

**IHO HYDROGRAPHIC COMMITTEE ON ANTARCTICA (HCA)
14th Conference, Tromsø, Norway, 28 – 30 June 2016**



NATIONAL REPORT – BRAZIL

Hydrographic Office / Directorate of Hydrography and Navigation (DHN)
Service:

1. Surveys: During the 34th Antarctic Commission (OPERANTAR XXXIV), performed by the Brazilian Navy Ships ALMIRANTE MAXIMIANO (Polar Ship) and ALMIRANTE ARY RONGEL (Oceanographic Support Ship), bathymetric surveys using single beam and multibeam echosounder were conducted, specifically in the area of the INT 9151 nautical paper chart.

2. New charts & updates: Brazil has concluded its Antarctic Cartographic Planning, gathering the following six (06) nautical charts:

Nautical Charts (paper):

- 25110 (INT 9150) – Antártica: Ilha Elefante e Proximidades, 1:200.000, Ed. 2009;
- 25115 – Antártica: Ilhas Shetland do Sul – Ilha Elefante, 1:100.000, Ed. 2005;
- 25119 – Antártica: Ilhas Shetland do Sul - Baía Serratt, 1:40.000, Ed. 2013;
- 25120 – Antártica: Ilhas Shetland do Sul - Baía Rei George, 1:40.000, Ed. 2013;
- 25121 – Antártica: Ilhas Shetland do Sul - Baía do Almirantado, 1:40.000, Ed. 2009; Inset A: Enseada Martel , 1:20 000; and Inset B: Estação Comandante Ferraz, 1:5.000; and
- 25122 – Antártica: Ilhas Shetland do Sul - Baía Maxwell, 1:40.000, Ed. 1994; and Inset: Enseada Ardley e Baía Edgell, 1:20.000.

A new edition for the nautical chart 25121 is scheduled for the second half of 2016.

ENC:

- BR3 25110 – Ilha Elefante e Proximidades, 1:180.000;
- BR4 25119 – Ilhas Shetland do Sul - Baía Serratt, 1:40.000;
- BR4 25120 – Ilhas Shetland do Sul - Baía Rei George, 1:40.000;
- BR4 25121 – Baía do Almirantado (Ilha Rei George) 1:45.000;

- BR5 25121 – Enseada Martel, 1:12000;

A new edition of the ENC BR4 25121 and a new cell ENC BR5 25122 are scheduled for the second half 2016.

3. New publications & updates: X X X

4. MSI X X X

5. C-55 Not applicable to INT Region M.

6. Capacity Building

a) Training needed: X X X

b) Training and courses offered:

COURSE	DESCRIPTION	DURATION
C-Esp-HN	Aims to qualify the student to be a technician in Hydrography and Navigation issues.	42 weeks
C-Ap-HN	Aims to increase the capability of the student to be a technician in Hydrography and Navigation.	35 weeks
CAHO (IHO Cat. "A")	Aims to provide the student with the capability to plan, to conduct and to execute the activities related with the Hydrographic Service.	50 weeks

c) Projects under development: XXX

7. Oceanographic activities During OPERANTAR XXXIV, the Brazilian Navy Polar Ship ALMIRANTE MAXIMIANO acquired oceanographic data from CTD/rosette, Thermosalinograph and water samples for chemical analysis. Drifting buoys were deployed as well as XBT. Current measurements were also taken, along with CTD/rosette deployments supporting Brazilian Scientific Community.

GEBSCO/IBC's activities: routine GEBSCO soundings were performed by the Brazilian Navy Polar Ship ALMIRANTE MAXIMIANO during all the OPERANTAR XXXIV operations. Problems detected: due to the isolation and harsh conditions of the Antarctic region, it is always necessary to keep a large number of spare equipments and parts to adequately perform the oceanographic measurements.

8. Other activities Participation in IHO Committees / Working Groups: ABLOS, CBSC, CSPCWG, DPSWG, DQWG, ENCWG, EUWG, GEBSCO-SCUNF, GEBSCO-TSCOM, HCA, HDWG, HSSC, IBSC, IC-ENC, IEHG, NCSR, IRCC, MACHC, MSDIWG, NCWG, NIPWG, SNPWG, SWAtHC, S- 100WG, TWCWG, WENDWG e WWNWS.

9. Conclusions DHN continues its commitment in carrying forward hydrographic activities through the work of the Hydrographic Commission on Antarctica.