



18th Conference
of the
IHO Hydrographic Commission on Antarctica

National Report by Brazil

Agenda item 07.2A

HCA-18, Berlin, Germany (hybrid), 24 – 26 May 2022



IHO

Surveys and charting progress in Antarctica since HCA-17

International
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- Brazilian Antarctic campaign: OPERANTAR XL (2021-2022)
- Bathymetric surveys south of King George Island in the Bransfield Strait, in the region for the planned INT Charts 9151 and 9152 (scale 1:200,000).



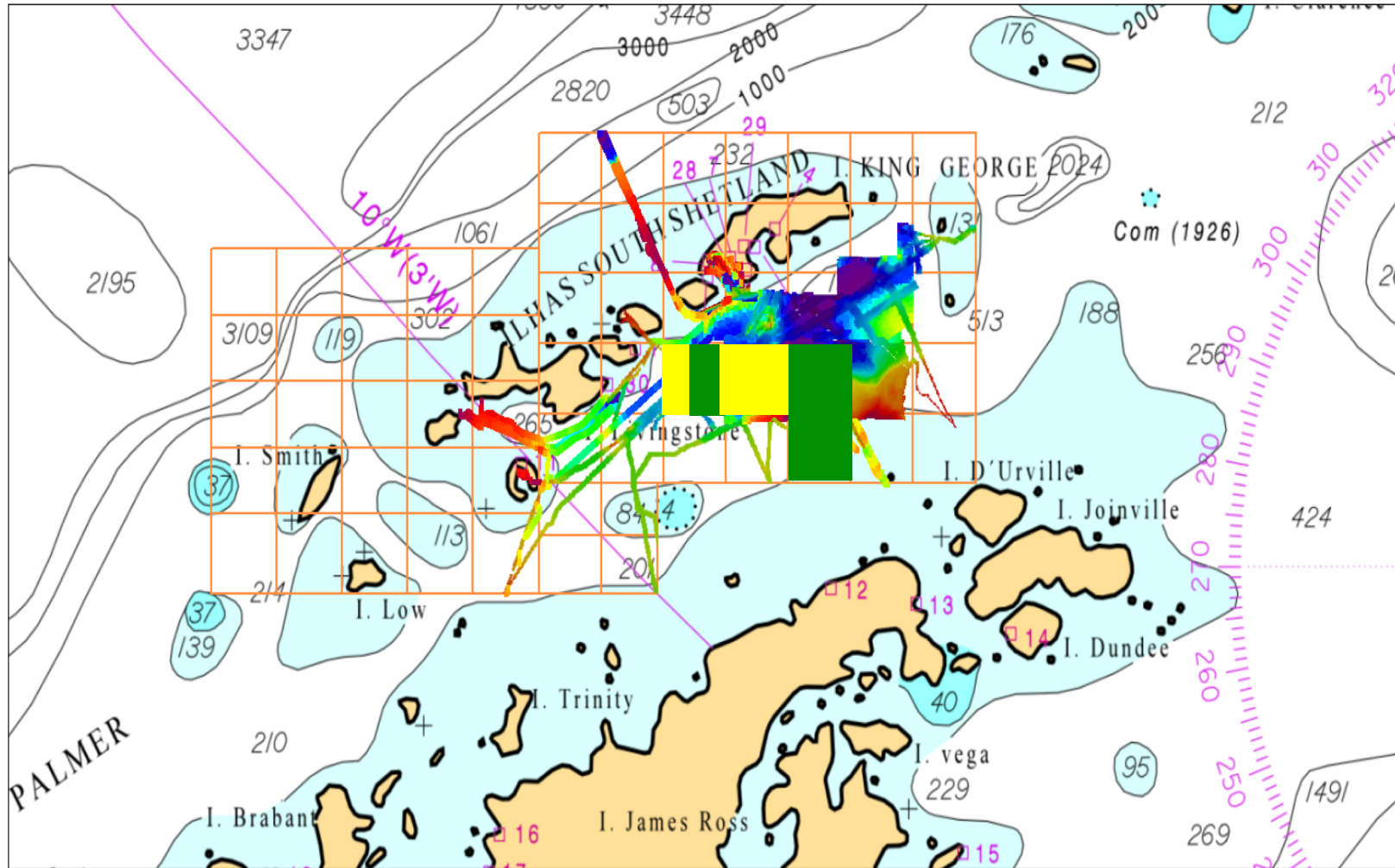
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Areas in **yellow**:
Surveyed in the
2020-2021 campaign

Areas in **green**:
Surveyed in the last
campaign from Oct
2021 to Mar 2022

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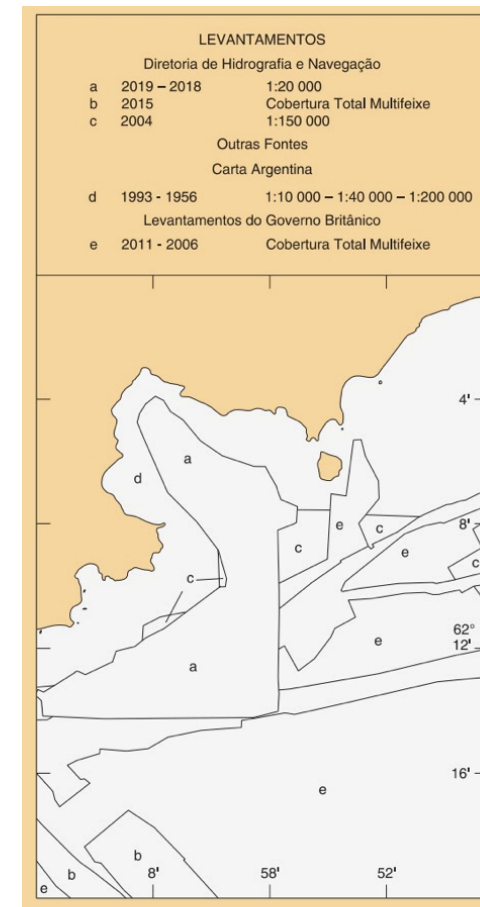
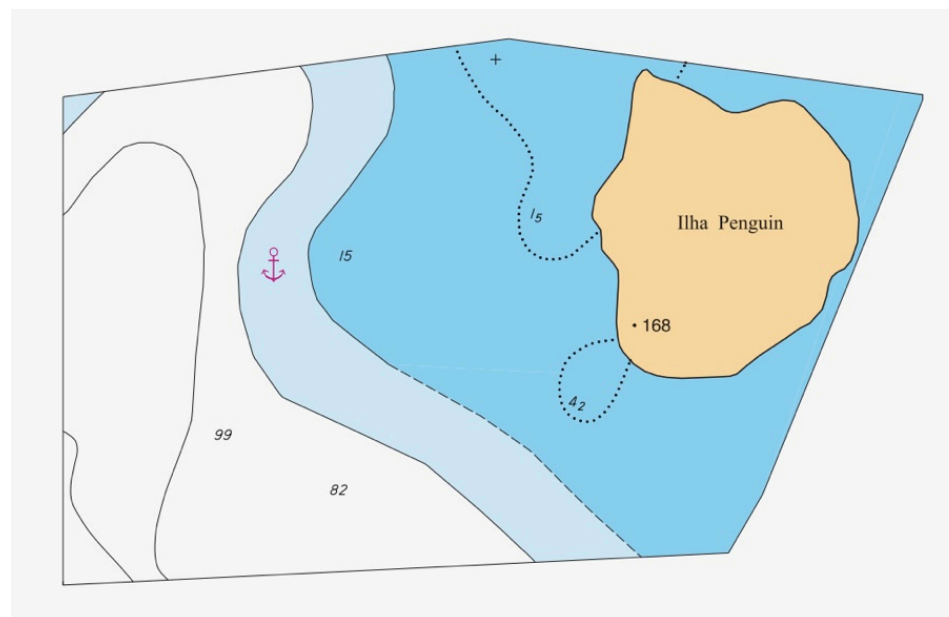
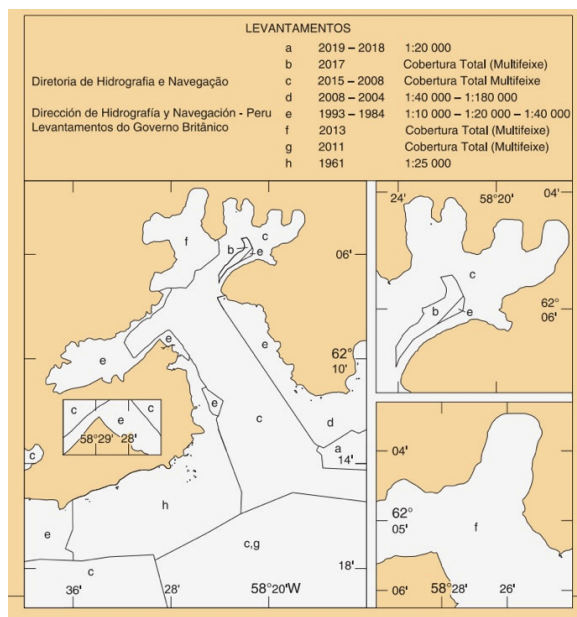
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In February 2022, the following nautical charts were updated:

- INT Chart 9126 (25120)
- INT Chart 9125 (25121)
- ENC cell BR425120
- ENC cell BR425121



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Relations with Other Organizations

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- Scientific and polar institutes: Inter-ministerial Commission for the Marine Resources (CIRM) that coordinates the Brazilian Antarctic Program (PROANTAR).
- Hydrographic data received from other organizations: DHN/PE and UKHO.
- Hydrographic data provided to other primary charting authorities and/or GEBCO: SHOA/CL and GEBCO.
- Cruise vessels: currently, the Brazilian Navy has two polar vessels, operated by the Directorate of Hydrography and Navigation. Brazil will build a new polar vessel that is expected to make its first Antarctic campaign in the 2025-2026 campaign.



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Relations with Other Organizations

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Current Brazilian Navy Polar Vessels



“Almirante Maximiano” and “Ary Rongel”

New Brazilian Navy Polar Vessel (2024)



Hydrographic Equipment:

Deep water MBES (range 3,600m)

Deep water SBES (range 10,000m)

DGNSS receptor

Motion Reference Unit (MRU)

Moving Vessel Profiler (MVP)

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IHO Planned Activities for 2022-2023

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Planned for the Brazilian Antarctic campaign OPERANTAR XLI (2022-2023) to conduct a feature search in the vicinity of a shoal southeast of Livingstone Island in the Bransfield Strait.



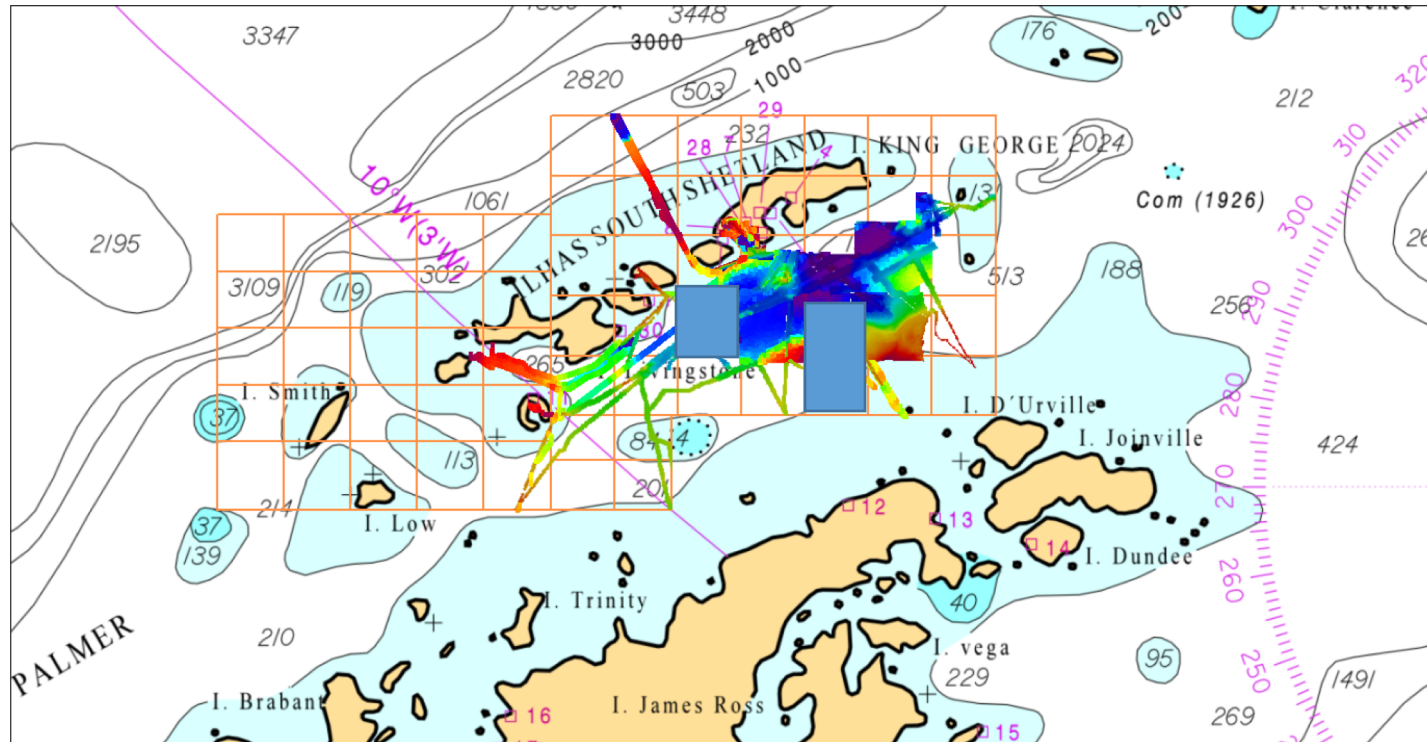
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IHO Planned Activities for 2022-2023

International Hydrographic Organization

In the coming campaigns, the Brazilian Navy polar vessels “Almirante Maximiano” and “Ary Rongel” will continue to carry out bathymetric surveys in the Bransfield Strait to support the production of the planned INT Charts 9151 and 9152.



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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 A-3 (3-year IHO Work Programme, IHO Strategic Plan,...)

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Brazilian Paper Nautical Chart

<https://cartasnauticasbrasil.com.br/cartas-nauticas-geral/cartas-nauticas-2.html>

Brazilian RNCs are freely available in BSB and GeoTIFF formats:

<https://www.marinha.mil.br/chm/dados-do-segnav/cartas-raster>

Brazilian ENCs are available through:

- RENC IC-ENC (www.ic-enc.org); or
- VAR EMGEPRON (www.cartasnauticasbrasil.com.br/geoportal/web/niceindex.html).



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Thank you!

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