HCA13-08.5.2A



International Hydrographic Organization

HCA-13

Progress Report on Geographic Information System to Support IHO Publication C-55

IHB

Status of survey coverage: C-55

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C-55 Executive Summa	<u>ary</u>	*	IHO Publication C-55 Third Edition (2004)
Introduction Background Database for this Hydrography and	Maritime		Latest Update 27 September 2011
Status of Surveys Status of Charting Status of MSI Recommendation	g	ш	STATUS OF HYDROGRAPHIC SURVEYING AND NAUTICAL CHARTING WORLDWIDE
Main Reports			Français
* Hydrographic : * Nautical Chart:	ing		Executive Summary
* <u>Maritime Safet</u> <u>Information</u> * <u>GMDSS Inforr</u> * <u>Composite Rep</u> <u>(World-wide)</u> * <u>Composite for I</u> <u>Region A</u>	<u>mation</u> port		The aim of this third edition of IHO Publication No. 55 (C-55) is to present a clear picture of the worldwide coverage of surveys and nautical charts and of the extent of effective organisations for the timely promulgation of navigational safety information. The content of the reports is now held in a live database on the IHO web site from which up to date reports can be extracted at any time. The data base covers the waters of 90% of the coastal states of the world.
* <u>Composite for I</u> <u>Region B</u> * <u>Composite for I</u> <u>Region C1</u> * <u>Composite for I</u> <u>Region C2</u>	<u>INT</u> INT		Comparing the data in the first and second editions with that presented here, it is clear that significant progress has been made in some areas of great importance to international shipping and to the protection of coastal environments. This has resulted in the main from the firm requirements laid down by the IMO before ships' routeing systems can be approved. There is also encouraging evidence of regional co-operation to provide modern coverage of maritime shipping routes.
* <u>Composite for I</u> <u>Region D</u> * <u>Composite for I</u> <u>Region E</u>	INT		However, in significant areas of the Caribbean Sea, the coastal waters of Africa, the Indian Ocean and adjacent seas, and the Western Pacific Ocean and adjacent seas, there has been little change, and it is here that capacity building efforts must be concentrated.
* <u>Composite for 1</u> <u>Region F</u> * <u>Composite for 1</u> <u>Region G</u>			The IMO and IHO have identified the following key areas of concern arising from the information presented in the C-55 data base:
* Composite for I	INT		Major Skill Deficiencies:
Region H * Composite for I Region I * Composite for I Region J	_		Many governments have still to put in place an effective organisation for the promulgation of information of importance to safe navigation and the protection of the environment, either as navigational warnings or as inputs to those hydrographic offices with responsibility for charting.
* Composite for I	INT	Ŧ	Action is needed to implement the GMDSS in a number of areas. notably in Central America and

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INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Status of survey coverage: C-55

90°	0°	90°			180°			90° 79°
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ALES	IHO C-55: INT Chart Region	G						
and the second of	Nation/Area	A1	A2	B1	B2	C1	C2	Comment
0° Cape F		6	0	0	0	94	100	 Data derived from EABHC technical visit. Depths fall away precipitately beyond the narrow continental shelf. The coast is subject to erosion and depths inshore are constantly changing. Routine re-surveys are required for Colonou.
		9	0	0	100	91	0	Data derived from EAtHC technical visit. The seabed is unstable in all the rivers and estuaries. Routine re-surveys are conducted in the entry channel and port of Douala. Garoua can be operated from July to September, the navigable season on the River Benué.
0° B27'30'N & Fra 0° B27'30'N & Torn 0° B20'N 0° B20'N 0° B20'N 0° B20'N 0° Control 10°N 0° Control 1	Cape Verde	65	3	1	0	34	97	 Data derived from EAtHC technical visit. These oceanic islands are generally steep to with depths that fall away precipitately. Banco do Noroeste, the westers of the liha da Boavista, and the banks between that island and liha do Maio and liha de Santago require modem survey. The relevant harbours were resurveyed between 2005 and 2010.
	Central African Republic	-1						Inland Waterways
0° Brazil	Chad	-1						Inland Waterways
Chile C1a C2 C1a 47°20'S C1b	Congo	51	0	0	0	49	100	 Data derived from EAtHC technical visit. A routine resurvey programme is needed in unstable areas in the approaches to Pointe-Noire, and in the approach channel and port after dredging operations. Depths fall away quickly beyond the edge of the shelf and there are no dangers to surface navigation. However survey information is required for the extensive offshore installations so that they can be charted to ensure safe navigation in their vicinity.
IH IH		27	0	0	100	73	0	 Data derived from EAtHC technical visit. Depths fall away rapidly at the edge of the narrow continental shelf. Routine re-surveys are required following dredging in Port d'Abidjan.
90° Mer	DRC	0	0	100	0	0	100	 Data derived from EABHC technical visit. A routine resurvey programme is needed in the mouth of the River Congo and in the river channels to matadi and Boma. Depths fall away quickly beyond the edge of the shelf on the flanks of the River Congo, and there are no dangers to surface navigation. However survey information is required for the extensive offshore installations so that they can be charted to ensure safe navigation in their vicinity.
	Equatorial Guinea	0	0	100	0	0	100	Data derived from EAHC technical visit. Modern surveys will be required following the expansion of Malabo and Luba. A routine resurvey programme must be estbalished. Survey data is required for offshore installations to ensure safe navigation in their vicinity.
	France Atlantique	81	96	0	4	19	0	

IHO C-55 17 August 2011

Limitations of C-55

- + No spatial information on location / extent of gaps
- + Based on adequacy / safety of navigation only

Solution HO Work Programme Task:

Develop IHO GIS and web server and web mapping services in support of RHCs, ENC availability, INT chart coordination (Pub S-11), status of surveys, charting and hydrographic capabilities (Pub C-55) and other related activities:

- IHO Yearbook (Pub P-5 + Appendix 4 Pub M-2)
- Geographical Names of Undersea Features (Pub B-8)
- Tide records

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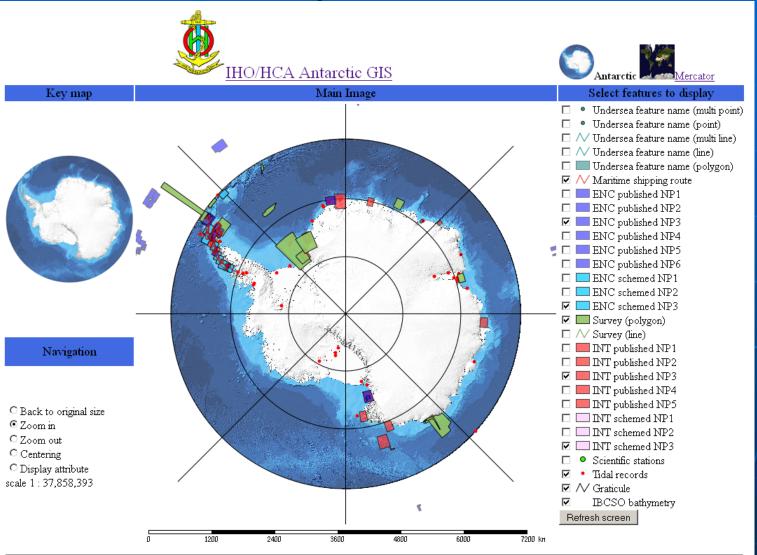
IHO GIS Development

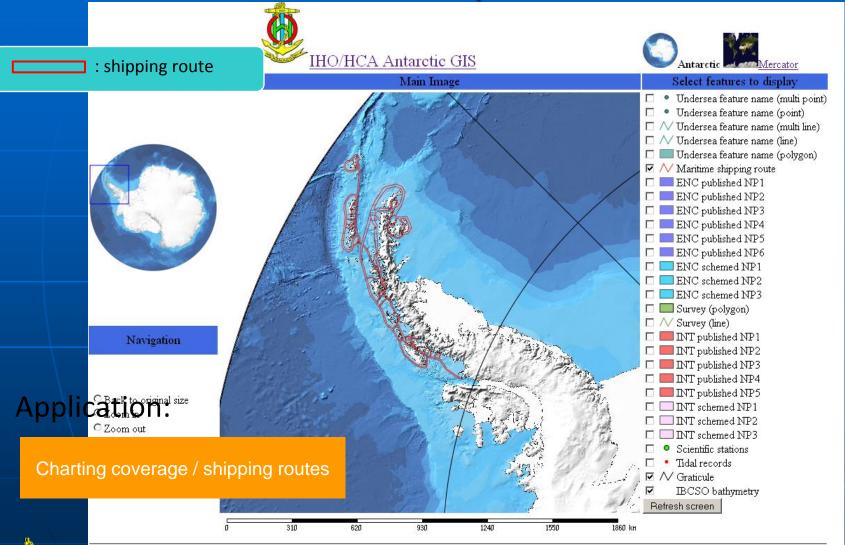
+ Scope:

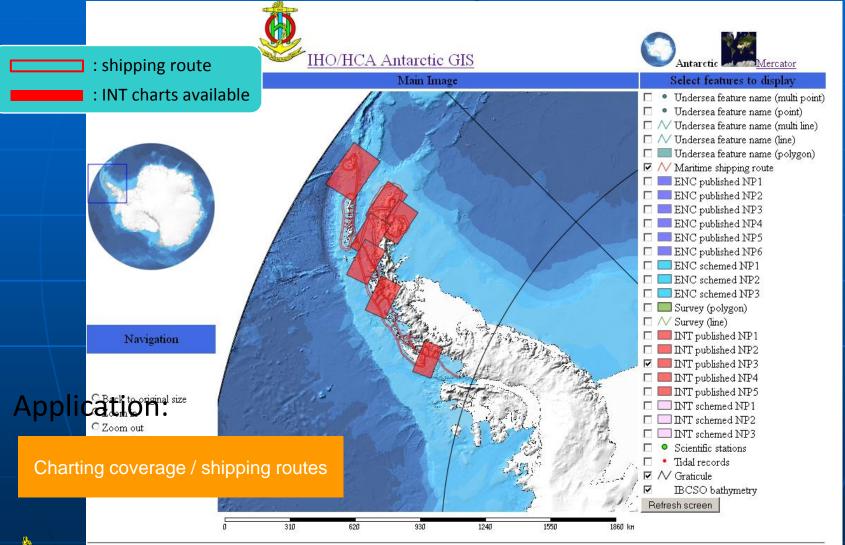
- Country and Organisation Database (to support Year Book, etc)
- GIS (to support C-55, RHC's, etc)
 - Geographical coverage and metadata for :
 - International (INT) charts schemes
 - ENCs
 - Surveys
 - Tidal records
 - Undersea Features Names

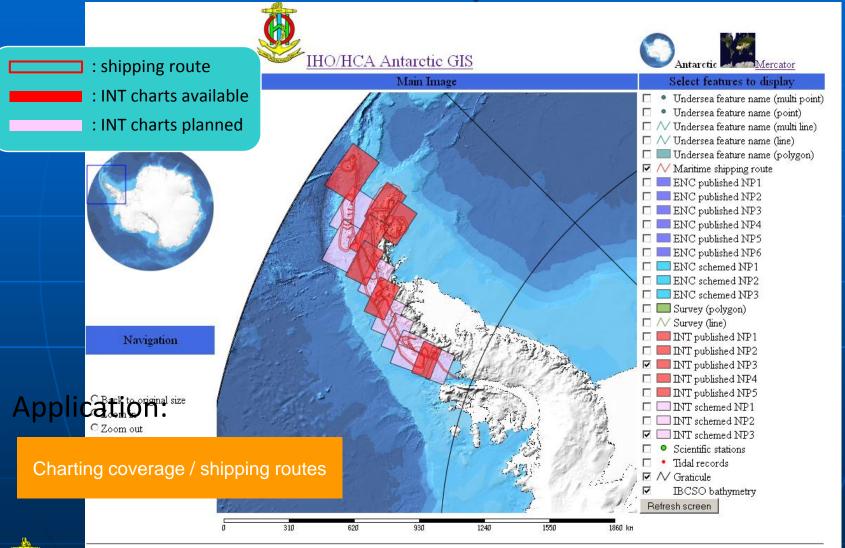
+ Pilot project underway: Antarctica GIS

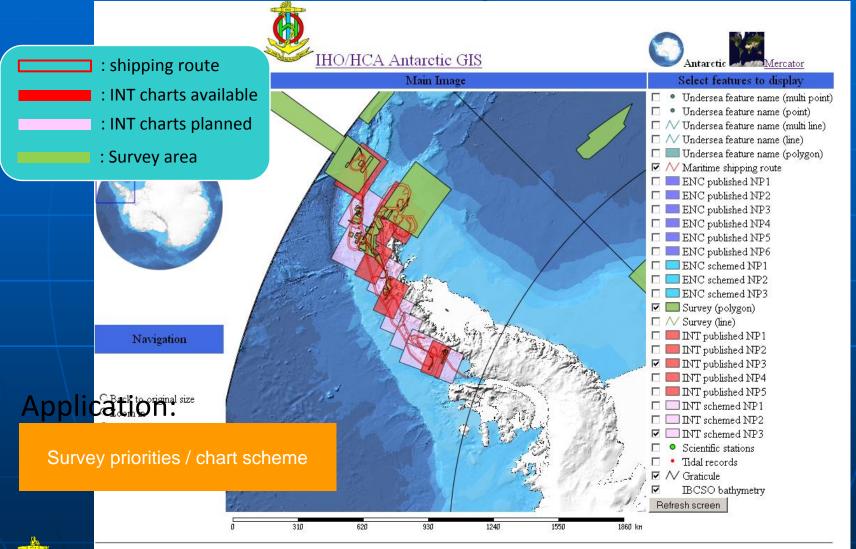


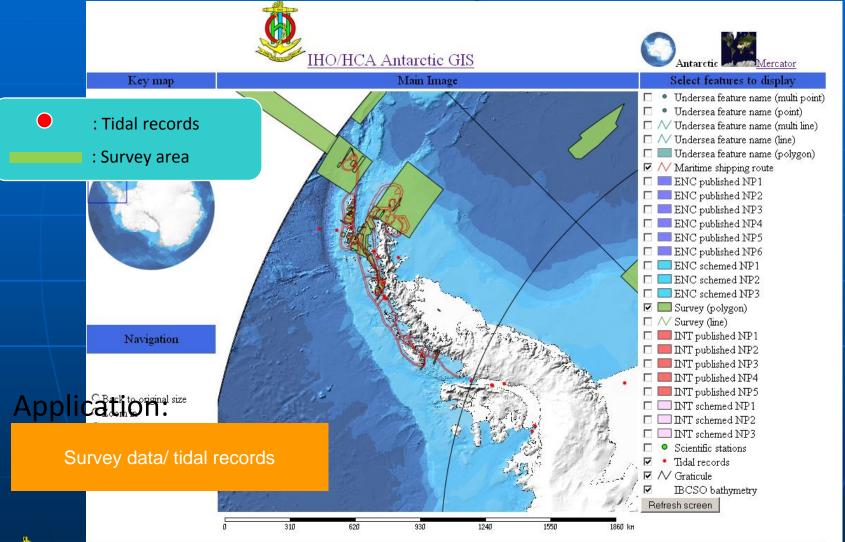


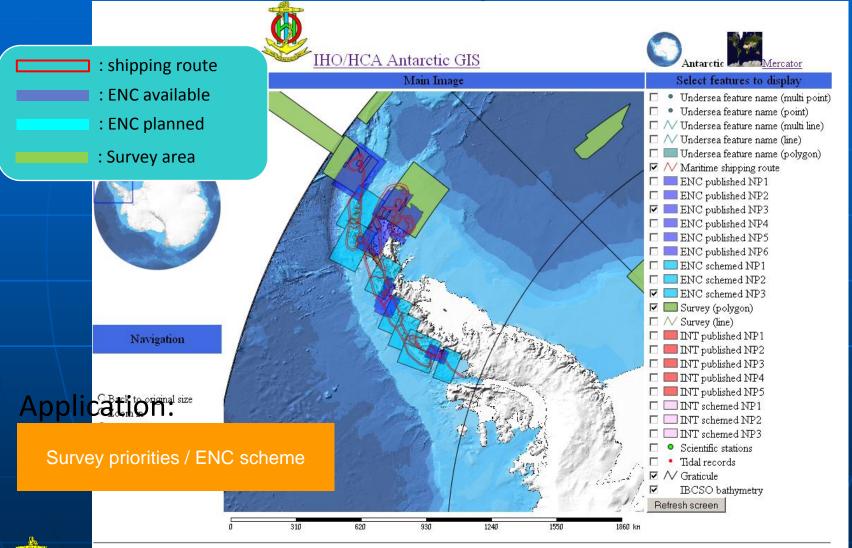


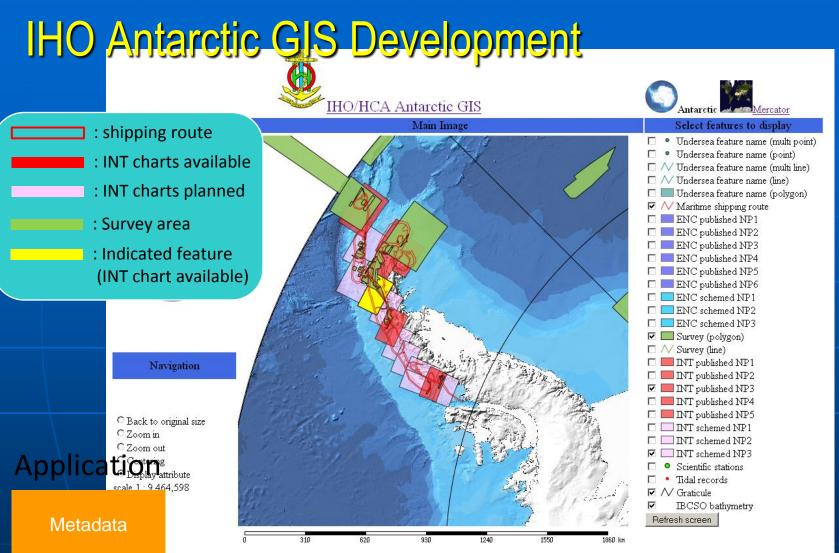












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Live Demonstration

http://hca.iho.int/

