



# ANTARCTIC HYDROGRAPHY

THE INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
HYDROGRAPHIC COMMISSION ON ANTARCTICA

“ IMPORTANCE OF HYDROGRAPHIC  
ACTIVITIES IN ANTARCTICA ”

# CONTENT



1st Presentation by Captain Hugo GORZIGLIA, IHB Director and HCA Chairman.

« **Hydrography in Antarctica** »

2nd Presentation by Mr; Andy WILLETT, UKHO, Member of UKHO delegation to HCA, Chair of the HCA Hydrographic Survey Prioritization Working Group.

« **HCA approach to improve Hydrography and Nautical Cartography in Antarctica** »

3rd Presentation by Captain Hugo GORZIGLIA.

« **Practical initiatives to improve Hydrography and Nautical Charting in Antarctica with IAATO support** »



# HYDROGRAPHY IN ANTARCTICA



# WHAT IS HYDROGRAPHY?



*“Hydrography is the branch of applied sciences which deals with the **measurement and description** of the physical features of oceans, seas, coastal areas, lakes and rivers, as well as with the **prediction of their change** over time, for the primary purpose of **safety of navigation** and in support of all other marine activities, including economic development, security and defence, **scientific research, and environmental protection**”.*

# WHY WE NEED HYDROGRAPHY IN ANTARCTICA?



FOR AT LEAST :

1. ENABLING SAFE TO NAVIGATION
2. CONTRIBUTING TO SAFETY OF LIFE AT SEA
3. CONTRIBUTING TO PROTECT MARINE ENVIRONMENT
4. SUPPORTING SCIENTIFIC RESEARCH
5. CONTRIBUTING TO SAR OPERATIONS
6. SUPPORTING DECISION MAKING PROCESS



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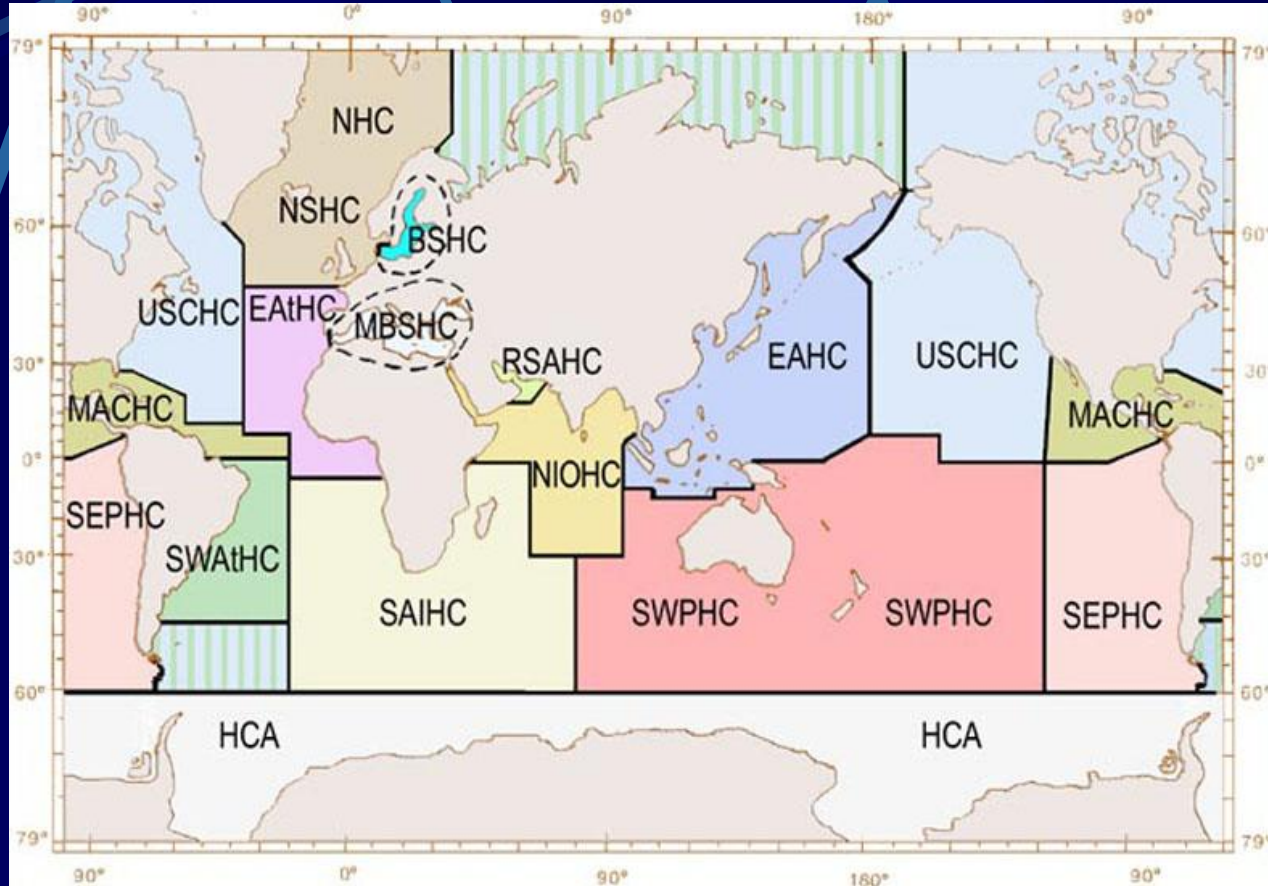


# IHO MISSION

- *“to facilitate the provision of **adequate and timely hydrographic information** for world-wide marine navigation and other purposes, through the co-ordination of the endeavours of national hydrographic offices”*



# REGIONAL HYDROGRAPHIC COMMISSIONS AND THE HCA



# HCA MEMBERSHIP (23)



USA VENEZUELA UK NORWAY

RUSSIA

JAPAN

CHINA

R.de KOREA

AUSTRALIA

NEW ZEALAND



GERMANY

ITALY

GREECE

SPAIN

FRANCE

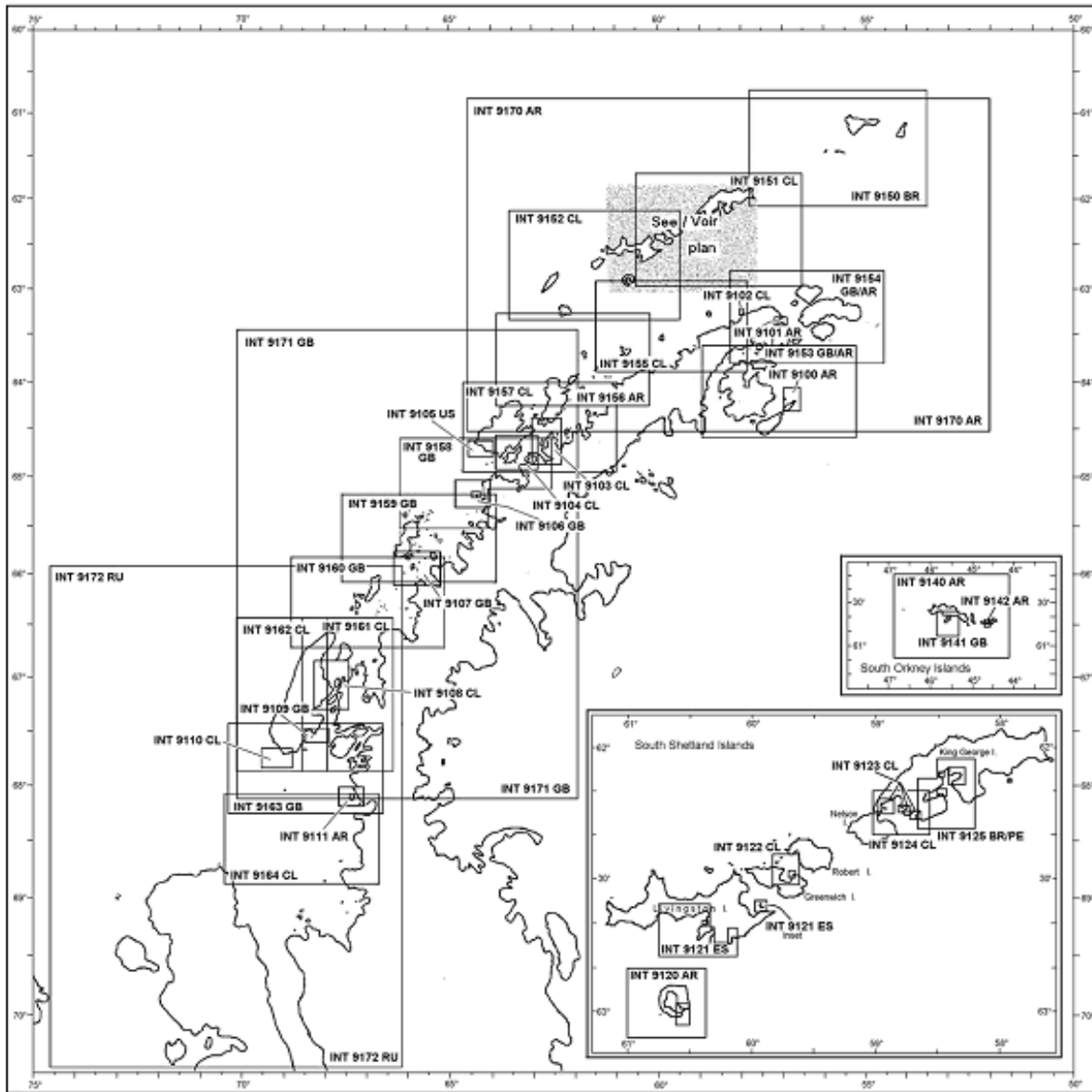
INDIA

SOUTH AFRICA

BRAZIL

ECUADOR PERU CHILE ARGENTINA URUGUAY





# INT CHART SCHEME

Antarctic  
Peninsula

# EXPECTED PRODUCTION OF ANTARCTIC INT CHARTS



Till December 2010, 67 out of 102 INT Charts will have been published, leaving 35 in the pending list.

## **PRESENT EXPECTATION IS :**

- 5 chart is planned for 2011
- 2 charts are planned for 2012
- 2 chart is planned for 2013
- 0 chart is planned for 2014
- 8 charts are planned for “no earlier than 2015”
- 18 charts have not yet been considered in the planning.

# **SOLAS V, REGULATION 9 (2002)**

## **« Hydrographic Services »**



**Contracting Governments undertake to arrange for the collection and compilation of hydrographic data and the publication, dissemination and keeping up to date of all nautical information necessary for safe navigation.**

# TO CONCLUDE .....



IAATO as well as many other stake holders requires a reliable hydrographic service.

IHO looks forward to higher priority and commitment from the Antarctic Treaty countries.

Lack of new hydrographic surveys prevent IHO to achieve INT Chart coverage of Antarctic waters.



Let us join our efforts to improve safety to navigation, safe of life at sea and protection of the marine environment in Antarctica.

**THANKS  
FOR YOUR ATTENTION**