

International Programme for Antarctic Buoys (IPAB)

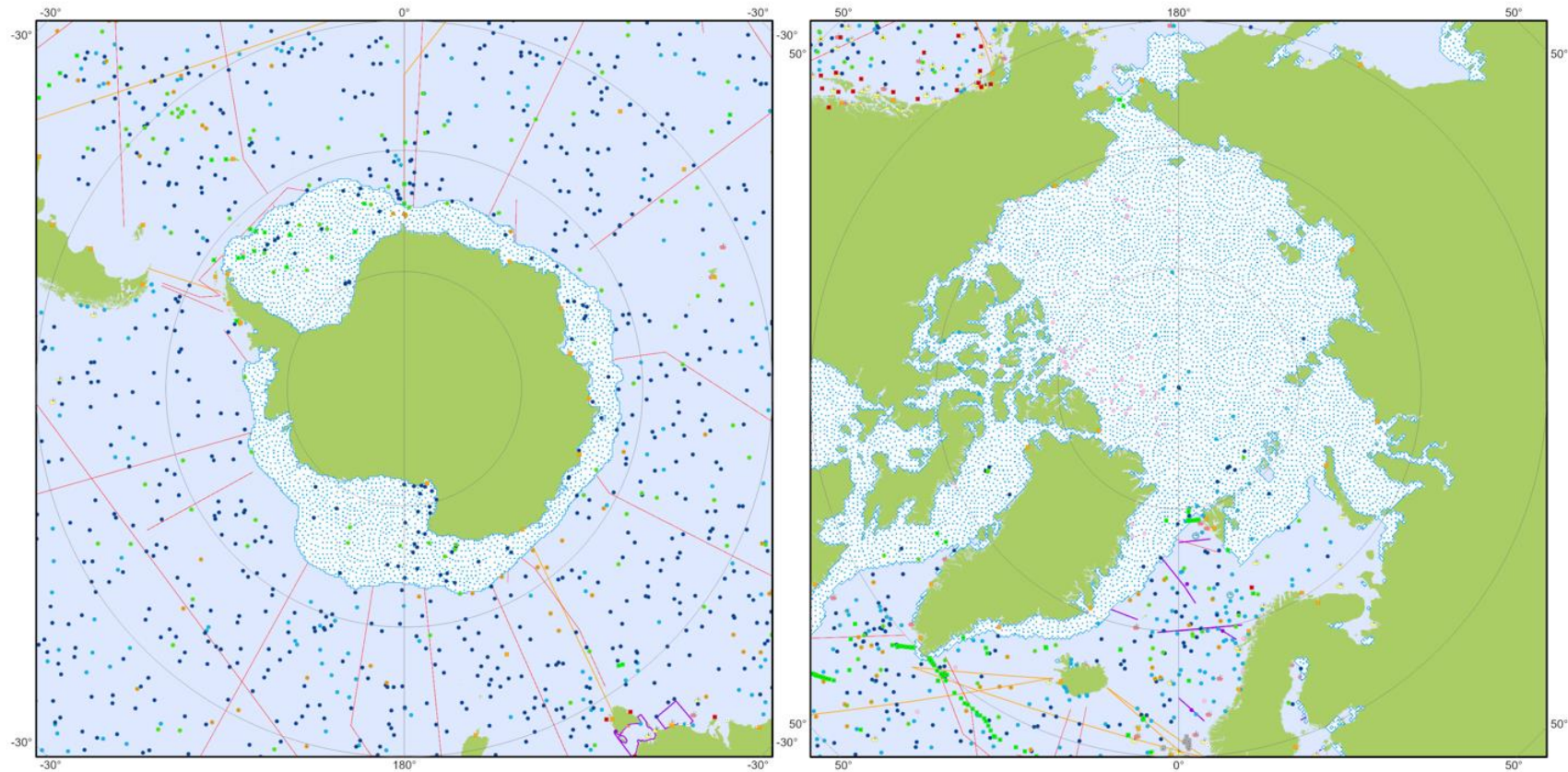
Chair: Petra Heil

Co-Coordination: Christian Haas and Ignatius Rigor

DBCP-38, Geneva, Switzerland

2 November 2022

IPAB Status Map



Polar basins observing system

In situ operational platforms monitored by OceanOPS

June 2022

Mobile systems

- Deep floats - Argo (49)
- Biogeochemistry floats - Argo (111)
- Core floats - Argo (826)
- Underwater gliders - OceanGliders (1)
- Drifting buoys - DBCP (155)
- Polar buoys - DBCP (1)

Fixed systems

- Animal borne sensors (19)
- Moored buoys - DBCP (4)
- Ocean reference stations - OceanSITES (25)
- Sea level gauges -GLOSS (42)
- High Frequency radars (10)

Ship based measurements

- Automated weather stations - SOT/VOS (8)
- Manned weather stations - SOT/VOS (58)
- Repeat hydrography - GO-SHIP (24)
- eXpendable BathyThermographs - SOT/SOOP (4)
- Sampled sites - OceanGliders (2)

Mobile systems

- Deep floats - Argo (27)
- Biogeochemistry floats - Argo (73)
- Core floats - Argo (228)
- Underwater gliders - OceanGliders (4)
- Drifting buoys - DBCP (156)
- Polar buoys - DBCP (59)

Fixed systems

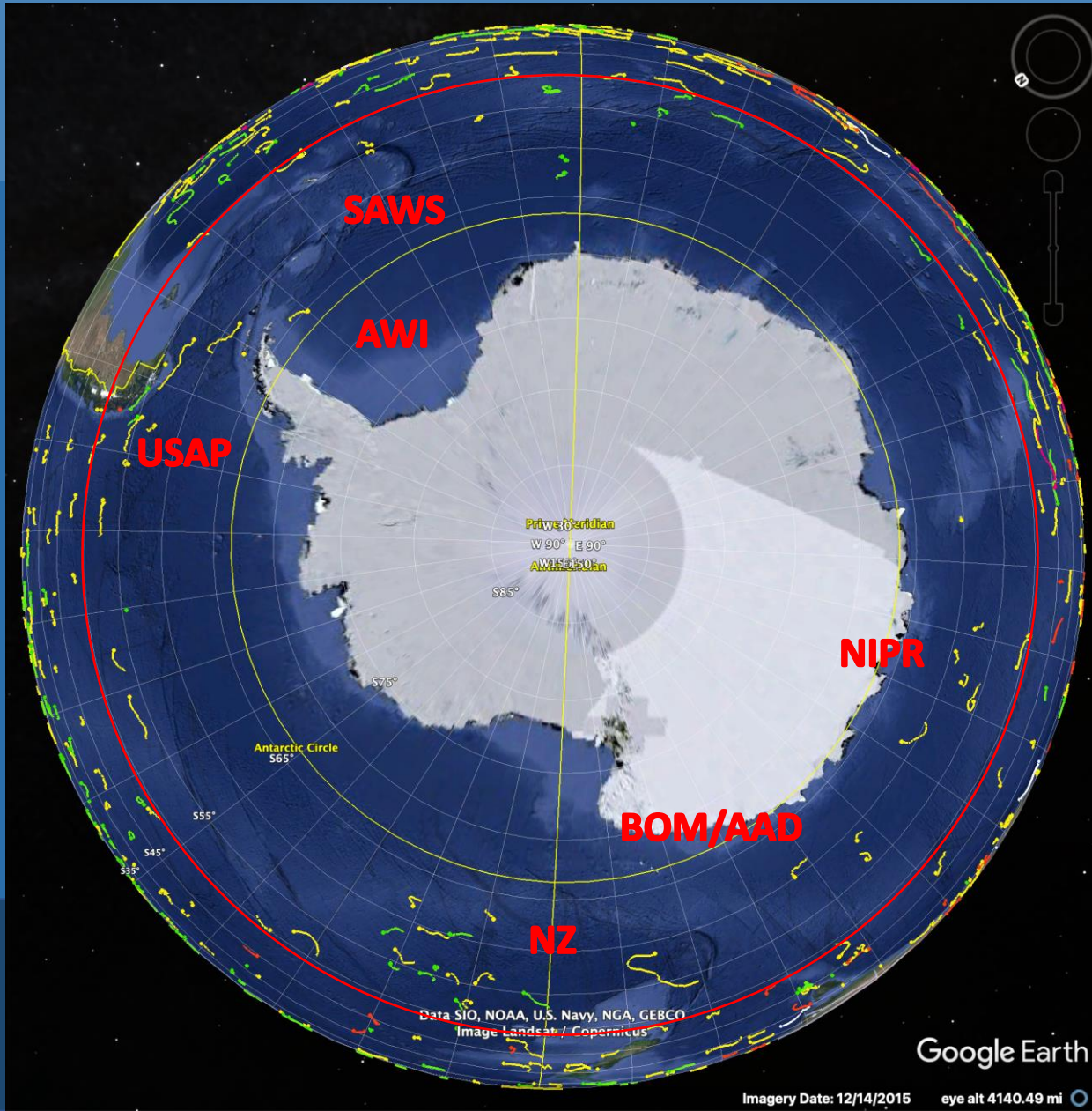
- Tsunameters - DBCP (4)
- Offshore platforms - DBCP (18)
- Moored buoys - DBCP (19)
- Ocean reference stations - OceanSITES (93)
- Sea level gauges -GLOSS (41)
- High Frequency radars (10)

Ship based measurements

- Radiosondes - SOT/ASAP (5)
- Automated weather stations - SOT/VOS (150)
- Manned weather stations - SOT/VOS (235)
- Repeat hydrography - GO-SHIP (13)
- eXpendable BathyThermographs - SOT/SOOP (4)
- Sampled sites - OceanGliders (11)



IPAB Status Map



SUMMARY

- Drifting buoys reporting south of 50S primarily provided by the US GDP, Australian Antarctic Division, and the Alfred Wegener Institute, Germany.
- Logistics provided by
 - Japan's National Institute of Polar Research (NIPR) which has been deploying ~10 drifters/yr, at roughly 60S, 85E-110E.
 - New Zealand Navy has also been deploying SVP buoys north of the ice, they facilitate NZ Met Service activities.
 - AWI RV Polarstern plans to sail to the Weddell Sea in Winter 2022-2023.
 - Other logistics of opportunity provided by BOM, KOPRI, SAWS, USAP.
 - Hoping to leverage New Zealand's involvement in ICE-PPR to deploy buoys on sea ice using C-130s.

END