



International Hydrographic Organization

MEETING BETWEEN IHO AND EUROPEAN COMMISSION

Brussels, 10 October 2012

Review of the IHO work programme in relation
with EC - IHO cooperation

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IHB

Background



Hydrography provides the
fundamental backdrop

for almost everything that happens
in, on or under the sea



Hydrography supports :

- Safety of navigation
- Protection of the marine environment
- National infrastructure development
- Coastal zone management
- Marine exploration
- Resource exploitation – minerals, fishing, energy
- Maritime boundary delimitation (UNCLOS, others)
- Maritime defence and security
- Disaster prevention and response



IHO

- intergovernmental consultative and technical organization
- established in 1921
- to support safety of navigation and the protection of the marine environment
- host agreement with the Government of Monaco

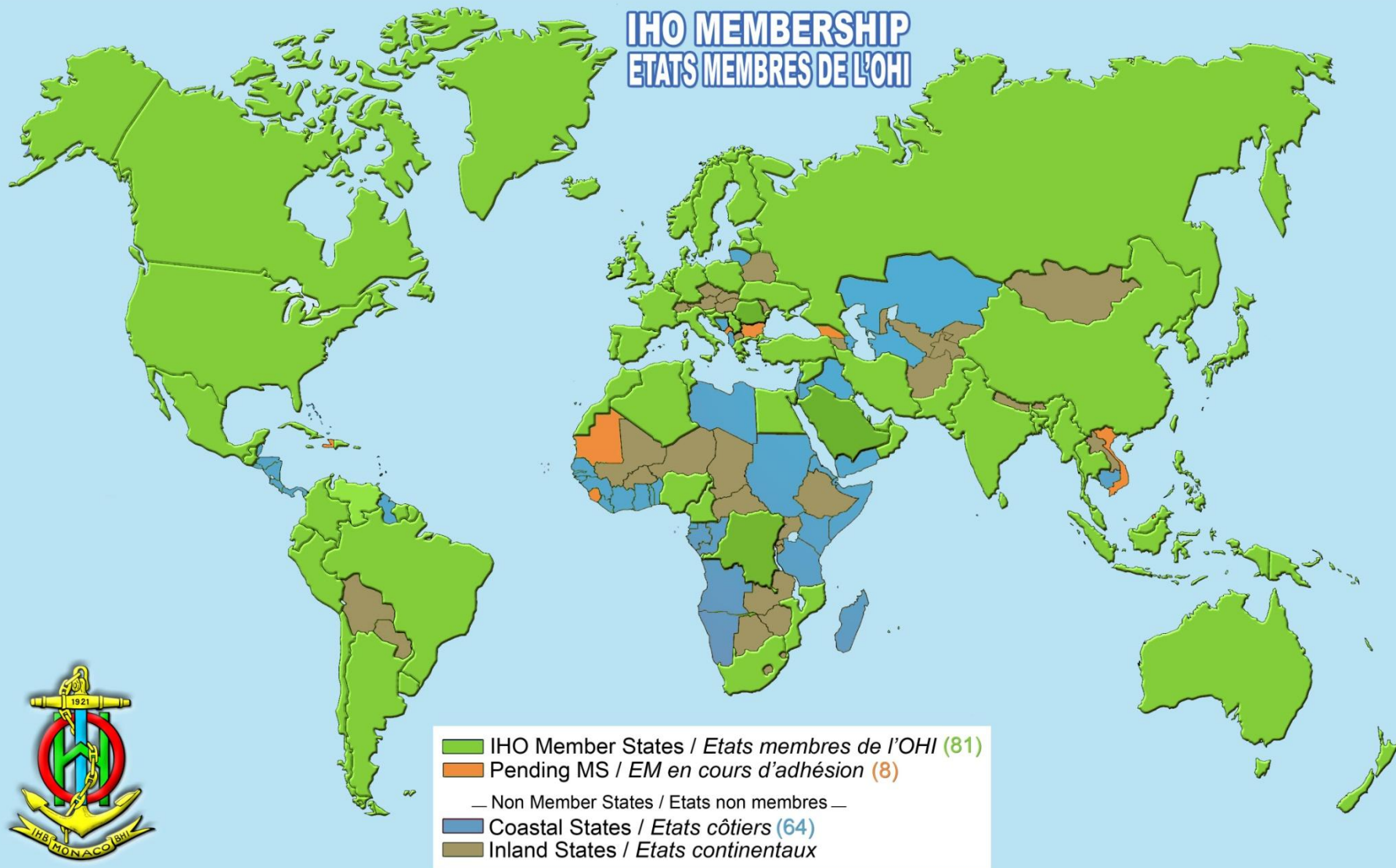


IHO Mission

- ... 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*



IHO Member States – 2012



IHO Basic Documents

- IHO Convention (1970)
- Protocol of amendments
(approved by the Conference in 2005 – not yet in force)
- General Regulations
- Financial Regulations
- Rules of procedure for the Conferences
- Repertory of IHO Resolutions
- IHO Strategic Plan
- 5-year Work Programme and Budget (revised annually)



INTERNATIONAL HYDROGRAPHIC CONFERENCE

INTERNATIONAL
HYDROGRAPHIC BUREAU

WGs as required

Finance Committee
(FC)

Hydrographic Services and Standards Committee
(HSSC)

Technical
Working
Programme

other WGs as required

Inter-Regional Coordination Committee
(IRCC)

Regional Hydrographic
Commissions

Capacity Building
Sub-Committee

Regional
Coordination

other WGs as required



International Hydrographic Bureau

IHO Secretariat

19 Permanent Personnel

- 3 Directors
- 5 Assistant Directors
- 2 + 1 Translators
- 8 Supporting Staff

Officers seconded by Member States



IHO Decision Making

- The Conference approves the Work Programme and the Budget
- Committees and WGs depend on active participation from Member States
- Committees and WGs only provide proposals
 - Unless decided at a Conference, ...
 - ... ALL Member States are consulted
 - simple majority required for technical decisions
 - 2/3 majority required for other matters
 - Not responding, is in effect = “NO”
- Normal procedure for many inter-governmental organizations

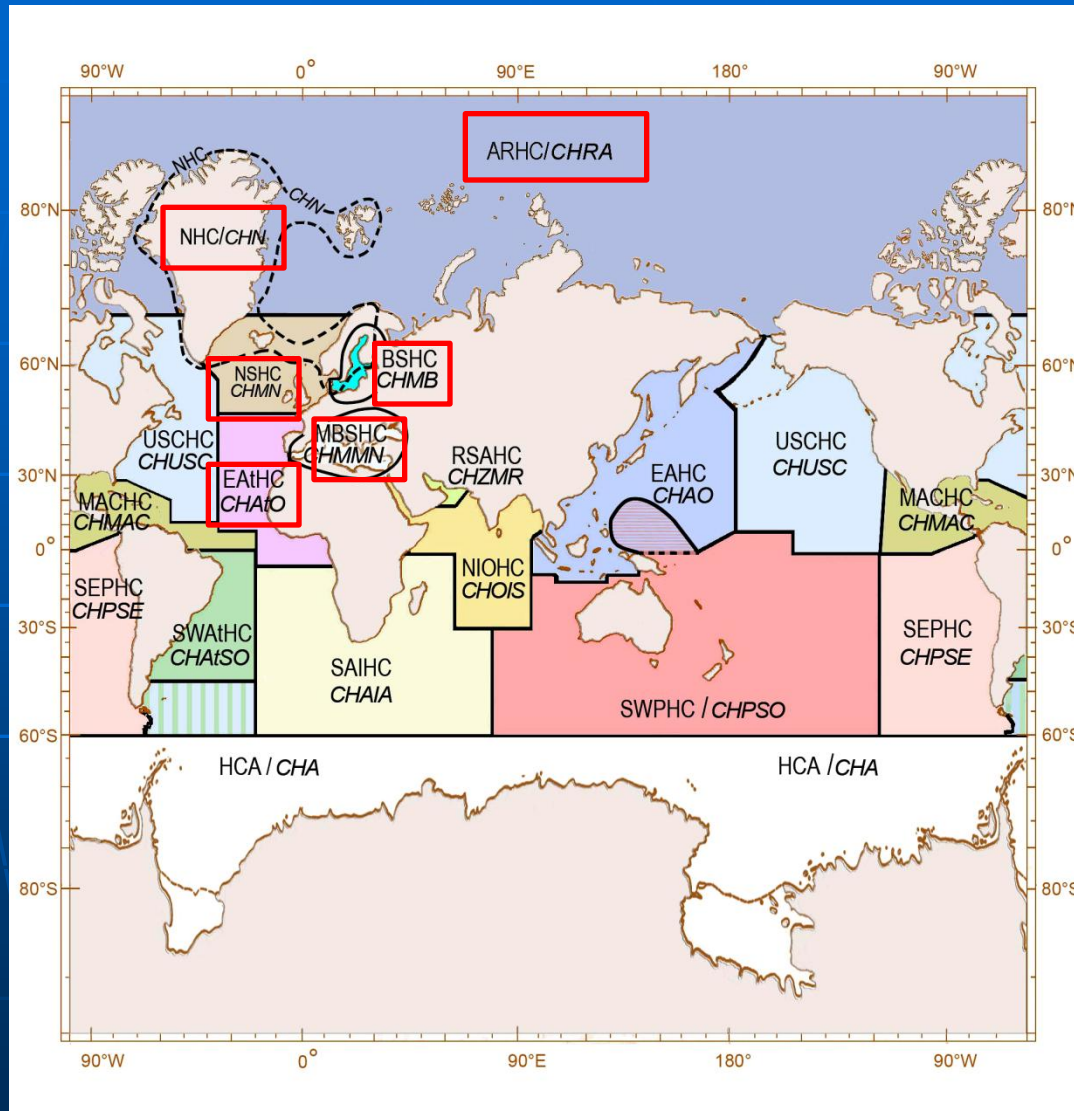


Regional Hydrographic Commissions

- regional co-ordination of
 - nautical information
 - hydrographic surveys
 - production of nautical charts and publications
 - training
 - technical cooperation
 - hydrographic capacity building projects



Regional Hydrographic Commissions



European dimension of IHO

EU Members	NHC	BSHC	NSHC	MBSHC	EAtHC	ARHC
Austria						
Belgium			XXX			
Bulgaria						
Cyprus				XXX		
Czech Republic						
Denmark	XXX	XXX	XXX			XXX
Estonia		XXX				
Finland	XXX	XXX				X
France			XXX	XXX	XXX	
Germany		XXX	XXX			
Greece				XXX		
Hungary						
Ireland			XXX			
Italy				XXX		
Latvia		XXX				
Lithuania		XX				
Luxembourg						
Malta				XX		
Netherlands			XXX			
Poland		XXX				
Portugal					XXX	
Romania				XXX		
Slovakia						
Slovenia				XXX		
Spain				XXX	XXX	
Sweden	XXX	XXX	XXX			
United Kingdom			XXX	XX	X	
Other EEA members						
Iceland			XXX			X
Liechtenstein						
Norway	XXX		XXX			XXX

XXX: Full member
XX: Associate member
X: Observer



Review of the items of the IHO Work Programme in relation with EC-IHO cooperation

... maintain and increase the opportunities of scientific, technical, professional and operational support, through a continuing programme of co-operation leading to a mutual sharing of knowledge ...



IHO Strategic Directions (1/2)

- Strengthen the role and effectiveness of the IHO
 - ... respond more efficiently and effectively to the needs of the maritime community, government, science and industry for hydrographic data, products and information.
- Facilitate global coverage and use of official hydrographic data, products and services
 - ... achieve global coverage and availability of high quality official hydrographic data, information, products and services necessary for safety of navigation at sea and for non-navigational uses, e.g. by means of the developing spatial data infrastructure.



IHO Strategic Directions (2/2)

- Raise global awareness of the importance of hydrography
- Assist Member States to fulfill their roles
 - ... help and support Member States in fulfilling their present roles and in meeting future demands and requirements as effectively and efficiently as possible.



IHO Work Programme Structure

Breakdown:

- Programme
 - Elements
 - Tasks
- Programme 1: Corporate Affairs
- Programme 2: Hydrographic Services and Standards
- Programme 3: Inter Regional Coordination and Support



Corporate Affairs:

■ Element 1.1 Cooperation with International Organizations and participation in relevant meetings

Objective: To **maintain relationships** with relevant international organizations in order to further the interests of the IHO by enlisting their support and cooperation, and to **participate in projects of common interest**. Represent IHO and participate in international forums dealing with matters of relevance to the IHO WP, including:

...

- Task 1.1.4: European Union Initiatives (such as INSPIRE)



Hydrographic Services and Standards (1/4):

- Element 2.1 Technical Programme Coordination
- Element 2.2 Hydrographic Data Transfer Standards

Objective: To monitor developments related to transfer standards for digital hydrographic data, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

- Task 2.2.2: Maintain and extend the relevant IHO standards ...
 - Maintenance of S-57 (IHO Transfer Standard for Digital Hydrographic Data)
 - Development of S-100 (IHO Universal Hydrographic Data Model) and associated Product Specifications

Note: S-100 recognized by IMO as the baseline for creating a framework for data access and services under the scope of SOLAS when developing the e-navigation strategy.



Hydrographic Services and Standards (2/4):

■ Element 2.3 Nautical Cartography

Objective: To monitor developments related to nautical cartography for paper nautical charts and the colours, symbols and display rules used to show SENC information on ECDIS, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

■ Element 2.4 Digital Data Protection and Authentication

Objective: To monitor developments related to data protection and data authentication, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

■ Element 2.5 Data Quality

Objective: To monitor developments related to methods of classifying and depicting the quality of hydrographic information, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.



Hydrographic Services and Standards (3/4):

■ Element 2.6 Nautical Publications

Objective: To monitor developments related to the preparation of nautical publications, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

■ Element 2.7 Tides and Datums

Objective: To monitor developments related to tidal and water level observation, analysis and prediction and other related information including vertical and horizontal datums, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.

■ Element 2.8 Digital Data Updating

Objective: To monitor developments in standardized processes for the updating of digital hydrographic data products, to develop and maintain the relevant IHO standards, specifications and publications, and to provide technical advice as appropriate.



Hydrographic Services and Standards (4/4):

■ Element 2.9 Marine Spatial Data Infrastructures

Objective: To monitor developments related to the hydrographic component of Spatial Data Infrastructures, to develop and maintain the relevant IHO publications, and to provide technical advice as appropriate.

- Task 2.9.2: Maintain the relevant IHO standards ...
 - C-17: Spatial Data Infrastructures: “The Marine Dimension” - Guidance for Hydrographic Offices



Inter Regional Coordination & Support (1/3):

- Element 3.1 Cooperation with Member States and attendance at relevant meetings

Objective: To facilitate IHO MS coordination, cooperation and collaboration to **improve hydrographic services and the provision of hydro-cartographic products** through the structure of the RHCs.

- Element 3.2 Increase participation by non Member States

Objective: To raise awareness in non-Member States of the importance of hydrography and nautical charting services and their related products. Give advice to Coastal States on how to comply with international regulations such as SOLAS Chapter V and highlight the **importance of coordinated efforts in providing for safety of navigation and protection of the marine environment**. Stress the importance of becoming an IHO Member State and of integration in the work of the RHCs.



Inter Regional Coordination & Support (2/3):

- Element 3.3 Capacity Building Management
- Element 3.4 Capacity Building Assessment

Objective: To assess the hydrographic surveying, nautical charting and nautical information status of nations and regions where hydrography is developing. Provide guidelines for the development of local hydrographic capabilities taking into account the regional context and possibilities of support for shared capabilities. **Identify regional requirements and study the possibilities for capacity building assistance and training from the CB Fund and other sources**

- Element 3.5 Capacity Building Provision

Objective: To undertake initiatives for the provision of general support, training and education to address identified CB shortcomings; identify aid agencies and other sources of funds; **liaise with MS, other organizations and funding agencies for such provision and establish and participate in joint development projects.**



Inter Regional Coordination & Support (3/3):

■ Element 3.6 Coordination of Global Surveying and Charting

Objective: To facilitate the achievement of a world-wide quality nautical charting coverage to suit the needs of the mariner in support of safe and efficient navigation through the development of specifications and standards for the production, distribution and updating of cartographic products and supporting publications.

■ Element 3.7 Maritime Safety Information

Objective: To facilitate the efficient provision of MSI to mariners through coordination and the establishment of relevant standards between agencies.

■ Element 3.8 Ocean Mapping Programme

Objective: To contribute to global ocean mapping programmes through the IHO/IOC General Bathymetric Chart of the Oceans (GEBCO) Project, the International Bathymetric Chart (IBC) Projects and other related international initiatives.



Questions?



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