

IHO Hydrographic Commission on Antarctica (HCA)

National Report by
AUSTRALIA



Perspective

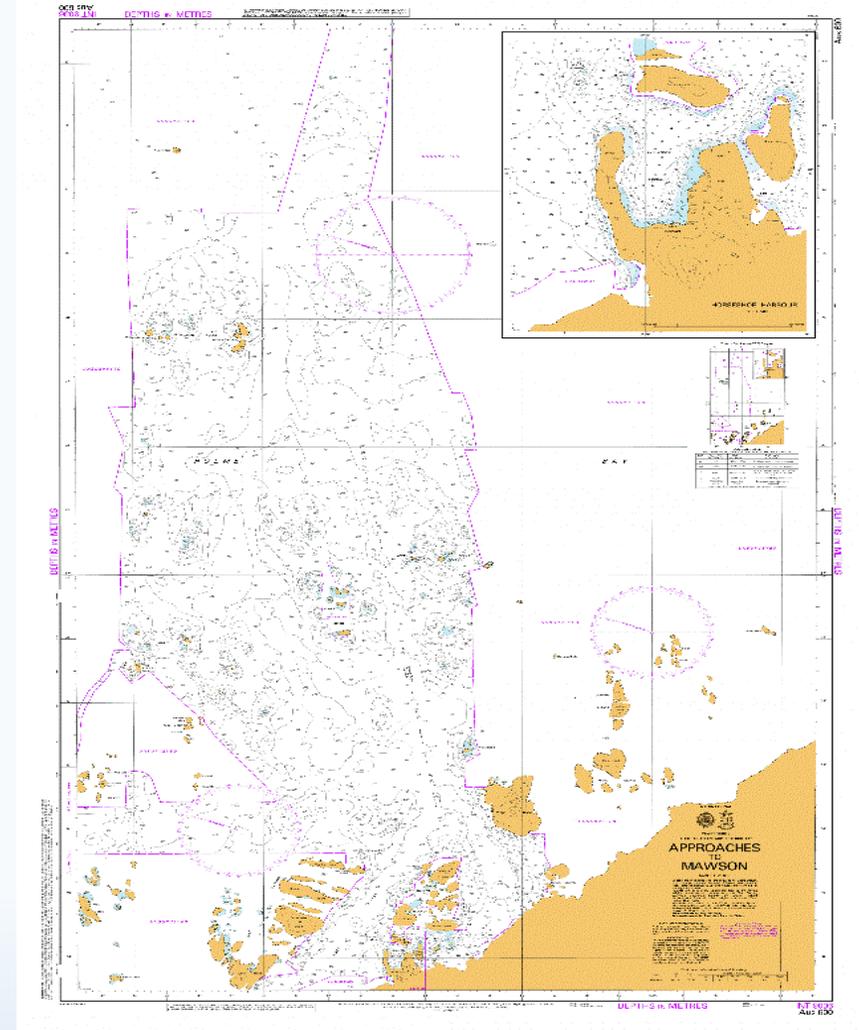


Perspective



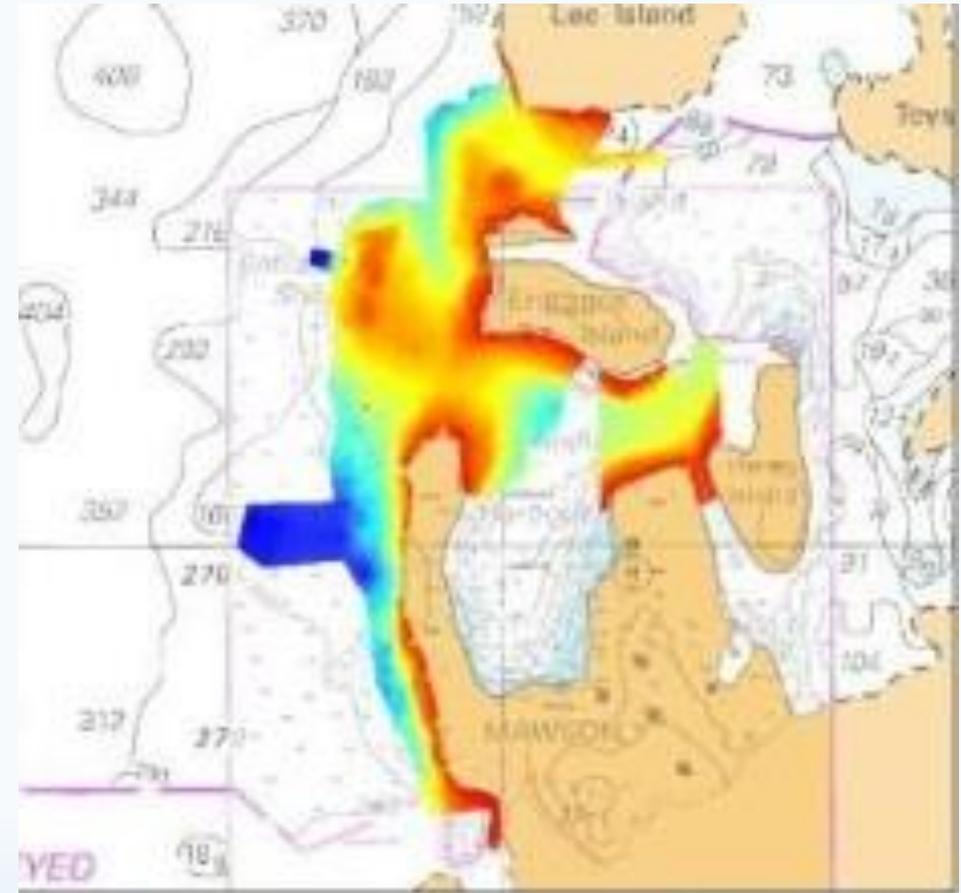
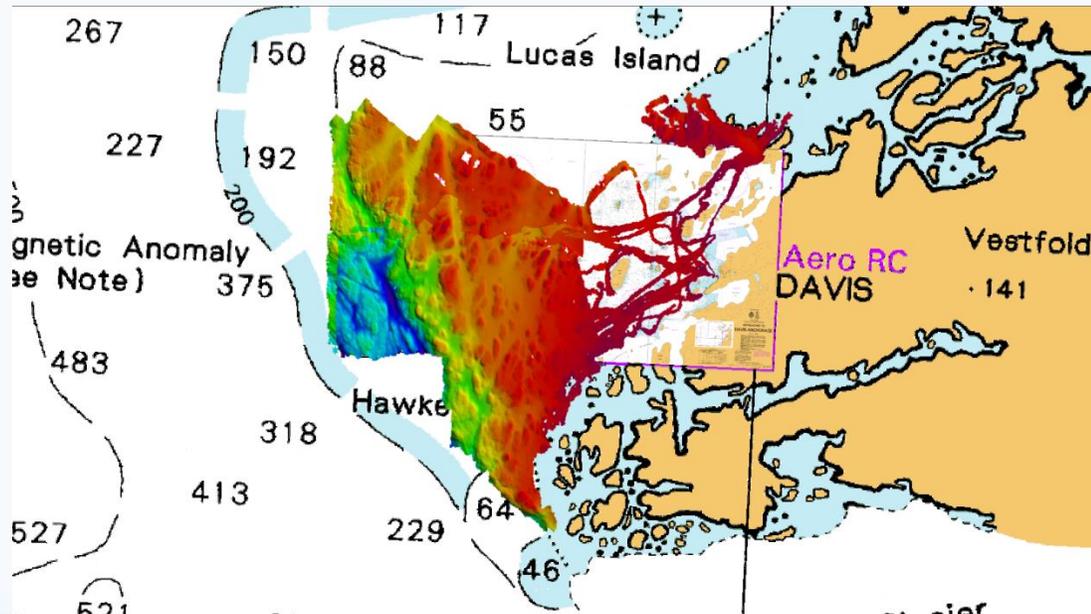
Charting progress in Antarctica since HCA-14 (June 2016)

A new edition of paper chart
“Approaches to Mawson”
was published in November 2016
(Aus 600, INT 9036)



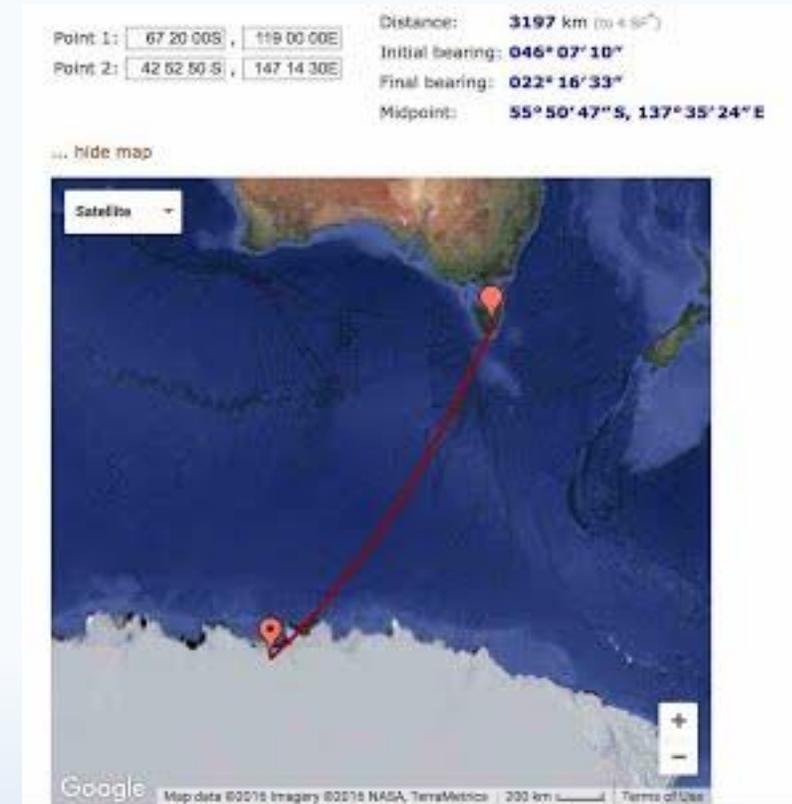
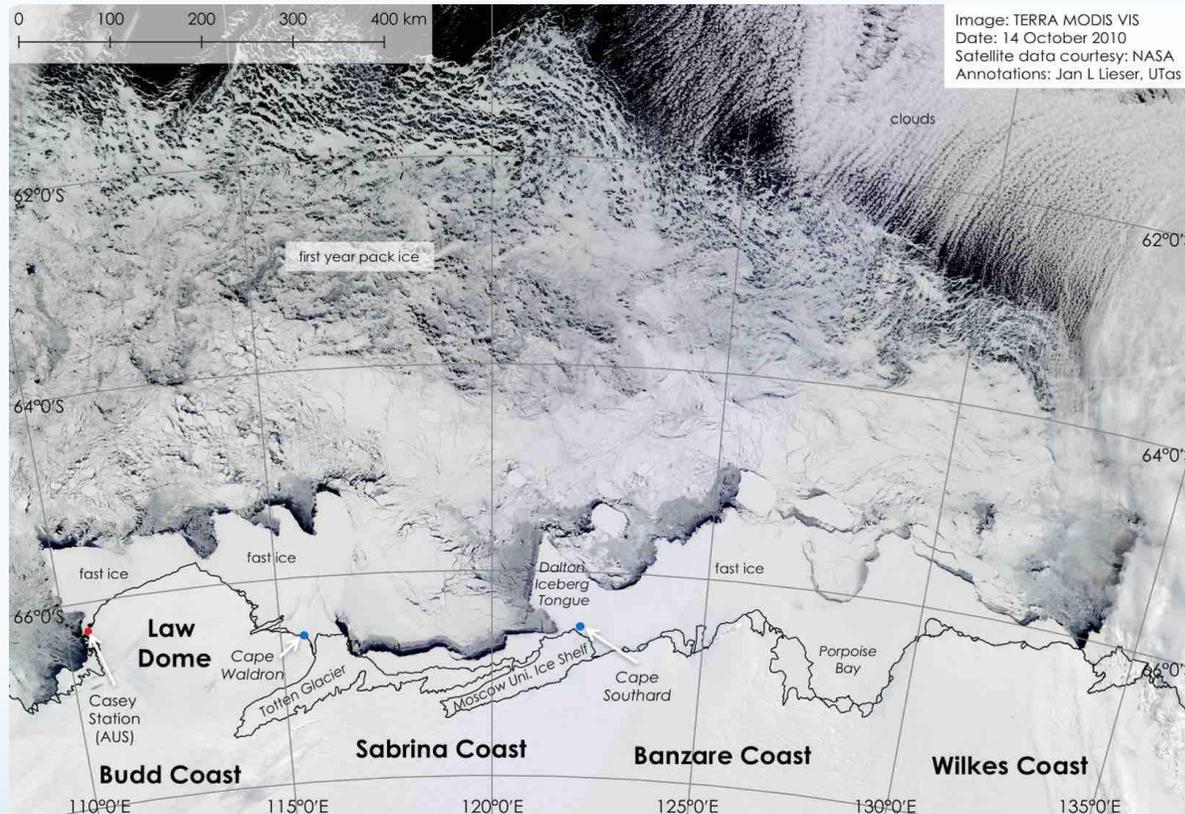
Survey progress in Antarctica since HCA-14 (June 2016)

- HI 590 Davis Station 2016/17
- HI 607 Mawson Station 2017/18



Survey progress in Antarctica since HCA-14 (June 2016)

- Sabrina Seafloor Survey Jan–Mar 2017: collaborative research task on the CSIRO RV *Investigator* between several Australian universities, Geoscience Australia (GA) and international institutions. Survey data will be made available to the AHO for charting and provision to GEBCO



Status of Relations with Other Organizations

- **Australian Antarctic Division (AAD):** AHO works closely with AAD to determine survey and charting priorities to assist AAD activities.
- **Geoscience Australia (GA):** AHO is collaborating with GA to optimise survey opportunities and improve communication and data collection and management practices across the science community.
- **Commonwealth Scientific and Industrial Research Organisation (CSIRO):** Marine National Facility (MNF) RV *Investigator* is a state-of-the-art data collection platform being used by the Australian and international science community. The AHO is also contracting the vessel to conduct hydrographic surveys and through future national survey programs and the National Seabed Coordination Program, the AHO anticipates further opportunities to improve hydrographic survey coverage within the Antarctic.



CSIRO MNF RV *Investigator*



Planned Charting Activities for 2018-19

- **MAWSON STATION**

- Paper - AUS 599, AUS 600, AUS 449
- ENC – AU5600P1, AU468062, AU468063, AU270060

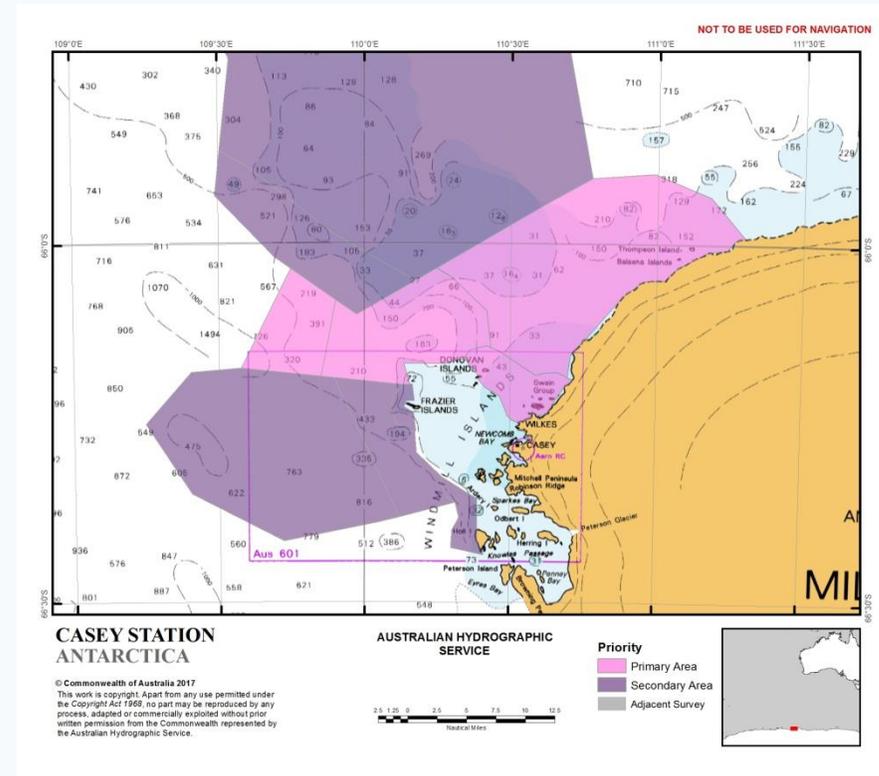
- **DAVIS STATION**

- Paper - AUS 602, AUS 451
- ENC – AU4602P0 , AU270070



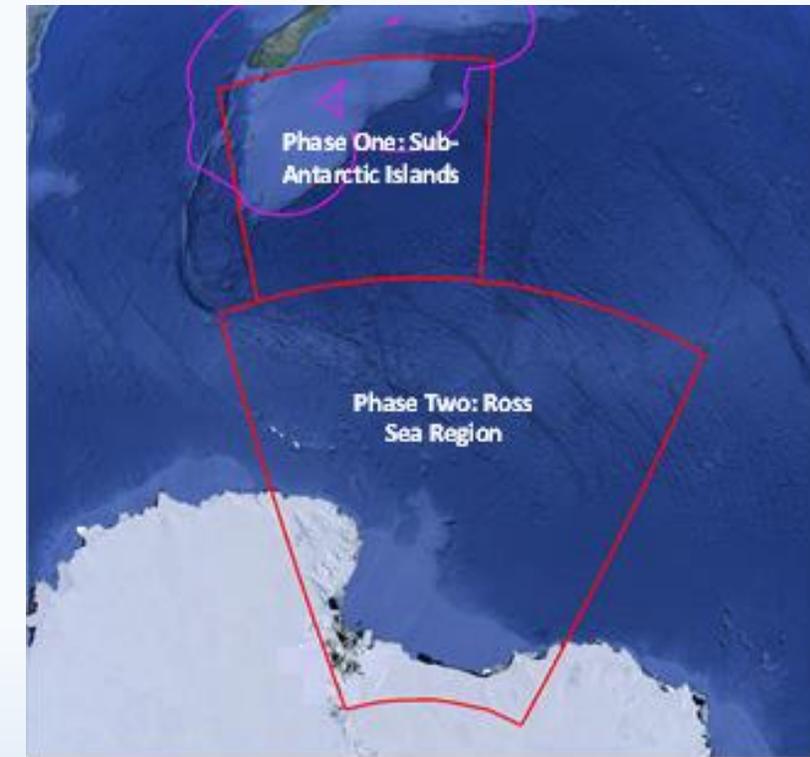
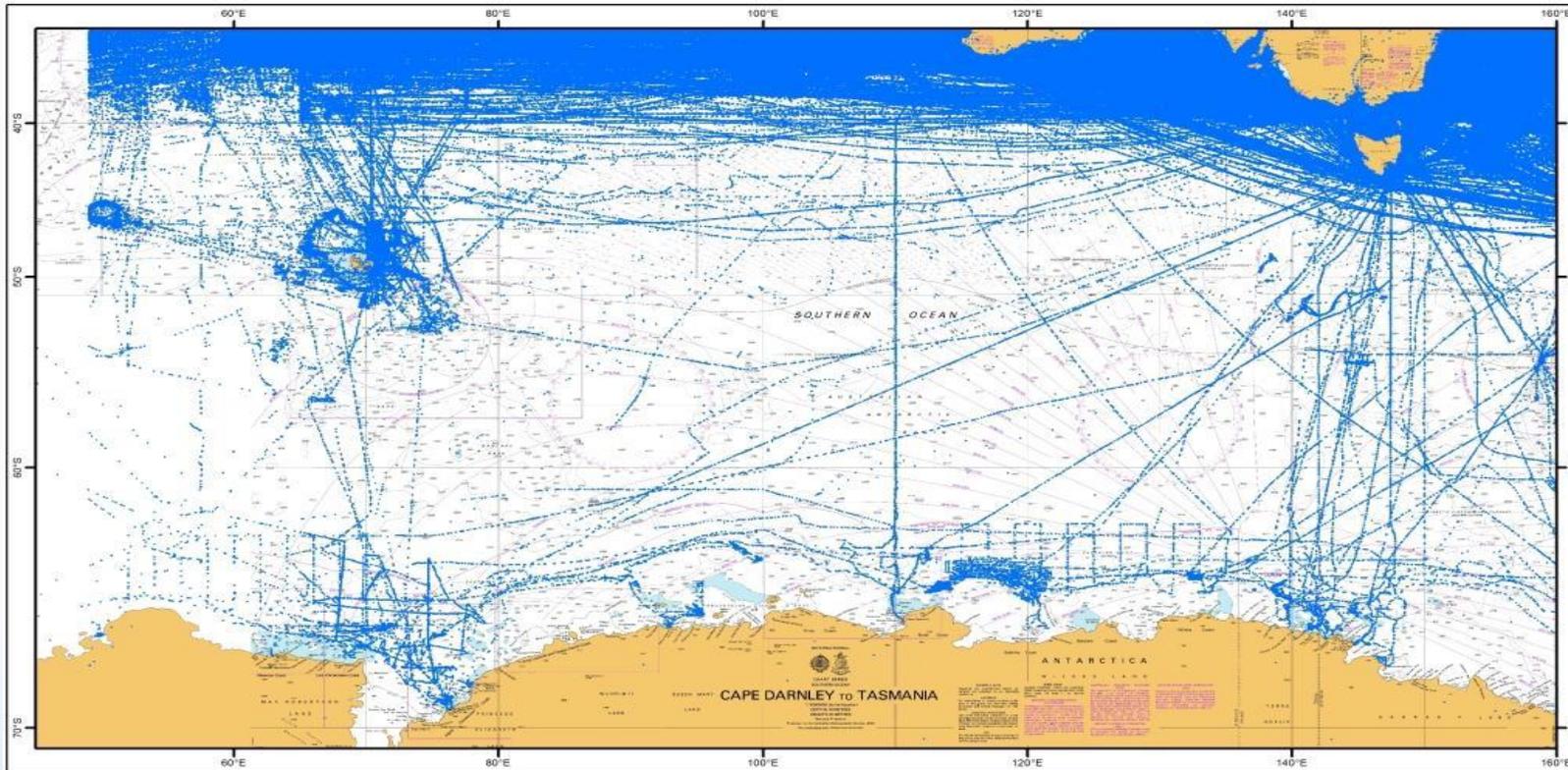
Planned Survey Activities 2018-19 and 2019-2020

- Primarily focussed on infrastructure surveys to support the new AAD icebreaker at Australian stations.
- Details still being developed with AAD.



Any other matters of relevance to HCA

- **Risk Assessment Tool** being developed (based on LINZ tool). Planned implementation early 2019. Antarctic risk scenarios to be developed using relevant spatial data themes – AIS, ZOC, survey age, depth areas, dangers, sensitive areas, etc.
- LINZ assessment of NZ sub Antarctica Area.



New Equipment

New GNSS tidal buoy system being trialled at Davis to provide some basic levelling data for the submerged pressure gauge.



Australia's new Antarctic science and resupply ship, *RSV Nuyina*

RSV Nuyina will include two multibeam bathymetric echo sounders (deep water and high resolution) for mapping the sea floor at full ocean depth.

A third multibeam echo sounder will be on a workboat for near shore work.

RSV Nuyina's first season of operation is expected to be 2020–21.



(Image: Damen/DMS Maritime/Knud E Hansen A/S)



Hull Damage of MV Ivan Papanin in Quilty Bay



Ivan Papanin near Bharati Station

Reported to ATCM May 2018

After discharging cargo and fuel at Bharati Station, Ivan Papanin sailed for Maitri, India Bay on 5 February 2018.

The vessel while negotiating through fast ice in Quilty Bay hit an underwater object, the details of which are not known and started taking water.

Next morning the vessel returned back to safe mooring location, off Bharati station.

As the producer of INT charts in the general area the AHO has not been formally provided position/details of the incident.

