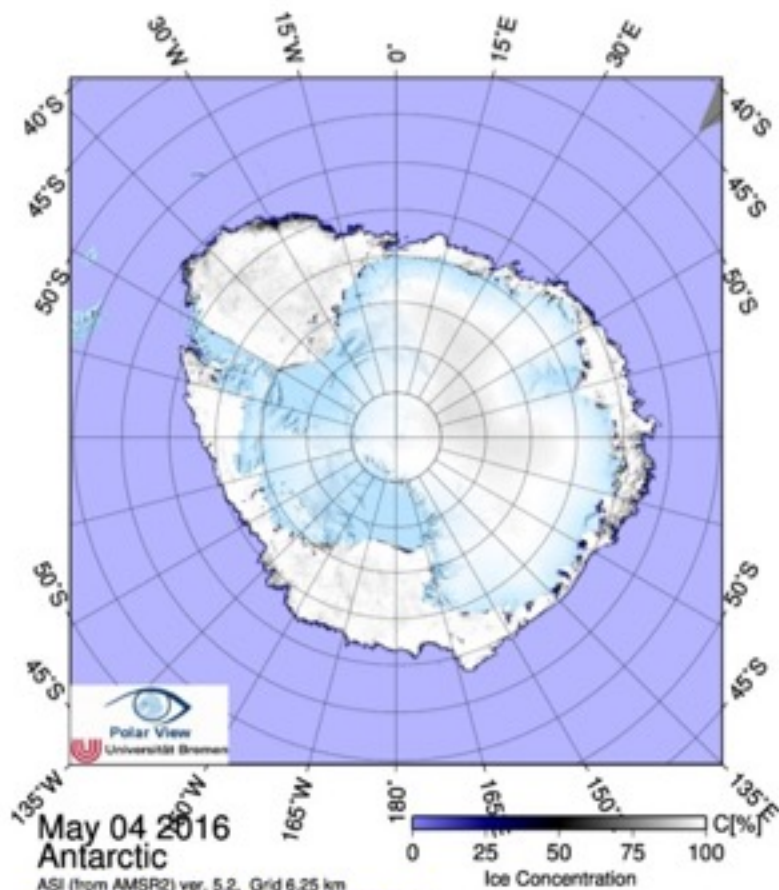


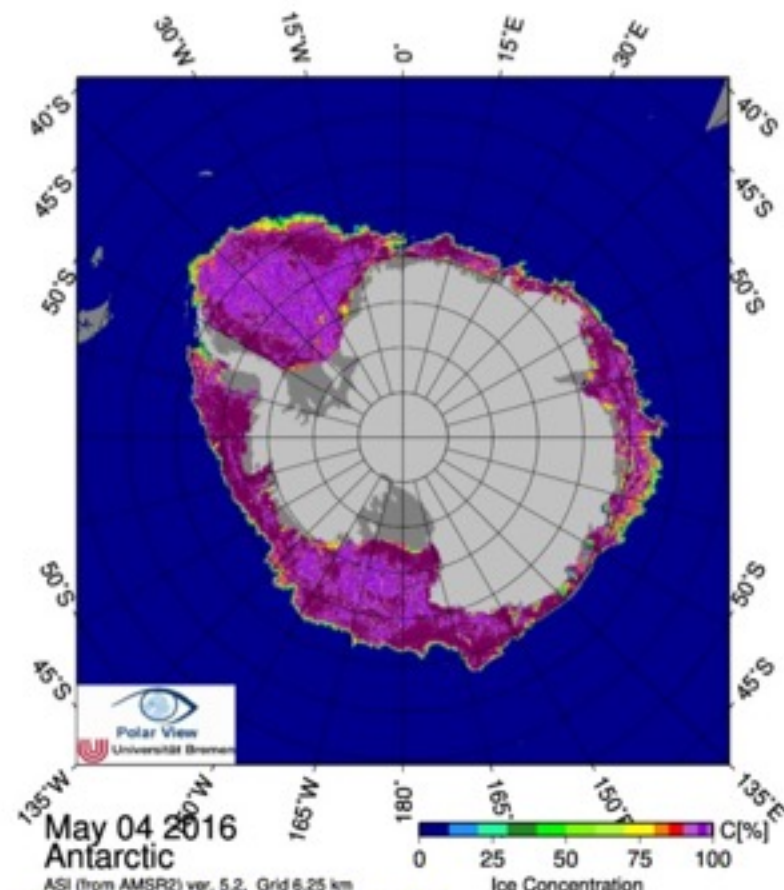
# Examples of sea ice information usage



# AMSR2 – Sea Ice Cover



[Click on the image to enlarge \(~500 KB\).](#)



[Click on the image to enlarge \(~300 KB\).](#)

False color sea ice map.

- based on AMSR2
- Updated every day
- 6.25 km resolution
- GeoTiff, hdf, jpeg

<http://www.iup.uni-bremen.de:8084/amr2/>

# Drift and Noise – Polar Service



DRIFT & NOISE  
POLAR SERVICES

*Setting polar safety standards!*

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Sea Ice Data Delivery

- Also based on AMSR2
- 6.25 km resolution
- Up to 8 times per day
- GeoTiff
- Subareas
- Automated service

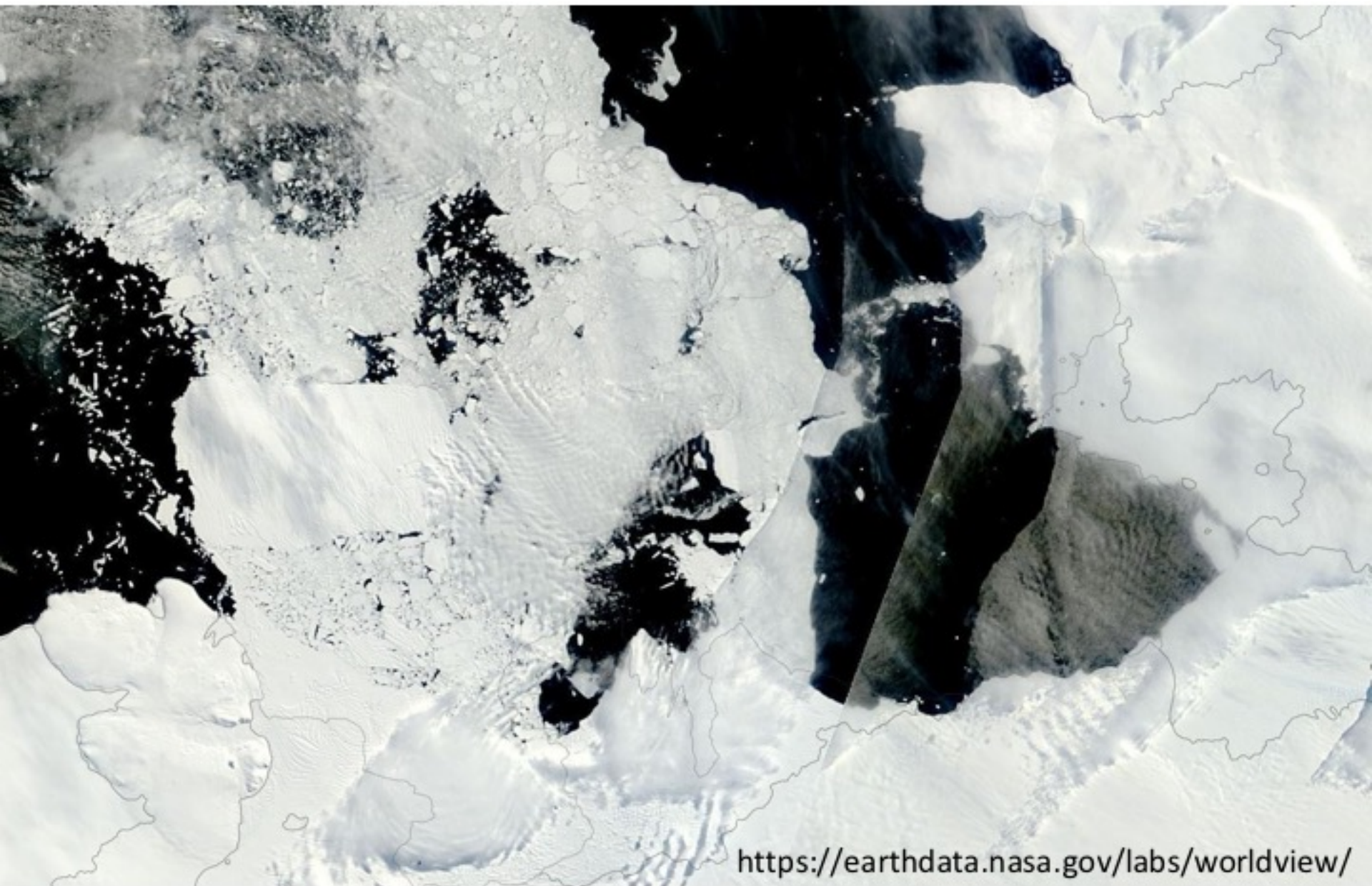
# Modis – NASA Worldview



The screenshot displays the NASA Worldview interface. On the left, a sidebar contains the 'Active' layer, 'OVERLAYS' (Coastlines), and 'BASE LAYERS' (Corrected Reflectance from Suomi NPP/VIRS, Aqua/MODIS, and Terra/MODIS). A '+ Add Layers' button is at the bottom of the sidebar. The main area shows a satellite image of Antarctica with a white overlay. A scale bar in the bottom right indicates 1000 km and 500 mi. At the bottom, a timeline shows the date 2016 FEB 15 and navigation arrows. The timeline is set to 'DAYS' view.

- MODIS
- ~250 m resolution
- Daily
- Visible only
- ⇒ Clouds can cover view
- ⇒ Good for clear days
- Export GeoTiff of subareas

# MODIS example



# Polar View – SAR and Other Tools

The screenshot displays the Polar View web interface. At the top left is the logo and the text "Polar View". To the right, there is a status bar with the text "@PolarViewStatus Sentinel 1 delivery is back to normal once again." and "Posted on 26 Apr".

On the left side, there is a sidebar with the following sections:

- Available datasets**
- Image preview**: Shows a grayscale SAR image of a coastal area.
- Product downloads**: A table listing download options for the SAR imagery.

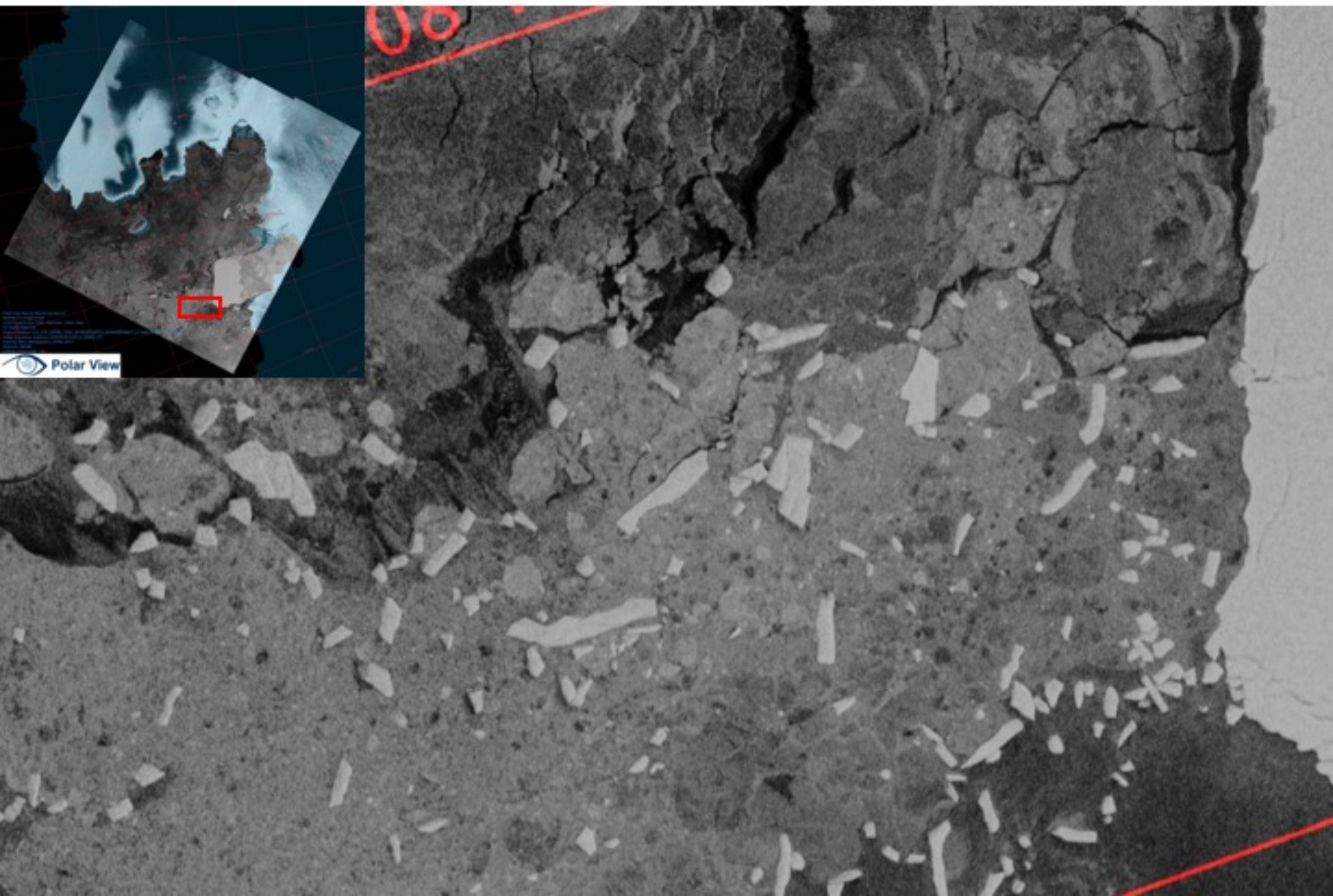
| Format                              | Size     | Link |
|-------------------------------------|----------|------|
| GeoTIFF (compressed)                | 142.24MB | ↕    |
| JPG (reduced resolution)            | 377.0KB  | ↕    |
| JPG (full resolution)               | 71.74MB  | ↕    |
| JPEG2000 (reduced resolution, 8bit) | 857.5KB  | ↕    |
| JPEG2000 file (16 bit)              | 84.32MB  | ↕    |
| JPEG2000 file (lossy)               | variable | ↕    |
| Last 24 hours SAR (KML)             | n/a      | ↕    |
| Last 3 days SAR (KML)               | n/a      | ↕    |

The main area of the interface is a map of the Arctic region. The map shows several cyan-colored rectangular swaths representing SAR imagery acquisitions. A scale bar indicates 1000 km and 500 mi. The map also displays sea ice concentration (purple), ice charts (orange), and mosaics (white). A timeline at the bottom of the map shows acquisition dates from 03-05-16 to 06-05-16. Below the timeline are several thumbnail images representing different data layers: SAR imagery, Sea ice concentration, Ice charts, Mosaics, MyOcean Sea Ice Edges, Icebergs, and S1 Future Acquisitions.

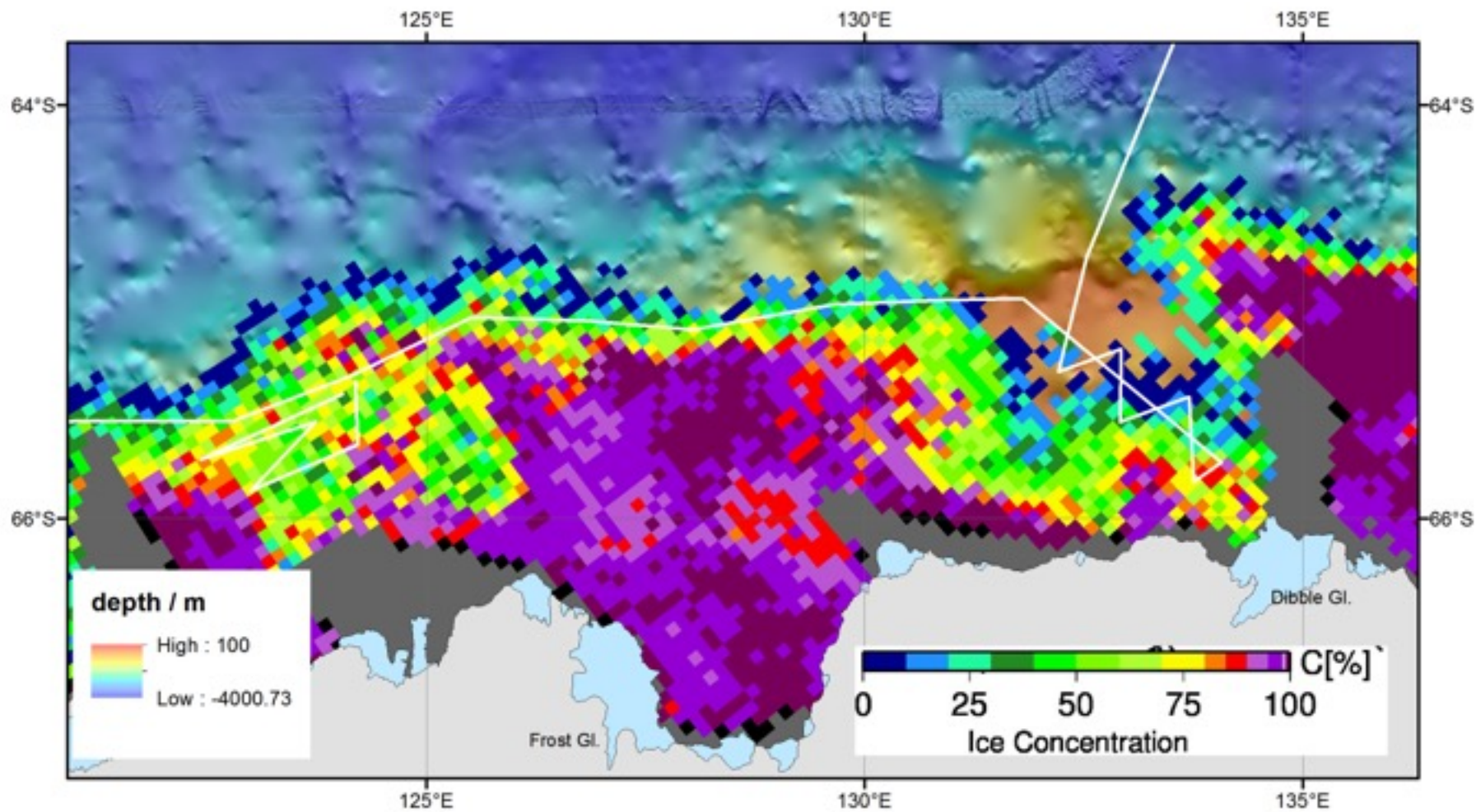
On the right side, there is a white box containing a list of features:

- High-resolution radar images
- Sentinel-1A
- And soon Sentinel-1B
- 20-40 m resolution
- 6 days return time

# Polar View Sentinel-1A Example



# AMSR2 Sea Ice Data for Track Planning

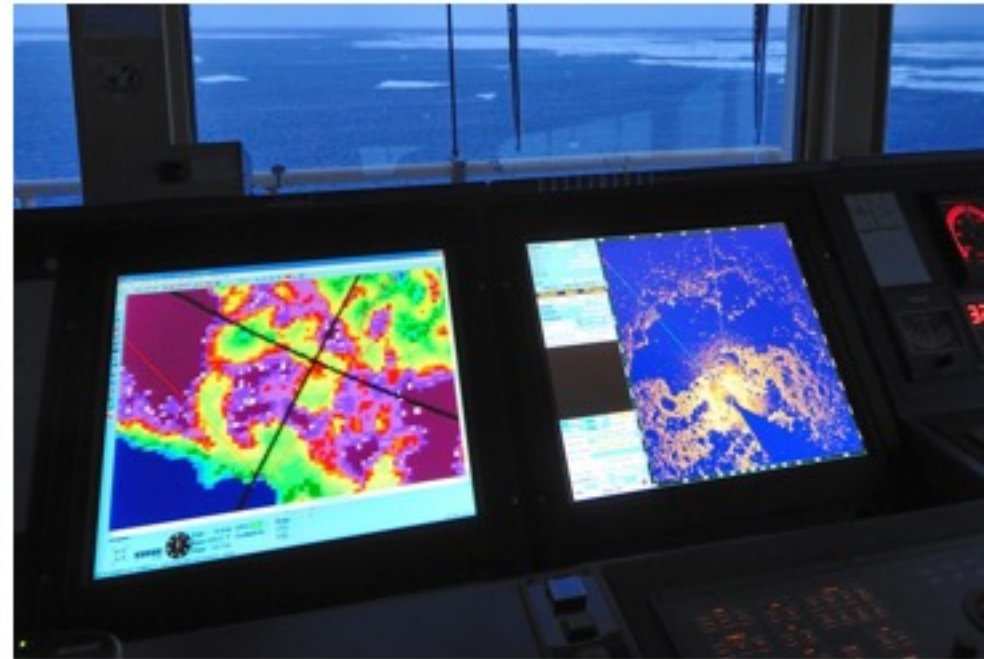
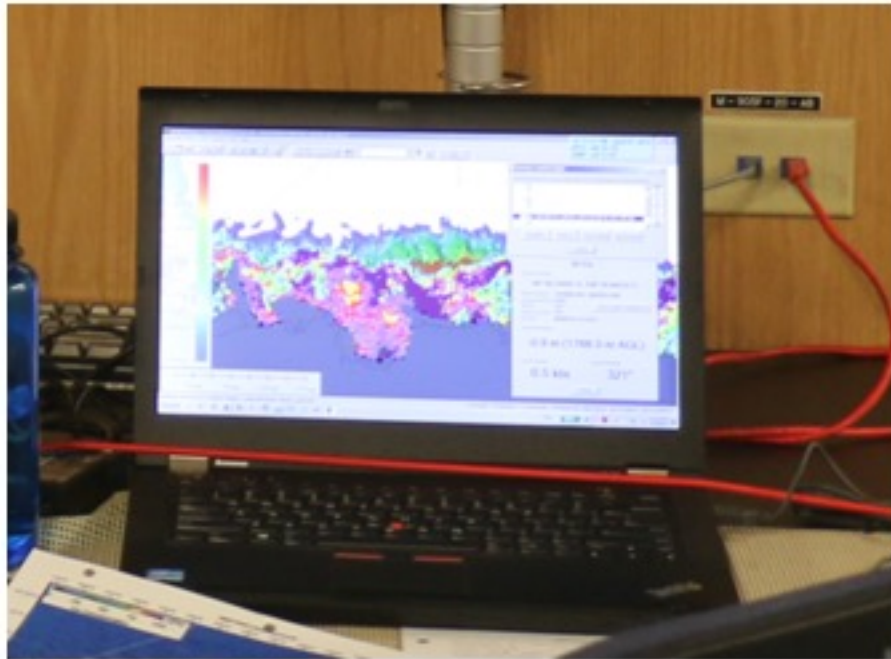


sea ice: AMSR2 - Bremen Mar 29 2015

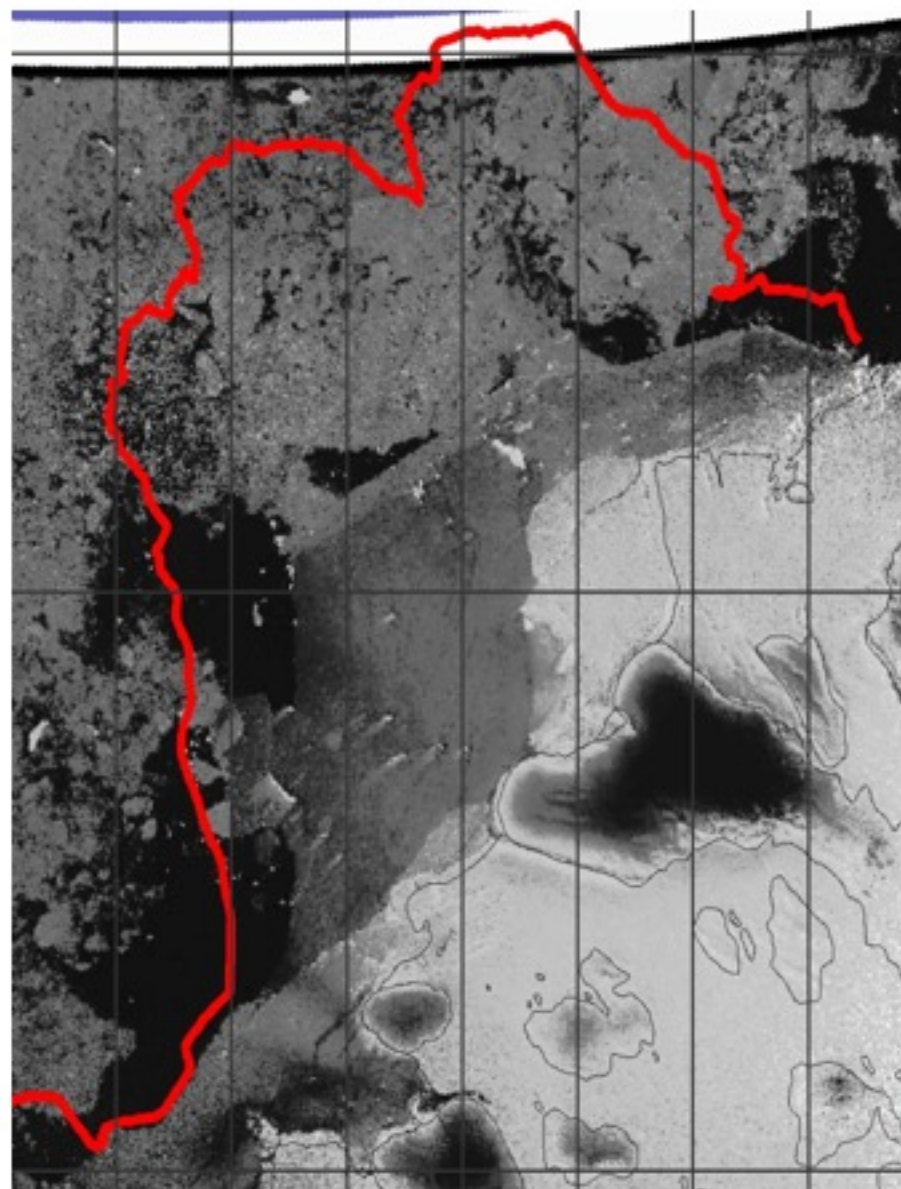
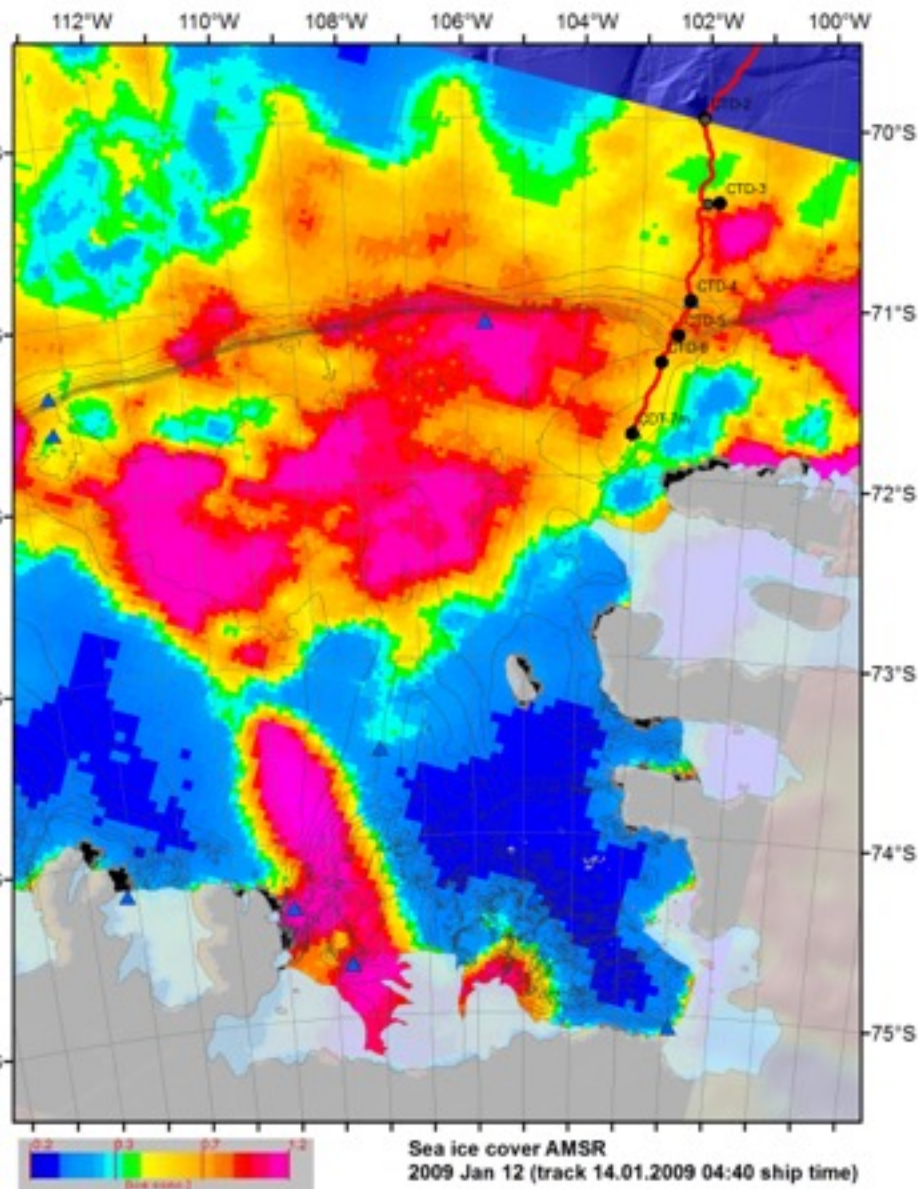
Source: IBSCO v1, Etopo2, ADD6



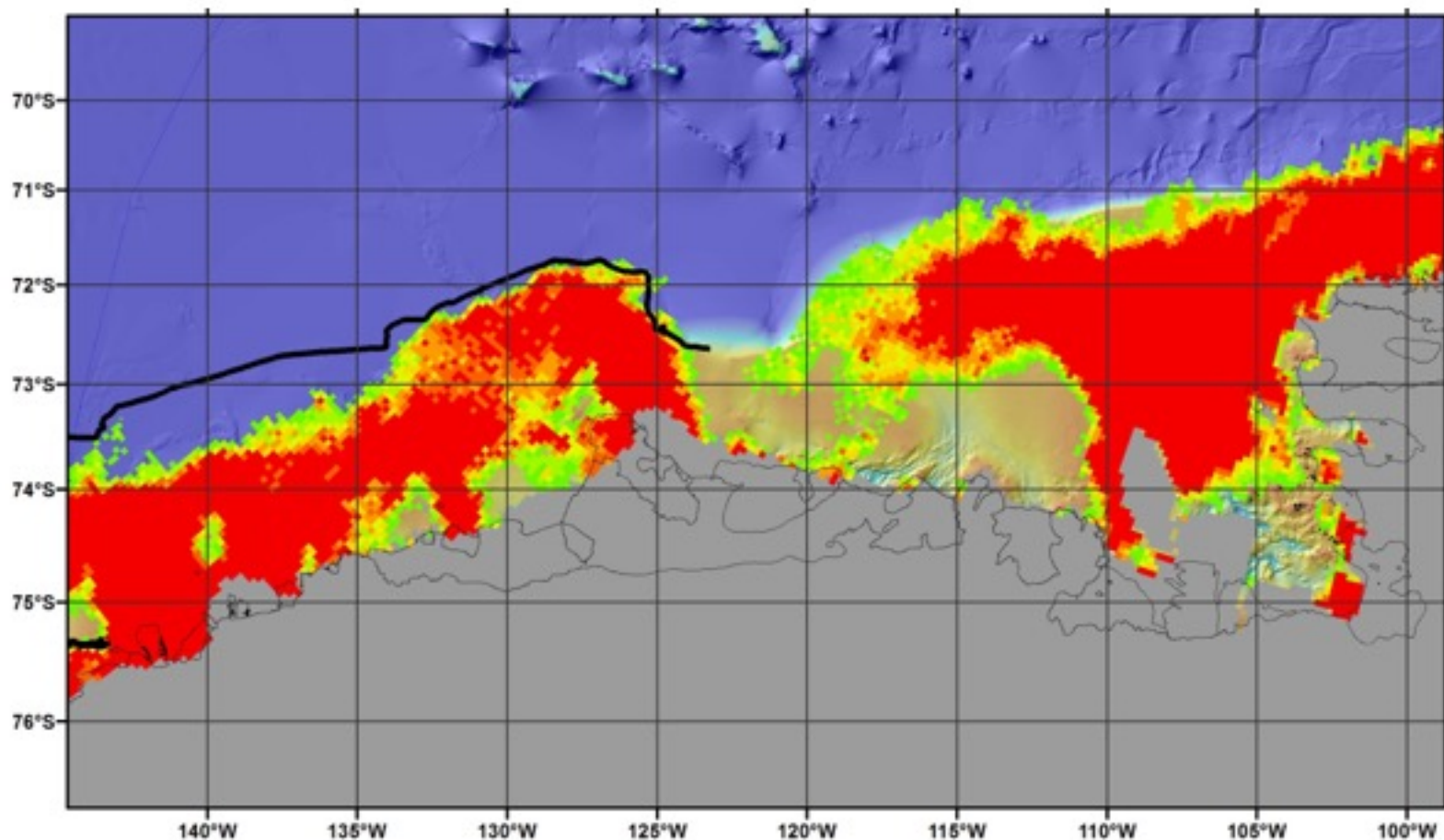
# Sea Ice and Track Data - GIS Integration



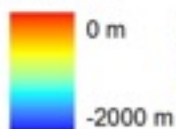
# Sea Ice and Track Data - GIS Integration



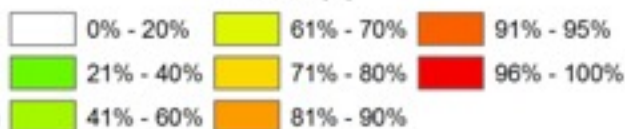
# Sea Ice and Track Data - GIS Integration



Depth / m



Ice Cover (%)



AMRSE Sea Ice Cover: 14. February 2007