



18th Conference of the IHO Hydrographic Commission on Antarctica

National Report by Italy (IIM)

Agenda item 07.2j

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



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Surveys and charting progress in Antarctica since HCA-17 (June 2021)

International
Hydrographic
Organization

Previously survey in Antarctica with Italian National Program (PNRA):
2013 and R/V Italice;

- Singlebeam survey
- Last survey 01/2016

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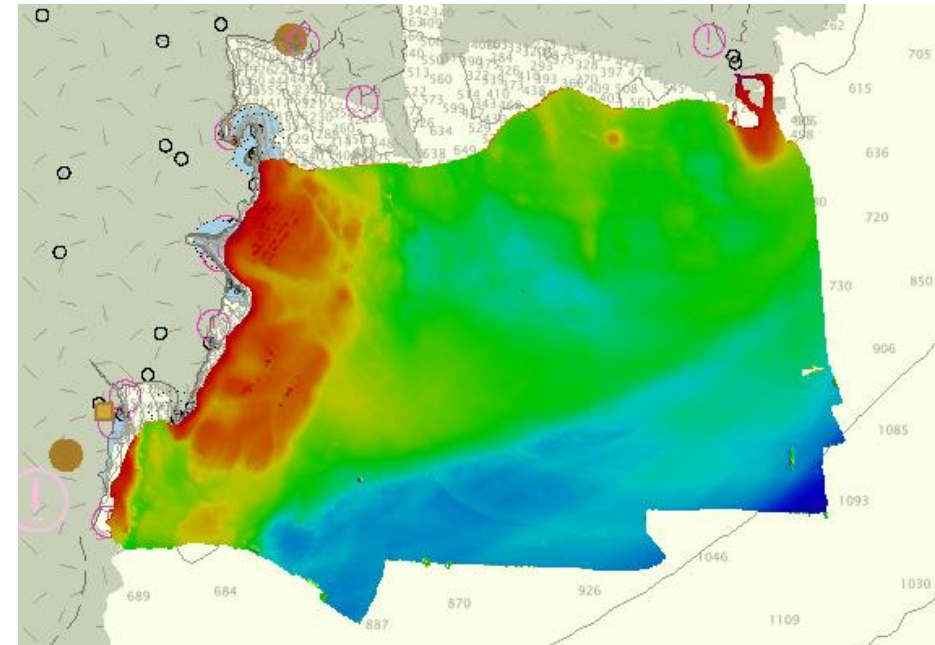
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Surveys and charting progress in Antarctica since HCA-17 (June 2021)

International
Hydrographic
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Survey in December 2021 in Ross Sea with RV Laura Bassi

- Kongsberg EM 304 MBES
- 4 days survey operation;
- ENC IT 400881 and IT 300884
- Surveyed all the ice free area;
- Survey from 100m to 900m;



- Tidal data from a tidal gauge installed near the Mario Zucchelli station by CNR (National Research Council)



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Surveys and charting progress in Antarctica since HCA-17 (June 2021)

International
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Italian Polar research and Logistic Icebreaker *Laura Bassi*

- 80 m long, 17 m large, PC5 Class A icebreaker
- National Institute of Oceanography and Applied Geophysics & National Program for Research in Antarctica
- accommodation for 50 scientific,
- Multibeam full ocean depth e shallow water
- Sub Bottom Profiler ADCP
- No deployable ES



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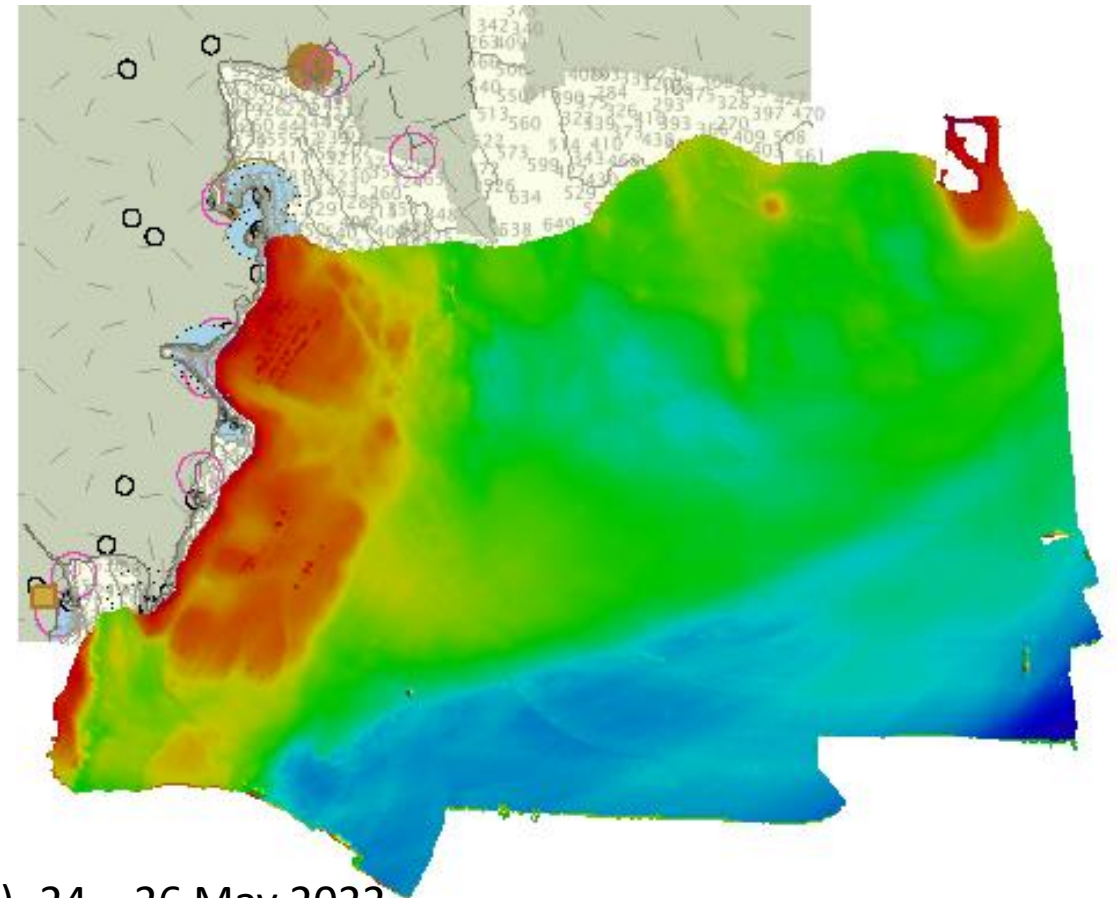


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Surveys and charting progress in Antarctica since HCA-17 (June 2021)

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- No new chart
- Data collect for updating/new chart IT400881
- Data will be sent to PNRA for Update of the INSPIRE DB



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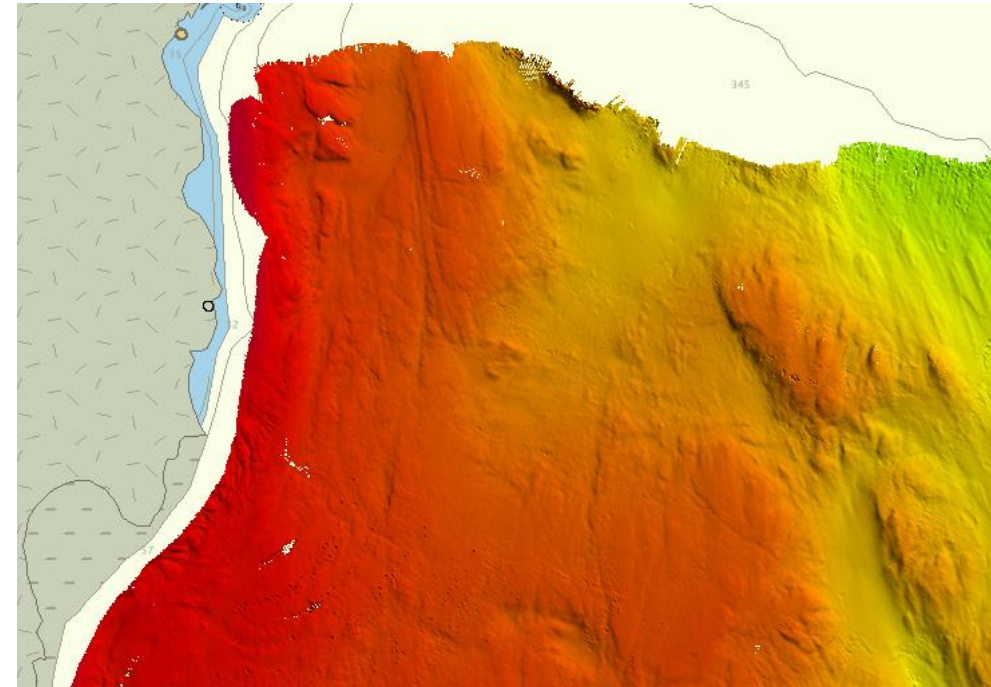
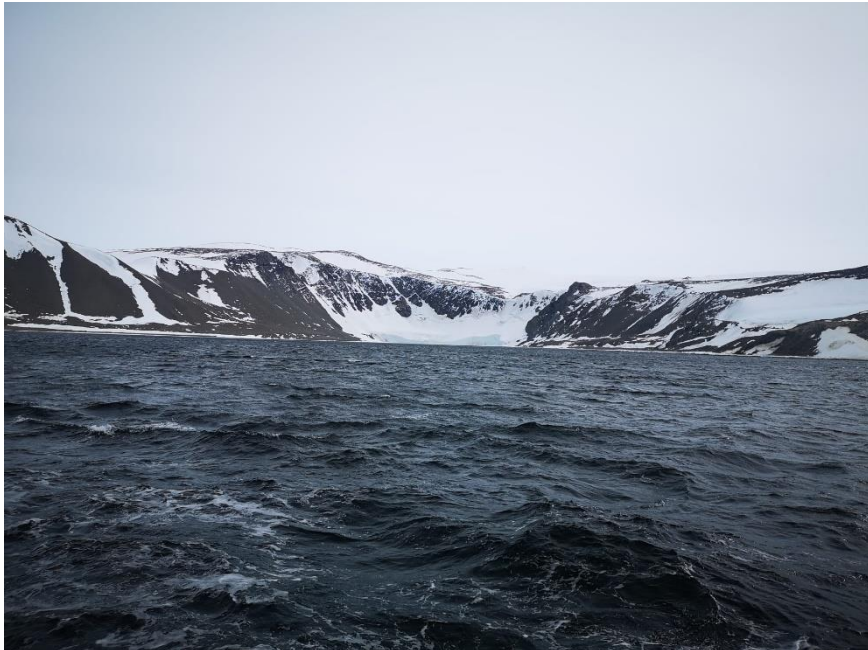
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Relations with Other Organizations

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- Cooperation and coordination with PNRA, CNR, OGS
- Tide level received from the CNR
- Cooperation in Transiti Project for the GEBCO update

- Course on Antarctic Navigation (Chile)



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Relations with Other Organizations

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- Hydrographic data received from other organizations
Waiting for OGS and CNR survey data
- Hydrographic data provided to other primary charting authorities and/or GEBCO
 - IIM hydrographic data (soundings, DTM) will be shared with The PNRA (Italian National Research Antarctic Program) and available under open data licences

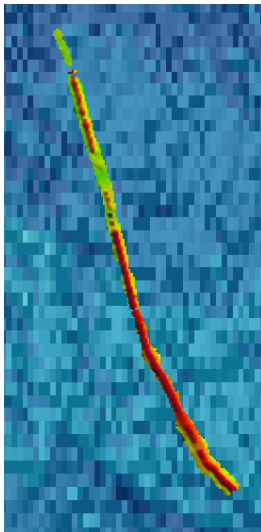


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Planned Activities for 2022-2023

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Organization

- New IT 400881 chart
- Shallow water survey near Mario Zucchelli station with a deployable system
- Thetis bay survey in cooperation with CNR (National Research Council) (Disgeli Project)
- Large scale Survey in cooperation with OGS (Transiti Project) for the GEBCO update



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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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- **Activity IHO WG and Committee:**

HSSC, MBSHC, S100WG, ENCWG, NCWG, NIPWG, DQWG, TWCWG, HDWG, ABLOS, IRCC,HCA, CBSCWG, WENDWG, MSDIWG, IENWG, CSBWG, IBSC, GEBCO-SCUFN

- **Cooperation with other HOs in Antarctica (tbc)**

Year	Activities	Nation
2022	Course on Antarctic Navigation	CHILE
2022	Course on Antarctic Navigation	ARGENTINA