



SERVICIO HIDROGRÁFICO Y OCEANOGRÁFICO DE LA ARMADA DE CHILE

**INTERNATIONAL HYDROGRAPHIC ORGANIZATION
HYDROGRAPHIC COMMITTEE ON ANTARCTICA – HCA
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**REPORT PREPARED BY THE HYDROGRAPHIC AND OCEANOGRAPHIC SERVICE
OF THE CHILEAN NAVY (SHOA)**





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**INTERNATIONAL HYDROGRAPHIC ORGANIZATION
HYDROGRAPHIC COMMISSION ON ANTARCTICA – HCA**

**PREPARED BY THE CHILEAN NAVY
HYDROGRAPHIC AND OCEANOGRAPHIC SERVICE
(SHOA)**

1.- HYDROGRAPHIC OFFICE/SERVICE.

The Chilean Navy Hydrographic and Oceanographic Service (SHOA) is the official technical authority of the State of Chile, responsible for the provision of nautical charts of its territory, among other tasks. Its main mission is to provide elements, information and technical assistance to contribute to the safety of navigation, which includes hydrographic surveys, oceanographic, cartographic and marine safety information (MSI) activities related to Antarctica.

In the field of action of MSI, our contribution is to keep information, nautical charts and publications duly updated and timely available to the mariner through Notice to Mariners that are broadcasted by different means as NAVAREA XV Coordinator. SHOA is part of the IHO Hydrographic Commission on Antarctica since its establishment in 1992, originally as the Permanent Working Group for Cooperation in Antarctica (PWGCA), following the recommendations of the XV Meeting of the Antarctic Treaty Consultative Parties.

During the reporting period there have been some changes to the information provided by the IHO Year Book:

N° of Charts published	says 314 + 22 misc.	should say 333 Nautical Charts
N° of INT Charts published	says 5	should say 8
Surveying vessels	says Cabrales	should say Cabrales; Micalvi; Ortiz; Cabo de Hornos

2. - SURVEYS.

The 2013 Survey Programme included the execution of hydrographic activities between January 11th to February 17th, conducted by ATF “Lautaro” (See Figure # 1 and 2).



Figure N° 1: Status of photogrammetric data for National 15350 (INT 9104)

Photogrammetric work accomplished 2013

Chart N° 15350 (INT 9104) “Islote Useful a Isla Wednesday”

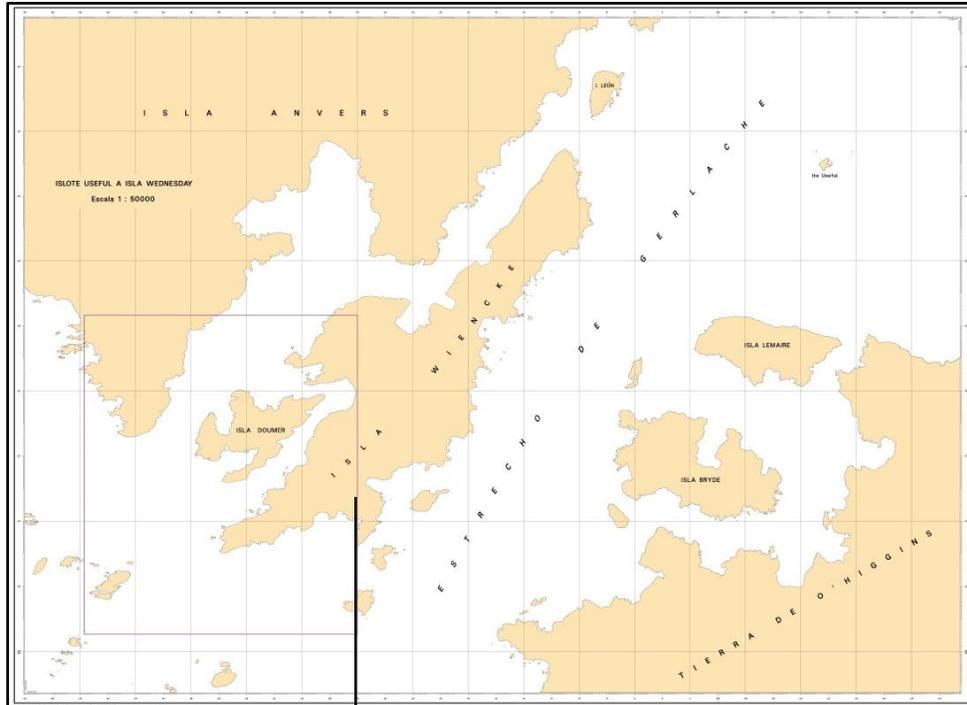


Chart N° 15351 “Fondeaderos en Canales

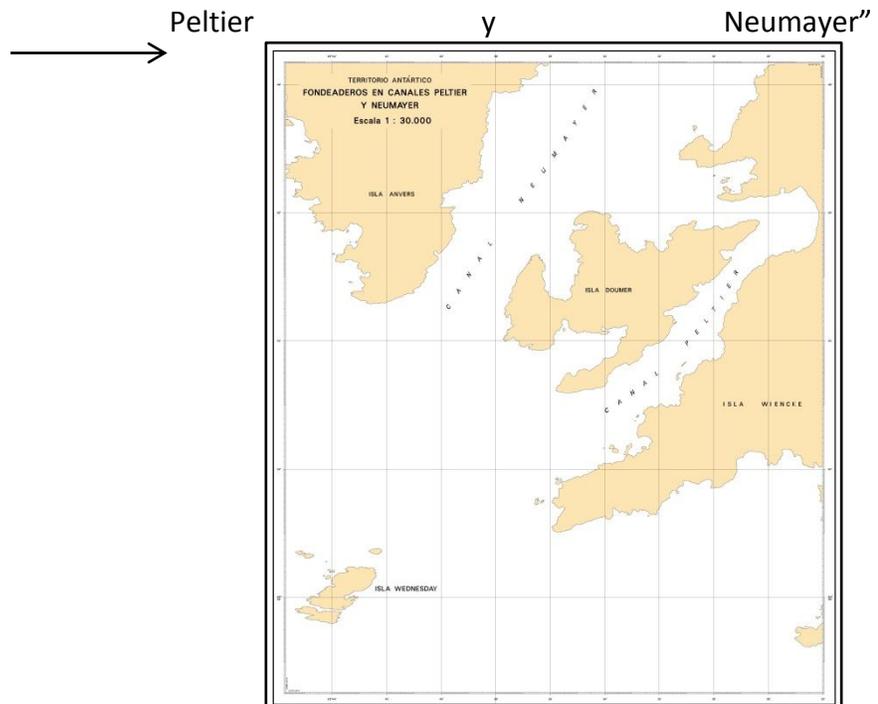


Figure N° 2: Areas of collected bathymetric data for National 15350 (INT 9104)

Chart N° 15350 (INT 9104) “Islote Useful a Isla Wednesday”

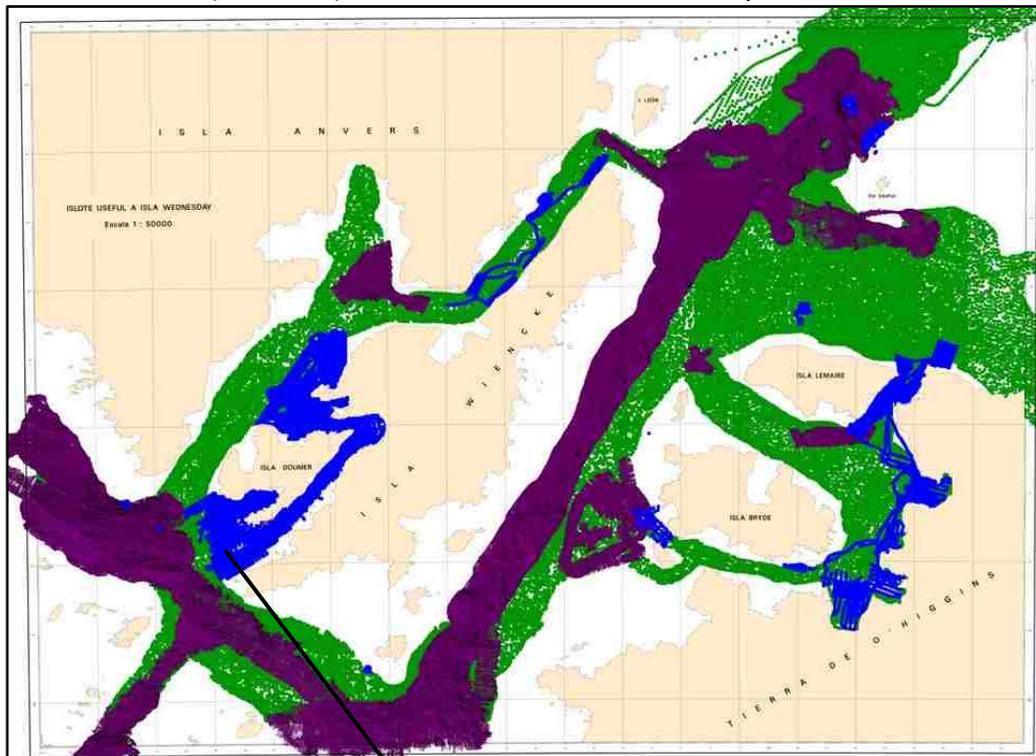
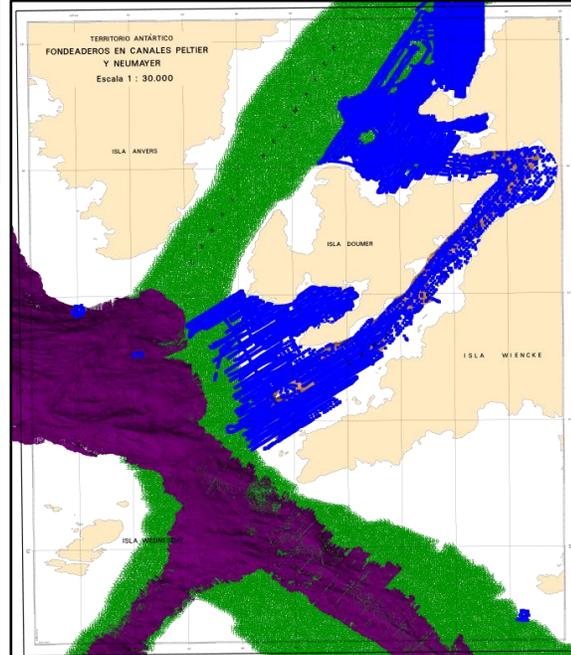
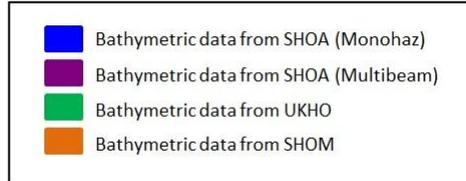


Chart N° 15351 “Fondeaderos en Canales



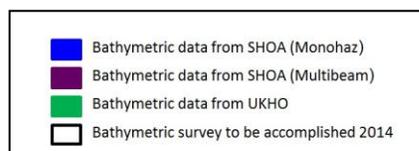
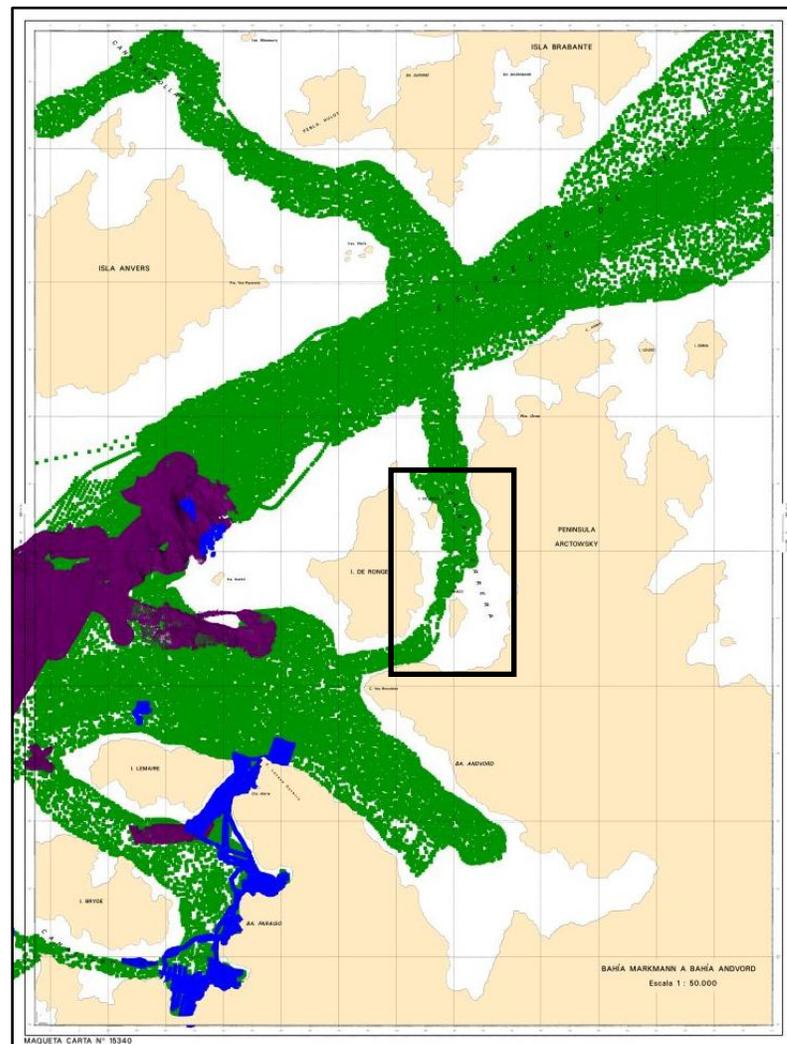
Peltier y Neumayer”



The 2014 planned Programme considers the first phase of the survey of the Gerlache Strait (East), to allow the production of the following nautical charts: 15340 (INT 9103) "Estrecho de Gerlache. Bahía Markmann a Bahía Andvord" (See Figure # 3).

Figure N° 3: Areas of collected bathymetric data for National 15340 (INT 9103)

Chart N° 15340 (INT 9103) "Bahía Markmann a Bahía Andvord"



We would like to take the opportunity to inform that some areas are being complemented with surveys provided by the UK Hydrographic Office (UKHO), contribution which is much appreciated.

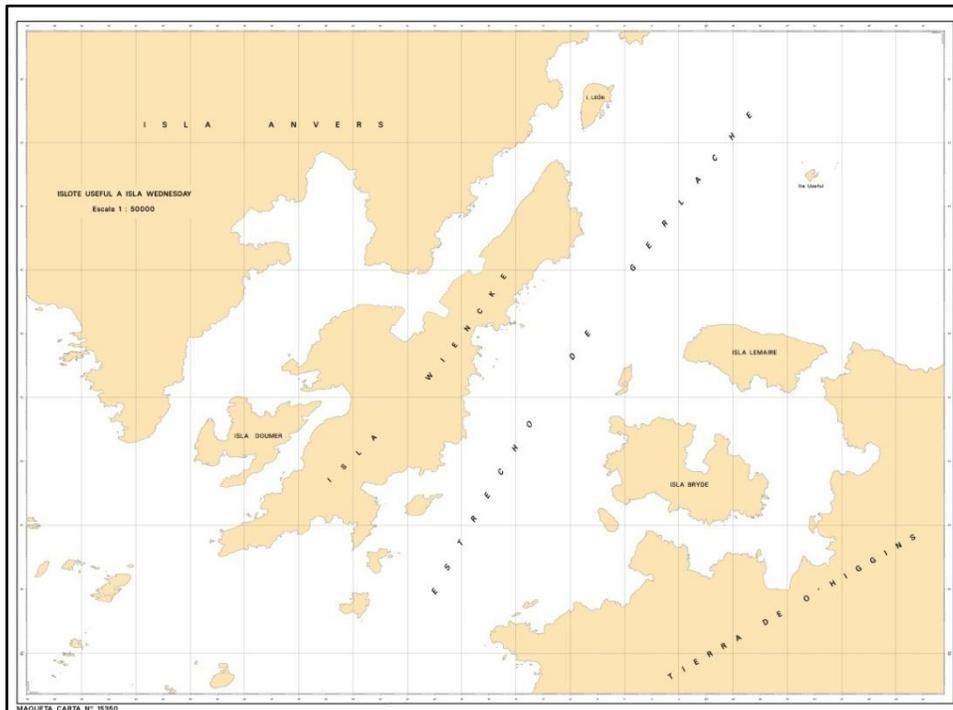
3.- NEW CHARTS AND UPDATES.

a.- NEW Paper charts produced in 2013 and programmed for 2014.

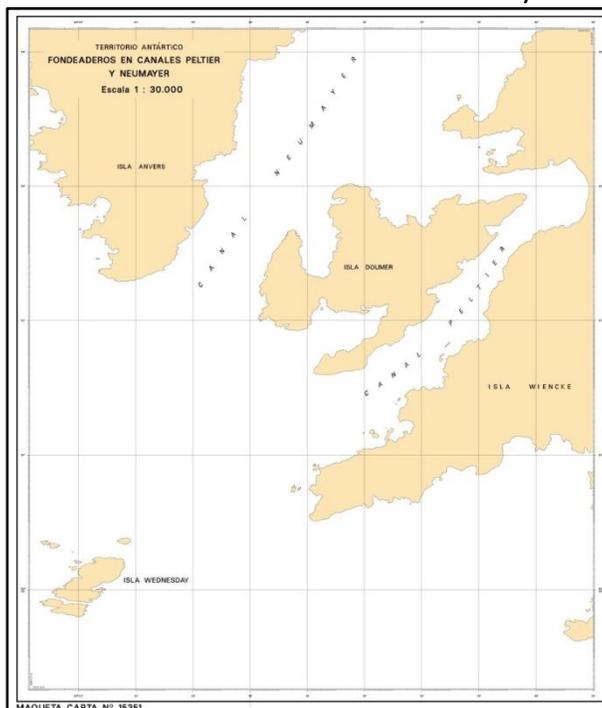
Paper Chart Produced in 2013:

- Chart 15352 “Caleta Gloria”; scale 1:7.000

Paper Charts programmed for 2014:



15351 “Fondeaderos en Canales Peltier y Neumayer”



b.- New Electronic Nautical Charts produced in 2013 and programmed for 2014.

ENC produced in 2013:



- N° 14211 “Caletas en Bahía Fildes”; scale 1: 12.000
- N° 14212 “Bahía Fildes”; scale 1: 22.000

ENC programmed for 2014:

- Chart 15352 “Caleta Gloria”; scale 1:4.000

Figure N° 6: ENC produced 2013

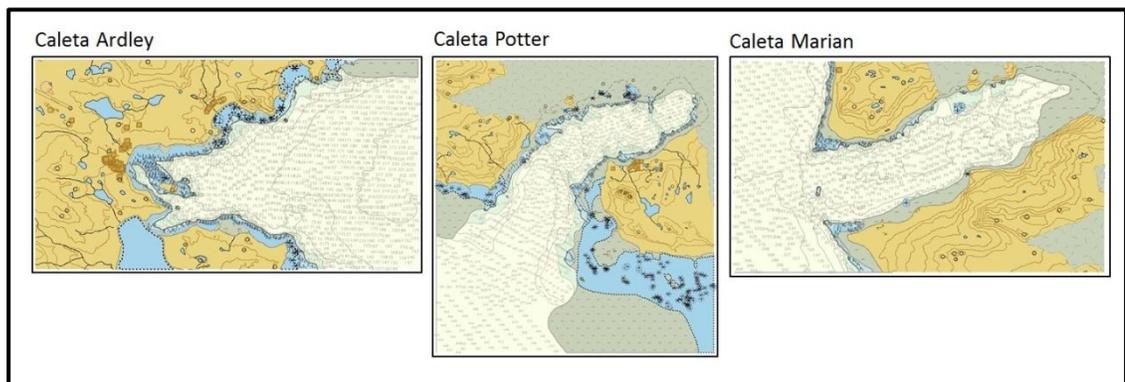
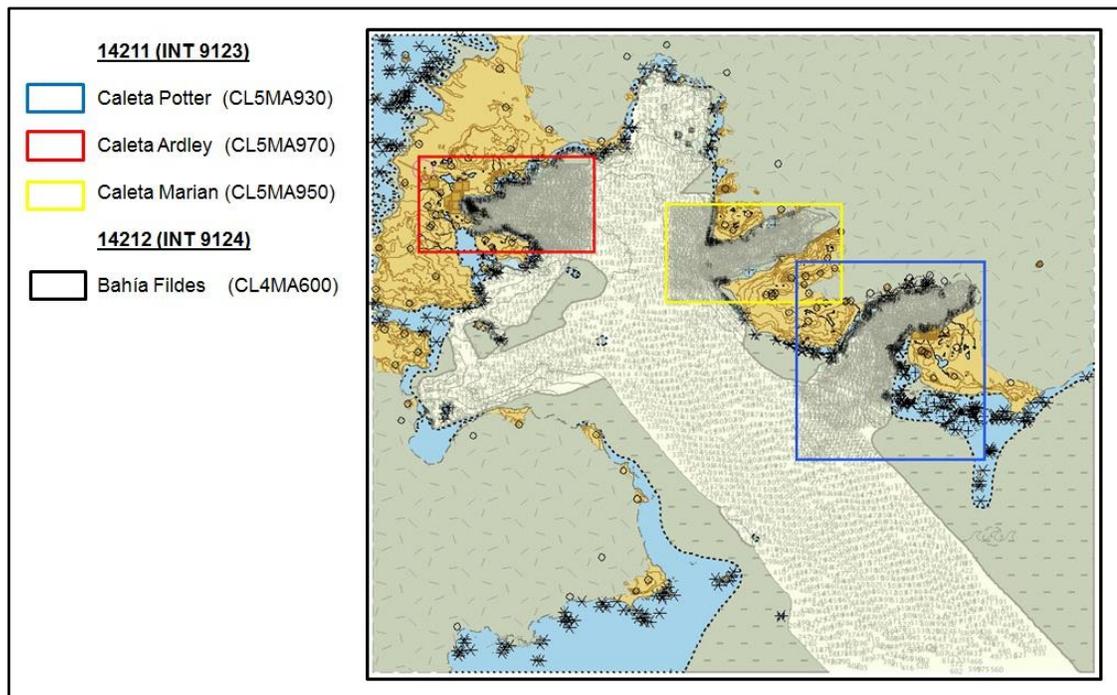
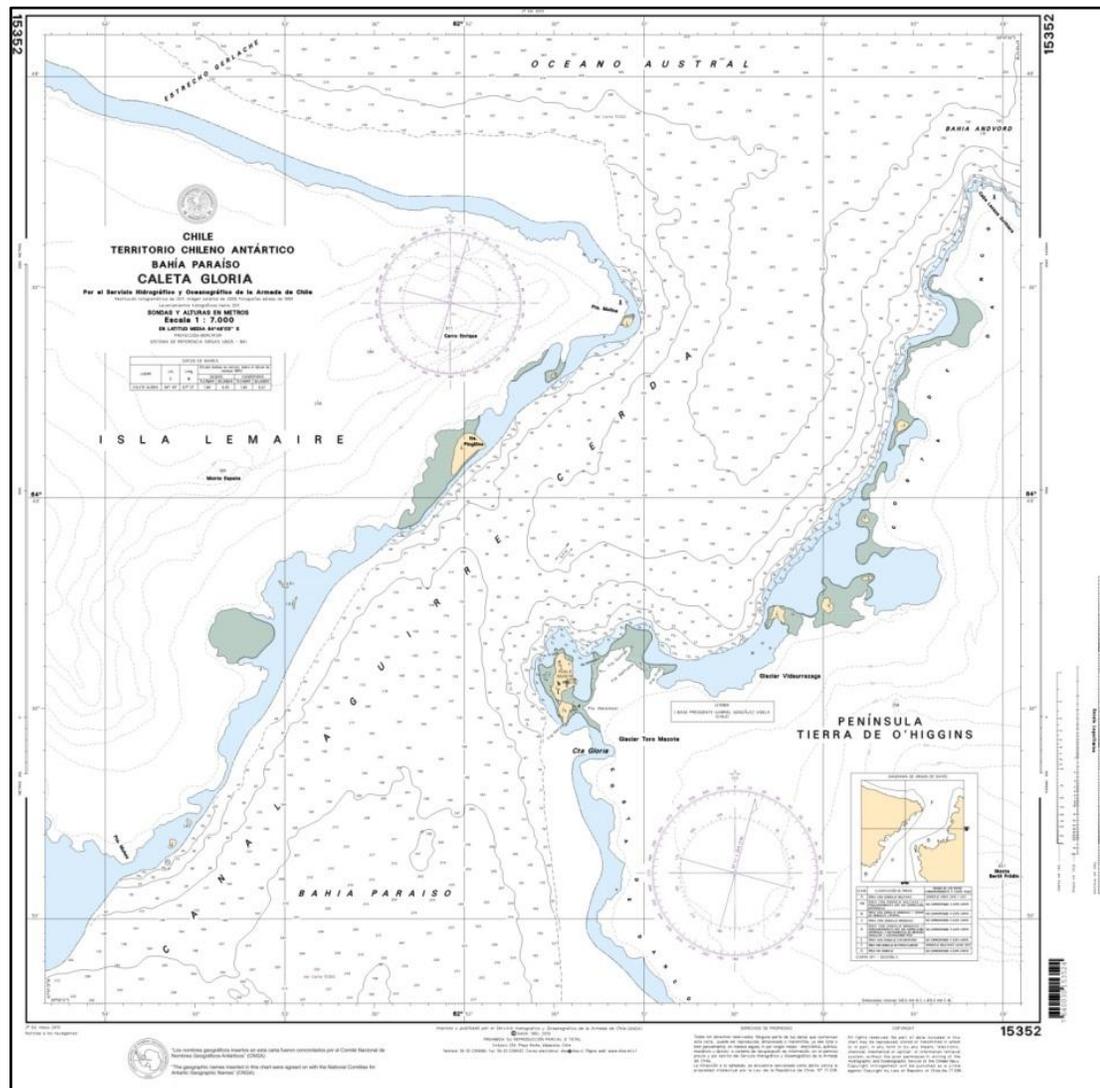


Figure N°7: ENC programmed 2014



4.- NEW PUBLICATIONS AND UPDATES :

During the reporting period SHOA has kept updated the following publication:

- SHOA Pub. 3006, “Antarctic Sailing Directions”.

5.- MARITIME SAFETY INFORMATION (MSI).

Chile has the responsibility as NAVAREA XV Coordinator and that includes the Chilean Antarctic Territory. Transmissions are through NAVTEX and SafetyNet according to a pre-established schedule. Additionally, the Naval Meteorological Service broadcasts through NAVTEX and SafetyNet the navigational warnings about ice edges and plotting of drifting icebergs.



The Chilean Maritime Authority in the Chilean Antarctic Territory is exercised by the Bay Fildes Port Authority which provides Antarctic meteorological forecast. For area XV. The Antarctic Meteorological Center Presidente Eduardo Frei Montalva, issues the maritime forecast for the Drake Passage and the Bellingshausen maritime region.

6.- STATUS OF HYDROGRAPHIC SURVEYING AND NAUTICAL CHARTING WORLDWIDE (C-55).

The update of C-55 is understood by SHOA as a permanent and ongoing activity. SHOA will give consideration to C-55 as soon as the new structure of this publication is agreed by IHO Member States.

7.- CAPACITY BUILDING.

Chile continues to provide an International Course on Operation on Antarctic Waters. This training is offered mainly to pilots sailing to Antarctica. The course is offered by the Maritime Instruction Centre (CIMAR). The last course finished 11 October 2013 and was attended by 20 people, 12 of which were foreigners. A new course is planned for 2014, dates to be decided.

8.- OCEANOGRAPHIC ACTIVITIES.

a.- Tide gauge maintenance.

The tide gauge in "Base Prat" and Rada Covadonga continue to be in operation. Maintenance of both sea level stations were performed according to schedule.

b.- Tide gauge installation.

Two tide gauges were installed, one on the coast of Doumer Island in South Bay area and the other on the coast of Gloria Cove in Paraíso Bay area, both to support hydrographic surveys conducted in the mentioned areas.

9.- OTHER ACTIVITIES.

Antarctic Geographic Names

- The National Committee of Antarctic Geographic Names continuous its work in the Geographic Names Dictionary, checking the charts of the area and providing advice on the proper use of names.

10.- CONCLUSION



Despite the unavoidable change in priorities that followed the occurrence of the February 2010 tsunami that affected seriously Chile, SHOA has managed to continue to assign some resources to the production of paper and ENC nautical charts of Antarctica, belonging to the Region M scheme. Bathymetric information has been received from the UKHO. Such data, together with the data collected by SHOA shall advance the production of charts' production.

SHOA continues to be engaged with the objectives of the Hydrographic Commission on Antarctica.