

19th Conference of the IHO Hydrographic Commission on Antarctica

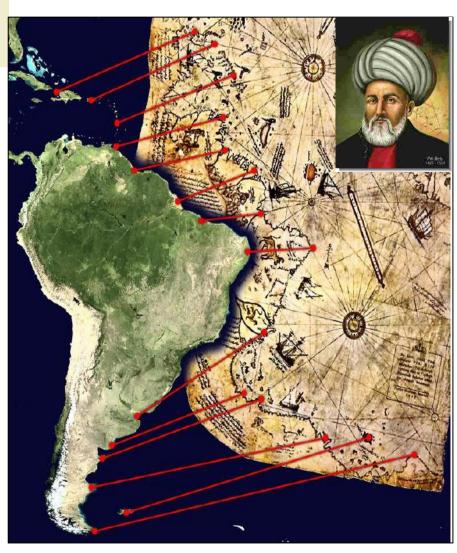
National Report (Türkiye)

Agenda item 07.2A



IHO History

International Hydrographic Organization



*Türkiye's affairs with polar regions date back to the mapping of the South America coasts, which are the nearest territories to the Antarctic in the world map, by Piri Reis in the 16th century (1513).

*Prof.Dr.Atok Karaali is the first Turkish scientist that did researches in Antarctica in 1967.

*Under the auspices of the Presidency of the Republic of Türkiye, with the support and financing of the Ministry of Industry and Technology and under the coordination of ITU PolReC; national scientific expeditions were conducted to the Antarctic in 2017, 2018 and 2019.

*Polar Research Institute (KARE) was established in 2019 within The Scientific and Technological Research Council of Türkiye (TÜBİTAK) Marmara Research Center (MAM) to ensure the coordination and logistics of the future national polar expeditions.

*Until today 8 national expeditions have been conducted so far.



HCA-19, Venice, Italy, 15 – 18 April 2024



IHO

History

International Hydrographic Organization

- *Türkiye ratified the Antarctic Treaty on 24 January 1996.
- *Türkiye acceded to "Regulation on the Implementation of Protocol on Environmental Protection to the Antarctic Treaty" on 13 June 2020.
- *Türkiye became the member of HCA with the official signature of the HCA Statute during the 3rd Session of the Assembly on 04 May 2023.









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

International Hydrographic Organization

- *Surveying the Lystad Bay/Horseshoe Island/West Antarctic Peninsula where Turkish Research Camp was established is crucial for;
 - -supporting logistics for bringing equipments that we need,
 - -anchoring in the bay to stay away from strong winds,
 - -providing modern multibeam echosounder data for safety of navigation in the white continent,
- -conducting polar expeditions to increase scientific studies in these regions.



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International Hydrographic Organization Involvement of Office of Navigation, Hydrography and Oceanography (ONHO) in Turkish Antarctic Expeditions (2018,2019,2020,2022,2023)



07 Mar-24 Apr 2018



25 Jan-10 Mar 2019



08 Feb-20 Mar 2020



22 Jan-15 Mar 2022



30 Jan-04 Mar 2023

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International Hydrographic Organization Involvement of ONHO in Turkish Antarctic Expeditions (27 Jan- 02 Mar 2024)

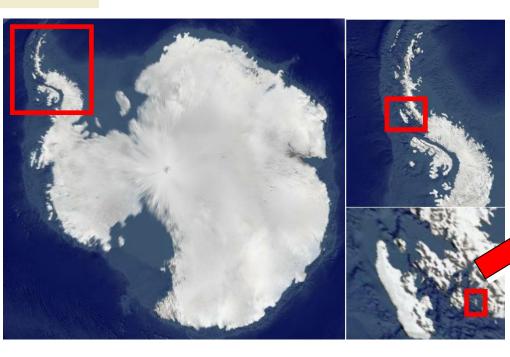




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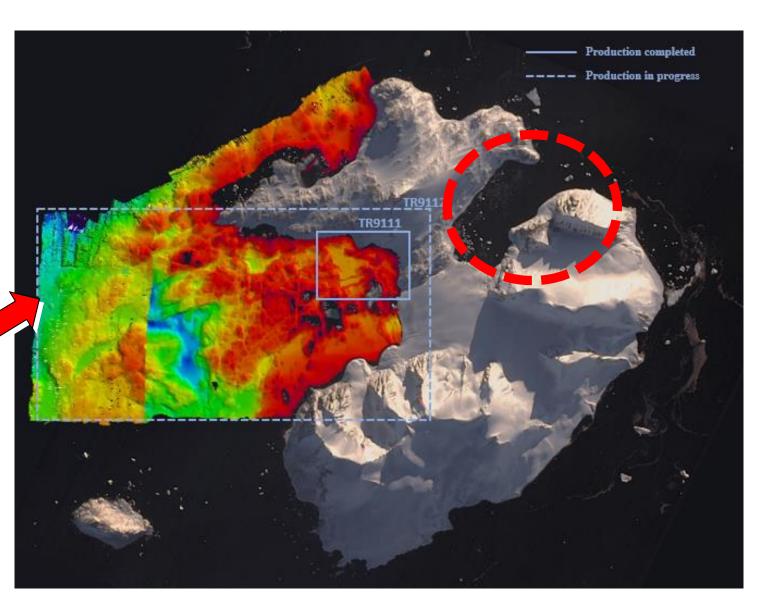


International Hydrographic Organization



*For Lystad Bay, we plan to produce INT chart.

*We may conduct hydrographic survey in Gaul Cove next year.

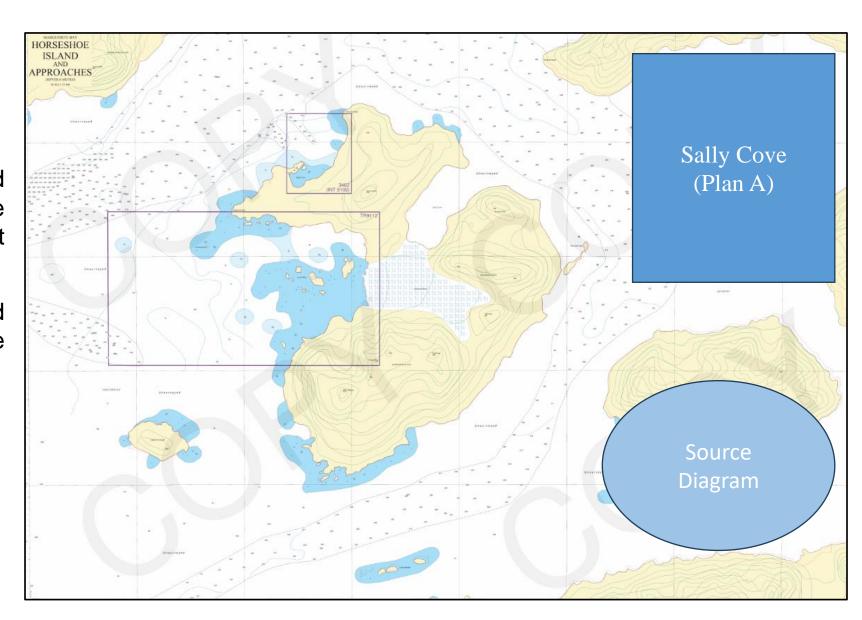




International Hydrographic Organization

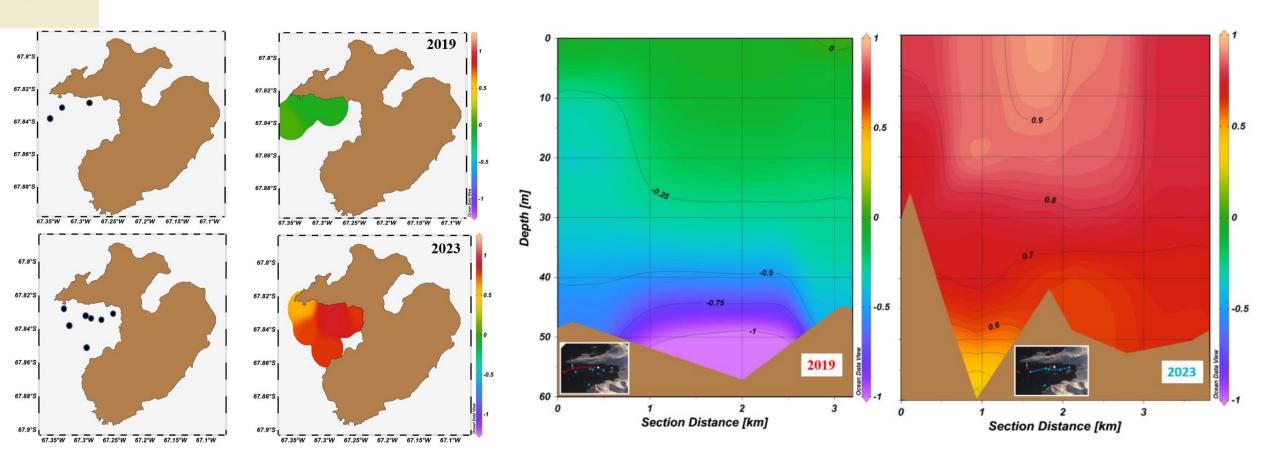
*For Horseshoe Island and Approaches Concept Chart, we suggest to procude this chart together with UK (co-production).

*We could produce Plan A and provide data we have to produce this chart.





International Hydrographic Organization

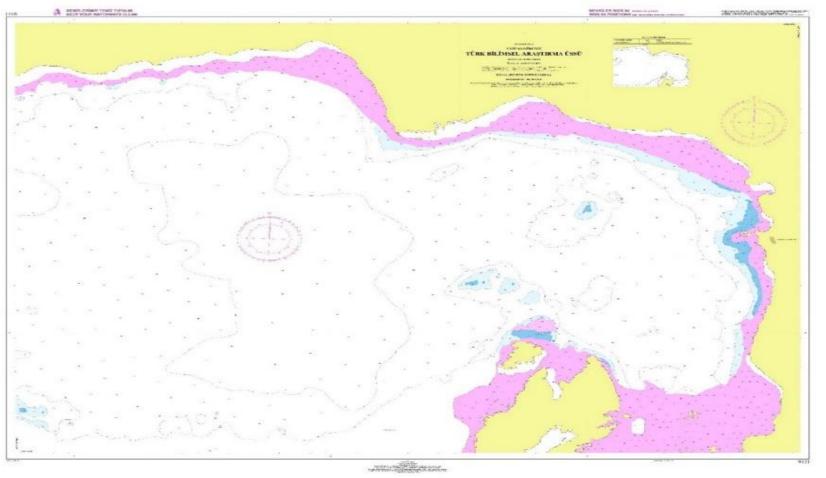


*Besides bathymetric data, oceanographic data (temperature, salinity etc.) are also collected during the expedition for understanding climate change in the region.



Surveys and charting progress in Antarctica since HCA-18 (May 2022) - New charts produced (INT, national, ENC)

International Hydrographic Organization TR9111 (National), TR9112 (INTERNATIONAL – in progress)



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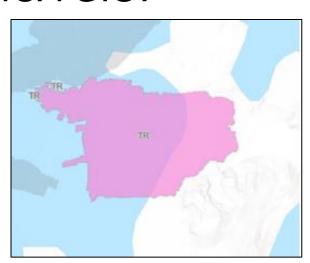
Surveys and charting progress in Antarctica since HCA-18 (May 2022)

Impact of ATCM Resolutions (such as ATCM42, Resolution 6 (2019) on surveys, data collection and sharing

- *We are working in close collaboration with UKHO.
- *Türkiye continues to work to improve international survey collaboration and monitor survey priorities.

Metadata forwarded to HCA HPWG / HCA GIS?

*HCA GIS was updated in October 2023.





Relations with Other Organizations

International Hydrographic Organization





*TÜBİTAK MAM KARE is 'Türkiye's National Antarctic Program Operator' for Antarctic research and operations.

*ONHO works in close collaboration with TÜBİTAK MAM KARE to collect oceanographic and hydrographic data.

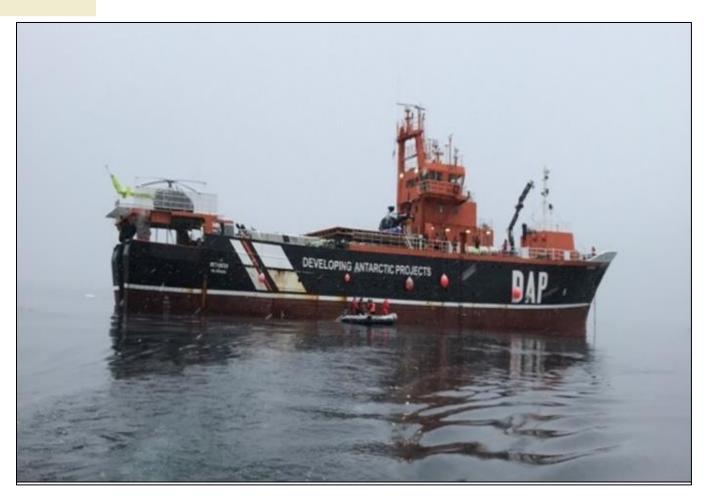
*Sea level measurements of Rothera Station Tide Gauge (UK) are used since it was the closest station to the bay.

*Türkiye has joined several polar organizations (the Scientific Committee on Antarctic Research (SCAR) and the Council of Managers of National Antarctic Programs (COMNAP)) and has developed scientific and logistical collaborations with many nations.

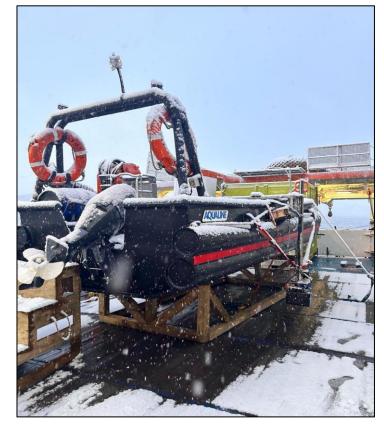


Relations with Other Organizations Cruise vessels

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- R/V BETANZOS (Chile flagged)
- Rigit boat



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IHO Planned Activities for 2024-2025

International Hydrographic Organization





*Every year, National Polar Science Workshop & Polar Sciences Education and Outreach Festival and National Antarctic Expedition are organized by TÜBİTAK MAM KARE.

*Our Office is working with TÜBİTAK MAM KARE in order to determine priorities in hydrography for following expedition.

*National Polar Strategy (2023-2035) document is prepared by TÜBİTAK Turkish Management Sciences Institute (TÜSSİDE).



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



Recommendations, Actions to be considered by HCA:

- Note the report,
- Note the visibility of Türkiye's data in the HCA GIS,
- Note Türkiye is open to collaborations in accordance with the survey requests/needs of Members States,
- Türkiye is ready and volunteer to produce «Chart of Sally Cove» by expanding the boundaries of this chart with respect to availability of high resolution MBE data (also ready for coproduction with UK),
- Türkiye and UK could produce «Chart of *Horseshoe Island & Approaches*» together (co-production).
- Draft version of the new INT charts produced by Türkiye will be provided to Region M coordinator in accordance with S11 Annex A.