



19th Conference of the IHO Hydrographic Commission on Antarctica

National Report (United States of America)

Agenda item 07.2Ax

HCA-19, Venice, Italy (hybrid), 15 – 18 April 2024

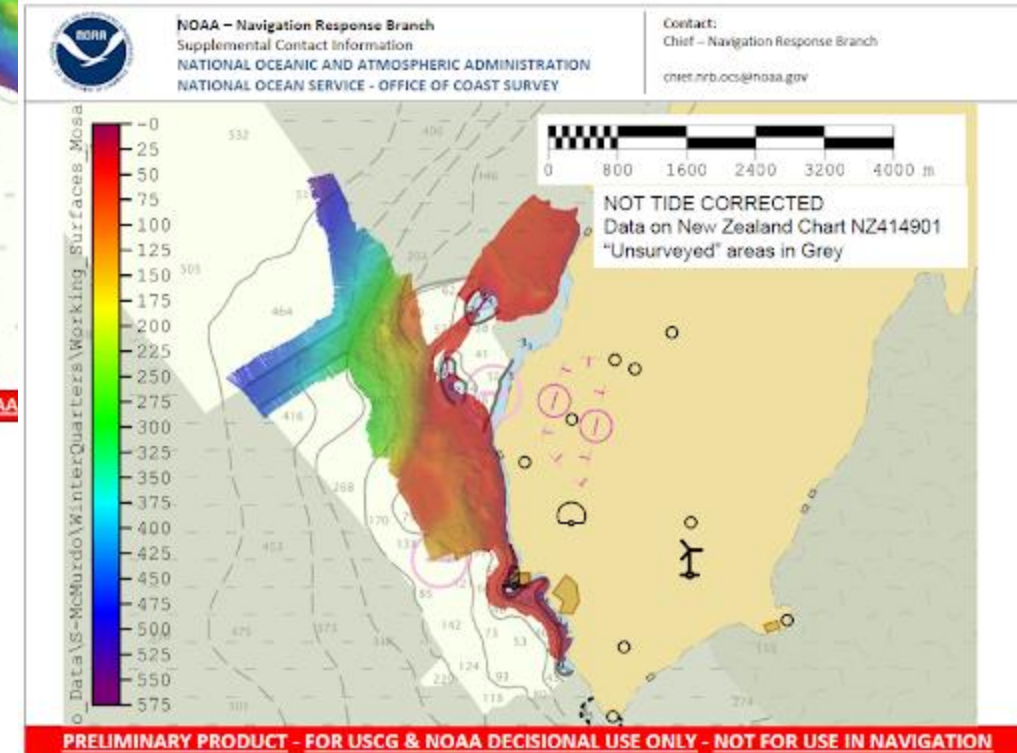
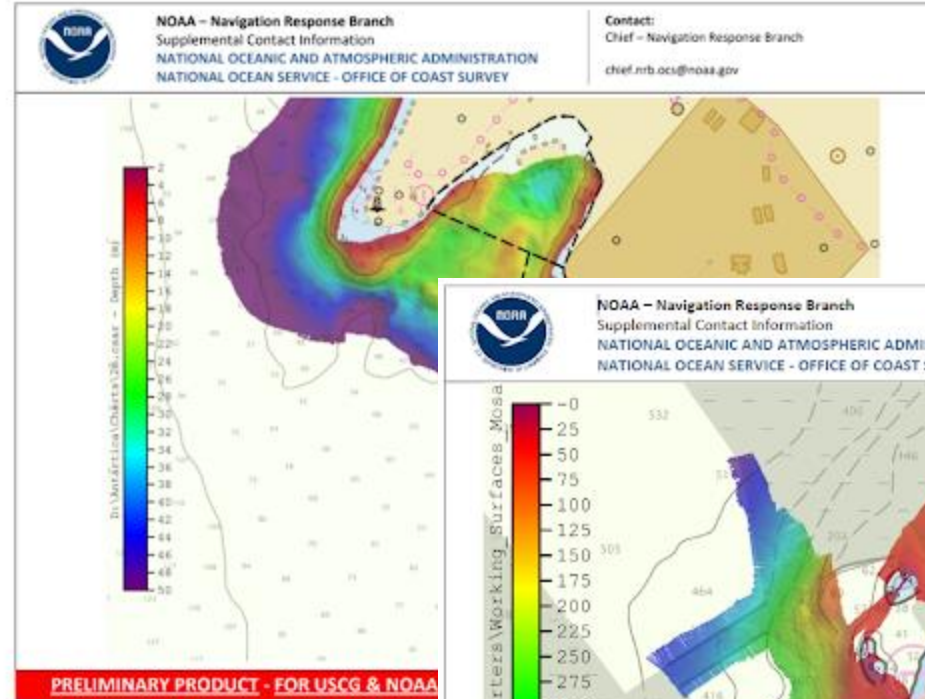


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Surveys and charting progress in Antarctica since HCA-18 (May 2022)

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- **Areas surveyed** - Approach to McMurdo Station data collected provided directly to the National Science Foundation, Land Information New Zealand, and the National Geospatial-Intelligence Agency. The data will also be publicly available via [NOAA's National Centers for Environmental Information](#).
- **New charts produced (INT, national, ENC)** - None planned. Existing ENC cells produced by US will be on a gridded format. Move from paper based to a grid-based format.



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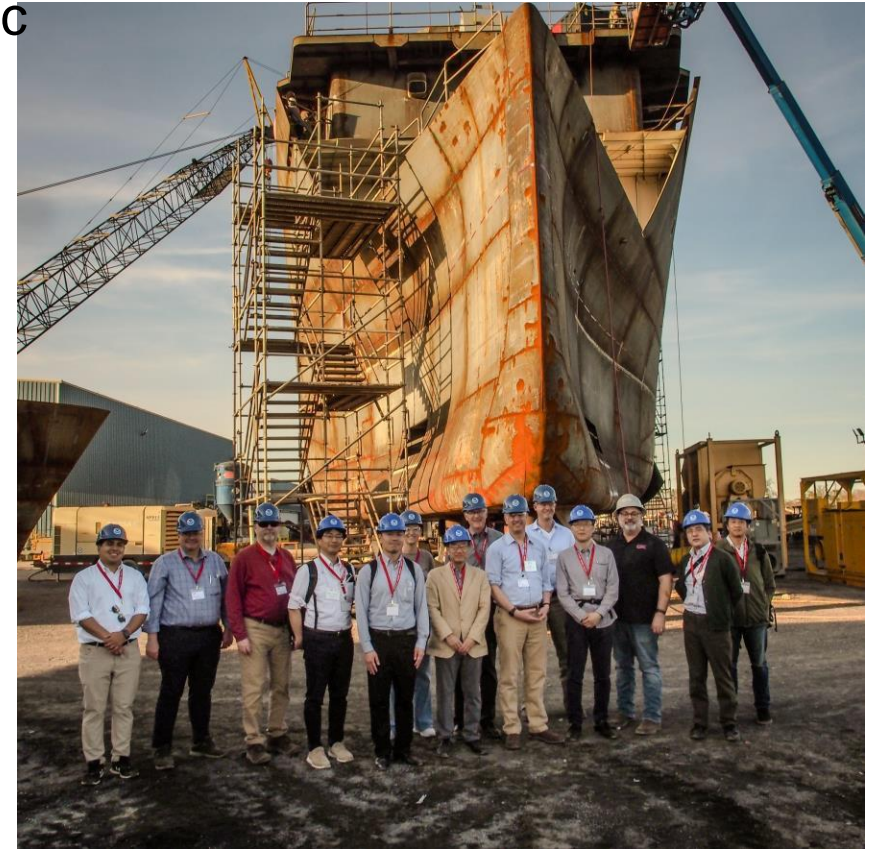
- Requirements identified – potential for ICE-Sat2
- New charts produced (INT, national, ENC) - Split ENC to grid
- Risk assessment studies – none in region
- Impact of ATCM Resolutions (such as ATCM42, Resolution 6 (2019) on surveys, data collection and sharing – US follows ATCM Resolution and provides
 - full resolution survey data to the IHO DCDB and coordinates directly with regional primary charting authorities (PCA) as needed.
 - NGA Antarctica PCA ENC data is publicly available and via RENCs and other value-added resellers
- Metadata forwarded to HCA HPWG / HCA GIS?
 - NGA and IHO DCDB are coordinating with HPWG



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Other matters of relevance to HCA, particular issues that may require HCA consideration and/or may need to be reported to IRCC

- New Ships
 - NOAA: 2 new Oceanographic 2025, 2 new Hydrographic 2028
 - Navy new T-AGS 60 Oceano/Hydrographic Survey vessel 2026
- Hydrographic Surveying
 - ICE-Sat2 can collect data in region
- ENC Gridding
 - NOAA re-gridding entire suite of S-57
 - NGA building global Grid of S-57 as first step in preparation for transition to S-100
- S-100 preparation
 - NOAA re-gridding entire suite of S-57
 - NOAA, NGA, Navy and USCG working with Industry to establish how to transform into S-100 framework





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Relations with Other Organizations

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- scientific and polar institutes - National Science Foundation (NSF), US Coast Guard, National Oceanic and Atmospheric Administration (NOAA)
- cruise vessels – none



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Planned Activities for 2024-2025

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- New surveys, coordination with other bodies - none planned
- New charts
 - NGA reviewing options to fill in ENC gaps, coordinated with the HPWG.
- Plans for a coordinated development of S-100 products and Electronic Navigational Data Services (ENDS) in the region* - request for Navy update regarding S-104 and S-111

*See WENDWG14 List of Decisions and Actions

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- Activities in relation to climate change
 - NSF has broad oversight of climate change research in Antarctica.
- Initial inputs for discussion under HCA-19 agenda item 8.1 (revision of the Strategic Plan in relation to HCA activities)
 - HCA Chair, Vice Chair and Secretariat proposal HCA19-08.1A
- Participation envisaged in ATCM-46, Kochi, India?
 - NGA is coordinating with US Dept of State on all hydrographic and marine geospatial issues in discussion.



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- Satellite Computed Bathymetry Assessment (SCuBA)
 - NASA ATL03 ICESat-2 data improved processing methodologies
- Updated World Magnetic Model and WGS84 reference frame
 - https://www.nga.mil/news/World_Magnetic_Model_Makes_Modern_Precision_Navigation.html
- Grand Challenge to forecast industrial fishing – including the detection of illicit activity to support endorsement and prosecution of illegal, unreported and unregulated fishing (IUU).

