

# ***Status Southern Ocean***

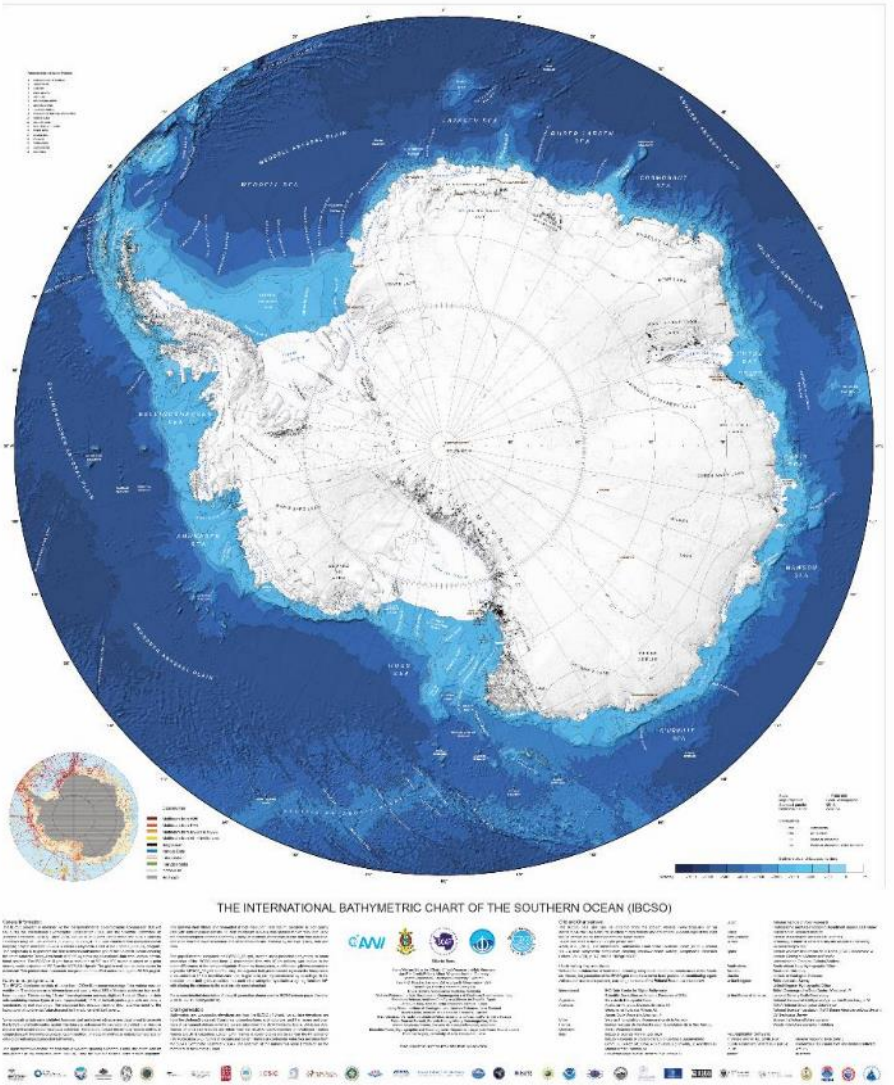
***First Seabed 2030***

***Arctic, Antarctic & North Pacific Mapping Meeting***

*Department of Geological Sciences*

*Stockholm University, Sweden*

*8 - 10 October, 2018*



# International Bathymetric Chart of the Southern Ocean (IBCSO)

# GEBCO SCRUM Project

## Areas south of 60° South (ATCM Area)

## IBCSO V1 (Arndt et al., 2013)

## Paper chart

## 3D Lenticular map



# Background



International Bathymetric Chart of  
the Southern Ocean (IBCSO)

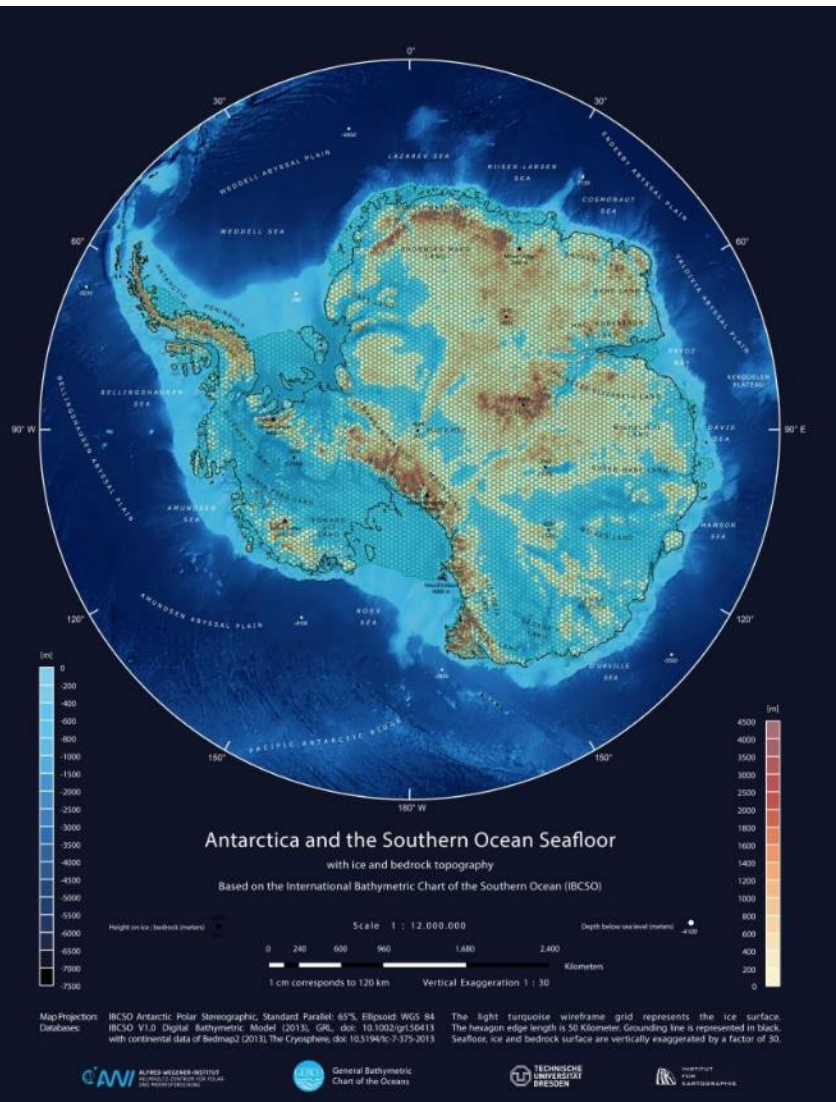
GEBCO SCRUM Project

Areas south of 60° South (ATCM  
Area)

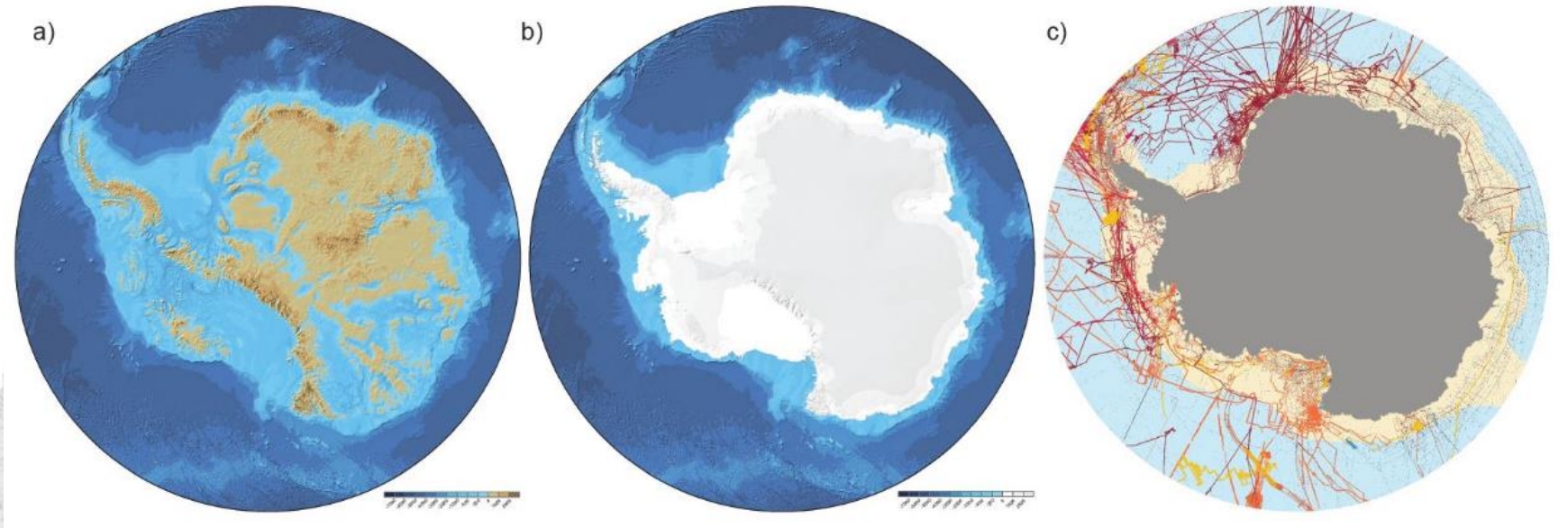
IBCSO V1 (Arndt et al., 2013)

Paper chart

3D Lenticular map



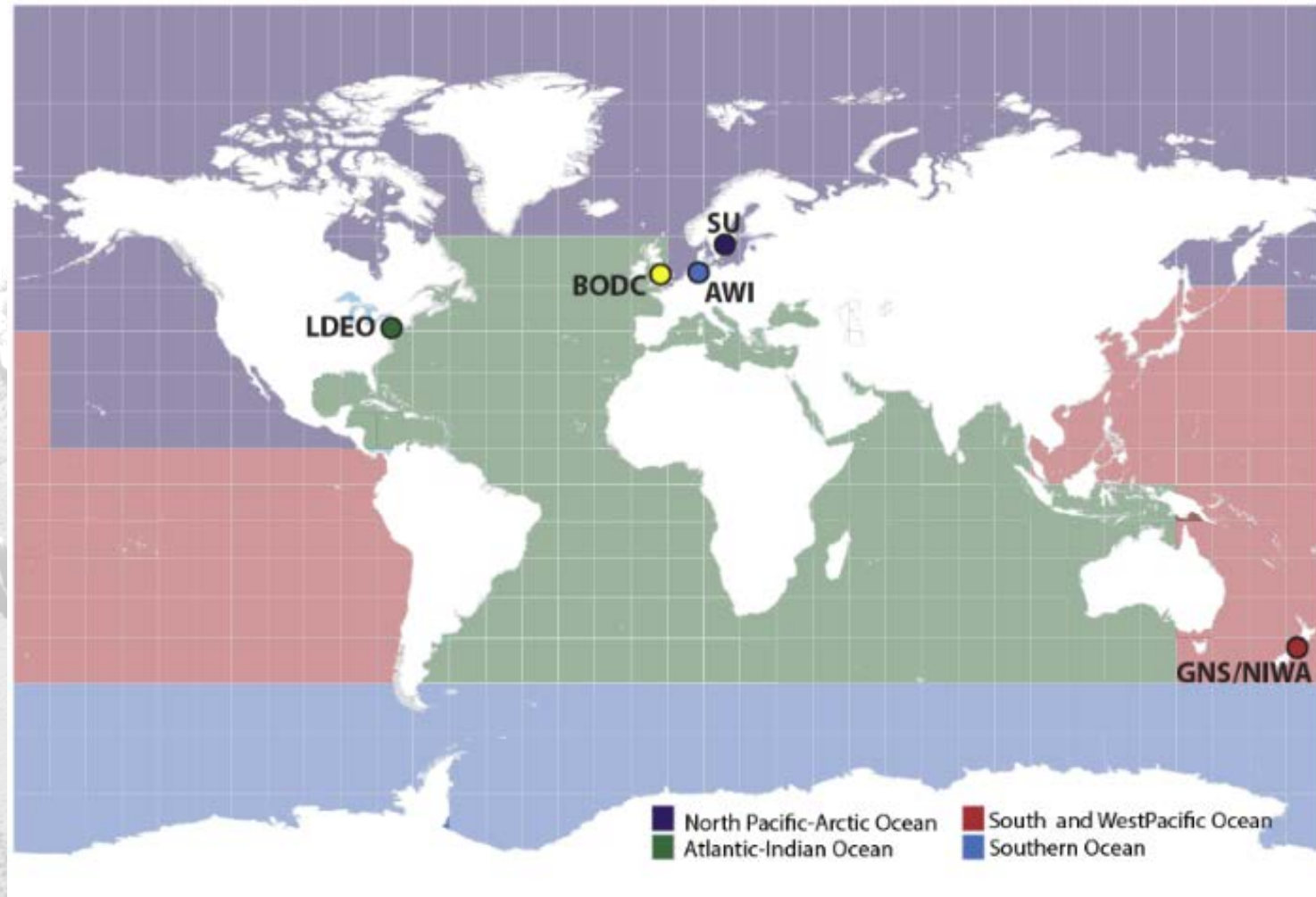
# Background



- Bed surface grid
- Ice surface
- Source identifier



# Seabed 2030 – Regional and global centres



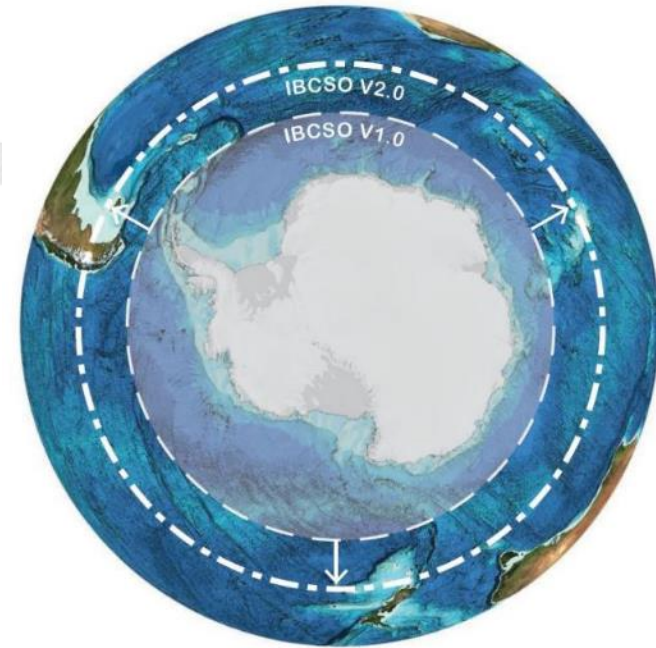
# Status



## Seabed 2030 and IBCSO V2

### Common goals:

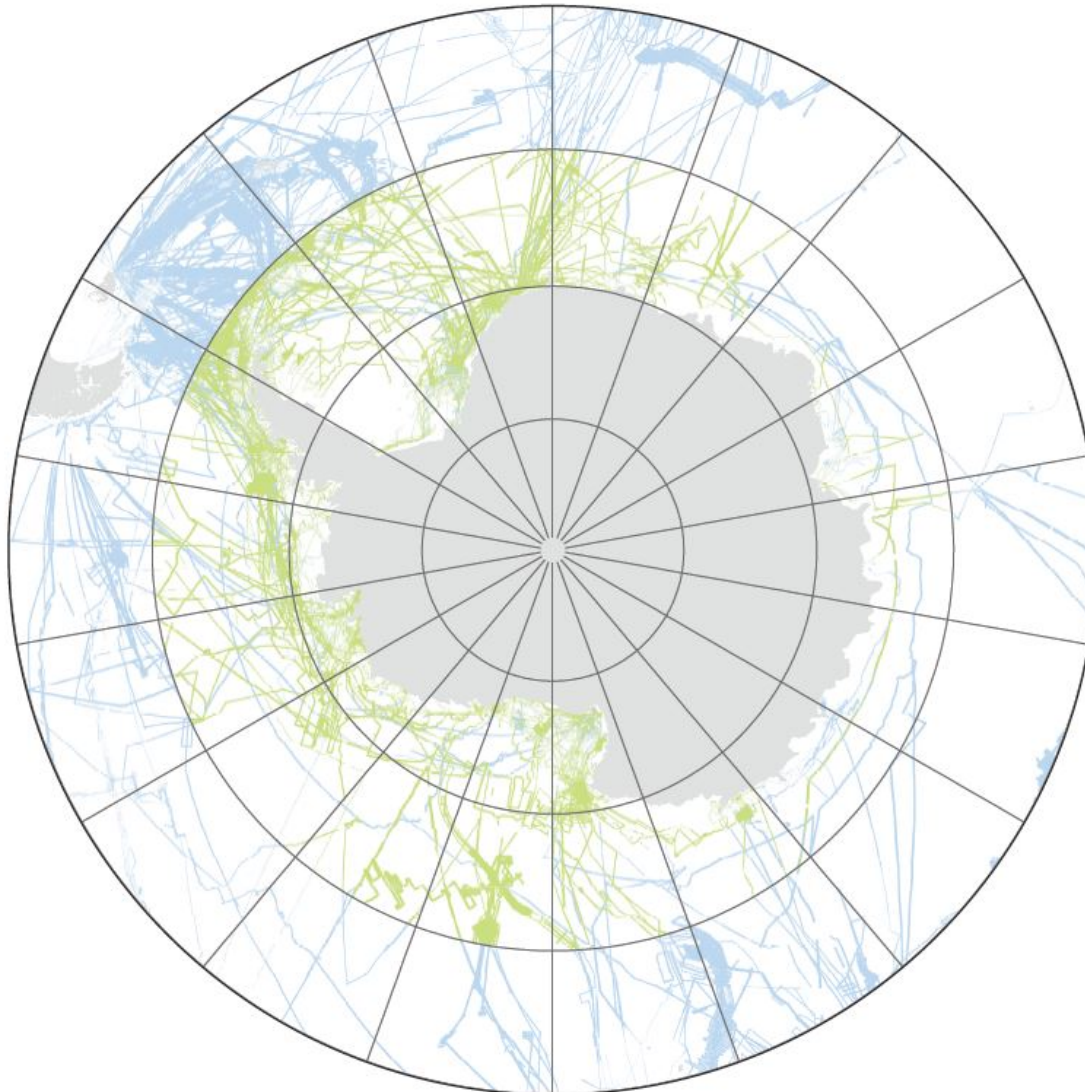
- Area south of 50°S  
2.5 seafloor times the area of IBCSO V1.0!
- Raster resolution of 500 m
- Grid provided by RDACC Southern Ocean to GDACC for annual updates of GEBCO grid
- IBCSO V2 grid published in an international, peer-reviewed journal



Background: GEBCO\_14  
(Weatherall et al., 2015)



# Status



MB Coverages

Green = IBCSO V1

Blue = Additional multibeam  
coverages

Compilation date: early 2017

# Time line



Seabed 2030 – GEBCO 2018 grid  
RDACC Southern Ocean

Data acquisition – ongoing  
Dataprocessing – in progress  
Grid production for GEBCO 2018 – in  
progress

Delivery of Grid to GDACC (mid October  
2018)

Yearly interval

IBCSO V2  
RDACC Southern Ocean

Data acquisition (until 1<sup>st</sup> of Dec 2018)  
Dataprocessing (until March 2019)  
Grid production for IBCSO V2 (until July  
2019)  
Publication of IBCSO V2 (second half  
2019)

Delivery of IBCSO V2 to GDACC for GEBCO  
grid (after publication)

5 to 10 year intervals



Upcomming presentation of Jan Erik Arndt on the new grids:

**Seabed 2030 Southern Ocean / IBCSO V2**

Focussing more on technical aspects