Presentation of International Hydrographic Organization to FIG Regional Conference

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The History of Hydrography

Advances in Hydrography

This is the position of our vessel which is displayed automatically.

Sustainable Development

CONSEQUENCES OF POOR CHARTING AND NAVIGATION

• Loss of vessels, crews, cargoes and environmental damage
Safety of Life at Sea Convention (SOLAS)  
Chapter V, Regulation 9  
- 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

SOLAS Chapter V, Regulation 9 (cont.)  
In particular Contracting Governments undertake…in a manner most suitable for the purpose of aiding navigation:
- To ensure that hydrographic surveys are carried out
- To prepare and issue nautical charts, sailing directions, lists of lights, tide tables and other nautical publications
- To promulgate Notices to Mariners
- To provide data management arrangements to support these services

SOLAS Chapter V, Regulation 9 (cont.)  
- Contracting Governments undertake to ensure the greatest possible uniformity in charts and nautical publications and to take into account; whenever possible, relevant international resolutions and recommendations *

* Refer to the appropriate resolutions and recommendations adopted by the International Hydrographic Organization.

SOLAS Chapter V, Regulation 2  
- Nautical chart or nautical publication is a special-purpose map or book, or a specially compiled database from which such a map or book is derived, that is issued officially by or on the authority of a Government, authorized Hydrographic Office or other relevant government institution and is designed to meet the requirements of marine navigation

SOLAS Chapter V, Regulation 19  
Shipborne navigational equipment and systems
- All ships, irrespective of size, shall have:
  Nautical charts and nautical publications to plan and display the ship’s route for the intended voyage and to plot and monitor positions throughout the voyage; an electronic chart display and information system (ECDIS) may be accepted as meeting the chart carriage requirements of this subparagraph;

The Electronic Chart that has been loaded into the ECDIS system, covers the LILLA VARTAN waterway close to STOCKHOLM.
As our vessel progresses, we may want to get advanced information about navigational features that we will soon be approaching. This is a picture of Fjäderholmarna that we can call up from the navigation database.

AUTOMATIC INFORMATION SYSTEM (AIS)

Changes to the Chart are automatically applied.

Tidal information will also be of importance, especially when approaching ports or shallow water.

The navigator must keep a record of vessels progress. When using a paper chart, he records this information in a log book. The ECDIS records this information automatically, and can display it at any time during the passage.
UN Convention on Law Of the Sea
Art. 76
The coastal State shall establish the outer edge of the continental margin wherever the margin extends beyond 200 nautical miles from the baseline.

Sustainable Development

Safe & Efficient Maritime Operations

International Hydrographic Organization
Posturing for the Future

Structure of the IHO
ENC Production Status

Available
Produced but N/A
Planned

ECO – Tourism

Partnerships in Capacity Building

UN Assembly Resolution A/53/32 (1998)
“Invites States to cooperate in carrying out hydrographic surveys and in providing nautical services for the purpose of ensuring safe navigation as well as to ensure the greatest uniformity in charts and nautical publications and to coordinate their activities so that hydrography and nautical information is made available on a worldwide scale.”

UN Assembly Resolution A/58/240 (2003)
• Welcomes the work of the IHO,
• Encourages increased membership,
• Invites IHO/IMO efforts to accelerate transition to electronic charts and increased coverage of hydrographic information,
• Encourages intensified efforts to increase hydrographic capacity in least developed countries and Small Island Developing States.

GECBO-Nippon Foundation
The next generation of ocean mappers
Advancing the Use of ECDIS

Expanding the Use of Hydrographic Data