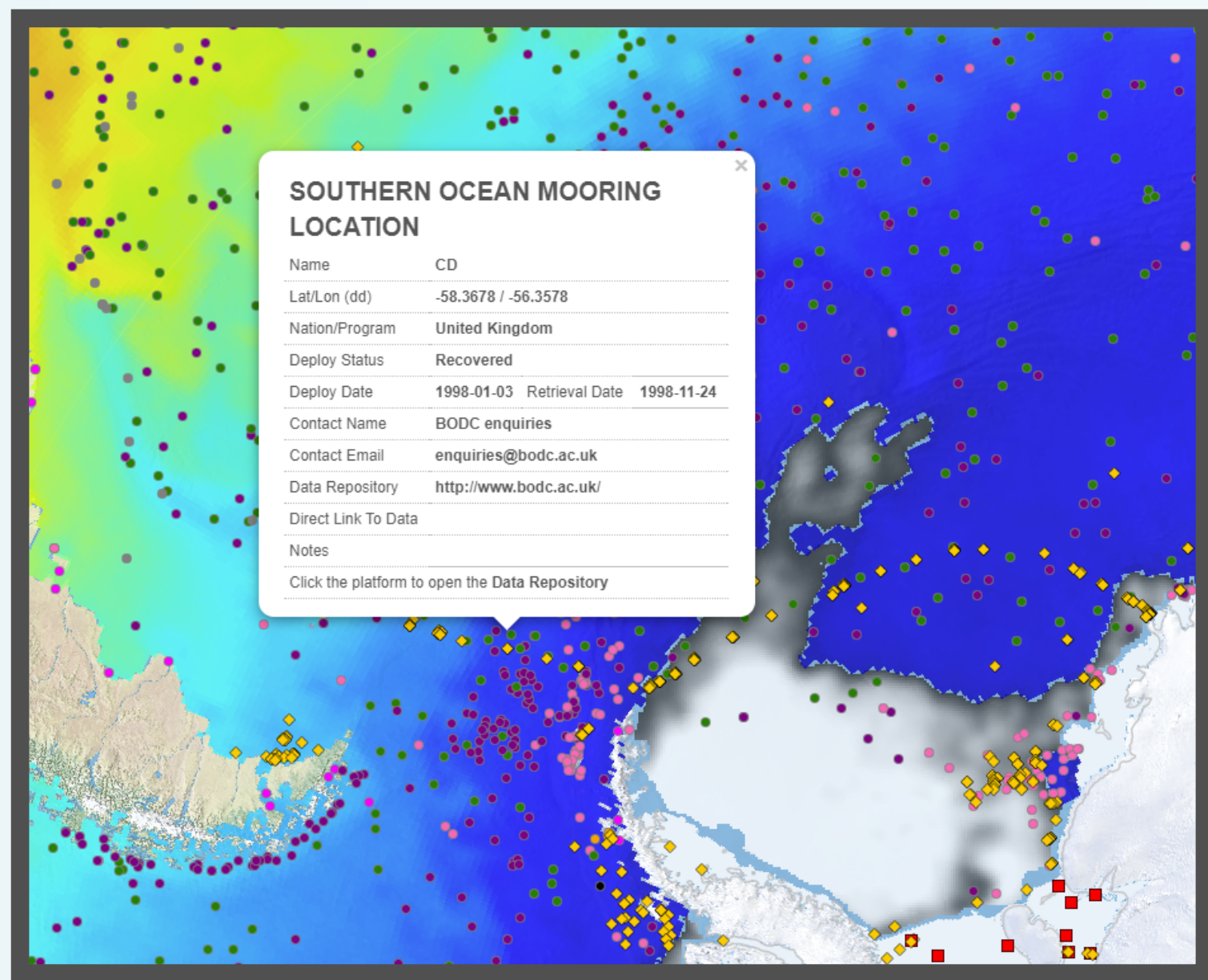
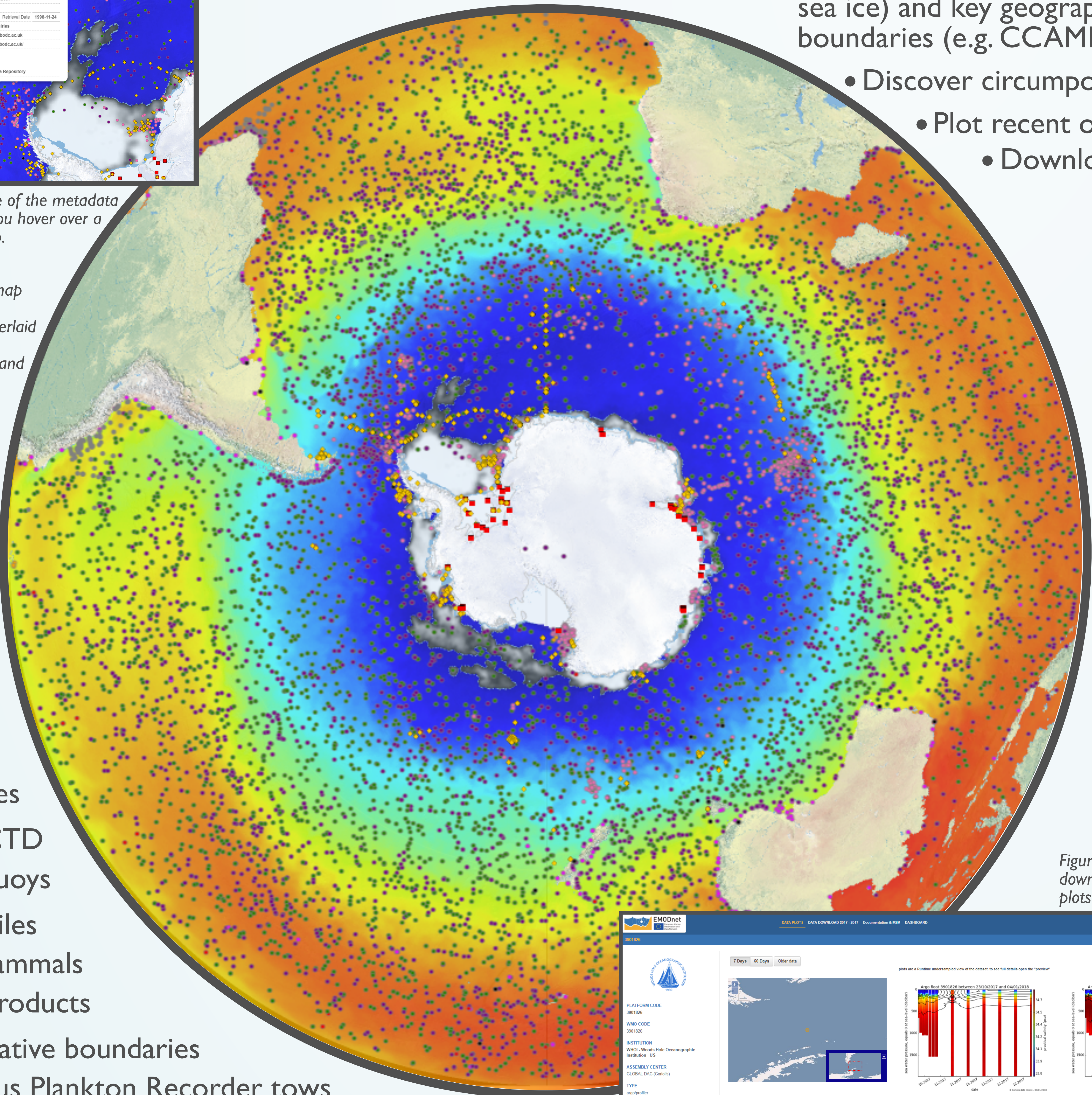


Figure 2. An example of the metadata that pops up when you hover over a feature on SOOSmap.

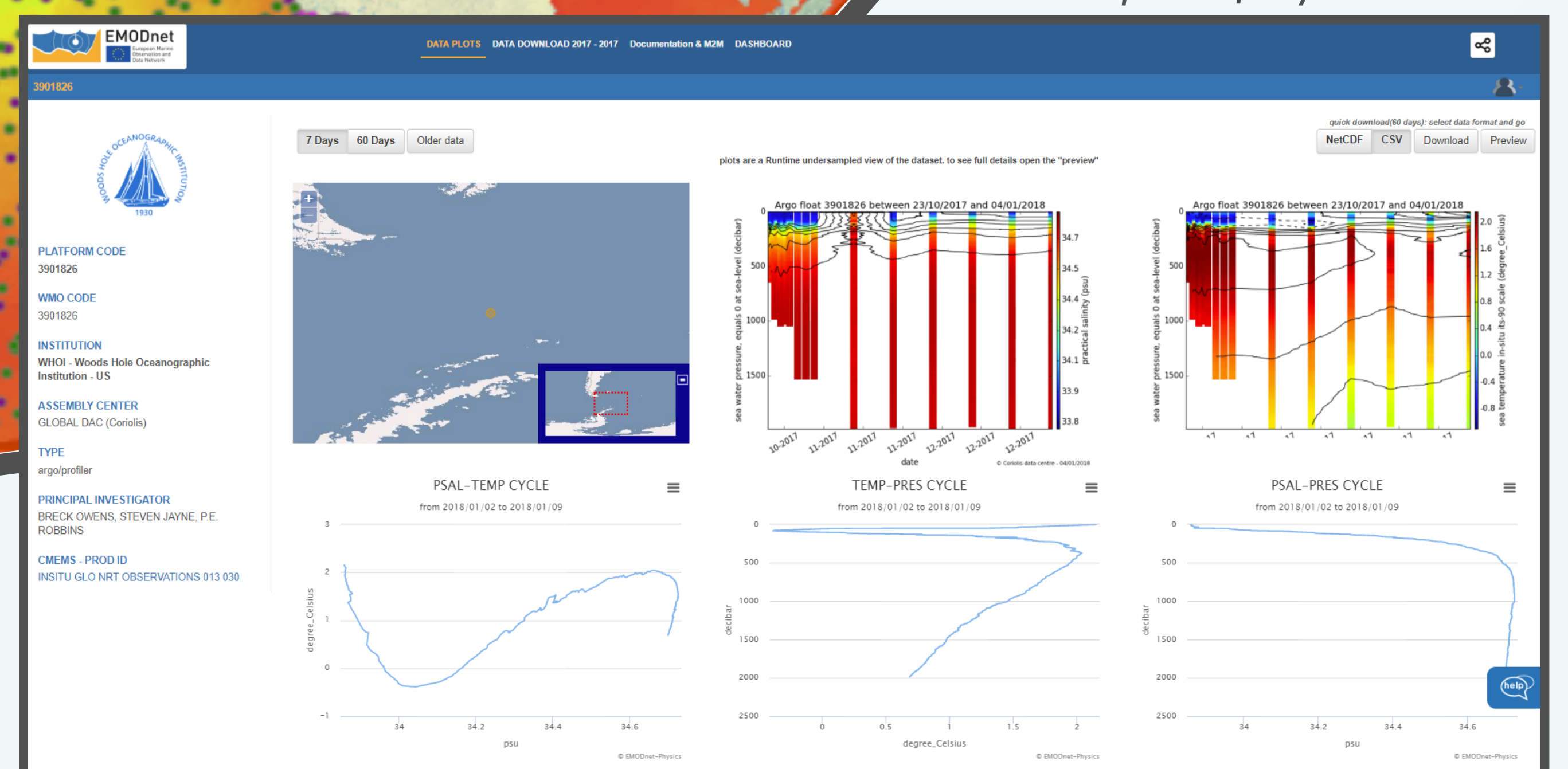
Figure 1. The SOOSmap interface, showing all observation points overlaid on interpolated sea surface temperature and sea-ice concentration layers.



- Explore spatial, temporal and multi-disciplinary ocean observation data
- Overlaid on data products (e.g. SST, sea ice) and key geographic boundaries (e.g. CCAMLR)
- Discover circumpolar datasets
- Plot recent observations
- Download datasets

- Argo
- Moorings
- Tide gauges
- XBT / XCTD
- Drifting buoys
- CTD Profiles
- Marine Mammals
- Satellite products
- Administrative boundaries
- Continuous Plankton Recorder tows
- NECKLACE Ice Shelf Melt Observations
- **More layers coming all the time**

Figure 3. SOOSmap data download page showing plots of key variables



The European Marine Observation and Data Network (EMODnet) is a network of organisations supported by the EU's integrated maritime policy. These organisations work together to observe the sea, process the data according to international standards and make that information freely available as interoperable data layers and data products.

- SOOSmap is a collaboration between SOOS and the European Marine Observation and Data Network (EMODnet) Physics group

[www.soos.aq/data/soosmap](http://www.soos.aq/data/soosmap)