



19th Conference of the IHO Hydrographic Commission on Antarctica

National Report (CHILE)

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



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- New surveys, coordination with other bodies
- New charts
- Plans for a coordinated development of S-100 products and Electronic Navigational Data Services (ENDS) in the region*

Other matters

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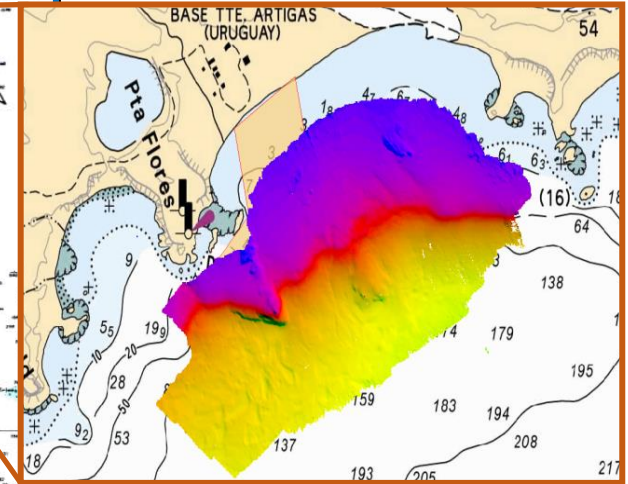
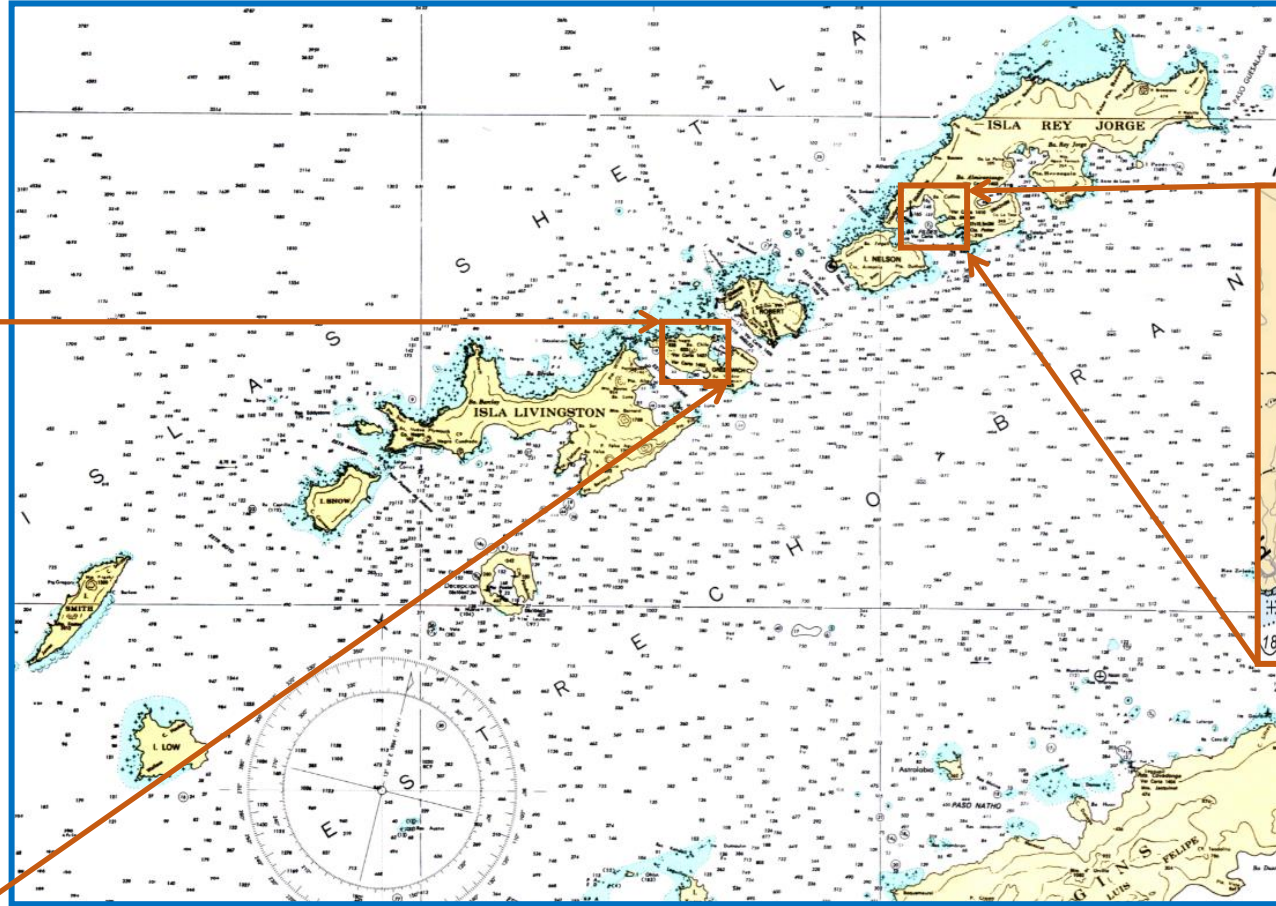
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Surveys and charting progress in Antarctica since HCA-18 (May 2022)

- Areas surveyed

The diagram shows the surveys carried out by Chile in Antarctica. First campaign year 2023.

Hydrographic survey of Bahía Chile performed in **March 2023**.
CHART INT 9122
“Bahía Chile, Puerto Soberanía, Ensenadas Rojas e Iquique”
(Discovery Bay)



Hydrographic survey of Bahía Fildes, Base Artigas, performed in **March 2023**.
CHART INT 9124
“Bahía Fildes”

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

- Areas surveyed

The diagram shows the surveys carried out by Chile in Antarctica. Second campaign year 2024.

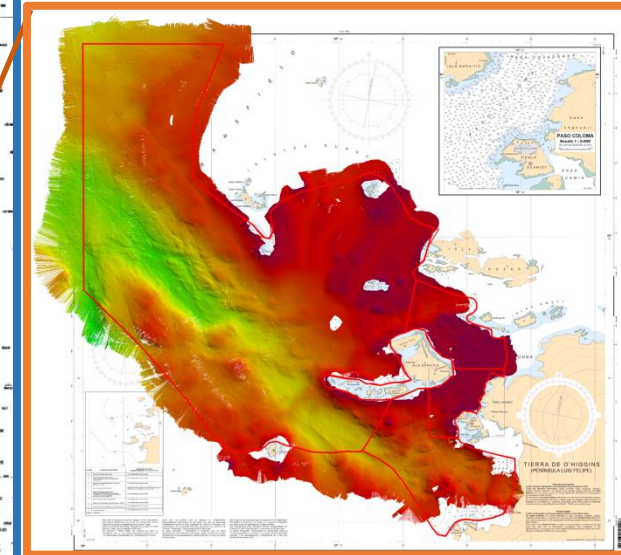
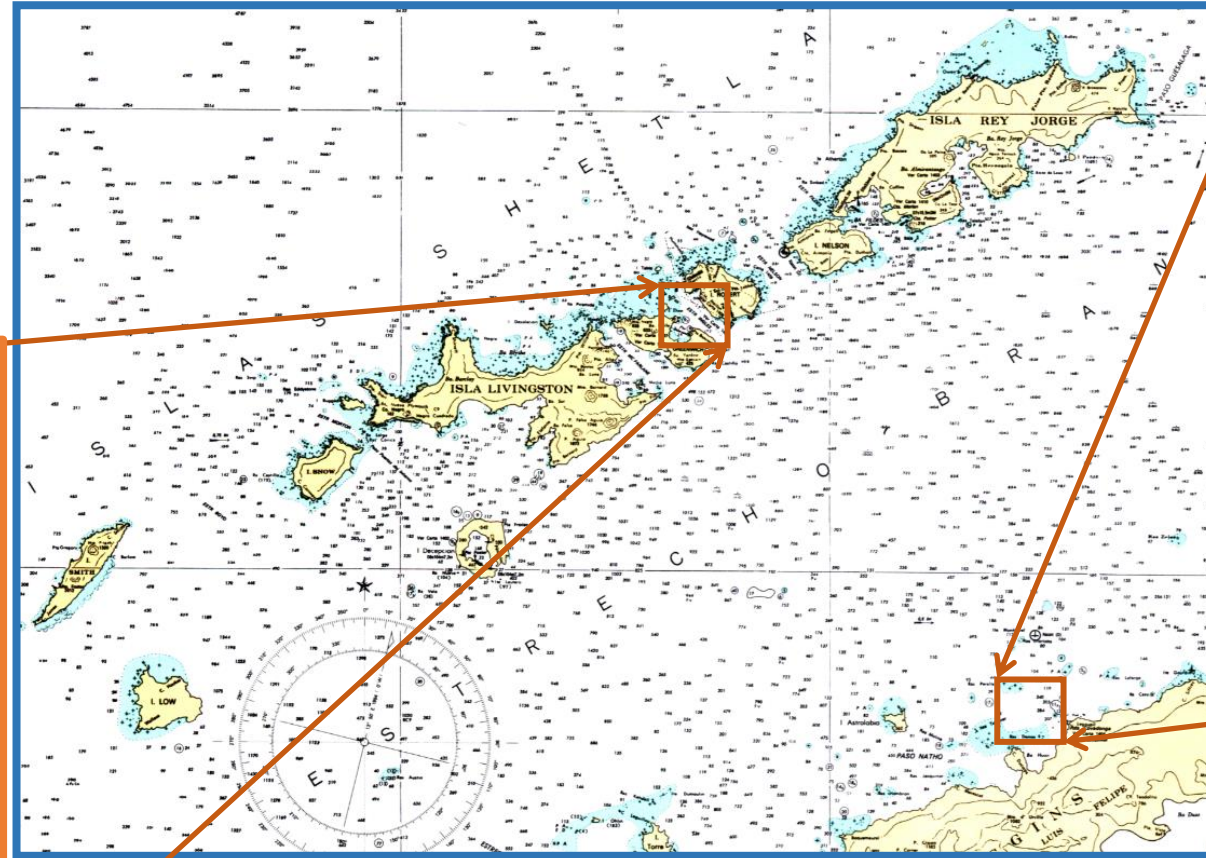
International Hydrographic Organization

Hydrographic survey of Bahía Chile performed in **March 2024**.

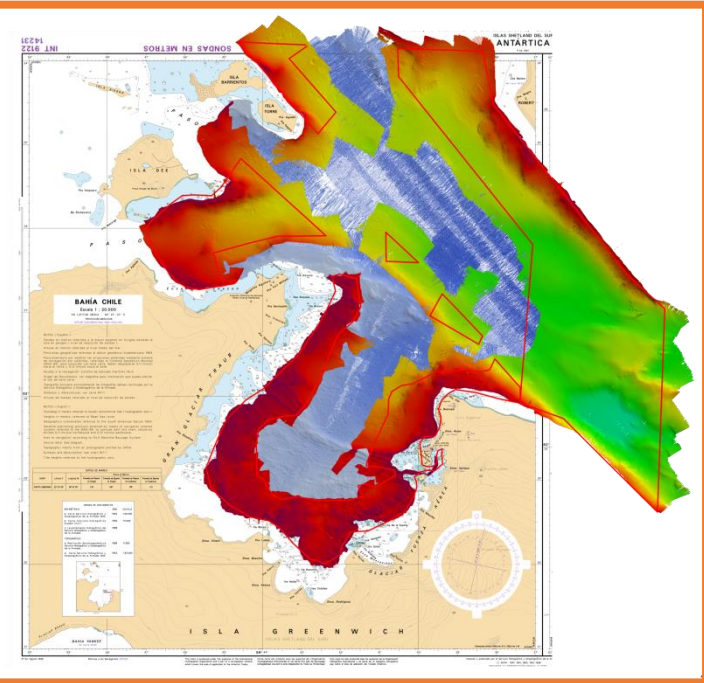
CHART INT 9122

“Bahía Chile, Puerto Soberanía, Ensenadas Rojas e Iquique” (Discovery Bay)

Hydrographic survey of Rada Covadonga performed in **March 2024**.



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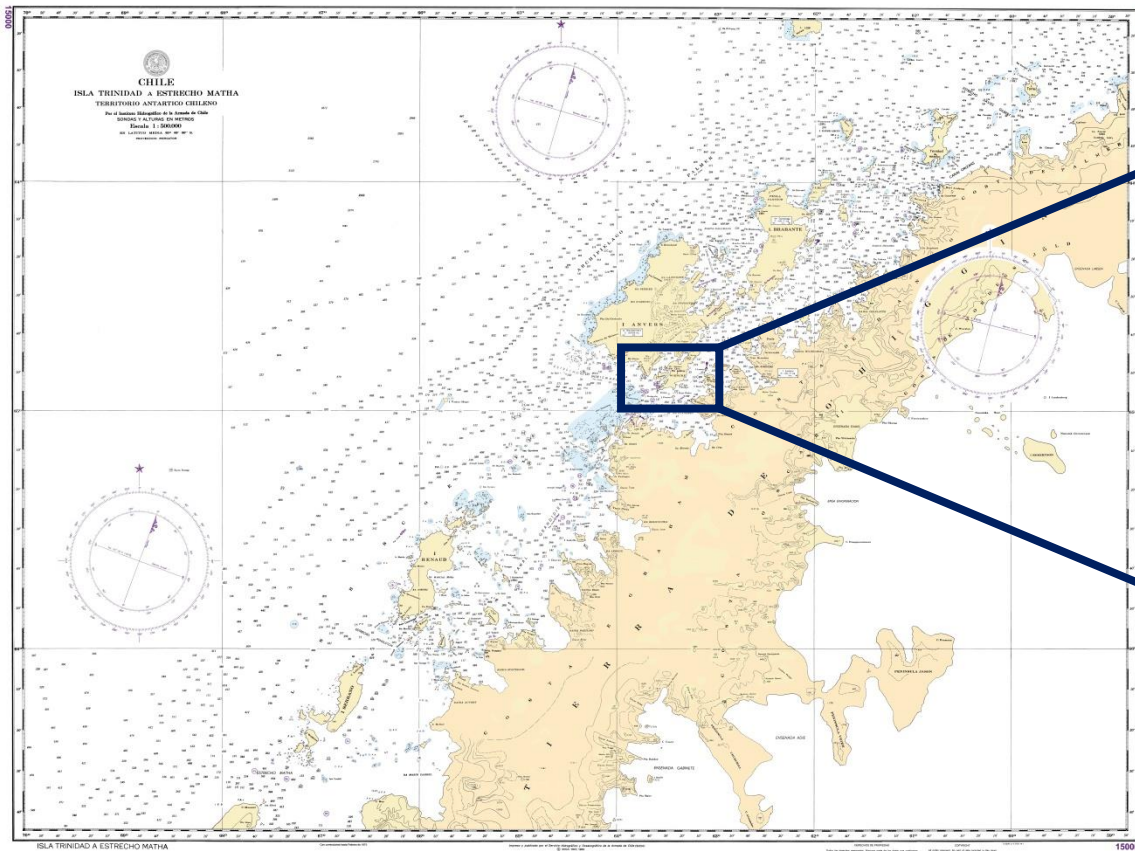
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Surveys and charting progress in Antarctica since HCA-18 (May 2022)

- New charts produced (INT, national, ENC)

International Hydrographic Organization

OVERVIEW



SHOA CHART N° 15000 "Isla Trinidad a Estrecho Matha"

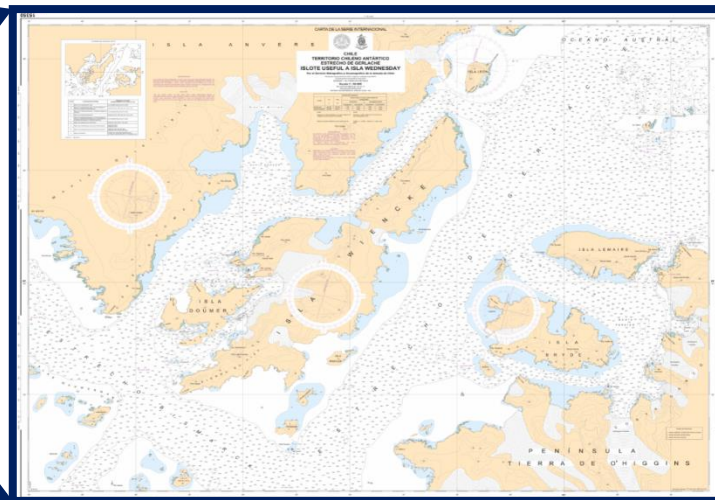


CHART INT 9104
"Islote Useful a Isla Wednesday"

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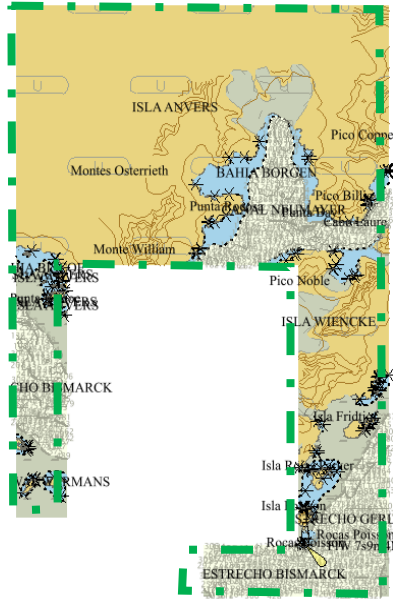
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Surveys and charting progress in Antarctica since HCA-18 (May 2022)

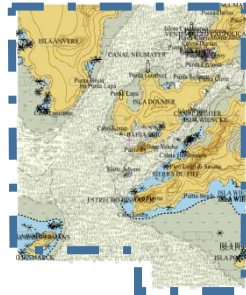
- New charts produced (INT, national, ENC)

International Hydrographic Organization

ENC published at 2018



CL4MA960
NEW CELL

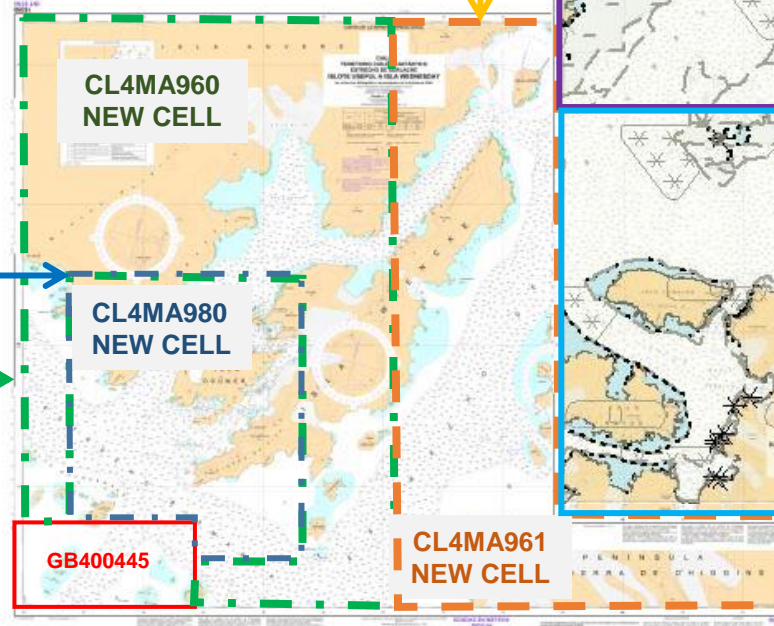


CL4MA980
NEW CELL



CL4MA961
NEW CELL

CHART INT 9104
"Islote Useful a Isla
Wednesday" Ed.2019

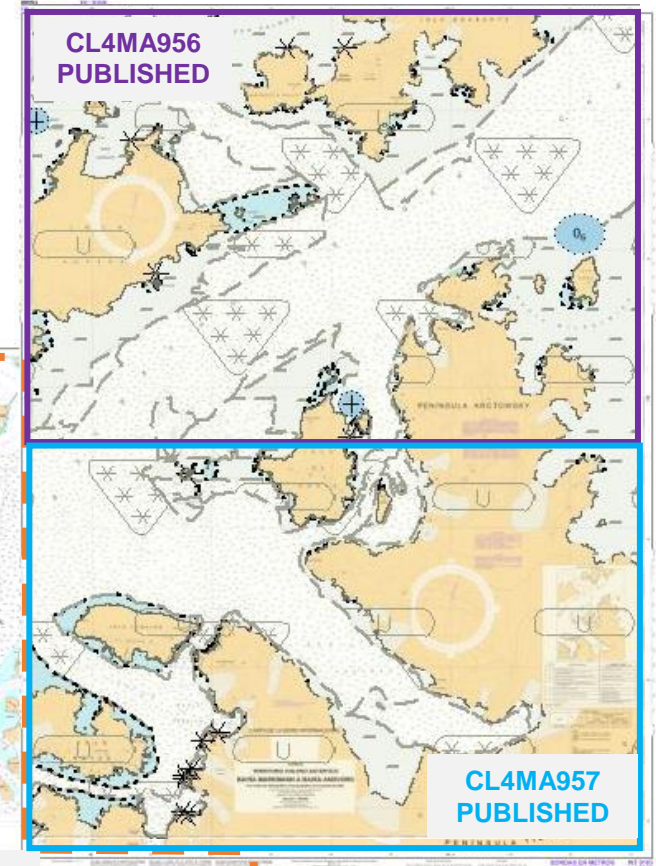


CL4MA960
NEW CELL

CL4MA980
NEW CELL

GB400445

CL4MA961
NEW CELL



CL4MA956
PUBLISHED

CL4MA957
PUBLISHED

CHART INT 9103
"Bahía Markmann a
Bahía Andvord" Ed. 2017

New ENC will be publish in june 2024

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

International
Hydrographic
Organization

- Impact of Antarctic Treaty Consultative Meeting (ATCM) Resolutions (such as ATCM42, Resolution 6 (2019) on surveys, data collection and sharing)

Chile has been diligently implementing the directives outlined in Resolution No. 6 of the ATCM meeting convened in 2019. This includes actively exchanging own data and also requiring available bathymetric information from other HCA Members States. This coordinated approach aims to optimize chart production and prevent redundancy in order to ensure the optimal use of resources during hydrographic survey.

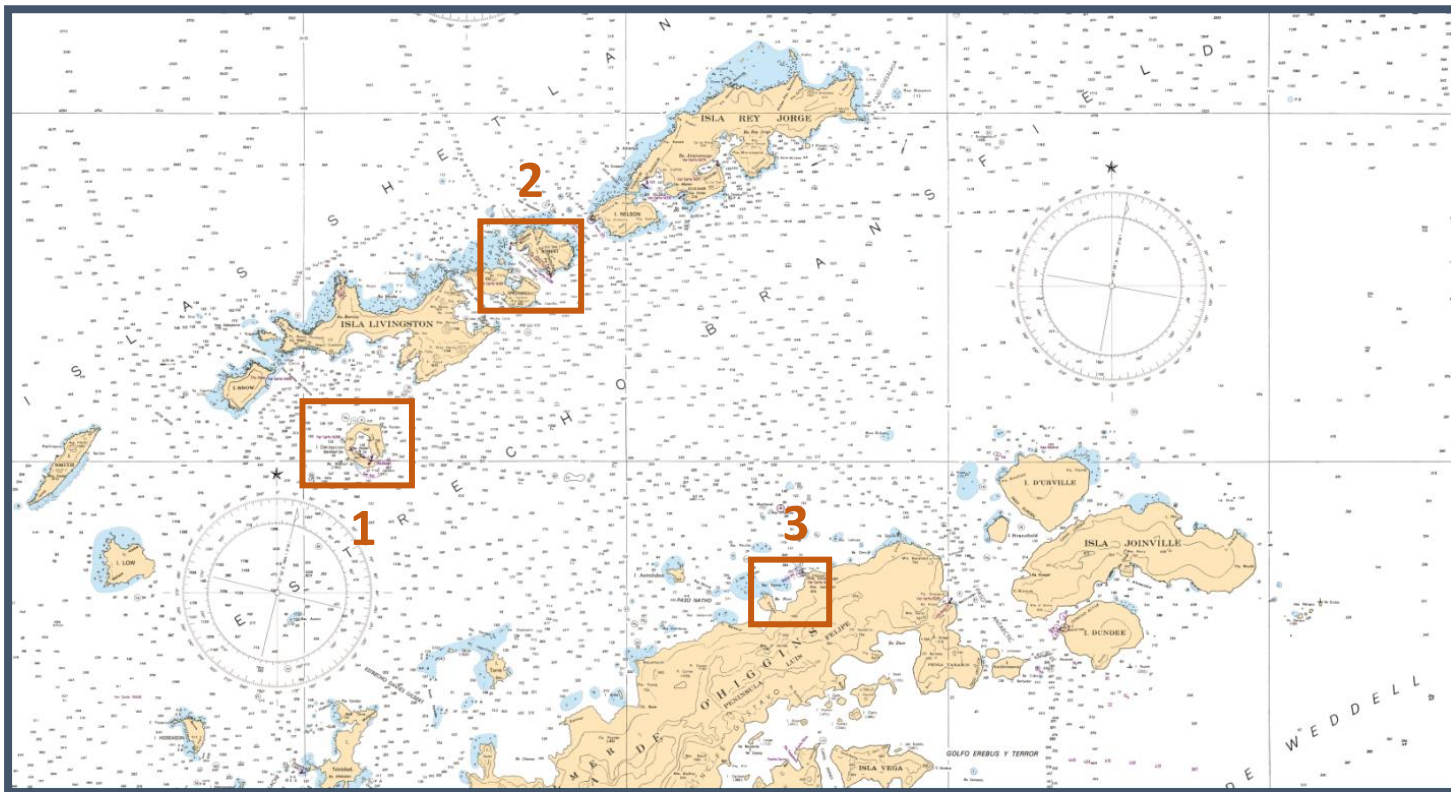


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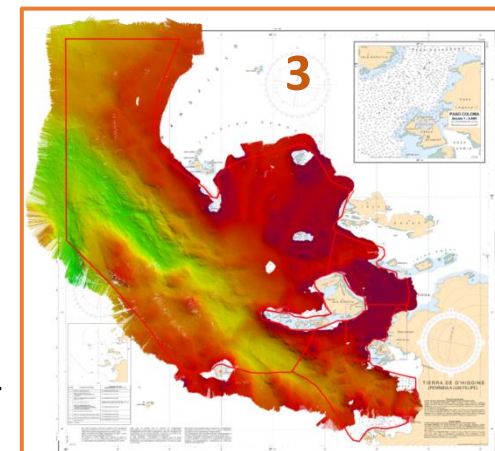
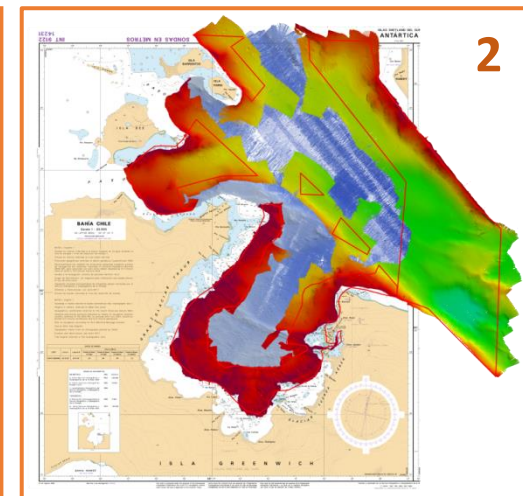
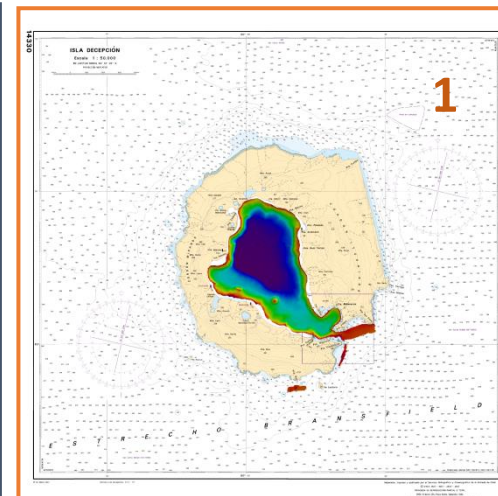
Surveys and charting progress in Antarctica since HCA-18 (May 2022)

International Hydrographic Organization

- Metadata forwarded to HCA HPWG / HCA GIS?
 - 1) Metadata information related to Deception Island area sent to HCA November 2023.
 - 2) Metadata (basic) information related to Discovery Bay area shared to Region M Coordinator HCA March 2024.
 - 3) Metadata (basic) information related to Covadonga Bay area shared to Region M Coordinator HCA March 2024.



Areas in with Chile sent metadata



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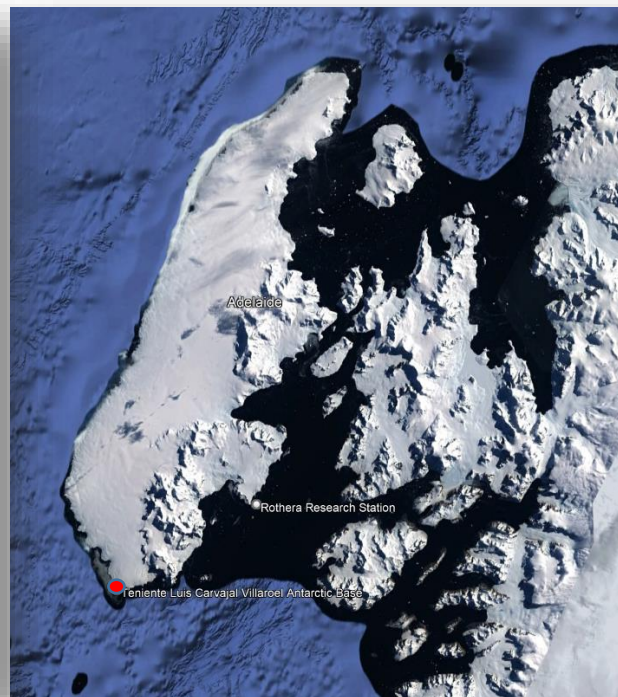
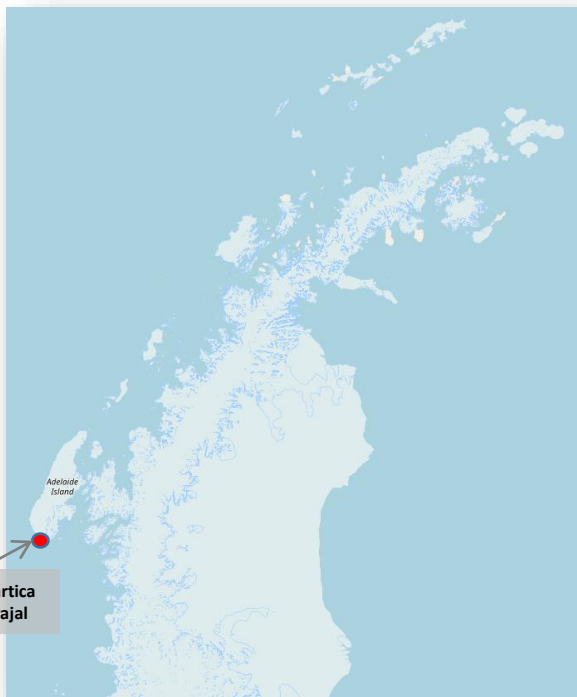
Relations with Other Organizations

- Scientific and Polar Institutes

INACH “Chilean Antarctic Institute”:

INACH will implement a new Antarctic base in Adelaide island, named “Teniente Carvajal” that will require new bathymetric data for the nautical chart.

This base is located west of the Antarctic Peninsula and south of the Antarctic Polar Circle. Consequently, an hydrographic survey in the northern area of Margarita Bay is planned for next summer season (2024-2025), to elaborate “Fondeadero Bories” Chart INT 9110.



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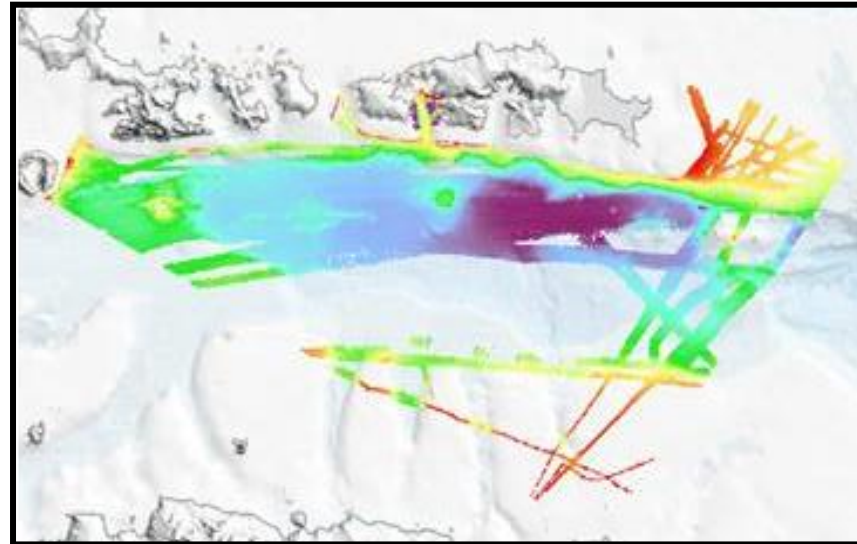
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Relations with Other Organizations

- Hydrographic data received from other organizations

1. August 12th, 2022, bathymetric data was received from the HCA in order to update 3 SHOA Antarctic Nautical Charts:
 - INT 9122 “Isla Greenwich – Bahía Chile, Puerto Soberanía, Ensenadas Rojas e Iquique”
 - INT 9124 “Antártica – Islas Shetland del Sur. Bahía Fildes”
 - SHOA No. 14330 “Islas Shetland del Sur. Isla Decepción y Caleta Balleneros”.
2. May 23th, 2023, Alice Frémand, Scientific Data Manager from Polar Data Centre British Antarctic Survey, offered a transit bathymetry from Bransfield Strait, specifically within the Orca Volcano area.

Bathymetric coverage collected
by the
British Antarctic Survey.

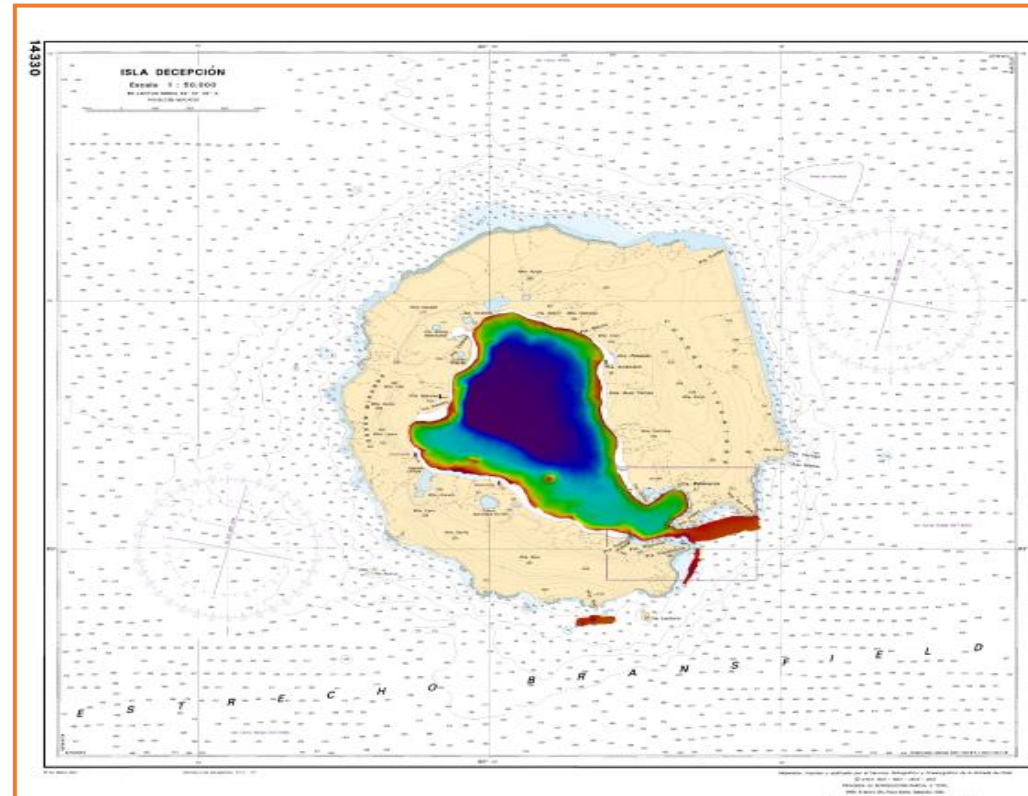




IHO Relations with Other Organizations

International
Hydrographic
Organization

- Hydrographic data provided to other organizations
 1. June 1st, 2023, bathymetric data of Deception Island area was sent to Argentina SHN.
 2. February, 2024, bathymetric data of Deception Island area was sent to HCA.



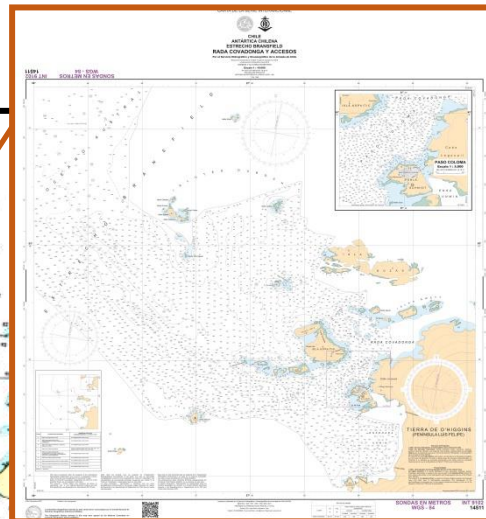
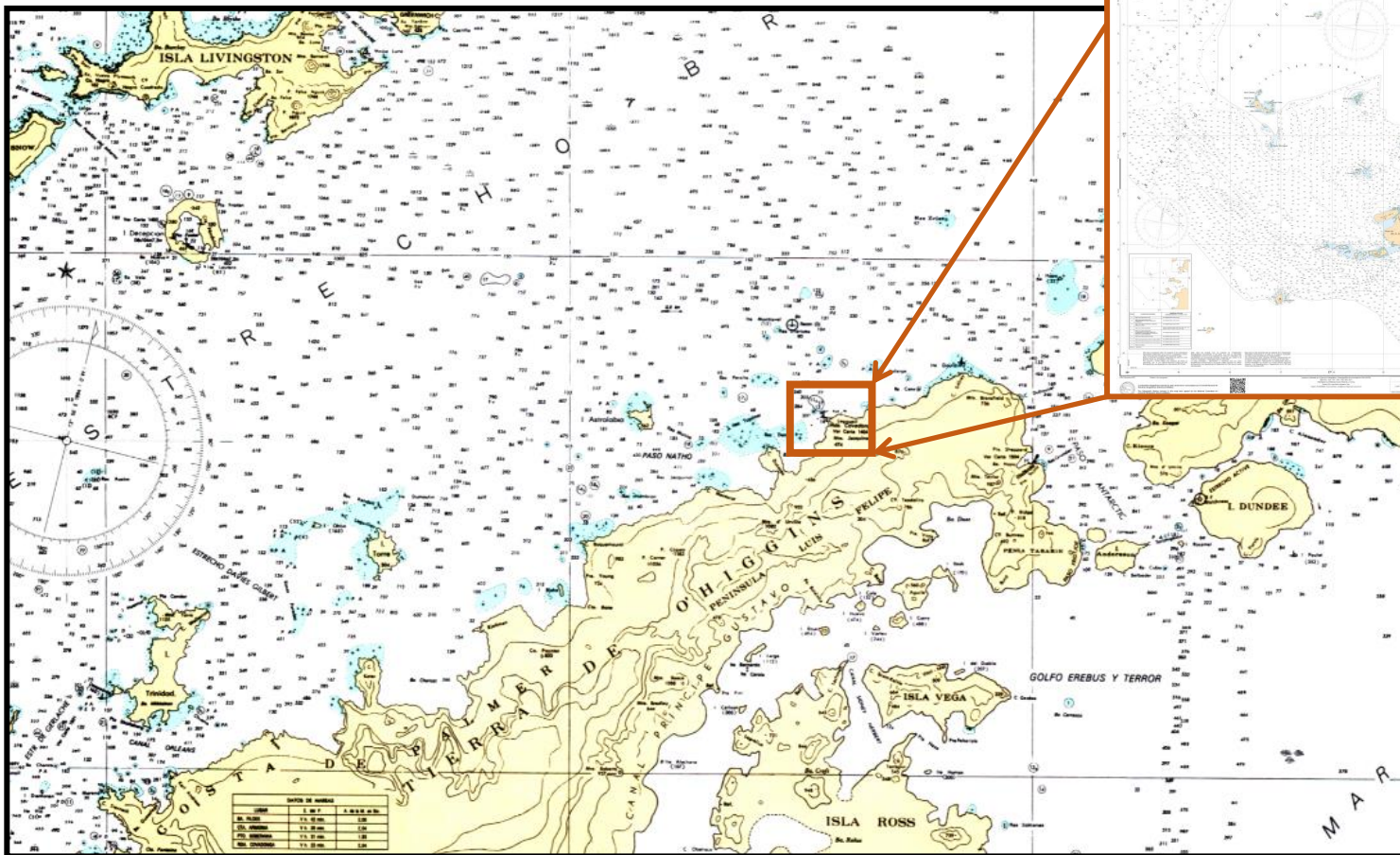
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Planned Activities for 2024-2025

- New survey. If needed a complementary hydrographic survey for Covadonga Bay will be executed in 2025.



Hydrographic survey of Rada Covadonga
CHART INT 9102



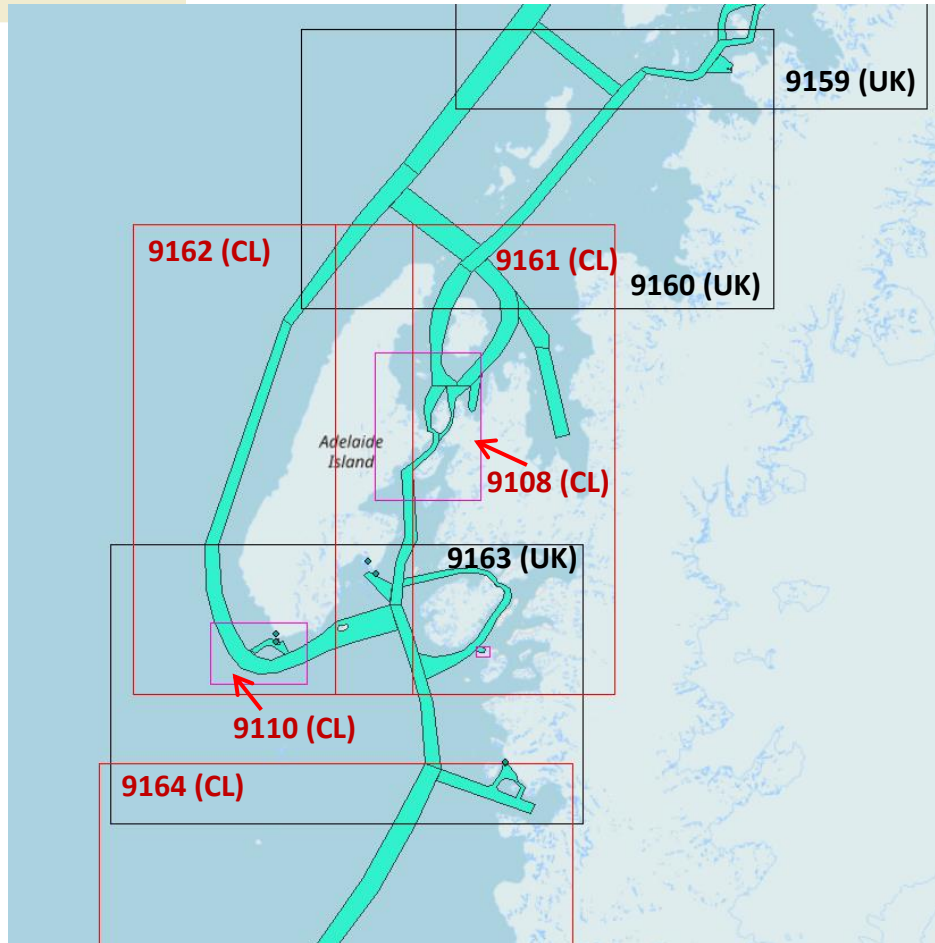
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Planned Activities for 2024-2025

- New survey. There are plans to execute an hydrographic survey to the elaboration of SHOA 4 news INT Charts
 - INT 9108 “Bahía Hanusse a Isla Wyatt” - INT 9161 “Estrecho Matha a Isla Pourquoi Pas”
 - INT 9110 “Fondeadero Bories”. - INT 9162 “Isla Adelaida”

New survey for charts INT 9108, INT 9110, INT 9161 and INT 9162 will be carried out with the new icebreaker ship “Almirante Oscar Viel”, Tug “Lientur” and LH-01 “Orca”



Maritime Shipping Route (MRS)

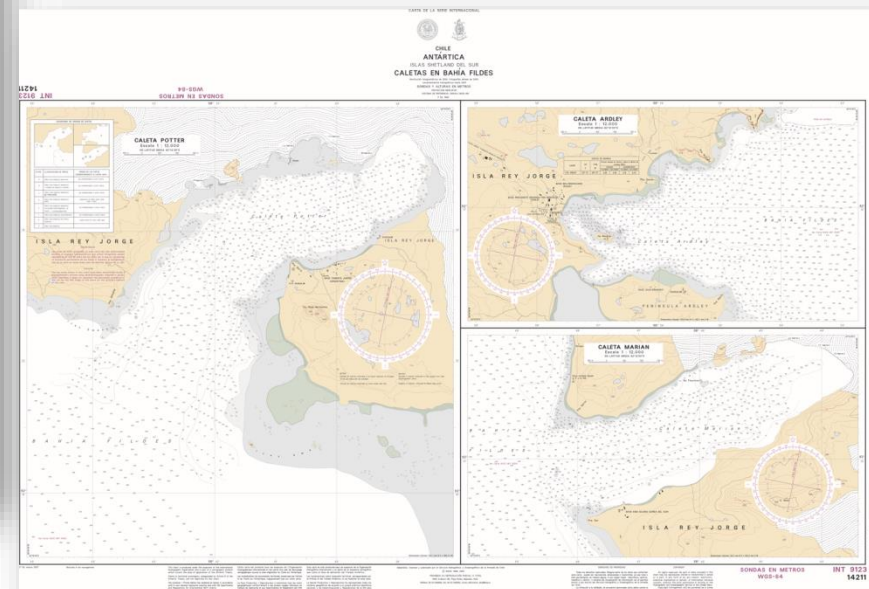
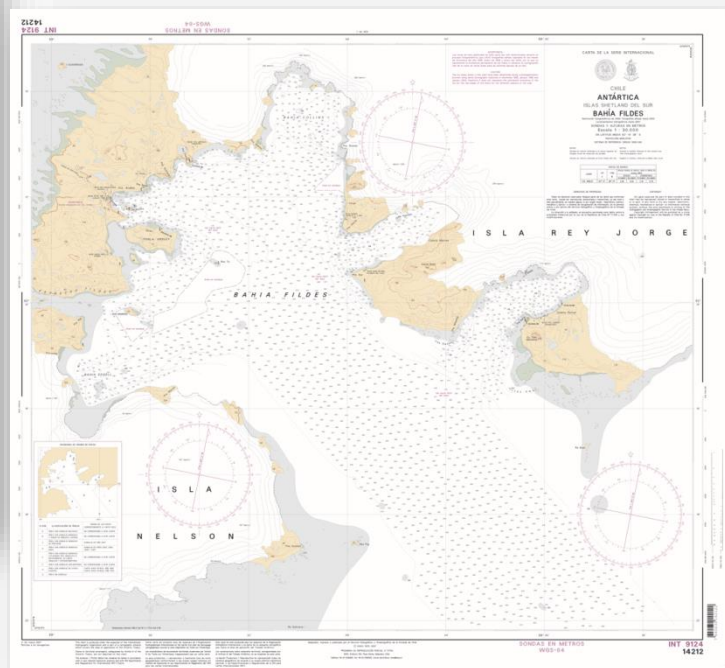
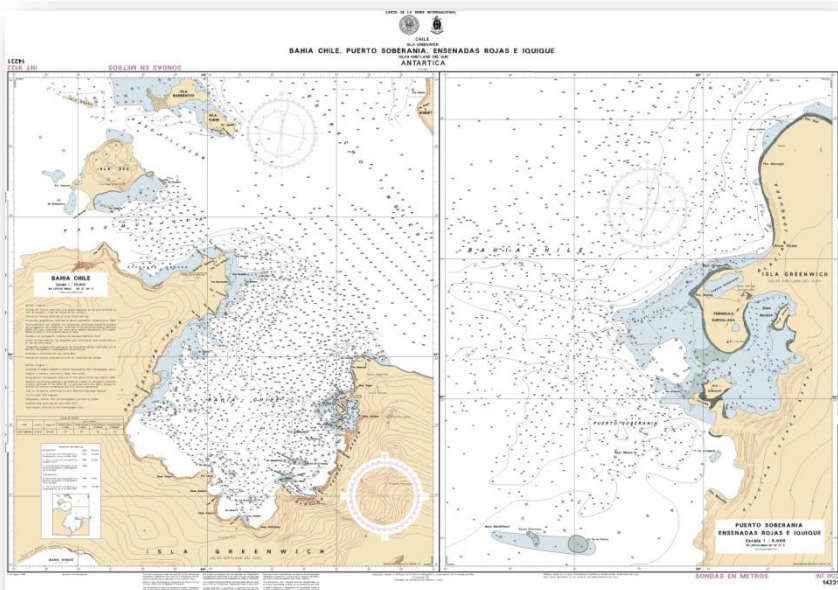


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Planned Activities for 2024-2025

- New charts:
 - New edition chart INT 9122 “Isla Greenwich – Bahía Chile, Puerto Soberanía, Ensenadas Rojas e Iquique”
 - New edition chart INT 9123 “Islas Shetland del Sur. Caletas en Bahía Fildes”
 - New edition chart INT 9124 “Islas Shetland del Sur. Bahía Fildes”

} KHOA geospatial data
(Bathymetric)



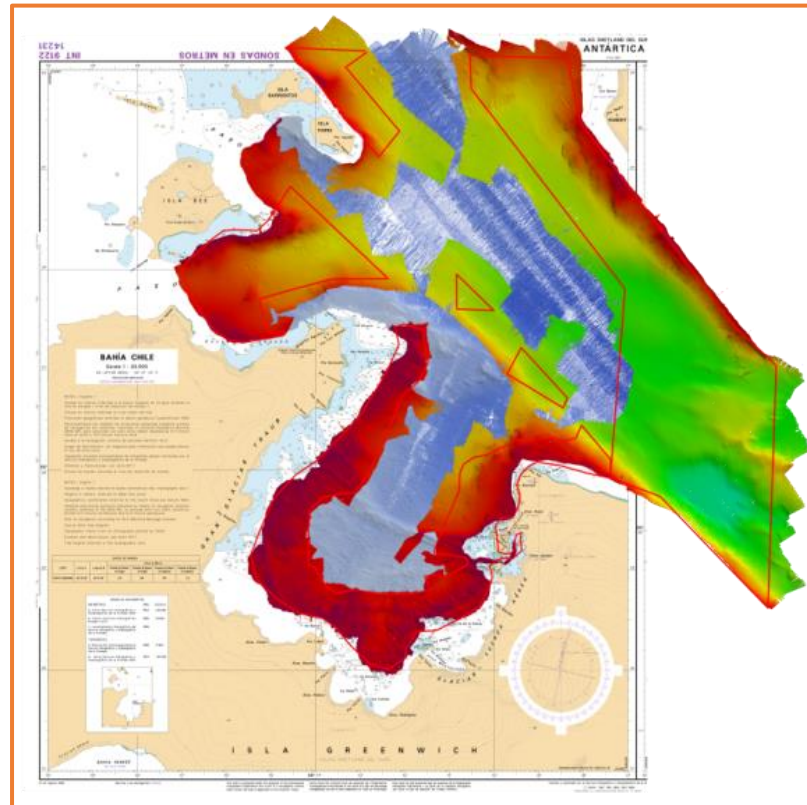
INT Charts will be published in 2025.

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Planned Activities for 2024-2025

- Plans for a coordinated development of S-100 products and Electronic Navigational Data Services (ENDS) in the region*
 - We are currently able to convert from S-57 to S-101 ENC format.
 - INT 9122 “Bahía Chile, Puerto Soberanía, Ensenadas Rojas e Iquique” (Discovery Bay) will be delivered in dual fuel format.



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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

- **Recommendations, Actions to be considered by HCA:**
 - The upcoming HCA 20 meeting is scheduled to take place in Punta Arenas, Chile.
 - Due to presidential elections, Chile offers to host the HCS 20th meeting from **December 2 to 6, 2025.**



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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

- Recommendations, Actions to be considered by HCA:



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