

INTERNATIONAL HYDROGRAPHIC ORGANIZATION



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ANNUAL REPORT 2012

Parts 1 & 2

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IHB MON

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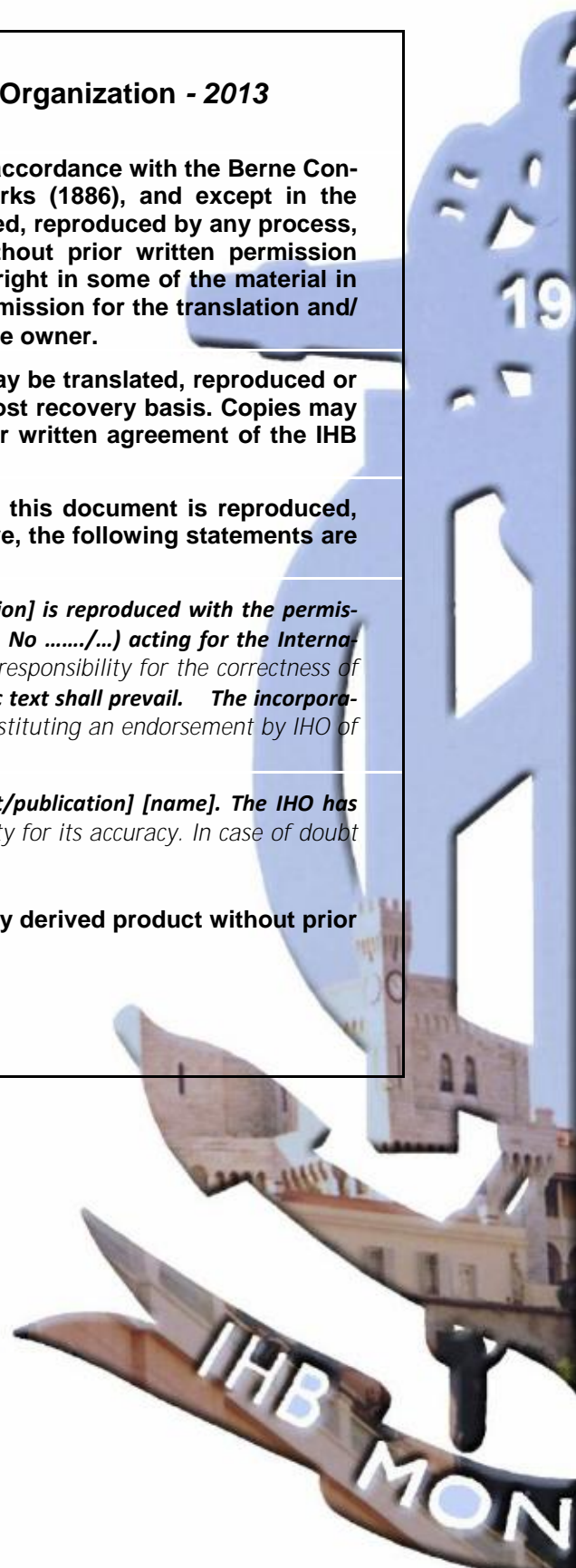
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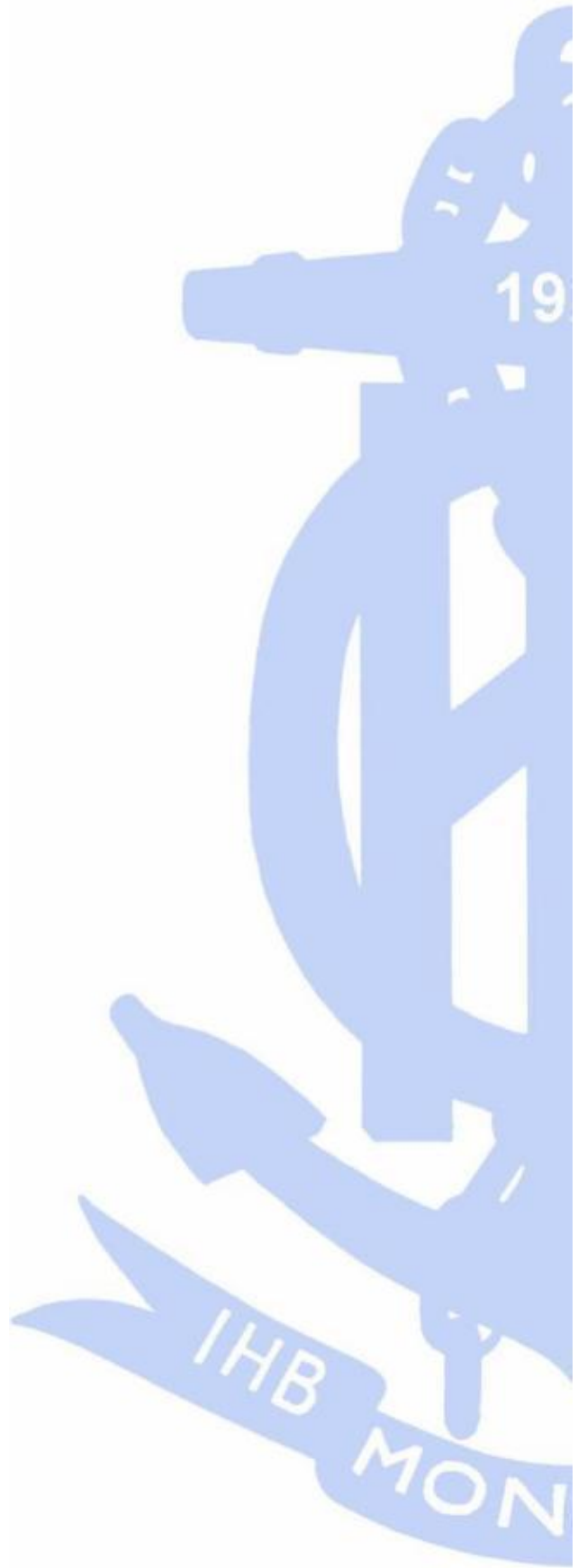
ANNUAL REPORT

OF THE

**INTERNATIONAL HYDROGRAPHIC
ORGANIZATION**

2012

PARTS 1 & 2



MEMBER STATES OF THE INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO)

Algeria	Monaco
Argentina	Morocco
Australia	Mozambique
Bahrain	Myanmar
Bangladesh	Netherlands
Belgium	New Zealand
Brazil	Nigeria
Cameroon	Norway
Canada	Oman
Chile	Pakistan
China	Papua New Guinea
Colombia	Peru
Croatia	Philippines
Cuba	Poland
Cyprus	Portugal
Democratic People ' s Republic of Korea	Qatar
Democratic Republic of the Congo*	Republic of Korea
Denmark	Romania
Dominican Republic*	Russian Federation
Ecuador	Saudi Arabia
Egypt	Serbia*
Estonia	Singapore
Fiji	Slovenia
Finland	South Africa
France	Spain
Germany	Sri Lanka
Greece	Suriname
Guatemala	Sweden
Iceland	Syrian Arab Republic
India	Thailand
Indonesia	Tonga
Iran (Islamic Republic of)	Trinidad and Tobago
Ireland	Tunisia
Italy	Turkey
Jamaica	Ukraine
Japan	United Arab Emirates
Kuwait	United Kingdom of Great Britain and Northern Ireland
Latvia	United States of America
Malaysia	Uruguay
Mauritius	Venezuela (Bolivarian Rep. of)
Mexico	

Pending Member States: Bulgaria, Georgia, Haiti, Mauritania, Montenegro, Sierra Leone, Viet nam, Brunei Darussalam.

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INTERNATIONAL HYDROGRAPHIC BUREAU DIRECTING COMMITTEE

Up to 31st August

President: Vice Admiral **Alexandros MARATOS**, Greece
Directors: Captain **Hugo GORZIGLIA**, Chile
& Captain **Robert WARD**, Australia

From 1st September

President: **Robert WARD**, Australia
Directors: **Mustafa IPTES**, Turkey
& **Gilles BESSERO**, France



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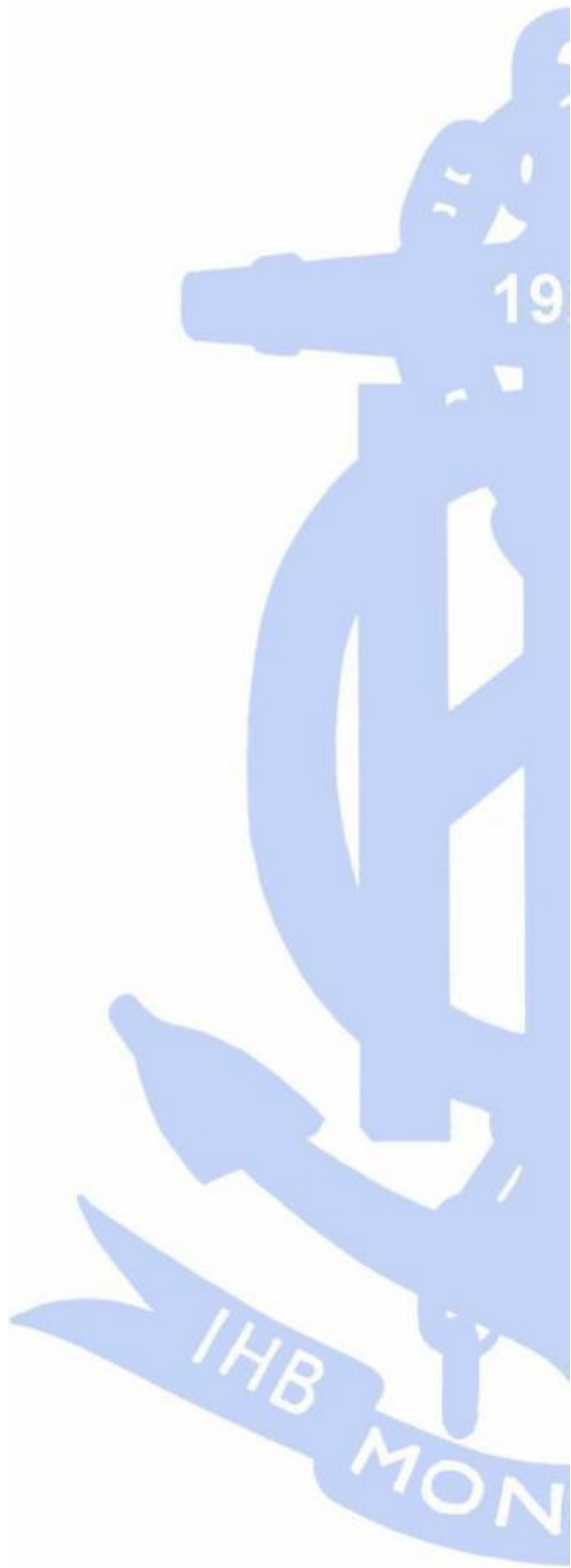
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INTRODUCTION

The Directing Committee is pleased to present the Annual Report of the activities of the Organization for 2012. This report provides an account of the principal activities and achievements of the IHO, the subordinate bodies of the Organization and the IHB during the year. The report also indicates the cooperation and participation of other international organizations and stakeholders in the execution of the IHO Work Programme (WP).

The Report consists of two parts:

Part 1 – General

Part 1 provides short reports and observations on the execution of the IHO Work Programme. Part 1 is structured based on the three parts of the Work Programme: namely Corporate Affairs, Hydrographic Services and Standards and Inter-Regional Coordination and Support. In this way the Report is also directly related to the technical structure of the Organization which is based on the Secretariat (Corporate Affairs) function and two principal Committees, the Hydrographic Services and Standards Committee and the Inter-Regional Coordination Committee. As far as possible, Part 1 of the Report uses the same headings as in the approved Work Programme.

Part 2 – Finances

Part 2 provides the financial statement and accounts for 2012 together with the report of the external auditor.

Summary and Highlights

2012 was a busy year for the IHO. The IHO Work Programme has never been as full as it is now. The Table 4 at Appendix V comparing outputs from previous years clearly illustrates this. The scope and number of different tasks being undertaken by the Organization and its participating Member States, Observer Organizations and invited Expert Contributors was also clearly shown in the comprehensive review of progress that was undertaken during the XVIIIth International Hydrographic Conference (IHC). The Conference began to consider whether the resources available at the IHB were sufficient to meet emerging requirements.

The level of interaction and cooperation with other international organizations continued to grow - this was especially true for the IHO's role in the International Maritime Organization (IMO) and the International Association of Marine Aids to Navigation and Lighthouse authorities (IALA), where the IHO provided increasing levels of both technical advice and also contributed to successful cooperative capacity building activities.

The importance of the IHO S-100 standard adopted in January 2010 received a significant boost when the IMO considered it as the baseline standard for data and information exchange under its e-Navigation concept. This means that in the future, as well as S-100 based nautical charting services, many e-Navigation data and information exchange services will also be based on S-100. This recognition of the standard and its potential is a great credit to the IHO and those that are working on the maintenance and further development of the standard but brings with it a significant responsibility because a wider maritime community will now depend on S-100 as much if not more than HOs and ECDIS manufacturers.

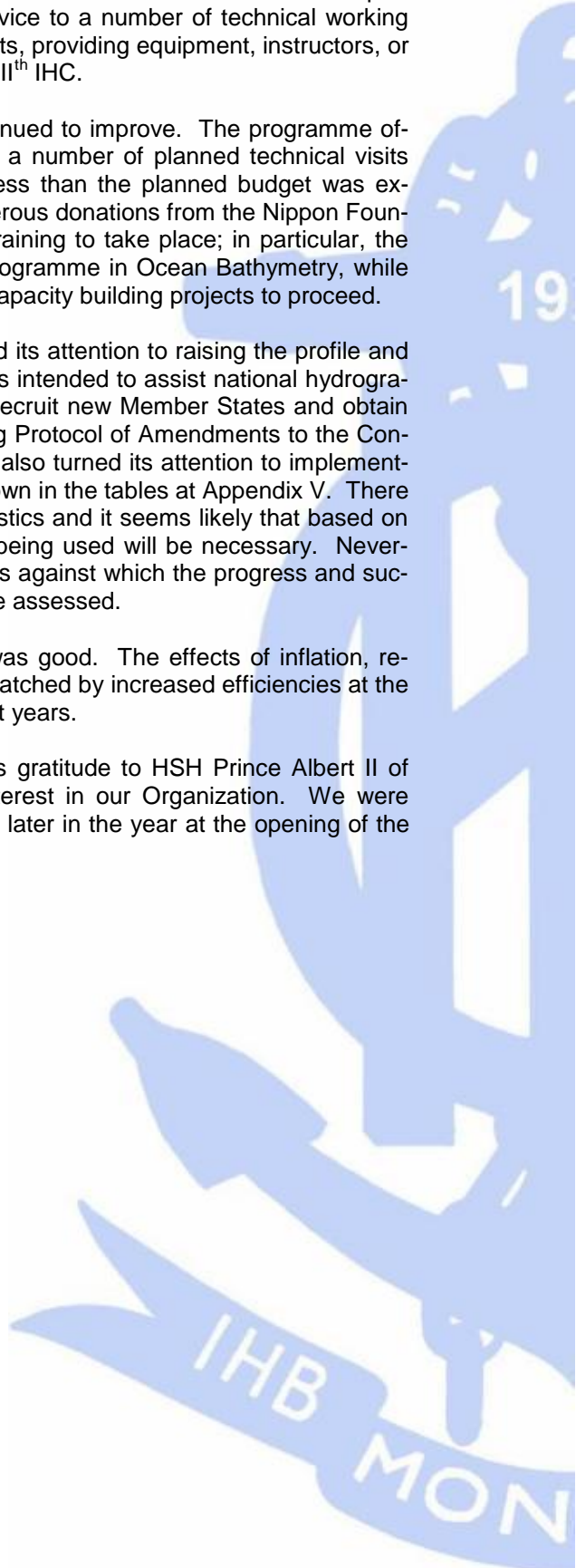
The level of industry involvement in the IHO programme also continued to increase. Invited Expert Contributors provided much needed practical assistance and advice to a number of technical working groups as well as participating in various Capacity Building projects, providing equipment, instructors, or both. Their contribution was specifically acknowledged at the XVIIIth IHC.

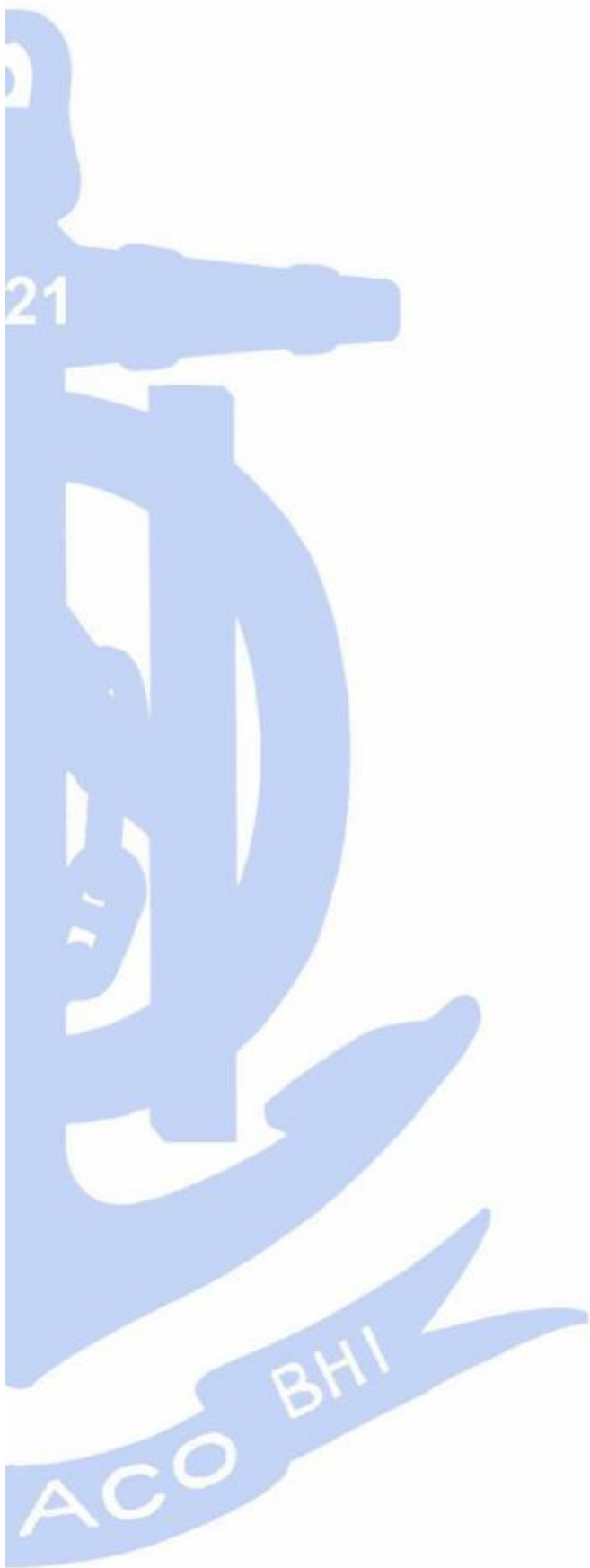
The management of the IHO Capacity Building programme continued to improve. The programme offered a range of valuable courses and activities. Unfortunately a number of planned technical visits could not be conducted for various reasons, and as a result, less than the planned budget was expended. The surplus will be carried over into future years. Generous donations from the Nippon Foundation of Japan and the Republic of Korea enabled significant training to take place; in particular, the Nippon Foundation of Japan continued to finance the training programme in Ocean Bathymetry, while the Republic of Korea enabled a number of otherwise unfunded capacity building projects to proceed.

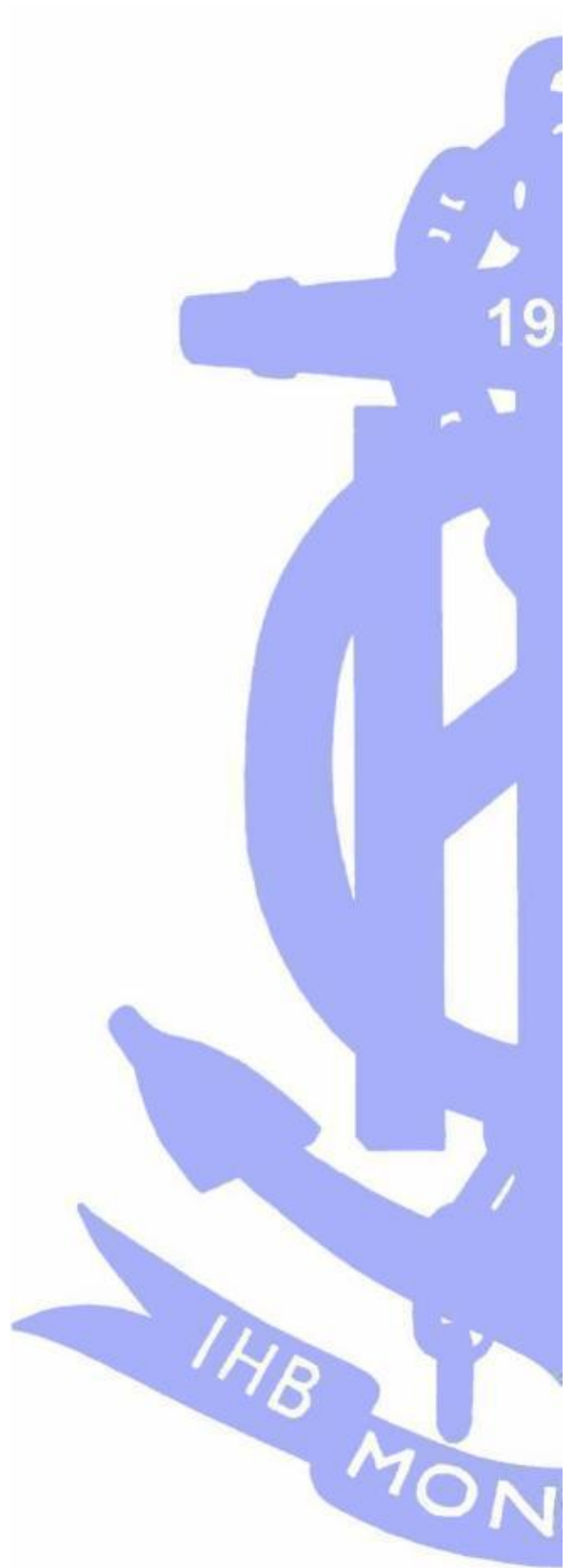
Towards the end of the year, the new Directing Committee turned its attention to raising the profile and awareness of the Organization at higher diplomatic levels. This is intended to assist national hydrographers by raising national priorities for hydrographic services, to recruit new Member States and obtain the agreements of the majority required to enable the outstanding Protocol of Amendments to the Convention on the IHO to enter into force. The Directing Committee also turned its attention to implementing the Performance Monitoring scheme. The first results are shown in the tables at Appendix V. There is limited historical data available from which to derive trend statistics and it seems likely that based on experience, progressive adjustments to the criteria and metrics being used will be necessary. Nevertheless, for the first time, the Annual Report contains key statistics against which the progress and success of various parts of the IHO Work Programme can begin to be assessed.

At the end of 2012, the financial situation of the Organization was good. The effects of inflation, reduced investment income and increasing costs being generally matched by increased efficiencies at the IHB and by the fortuitous addition of new Member States in recent years.

In conclusion, the Directing Committee would like to express its gratitude to HSH Prince Albert II of Monaco and his government for the continued support and interest in our Organization. We were honoured by the presence of Prince Albert at the XVIIIth IHC and later in the year at the opening of the combined ABLOS Conference and GEBCO Science Day.









ANNUAL REPORT

OF THE

**INTERNATIONAL HYDROGRAPHIC
ORGANIZATION**

2012

PART 1 - GENERAL



11th Meeting of the SWPHC
Brisbane, Australia, 13-16 February



12th NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION
(NIOHC)
COLOMBO, SRI LANKA - 20th to 23rd March



35th Meeting of US-CANADA HYDROGRAPHIC COMMISSION
Niagara Falls, Canada, 14 May



NORDIC HYDROGRAPHIC COMMISSION
Copenhagen, Denmark, 22-23 May



ITLoS course with IHB President and Directors
Monaco, 30 August



CIRM

CIRM ANNUAL MEETING
Rome, Italy, 16-17 April



XXXVth ANTARCTIC TREATY CONSULTATIVE MEETING
Hobart, Australia, 10-20 June



E-NAVIGATION UNDERWAY CONFERENCE
MV Crown of Scandinavia, at Sea, 18-20 January



WORKSHOP ON "ECDIS-ENC SOFTWARE ISSUES"
Monaco, IHB, 25-26 January



IMO MSC 91 Plenary in session
London, UK, 26-30 November

WORK PROGRAMME 1 CORPORATE AFFAIRS

Introduction

IHO Work Programme 1 “Corporate Affairs” covers the provision of the secretariat of the IHO, through the IHB and the management and fostering of relations with other international organizations. The Work Programme is executed primarily by the Directing Committee.

Element 1.1 Co-operation with International Organizations

This element covers liaison and cooperation between the IHO and other international organizations. In 2012, the IHO was represented in most cases by a Director or an Assistant Director. Notable activities during the year are as follows.

Task 1.1.1 Antarctic Treaty Consultative Meetings (ATCM)

The IHO was represented by Director Hugo Gorziglia at the 35th Antarctic Treaty Consultative Meeting in Hobart, Australia from 10 to 20 June. Antarctic Treaty Parties and related Antarctic international bodies met as they do annually, to discuss matters relating to the management of the Antarctic Treaty area and to further develop the Antarctic Treaty System.

The IHO presented its report on “Cooperation in Hydrographic Surveying and Charting of Antarctic Waters”. The report informed the meeting that the IHO Hydrographic Commission on Antarctica had been proactive with other organizations in the region and was embarking on a risk assessment programme for the Antarctic region aimed at developing a priorities schedule to improve Antarctic charting. The IHO invited the ATCM to consider how the IMO Polar Code, when introduced, would be implemented regarding hydrographic activities in Antarctica.

Task 1.1.2 Council of Managers of National Antarctic Programmes (COMNAP)

Task 1.1.7 International Association of Antarctic Tour Operators (IAATO)

Task 1.1.15 Scientific Committee on Antarctic Research (SCAR)

COMNAP, IAATO and SCAR are three of the principal stakeholder organizations that provide input to and collaborate in the work of the IHO Hydrographic Commission on Antarctica. In 2012, COMNAP and IAATO were both represented at the annual Commission meeting.

Task 1.1.5 International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA)

Close cooperation with IALA continued throughout the year. Regular discussions and informal contact were maintained as part of IMO and other meetings where both organizations were represented. In addition, Assistant Director Huet represented the IHO at an e-Navigation conference jointly organised by IALA and the Danish Maritime Authority on the Baltic Sea ferry Crown of Scandinavia. In particular, the conference addressed the implications of IMO’s e-Navigation strategy implementation plan, and the need for the harmonization of test bed methodology. The IHO S-100 standard was seen as a key component in the transfer of relevant information in an e-Navigation digital environment. The IHB hosted an S-100 technical liaison meeting with IALA representatives in January to assist IALA in the development of various data exchange standards for its purposes.

The IHB continued to lend support and advice to the IALA secretariat concerning the IALA World Wide Academy. The Academy is, in effect, the IALA Capacity Building Programme. It is modelled, in large part, on the IHO CB Programme and experience.

Task 1.1.8 International Cartographic Association (ICA)

Cooperation and discussion between the officers of ICA and the IHB developed well during the year. The President of ICA, Professor Georg Gartner, represented his organization at a number of meetings and events of the UN Committee of Experts on Global Geospatial Information Management (GGIM) alongside members of the IHB Directing Committee. The ICA President also attended the International Hydrographic Conference in Monaco in April, where he addressed delegates during the Opening Ceremony before signing an MoU that formalised the long-standing liaison and cooperation between the two organizations. He also chaired the judging panel for the Member States' chart exhibition.

Task 1.1.9 International Electrotechnical Commission (IEC)

Liaison with IEC was maintained in a number of ways. As well as formal correspondence to ensure that the on-going development of relevant IHO standards, especially those related to ECDIS, was in harmony with the work programmes of the IMO and IEC, the Chairman of IEC Technical Committee 80, Dr Andy Norris, attended a number of IHO meetings concerning ECDIS operating anomalies.

Task 1.1.10 International Maritime Organization (IMO)

Liaison and cooperation with IMO was particularly successful in 2012. The IHO and IMO Secretariats communicated regularly and effectively on all matters of mutual interest, covering such things as technical issues related to the implementation of ECDIS as a carriage requirement in some classes of ships, Capacity Building programmes, and the World-Wide Radio Navigational Warning Service (WWNWS). The IHO was represented by the IHB at all significant meetings of the IMO where hydrographic and chart related issues were discussed. The scope of activity being undertaken in the IMO programme involving IHO matters meant that it

is now usual for more than one IHB representative to be present at most meetings. Meetings attended by the IHB included the Maritime Safety Committee (MSC); the Sub-Committee on Safety of Navigation (NAV); the Sub-Committee on Radiocommunications and Search and Rescue (COMSAR); and the Technical Cooperation Committee (TC).

- **MSC.** The Maritime Safety Committee (MSC) is the highest technical body of the International Maritime Organization. The functions of the MSC are to consider matters concerned with aids to navigation, construction and equipment of vessels, manning from a safety standpoint, rules for the prevention of collisions, handling of dangerous cargoes, maritime safety procedures and requirements, hydrographic information, log-books and navigational records, marine casualty investigations, salvage and rescue and any other matters directly affecting maritime safety. The President and Assistant Director Wyatt represented the IHO.

The 90th and 91st sessions of the IMO Maritime Safety Committee were held at the IMO Headquarters in London from 16 to 25 May and 26 to 30 November respectively. These meetings endorsed all of the proposals put forward by the subordinate bodies, including the work of the IHO in the implementation of ECDIS, development of an IMO e-Navigation strategy, and revisions and improvements to WWNWS documentation.

- **IMO e-Navigation Strategy.** MSC reviewed and endorsed the work of its subordinate bodies concerning work on developing an IMO e-Navigation strategy. The IHO, mainly through the IHB, contributed to this work throughout the year. Of particular note was the endorsement by MSC of the IHO S-100 standard as the baseline for creating a framework for data access and services under the scope of e-Navigation and the relevant parts of the Convention for Safety of Life at Sea (SOLAS). This recognition by IMO places S-100 in an important position that goes

well beyond the use of the standard principally for charting purposes.

In addition, MSC authorised the establishment of a joint IMO/IHO Harmonization Group on Data Modelling and approved its terms of reference. The principal objectives of the group will be to provide the overarching coordination to ensure the creation and maintenance of a robust and extendable maritime data structure. The group will remain dormant until such time as work items are identified for its consideration.

- **Operating Anomalies in ECDIS.** Both sessions of MSC considered various documents relating to operating anomalies identified within ECDIS, including a status report from the IHO. MSC recognised there was a need to continue to raise the awareness of mariners to operating anomalies in some ECDIS.
- **NAV.** The 58th session of the IMO Sub-Committee on Safety of Navigation (NAV58) was held at IMO Headquarters in London from 2 to 6 July. Several heads and representatives of hydrographic offices also attended the meeting as part of national delegations. The President, Director Ward and Assistant Directors Wyatt and Huet represented the IHO. A number of national hydrographers participated in the meeting as part of their national delegations.

On the subject of operating anomalies identified within ECDIS, NAV58 recognised the need for continuous monitoring of the implementation of ECDIS and any issues subsequently arising. The work undertaken to date by the IHO was acknowledged. The IHO was thanked and encouraged to continue its engagement and work in helping to resolve outstanding issues. The Sub-Committee commended the IHO for the technical workshops that it had held to coordinate activities between the various stakeholder organizations.

The IHB delegation mounted a poster display in the delegates' refreshment area for the duration of the session of NAV. The display provided information on the benefits of membership of the IHO.

- **TC.** The 62nd session of the IMO Technical Co-operation Committee (TC) was held at the IMO Headquarters in London from 6 to 8 June. The IHO did not submit a formal report, but Assistant Director Wyatt highlighted the IHO Capacity Building achievements in the last year and those activities planned for the next 12 months. Particular attention was paid to activities that have benefited, or will benefit, from direct funding of the IMO TC Fund.
- **COMSAR.** The contribution of the IHO to the activities of COMSAR are presented under Work Programme 3, element 3.7.
- **Liaison with IMO Secretary-General.** Two informal meetings took place at IMO Headquarters between the IHB President and Mr Koji Sekimizu, the IMO Secretary-General. These meetings covered all aspects of the relationship between the IHO and IMO and explored ways to ensure even greater synergies than at present. In particular, it was agreed that a formal Memorandum of Understanding between the two organizations would emphasise the close and cooperative arrangements that now exist between the two organizations and would, in effect, replace an agreement signed in 1962. The involvement of the IHO in the Secretary-General's initiative for Sustainable Maritime Development was also discussed as a way to target hydrographic assistance to developing States.

In his closing address to the 91st session of the MSC, the Secretary General of IMO thanked all those who were retiring; he particularly thanked Vice Admiral Maratos, Captain Hugo Gorziglia and Commander Steve Shipman for their work and the commitment of the IHO to the IMO.

Task 1.1.11 Intergovernmental Oceanographic Commission (IOC)

Cooperation between the IHO and IOC takes place at several levels. The detailed work of the IHO-IOC GEBCO programme falls under IHO Programme 3 and is described later in this report. High level liaison with IOC Member States and the IOC Secretariat is reported here.

Director Gorziglia represented the IHO at the 45th Executive Council of IOC in Paris, France from 25 to 28 June. The national Hydrographers of Brazil, Canada, Chile, Ecuador, Germany, Peru and Turkey were among the 40 of 144 Member States represented at the meeting. The meeting was dominated by discussions on budgetary concerns with a reduction in the IOC budget of nearly 30%. The IHO is impacted because in recent years financial support from IOC for the GEBCO programme has all but disappeared, leaving the IHO and donor organizations to support the programme alone.

Director Gorziglia took the opportunity to discuss the situation and the future involvement of IHO with the Executive Secretary and her team at the IOC Secretariat.

Task 1.1.12 International Organization for Standardization (ISO)

In February the IHO and ISO agreed a Memorandum of Understanding (MoU) declaring mutual recognition and cooperation between the two organizations to continue to develop relevant contemporary standards and avoid duplication of effort. The MoU is focussed on the work of the IHO technical programme and the work of the ISO Technical Committee 211 (TC211) that deals with geographic standards.

TC211 is responsible for the development of the ISO 19100 series of standards for geospatial information. The IHO has for a

long time been a liaison member of ISO TC211 and participates in its standards development activities. The 19100 series of standards have been used for the development of the new IHO S-100 framework standard and the supporting IHO Geospatial Information Infrastructure Registry. The work of ISO TC211 is relevant to a number of IHO technical working groups including TSMAD, SNPWG and DIPWG.

Assistant Director Pharaoh represented the IHO at the 34th working group and plenary meetings of TC211 that took place in Toulouse, France in June. The following standards and technical specifications, relevant to IHO S-100, were published as a result of the meeting: ISO/TS 19139-2 Geographic information - Metadata - XML schema implementation - Part 2: Extensions for imagery and gridded data and ISO19117 - Portrayal.

Task 1.1.13 Pan American Institute of Geography and History (PAIGH)

IHO activity with PAIGH is centred on development activities underway in the Meso-American and Caribbean Hydrographic Commission. Mr Paul Cooper represented PAIGH at this year's MACHC meeting as well as at the meeting of the Capacity Building Sub-Committee. Reports of both of these meetings are included under Programme 3.

Task 1.1.14 International Federation of Surveyors (FIG)

The IHO did not participate in any events or activities organised directly by the FIG. Nevertheless, liaison between the two organizations flourished through regular meetings between Director Ward and Mr CheeHai Teo, President of FIG, at various events associated with the UN Committee of Experts on Global Geospatial Information Management (UN-GGIM). In addition, work continued in the FIG-IHO-ICA International Board on Standards of Competence reported under Programme 3.

Task 1.1.16 United Nations Organization (UN)

As well as the liaison and cooperation with the IMO and IOC which are bodies of the UN, the IHO also enjoys observer status in the UN Assembly and participates in various UN bodies whose secretariat is at the UN Headquarters in New York.

• UN-GGIM.

In July 2011, the UN Economic and Social Council (ECOSOC) established a UN Committee of Experts on Global Geospatial Information Management (GGIM). The aim of the UN-GGIM is to advance international cooperation in geospatial information management by making accurate and authoritative geospatial information readily available, particularly in support of advancing sustainable development. The UN-GGIM reports to the UN Assembly via the UN Economic and Social Council (ECOSOC). ECOSOC has instructed UN-GGIM to work according to a five-year programme and to provide its first report in 2016.

The GGIM held its second session at UN Headquarters in New York in August. Over 50 UN Member States were represented together with representatives from 10 international organizations, including the IHO. Director Ward represented the IHO.

The work of the UN-GGIM is of relevance to the IHO, particularly in relation to the continuing development of spatial data infrastructures around the world, and the role that IHO Member States can play in the provision of fundamental data and information covering the maritime domain.

As a result of input from the IHO at GGIM-2, the status of charting and surveying has now been added to the Committee's ongoing study of the status of mapping in the world. GGIM also invited ISO, IHO, and the Open Geospatial Consortium (OGC) to develop proposals on issues related to

standard setting in the international community for consideration by the next session of GGIM in 2013.

• Global Map.

Another UN activity in which the IHO participated was the 19th meeting of the International Steering Committee on the Global Mapping Project. This meeting took place in New York immediately before the 2nd meeting of UN-GGIM. Director Robert Ward represented the IHO as an Observer.

The fundamental concept of Global Map is to develop global scale geographic information through international cooperation and is a practical outcome of discussions that took place at the United Nations Conference on Environment and Development held in 1992. Japan, who instigated the Project, funds a technical staff that manages and develops the project under the direction of the International Steering Committee comprising participating States. Most of the international organizations, including the IHO, concerned with global mapping and geospatial information, participate as liaison representatives.

The IHO has been invited by the UN-GGIM Secretariat to participate in the UN-GGIM Working Group on Global Mapping for Sustainable Development (GM4SD).

• Rio+20 Conference.

The United Nations Conference on Sustainable Development, known worldwide as the *Rio+20 Conference*, was held in Rio de Janeiro, Brazil in June. One focus of the Conference was the oceans and their biodiversity. Since hydrography and nautical cartography are key elements in any maritime activity, the IHO was present and represented by Vice Admiral Marcos Nunes de Miranda, the Hydrographer of Brazil.

Task 1.1.17 Other Organizations

- **Comité International Radio Maritime (CIRM)**

The Comité International Radio-Maritime (CIRM) held its annual Conference in Rome in April. CIRM is the body representing the maritime electronics industry in the development of relevant international regulations and standards and is recognised by the IHO as a Non-Governmental International Organization. CIRM maintained its active role in the IHO Hydrographic Services and Standards Committee (HSSC), with a number of its members also participating as Expert Contributors on various HSSC Working Groups.

Director Robert Ward represented the IHO at the Annual Meeting of CIRM and provided an update on issues and activities of interest to CIRM members, and in particular the IHO's role in addressing the various operating anomalies in ECDIS that had been brought to the attention of the IMO. He provided a progress report on the analysis of the reports received from sea using an IHO ENC ECDIS Data Portrayal and Performance Check that was issued in late 2011.

Alongside Director Ward, the Secretaries-General of the International Maritime Pilots' Association (IMPA) and the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), and representatives of the International Chamber of Shipping (ICS), and the International Electro-technical Commission (IEC) also attended the meeting as observers.

- **European Union (EU)**

Following the signature, during the Opening Ceremony of the XVIIIth International Hydrographic Conference, of a Memorandum of Understanding on establishing cooperation on maritime affairs between the IHO and the European Commission (EC), a kick-off meeting took

place in Brussels, Belgium, in October. Hosted by the Directorate-General for Maritime Affairs and Fisheries (DG Mare), the meeting was attended by six representatives from the European Commission (DG Mare, DG Mobility and Transport, DG Environment, DG Enterprise and Industry, DG Regional Policy) and nine representatives from the IHO (France, Germany, Norway, Sweden, United Kingdom, and Director Bessero from IHB).

The meeting reviewed the progress of the European Marine Observation and Data Network (EMODNET) and other regional and national projects of mutual interest (Baltic Sea Bathymetric Database, MonaLisa, Bringing Sea and Land Together, Litto3D). The recently published Green Paper on "Marine Knowledge 2020" was introduced by DG Mare and the IHO representatives provided their initial comments. The respective roles of Hydrographic Offices, industry and other stakeholders were discussed.

- **International Tribunal on the Law of the Sea (ITLoS)**

In August the IHB received seven students from Armenia, Chile, Dominican Republic, Gambia, Guinea, Myanmar and Sri Lanka and one staff member attending the nine-month course, funded by the Nippon Foundation, at ITLoS in Hamburg, Germany. The visit was part of the International Liaison section of the course. The visitors were given a briefing on "Hydrography and UNCLOS".

Element 1.2 Information Management

This element continued to grow in importance. The increasing reliance of the IHO on digital technology for its communications, documentation, record keeping and coordination placed an ever greater emphasis on information management. This, in turn, led to the need to begin making changes both in the methods of work and the systems being used at the IHB.

Task 1.2.1 Development and maintenance of the IHO Website

The IHO website is a key functional area for the IHO. Access to almost all of the IHO's reference documents is gained through the website. The policy of publishing bi-lingual (French and English) pages wherever possible continued. From its start in 1998 to 2012, the website has grown from 30 pages giving access to about 400 documents, to 217 pages giving access to 40,000 documents.

Task 1.2.3 IHO Publications - Production, Editing

Task 1.2.4 Hydrographic Publications for which there is no specific body in charge

Almost all IHO publications were created in-house using desktop publishing techniques. The bulk of documents were made available in digital form and available free of charge via the IHO website. Limited numbers of publications were printed and bound using the facilities at the IHB. These were primarily to support technical and liaison visits.

A list of new or revised editions of IHO publications published in 2012 is shown in *Appendix I*.

The working group tasked to produce a revised edition of S-23 - *Limits of Oceans and Seas (1953)* was unable to complete its work. This was because a number of issues remained unresolved. As a consequence, the XVIIIth IHC decided not to continue with the revision process. The working group was disbanded.

Task 1.2.5 IHB Technical Library

The IHB technical library comprises bound manuscript copies of all significant IHO records, such as Conference Proceedings and Circular Letters, together with a comprehensive collection of reference books on various topics related to hydrography and nautical charting. New books are added to

the collection from time to time. In addition, and in accordance with the requirements of Article 19 of the General Regulations, the IHB maintains a complete collection of paper charts for internal reference purposes. The collection comprises all INT charts plus the complete Admiralty Chart series. This collection of charts is supplemented by the latest edition of various nautical publications supplied by Member States. The IHB attempted unsuccessfully to establish a collection of ENC's similar to the paper chart collection. Many of the Member States that produce ENC's did not grant the necessary access authority to the IHB.

Element 1.3 Public Relations

This element covers activities concerned with raising the profile of hydrography and of the work of the IHO.

Task 1.3.1 Relationship with the Government of Monaco and other Diplomatic Missions

The relationship with the Government of Monaco remained excellent throughout the year. As well as presenting itself to HSH Prince Albert II of Monaco, the incoming Directing Committee received Mr. José Badia, Minister of External Relations, and his staff at the IHB shortly after taking office. This will result in greater levels of assistance from the diplomatic corps of the Government of Monaco in providing briefings on the IHO and improved access to foreign legations in Monaco and around the world.

Director Gilles Bessero represented the IHO at a Symposium on the Law of the Sea held on board the French naval ship "Tonnerre" in Monaco in October. Under the patronage of HSH Prince Albert II, the Symposium brought together more than 300 participants, mainly French and Monegasque. The Symposium covered the advances and limits of the law of the sea, the state of the marine environment in contact with human activity, economic pressures and environmental changes and the perspectives of change in managing the oceans.

Task 1.3.2 World Hydrography Day

The theme for World Hydrography Day 2012 (WHD) was *International Hydrographic Cooperation – supporting safe navigation*. The theme provided Member States with the opportunity to promote their involvement in international activities at the bilateral, multi-national, regional and global levels covering such things as bilateral support, data exchange, chart coverage, standards development and regional cooperation.

The IHB celebrated WHD in Monaco on Friday 22 June, so as not to clash with other celebrations that were taking place in Monaco the previous day. The Bureau prepared a media release that was distributed to the local Press. This media release and various displays were posted on the IHO website for use by Member States as they considered appropriate.

The Bureau hosted a reception at the Monaco Yacht Club where various posters were displayed illustrating hydrographic activities with special emphasis on the theme of this year's celebration.

HSH Prince Albert II was unable to be present. He was represented by Mr Jacques Boisson, Secretary of State. The Prime Minister of Monaco, His Excellency Michel Roger, was also present. Ministers, diplomatic authorities, representatives from local maritime industry and other officials attended. The President welcomed the guests and delivered a brief speech on the significance of WHD.

Task 1.3.3 Outreach to IHO Stakeholders

The well-known shipping association Baltic and International Maritime Council (BIMCO) was recognised by Member States as a Non-Governmental Organization (NGIO) in 2012. BIMCO is accredited as a Non-Governmental Organization (NGO) with all relevant United Nations agencies and other regulatory entities.

The IHB represented the IHO at a number of stakeholders' events in 2012. In each case,

the IHO representative highlighted relevant aspects of the work of the IHO and its Member States.

- **6th International Conference on High Resolution Surveys in Shallow Water.**

Director Ward attended the 6th International Conference on High Resolution Surveys in Shallow Water held in Wellington, New Zealand in February. There were a significant number of delegates and exhibitors from around the world and a high proportion of them were hydrographic surveyors that had attained their qualifications through a recognised IHO-FIG-ICA Category A training course.

The Conference followed the established format for other Shallow Survey conferences that have been held around the world. In advance of the Conference, survey companies and sensor manufacturers were invited to survey various locations in the Wellington region using different technologies and processing techniques. All the data was then pooled in a common data set and made available for peer review and analysis.

The Conference centred on discussion and comparison of the results from the common data set, together with other papers on new developments and applications related to surveying in shallow waters. While there was an overall emphasis on multi-beam depth sounding, LIDAR and satellite derived bathymetry were also discussed during the conference. It was notable that in previous conferences target and bottom detection were key areas of discussion, whereas the focus for the 6th Conference was on backscatter measurements, determination of the nature of the seafloor and on data collected in the water column.

Director Ward provided an overview of the IHO's role in the setting of standards and development and a more detailed description of S-100 and its potential significance to those attending the Conference.

- **Geo Maritime Meeting.**

Director Ward represented the IHO at the inaugural two-day Geo Maritime Meeting in London in June. Geo Maritime is one of the few commercially organized conferences in Europe where industry, defence, government and commercial organizations gather to learn about the benefits of maritime geospatial information and the current issues facing the maritime surveillance sector.

Geo Maritime 2012 was opened with a keynote speech delivered by the UK National Hydrographer, Rear Admiral Nick Lambert, and was followed by a range of speakers drawn from hydrographic offices, associated industry partners, and representatives from defence and other maritime sectors. The Chairman of the IHO Transfer Standards and Applications Development Working Group (TSMAD), Mr Barrie Greenslade, explained the significance and applicability of the IHO S-100 standard in the maritime sphere.

- **3rd ECDIS Revolution Conference.**

Director Bessero attended the ECDIS Revolution Conference in London in November. He gave a presentation on ENC availability, standards maintenance and implementation issues.

Task 1.3.4 Public Relations Support

The range of pamphlets, briefing documents and presentations was revised during the year. The latest versions were posted on the IHO website in English and French and some in Spanish also.

Task 1.3.5 Journal Articles and Production of International Hydrographic Review

The IHR is the principal peer-reviewed journal that records significant developments in hydrography and associated subjects. Two editions of the Review were published in 2012. Obtaining suitable papers continued to be a struggle for the Editor. Input via the Regional Hydrographic Com-

mission points of contact continued to be low. Member States and others working in the fields of hydrography are encouraged to submit papers to inform their peers and to provide a lasting record and reference for the future.

The IHB provided regular articles for inclusion in a dedicated page in the Hydro International magazine. Each article covered topical subjects of interest to the readership including International Cooperation, the Convention and organization of the IHO and the Hydrographic Commission on Antarctica. In addition a number of topics included in IHO Circular Letters were publicized as news items by Hydro International and other technical magazines.

Element 1.4 IHO

This element concerns the future structure and organization of the IHO and its capacity to meet future requirements.

- **Status of Approvals**

At the end of 2012 the status of approvals of the Protocol of Amendments to the Convention on the IHO and applications for membership of the IHO was as follows:

Approval of the Protocol of Amendments: 37

Approval of pending Member States:

Brunei Darussalam = 28

Georgia = 18

Viet nam = 30

- **IHB Staff**

The Staff of the International Hydrographic Bureau (IHB) comprises 19 full-time positions. The Directors and four of the five Assistant Director positions are drawn from international candidates. The remainder of the IHB positions are recruited locally. An organigram and a list of the staff and their responsibilities during the year are set out in **Appendix II & III.**

Assistant Director Stephen Shipman (UK) retired in May after 9 years' service at the IHB. Commander David Wyatt (UK) joined as his replacement.

- **Secondment of Personnel to IHB**

Two officers were seconded to the IHB Staff during 2012 under the terms of IHO Resolution 3/1987. Mr. Baek-Soo Kim from the Korea Hydrographic and Oceanographic Administration replaced Dr. Sung-Ho Choi in January. Mr Satoshi Yamao from the Hydrographic and Oceanographic Department of the Japan Coast Guard continued to work at the IHB all year. Mr Kim was employed mainly on processing the data received in response to an IHO questionnaire on ECDIS operating anomalies (see IHO Circular Letter 46/2011) and assisting with updating the IHO-IOC GEBCO Gazetteer of Undersea Feature Names database. Mr Yamao continued his work on developing several geo-information databases, including an Antarctic database that will in future assist both the IHB and the RHCs in fulfilling their roles.

- **Technical Missions Conducted by IHB**

A list of travel conducted by the IHB staff in support of the IHO Work Programme is contained in *Appendix IV*.

Task 1.4.1 New IHO Structure

Task 1.4.2 IHO Work Programme and Budget

The three-part Work Programme implemented in 2009 is now well established and is reflected in the structure of this Report. The budget and finance statements presented in Part 2 of this Report are similarly structured to reflect the three principal programmes: Corporate Affairs, Services and Standards and Inter Regional Coordination and Support.

Task 1.4.3 IHO Strategic Plan and Performance Monitoring

Work on implementing the new strategic planning process and performance monitoring was slow. This was caused by other priority tasks such as organising the IHC. Both the HSSC and IRCC identified data or statistics that they felt could be used to monitor either the IHO's agreed Strategic Performance Indicators or the Operational Perform-

ance Indicators. The IHB was able to obtain some of the required data but not all. In particular, data required from RHC's was not supplied by all. Certain data concerning survey coverage or chart production was difficult or impossible to obtain for 2012.

Results, for Programmes 1, 2 and 3, where available, have been included in the tables in Appendix V to this report. As this is the first year that the tables have been compiled, there is limited historical data available from which to derive trend statistics or to draw conclusions with regard to progress in most cases.

Task 1.4.4 S-63 Scheme Administrator and S-63 Support

The IHB has carried out the role of administrator of the S-63 Data Protection Scheme since 2003. This involves processing applications from ENC distributors (or Data Servers) and ECDIS/ECS manufacturers and software developers (or OEMs) that require individual and unique digital certificates and codes to allow Data Servers to encrypt and OEMs to de-encrypt ENCs. In 2012 there was a surge in applications, with five new Data Servers (+15%) and 26 new OEMs (+13%) joining the scheme. This was most likely due to the impending requirement for various vessels to carry ECDIS and a resultant surge in equipment and software manufacturers wishing to provide services based on ENCs.

Element 1.5 IHB

This element concerns ensuring that the IHB is able to provide the range of secretariat and other services required by Member States and relevant stakeholder organizations.

Task 1.5.1 IHB Administration

The IHO Work Programme and Budget for 2013 were prepared and submitted during the year and approved by Member States. An account of the previous year's activities and finances was also prepared and submitted for the consideration and subsequent

approval of Member States, taking into account regular advice provided by the auditor and the Finance Committee Officers who met once during the year.

Task 1.5.2 IHB Staff Regulations

The IHO Staff Regulations Working Group (SRWG) established by Decision 18 of the XVIIth IHC was unable to progress its preliminary recommendations and findings and provide a submission for consideration by the XVIIIth IHC in 2012. As a result, the XVIIIth IHC agreed that the SRWG should continue its work under its recently nominated new Chairman from UK and report to the EIHC in 2014.

Task 1.5.3 IHB Translation Service

The IHB continued to translate key documents into French and also in Spanish through the use of its translation staff.

As has been the practice for many years, the IHO benefited from the assistance of some French and Spanish-speaking Member States for the translation of several publications that were beyond the resources of the IHB.

Task 1.5.4 IHB Finance Procedures

Task 1.5.5 IHB Procedural Manual for Permanent Activities

Full use was made of the existing procedural manuals. Particular attention was paid to improving the procedures for the disbursement of expenses associated with the Capacity Building Fund.

Task 1.5.6 Staff Training

During 2012 Staff undertook a number of different training courses. The training was intended to provide staff with new skills and capabilities or to make them familiar with new technology. This included improving proficiencies in using Microsoft Office applications and preparatory training for the implementation of a Microsoft SharePoint office management environment in the IHB in 2013.

Task 1.5.7 Maintenance of IHB Premises

Task 1.5.8 Purchase of Office Equipment

Various renovations to the domestic arrangements in the IHB premises were funded directly by the Government of Monaco as part of its on-going and very generous maintenance support.

A number of items of furniture and equipment were replaced due to age or obsolescence.

Element 1.6 International Hydrographic Conferences

This element covers the organization, preparation and execution of International Hydrographic Conferences.

Task 1.6.1 XVIIIth International Hydrographic Conference

The XVIIIth International Hydrographic Conference (IHC) was held at the Rainier III Auditorium in Monaco, from 23 to 27 April. It was attended by 300 delegates from 73 Member States and 27 Observers from 13 non IHO Member States and 20 representatives of national and international organizations. A meeting of the Finance Committee was held immediately before the Conference on 21 April. Two exhibitions, one of IHO Member States' charts and a commercial exhibition, ran from 23 to 27 April.

Mr. Janis Krastins, the Director of the Latvian Hydrographic Service and Maritime Safety Administration and Captain Patricio Carrasco, the Director of the Chilean Hydrographic and Oceanographic Service, were elected respectively President and Vice-President of the Conference.

The Conference opened on Monday 23 April. The President of the Directing Committee, Vice Admiral Alexandros Maratos, and the President of the Conference welcomed the participants and delivered opening addresses. Ms. Maria Damanaki, the Commissioner for Fisheries and Maritime Affairs

of the European Commission, Mr. Michel Aymeric, the Secretary General of the Sea (France), and Professor Georg Gartner, President of the International Cartographic Association (ICA), were present and addressed the Conference. HSH Prince Albert II formally opened the Conference and the exhibitions. He also presented the Prince Albert Ist Medal for Hydrography for the best article in the International Hydrographic Review to LCdr Aluizio Macel de Oliveira and Cdr Izabel King Jeck, both from the Directorate of Hydrography and Navigation (DHN), Brazilian Navy, Brazil.

The President of the Directing Committee together with Ms. Damanaki signed a Memorandum of Understanding (MoU) between the IHO and the EC. The President of the Directing Committee together with Professor Gartner then signed an MoU between the IHO and ICA. During the Opening Ceremony Jamaica presented its flag to the Organization.

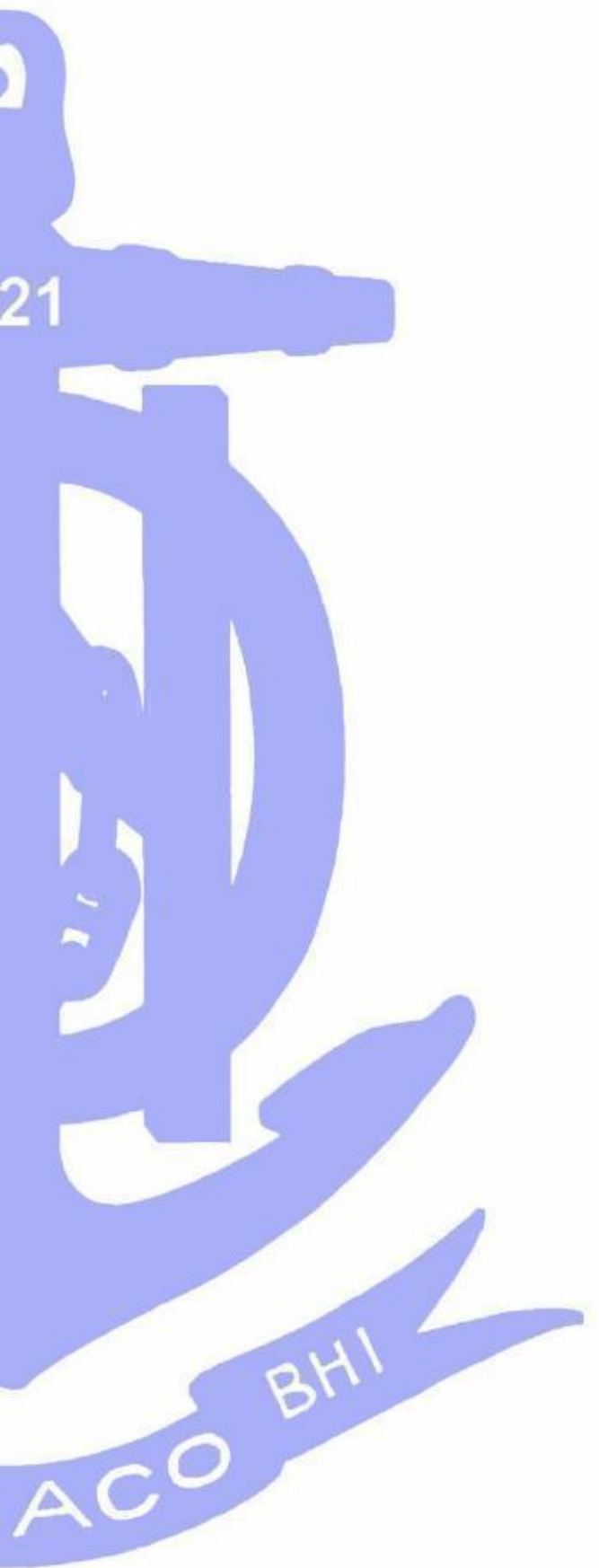
The Conference considered seven proposals, all of which were approved. The Conference approved the Work Programme and Budget of the Organization for the next five-year period and considered various reports on the work carried out by the Organization during the past five-year period. The Chairs of the IRCC, the HSSC and the RHCs presented reports on the activities of the various bodies of the Organization. The Conference took a number of other decisions, including the approval of further work on the implementation of performance indicators, continuing the work of reviewing the Staff Regulations, investigating ways to increase the technical capacity of the IHB, deciding that no further work will be undertaken on revising IHO Publication S-23 - *Limits of Oceans and Seas (1953)*, endorsing several initiatives related to ECDIS and ENCs, inviting future candidates for election to the Directing Committee to provide a position or vision statement, and recognition of the need to improve the collection, quality and availability of hydrographic data worldwide.

A new Directing Committee was elected to

assume office on 1 September. Captain Robert Ward (Australia) was elected President, Rear Admiral Mustafa Iptes (Turkey) and Ingénieur Général Gilles Bessero (France) were elected as Directors for the period 2012-2017.

The Prize for the best cartographic exhibition was awarded to the Republic of Korea. The Conference decided to hold an Extraordinary International Hydrographic Conference (EIHC) in the autumn of 2014. One of the important subjects to be examined at the Conference will be the report of the Staff Regulations Working Group (SRWG), which will propose amendments to the Staff Regulations. (See also report on Task 1.5.2 - SRWG).







HSH Prince Albert II delivering his address prior to formally opening the GEBCO SCIENCE DAY and 7th ABLOS Conference
IHB, Monaco, 3-6 October



ABLOS Business Meeting 19
IHB, Monaco, 1-6 October



DATA QUALITY WORKING GROUP (DQWG)
Silver Spring, USA, 24-26 July



GEBCO SUB-COMMITTEE ON UNDERSEA
FEATURE NAMES (SCUFN)
Wellington, New Zealand, 23-27 October



4th Meeting of the IHO HYDROGRAPHIC SERVICES AND STANDARDS
COMMITTEE (HSSC) and 5th IHO STAKEHOLDERS' FORUM
Taunton, United Kingdom, 25-28 September



New HSSC Chairman (Mathias Jonas, BSH, Germany)
and Secretary (Gilles Bessero, IHB)
Taunton, United Kingdom, 25-28 September



Standardization of Nautical Publications
Working Group (SNPWG)
Helsinki, Finland, 12-16 November

WORK PROGRAMME 2 HYDROGRAPHIC SERVICES AND STANDARDS

Introduction

The IHO Work Programme 2 “Hydrographic Services and Standards” seeks to develop, maintain and extend technical standards, specifications and guidelines to enable the provision of standardised products and services that meet the requirements of mariners and other users of hydrographic information. This Work Programme is under the principal responsibility of the Hydrographic Services and Standards Committee (HSSC).

Element 2.1 Hydrographic Services and Standards Committee (HSSC)

This element covers the general scope of the technical aims of the IHO, amongst which the continued development of standards associated with S-100, namely the S-101 ENC Product Specification and others, lie at the core of the Organization’s technical objectives. In 2012, over thirty Member States, an IHB Director and two Assistant Directors played an active role in progressing these activities.

Task 2.1.1 Hydrographic Services and Standards Committee (HSSC)

The HSSC reported on its activities for the period 2007-2011 to the XVIIIth IHC. The Conference took note of the report and approved the continued existence of HSSC under its current terms of reference. The Conference acknowledged the increasing and very important contribution of industry to the development of the various standards and procedures.

The 4th HSSC meeting took place in Taunton, United Kingdom, hosted by the UK Hydrographic Office, from 25 to 28 September. The meeting was attended by 60 delegates representing 24 Member States and

the IHB and 9 delegates representing 6 organizations accredited as observers. The final minutes of the meeting, together with all documents referred to at the meeting, are available from the HSSC Section of the IHO website.

The HSSC reviewed the activities, proposals, and work plans of its working groups and the decisions of other bodies and organizations affecting its work, with particular attention being paid to critical areas. The different outcomes are summarized under the relevant tasks.

The IHB reported its views on the implementation of Decision 6 of XVIIIth IHC which requests that “... *the Directing Committee, in consultation with HSSC, develop proposals to ensure that there is appropriate technical capacity within the Bureau to support the Organization through a period of significant change ...*”. The HSSC agreed to consider an IHO-wide approach encompassing both the technical capacity of the IHB and the additional resources required to implement the IHO technical programme. Three critical areas were identified (portrayal component of S-100; expert advice to non-IHO stakeholders developing S-100 based product specifications; limited participation in a number of working groups) and potential mitigation measures were acknowledged.

The HSSC reviewed its draft Work Plan for 2013-2014. Accordingly, a revised draft was prepared by the IHB in liaison with the working group chairs after the meeting and submitted to HSSC members by correspondence for approval. The final version is available on the HSSC page of the IHO website.

The HSSC decided to implement the five Working level Performance Indicators (WPIs) agreed by HSSC2 with minor adjustments. Table 2 in Appendix V summarizes their status as of 31st December 2012.

The HSSC elected Dr Mathias Jonas (Germany) as Chair, and Mr Mike Prince (Australia) as Vice-Chair for the next five years.

Task 2.1.2 Develop S-100 and MSDI standards

IHO Member States did not support the proposal submitted by HSSC to exempt certain changes to S-100 "IHO Universal Hydrographic Data Model" from the requirement for formal approval by Member States according to the terms set out in IHO Resolution 2/2007 as amended (CL 49/2012).

Based on a proposal submitted by Canada, the HSSC agreed to establish a working group to develop a surface current product specification based on S-100 and adopted its terms of reference (CL 102/2012).

Task 2.1.3 Nautical Publications development - S-4, S-11, S-52, S-57, S-100, S-101, S-10n, INT 1, 2, 3

The following new publications and editions were published in 2012:

- French version of edition 4.2.0 of S-4 "Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO" (CL 43/2012);
- Edition 4.3.0 of S-4 "Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO" (CL 81/2012);
- Revision 2.0.5 of S-11 Part A "Guidance for the Preparation and Maintenance of International Chart Schemes" (CL 56/2012);
- 4th edition of S-52 Appendix 1 "Guidance on Updating the Electronic Navigational Chart" (CL 52/2012);
- Revision 1.1.1 of S-63 "IHO Data Protection Scheme";
- 2nd edition 2.0.0 of S-64 "IHO Test Data Sets for ECDIS" (CL55/2012);
- 2nd edition of S-65 "ENCs, Production,

Maintenance and Distribution Guidance" (CL 52/2012);

- 1st edition of S-102 "Bathymetric Surface Product Specification" (CL 41/2012);
- 4th Spanish edition of INT 1 "Symbols, Abbreviations and Terms used on Charts", published by Spain on behalf of the IHO (CL 29/2012);
- 5th French edition of INT 1 "Symbols, Abbreviations and Terms used on Charts", published by France on behalf of the IHO (CL 29/2012);
- 5th edition of INT 3 "Use of Symbols and Abbreviations", published by the United Kingdom on behalf of the IHO (CL 8/2012).

Element 2.2 Advisory Board on the Law of the Sea (ABLOS)

ABLOS is a joint body of the IHO and the International Association of Geodesy (IAG). Its main objective is to provide advice, guidance and expert interpretation of the hydrographic, geodetic and marine geo-scientific aspects of the Law of the Sea to the parent Organizations, their Member States or to other organizations on request. In 2012, the activities of the Board involved about fifteen experts from IHO Member States; the ABLOS Chair was assisted by an Assistant Director.

Task 2.2.1 ABLOS - Advisory Board on the Law of the Sea

The 7th ABLOS Conference entitled "UNCLOS in a Changing World" was held in Monaco from 3 to 5 October. The Conference attracted an audience of nearly 90 delegates from 26 countries with 30 papers being presented during 11 sessions. The keynote address "Maritime claims in the South China Sea: issues and challenges" was delivered by Professor Robert Beckman, the Director of the Centre for International Law, National University of Singapore. Most of the papers submitted and presentations given during the Conference are available on the ABLOS page of

the IHO web site.

The event coincided with the week of GEBCO meetings and Science Day. Delegates were able to attend the series of presentations and poster displays, which made up the GEBCO Science Day, whilst GEBCO delegates were able to attend the first day of the ABLOS Conference. HSH Prince Albert II of Monaco honoured both events by formally opening them at an official Opening Ceremony on 2 October, prior to the start of the GEBCO Science Day.

The 19th meeting of ABLOS was held at the IHB on 1 and 6 October. The main items on the agenda were the preparation of the 5th edition of the Technical Aspects on the Law of the Sea (TALOS) Manual (see task 2.2.2), the contribution to capacity building (see task 2.2.3) and the ABLOS Conferences. The meeting reviewed the final arrangements for the 7th ABLOS Conference and then its assessment. The questionnaires completed by the participants indicated that the content, diversity and quality of the presentations had been appropriate and that the sessions had been well balanced and well received by the audience, with good levels of participation in the question and answer sessions. The meeting agreed to postpone the 8th ABLOS Conference until 2015 due to the 5th Extraordinary International Hydrographic Conference planned in October 2014.

The meeting also recognised the need to raise the profile of ABLOS amongst IHO Member States, and to this end it was agreed there should be greater ABLOS attendance at the HSSC meetings and at the ordinary and extraordinary sessions of the International Hydrographic Conference.

The Vice-Chair, Professor Sunil Bisnath (IAG), assumed the role of Chair on completion of the 7th ABLOS Conference. Mr John Brown (IHO) was elected as Vice-Chair.

Task 2.2.2 Technical Aspects of the Law of the Sea Manual (TALOS Manual)

The preparation of the 5th edition of the TALOS Manual, IHO Publication C-51, was continued by the Editorial Working Group formed in 2010. Unexpected events delayed the completion of the work initially planned in 2012. The draft was finalized at the end of the year for comments and final review by ABLOS members before submission to the HSSC and then approval by Member States.

Task 2.2.3 TALOS Technical Assistance

Two capacity building workshops on law of the sea (LOS) issues were carried out respectively in Muscat, Oman (February), for the ROPME Sea Area Hydrographic Commission and in Ho Chi Minh City, Vietnam (November), for the East Asia Hydrographic Commission. ABLOS members participated in a number of LOS related conferences and provided technical inputs in some delimitation discussions.

Member States were reminded to review the list of IHO Member States LOS Experts and ensure that it is kept current on the IHO website (CL 93/2012).

Element 2.3 Chart Standardization and Paper Chart Working Group (CSPCWG)

The CSPCWG provides a core of expertise on the basic concepts and elements of nautical charting, whatever physical form the chart or publications may take. In 2012, its activities involved about thirty Member States.

The CSPCWG continued the revision of the IHO Chart Specifications, S-4, Part B, Edition 4.3.0, published in August, included new and revised symbols and specifications, including a new clause on the purpose and content of charts, explicit guidance to avoid printing large scale or continuation plans on

the back (reverse side) of paper charts, updating of Source and Zones of Confidence (ZOC) diagrams, and the charting of historic wrecks, alongside obstructions at berths, recording stations. The revision of Section B-300 (Topography) was progressed and finalized.

The 9th meeting of CSPCWG was hosted by the Korea Hydrographic and Oceanographic Administration (KHOA) in Seoul, from 13 to 16 November. The meeting reviewed and discussed a number of proposals relating to chart content / specifications. These included the following topics for which new or amended specifications would be prepared: submarine cables; discontinuities between surveys; maximum draught areas; foot-bridges; spot heights and topographic contours; sounding selection; convention on upright and sloping text styles; compilation practice; and reference to WGS84.

Dr Peter Jones (UK) and Mr Jeff Wootton (Australia) were re-elected as CSPCWG Chair and Vice-Chair, respectively. Mr Andrew Coleman (UK) will continue as Secretary.

The comprehensive revision of S-4 Part B, which started in 2004, is now in its last phase and is planned for completion in 2013.

Element 2.4 Digital Information Portrayal Working Group (DIPWG)

The objective assigned to DIPWG is to maintain IHO specifications for colours, symbols and display rules used to portray ENC information on ECDIS in a safe and ergonomic manner. In 2012, its activities involved less than ten Member States and almost thirty expert contributors from the industry.

The 4th DIPWG meeting was held at the IHB from 7 to 11 May, in conjunction with the 24th TSMAD meeting (see element 2.11).

DIPWG continued ensuring the routine maintenance of S-52 “Specifications for Chart Content and Display Aspects of ECDIS” and developing the portrayal aspects of S-100 “IHO Universal Hydrographic Data Model” and S-101, the future S-100

based “ENC Product Specification”.

Concerning S-52, the DIPWG concentrated on developing a new edition of the S-52 Presentation Library, taking into account two deferred amendments and other changes intended to ensure better consistency among ECDIS implementation. One S-52 Chart Presentation Bulletin (CPB) was published in 2012 (CPB-No 10: Portrayal of virtual AIS aids to navigation). The DIPWG continued monitoring reports of “ECDIS Anomalies” (see task 1.1.10) and did not identify any anomaly attributable to errors in the Presentation Library. It is hoped that the new edition 3.5 of the Presentation Library will be available for review by the HSSC and endorsement at the 5th HSSC meeting in 2013.

The DIPWG work on S-100 Portrayal progressed the development of the model that will be used to generate the ECDIS machine-readable symbolization instructions to portray S-101 ENC data, the review of conditional symbology procedures, the definition of a single set of point symbols for aids to navigation, the standardization of ECDIS presentation of pick-report data and the drafting of the portrayal sections of S-100 & S-101.

Mr Colby Harmon (USA) was re-elected as DIPWG Chair and Mr Thomas Mellor (UK) was elected as Vice-Chair.

Element 2.5 Data Protection Scheme Working Group (DPSWG)

The DPSWG is responsible for developing and maintaining an IHO ENC data protection scheme. In 2012, its activities involved less than ten Member States and a dozen of expert contributors from the industry.

The DPSWG did not meet in 2012 and worked by correspondence.

The DPSWG continued to support the administration of S-63 “IHO data protection scheme”. In order to accommodate the large numbers of OEMs wishing to implement S-63 the original numbering scheme within the standard has been expanded through

A questionnaire seeking to assess the use of S-63 and the progress of migration from edition 1.0 (2003) to edition 1.1 (2008) had been circulated in May 2011. It was sent again in April and June and the results were presented at HSSC4. The survey revealed that whilst there is good adoption of S-63 edition 1.1 by ECDIS manufacturers, there are still a number of legacy systems in use that will only read S-63 edition 1.0 encrypted ENC's unless the system software is upgraded or, in a few cases of very old equipment, the ECDIS is replaced by a modern installation. In order to continue supporting the older albeit dwindling number of S-63 edition 1.0 systems some of the larger Data Servers are still implementing S-63 edition 1.0 only in their service. In December 2012 the IHB acting on request of the HSSC, sent a letter to all S-63 Data Servers and ECDIS manufacturers, informing them that the further use of S-63 Edition 1.0 after 1 January 2014 will result in the termination of their protection scheme agreement.

A discussion forum has been established to stimulate input on data protection issues for S-100-based products.

Element 2.6 Data Quality Working Group (DQWG)

The DQWG is responsible for developing appropriate methods of classifying and depicting the quality of digital hydrographic data. In 2012, its activities involved more than 15 Member States and ten experts contributors from the industry.

The 6th meeting of DQWG was hosted by the US Office of Coast Survey in Silver Spring, Maryland, from 24 to 26 July. In partnership with DQWG, the University of Southern Mississippi (USM) had been conducting a study on the visualisation of data quality within ENC's. The current status was presented in the form of a two stage approach proposal, i.e. first, to visualise individual data quality indicators (e.g. colour banding based upon horizontal uncertainty) and second, to look at how these individual visualisations can be combined to provide a

composite indicator. Both visualisations should be presented to mariners so the best method can be determined.

Agreement was reached on a proposal from Japan to degrade the value of the ENC qualifying attribute CATZOC, following an extreme event such as a tsunami. The proposal was endorsed by HSSC at its 4th meeting.

Following a review of the IMO Model ECDIS Course, DQWG felt that the emphasis on data quality was adequate in this high level document, but that another more detailed document would be useful to provide guidance to maritime colleges on how to build a course on ENC data quality based upon the IMO framework.

Mr Chris Howlett (UK) was re-elected as DQWG Chair and Mr Leendert Dorst (Netherlands) was elected as Vice Chair. Mr Eivind Mong (Jeppesen) will continue as Secretary.

Element 2.7 ENC Updating Working Group (EUWG)

The EUWG did not have any activity in 2012. As agreed by the HSSC at its 3rd meeting (November 2011), it was formally disbanded once Member States had approved the new editions of S-65 and S-52 Appendix 1 (CL 52/2012).

Element 2.8 Hydrographic Dictionary Working Group (HDWG)

The objective assigned to the HDWG is to systematically review and update the definitions in the IHO Hydrographic Dictionary in English, French and Spanish. In 2012, its activities involved less than 10 Member States.

Task 2.8.1 HDWG - Hydrographic Dictionary Working Group

The HDWG did not meet in 2012 and worked by correspondence.

The draft revised business rules endorsed by HSSC at its 3rd meeting (November 2011) were approved by Member States (CL 76/2012). They clarify the extent of S-32 “Hydrographic Dictionary”. Definitions included in S-32 are intended to cover extensively hydrography and marine cartography while definitions related to geodesy, land surveying, law of the sea, mathematics, navigation and physics will be included to the extent required for clarity and to avoid ambiguity. Whenever possible, reference will be made to the relevant responsible organization. Accordingly the HDWG plans to review all terms currently included in S-32 for their relevance and propose which definitions should be removed from S-32.

Task 2.8.2 Hydrographic Dictionary (S-32)

New or amended definitions for 70 terms endorsed by HSSC at its 3rd meeting have been approved by Member States and inserted in the English and French on-line versions of S-32 “Hydrographic Dictionary” (CL 76/2012).

Element 2.9 Marine Spatial Data Infrastructures Working Group (MSDIWG)

The objective assigned to the MSDIWG is to support the contribution of the IHO to Spatial Data Infrastructures (SDI). In 2012, about 25 Member States participated in its activities.

The XVIIIth IHC confirmed the importance of MSDI activities for the IHO and its Member States.

In 2012, the MSDIGW corresponded via e-mail to review and consolidate its draft work programme, for submission to HSSC4, and prepare an Open Forum and WG meeting planned in early 2013.

Element 2.10 Standardization of Nautical Publications Working Group (SNPWG)

The objective assigned to the SNPWG is to

develop guidelines for the preparation of nautical publications, in a digital format compatible with ECDIS. In 2012, about 15 Member States and a few expert contributors from the industry participated in its activities.

The SNPWG met twice in 2012. The 14th meeting took place at the IHB from 13 to 17 February and the 15th meeting was hosted by the Finnish Transport Agency in Helsinki, Finland, from 12 to 16 November.

Work continued on populating the Nautical Publications (NPUBS) Register of the S-100 IHO Geospatial Information Registry and developing an S-100 based product specification for marine protected areas. Preliminary work on an S-100 based product specification for radio signals was initiated. The SNPWG reviewed the outcome of the BLAST (Bringing Land And Sea Together) project (2009-2012) funded by the European Union as part of the Interreg IVB North Sea Region Programme. One work package “Navigating the North Sea” was based on the S-100 data models developed by the SNPWG.

Mr Jens Schröder Fürstenberg (Germany) and Mr Thomas Loeper (USA) were elected as SNPWG Chair and Vice-Chair respectively.

Element 2.11 Transfer Standard Maintenance and Application Development Working Group (TSMAD)

The objective assigned to TSMAD is to maintain, develop and extend IHO standards for digital hydrographic data and products and to monitor the development of other related international standards. In 2012, about 15 Member States and 10 expert contributors from the industry participated in its activities.

Task 2.11.1 TSMAD - Transfer Standard Maintenance and Application Development Working Group

The TSMAD met twice in 2012. The 23rd meeting was hosted by Land Information

New Zealand, from 16 to 20 January and the 24th meeting was held at the IHB from 7 to 11 May, in conjunction with the 4th DIPWG meeting (element 2.4).

Work continued to develop the content of S-100 Part 9 (Portrayal) in conjunction with DIPWG. It is planned to submit a draft new edition 2.0.0 of S-100 to HSSC in 2013. The development of S-101, the new ENC product specification based on S-100, had been broken out in four phases:

- **phase 1:** S-57 content equivalent - completed in December 2010;
- **phase 2:** enhanced packaging and data loading mechanisms - completed in December 2011;
- **phase 3:** extending the model to include additional complex attributes and information types - completed in May 2012;
- **phase 4:** scalability - on-going.

The output of phase 4 will be the draft first edition of S-101. The original planned completion date of December 2012 was postponed to end of 2013 due to slower-than- envisaged progress in developing the S-100 portrayal model.

IHO Publication S-99 “Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry” describes the roles, responsibilities and procedures for operating and managing the S-100 Geospatial Information Registry and its component Registers. S-99 edition 1.0.0 was adopted by Member States in January 2011. TSMAD has considered a number of revisions and minor editorial amendments to take into account feedback and experience in the practical use of the S-100 GI Registry. The draft of the new edition 1.1.0 of S-99 was submitted to the approval of Member States after endorsement by HSSC4 (CL 102/2012).

A new version of S-57 Appendix B1, Annex A “Use of the Object Catalogue for ENC” has been prepared to include a number of Encoding Bulletins (EB) released since the last version was published (October 2011); it was submitted to the approval of Member States

after endorsement by HSSC4 (CL 102/2012). 12 EBs were published in 2012 (EB N° 42 to 53).

Work is continuing to improve the check datasets associated with S-58 - “Recommended ENC Validation Checks” and S-64 - “IHO Test Data Sets for ECDIS”.

Mr Barrie Greenslade (UK) and Ms Julia Powell (USA) were re-elected as TSMAD Chair and Vice Chair respectively.

Task 2.11.2 S-101 User Requirements workshop

The HSSC at its 3rd meeting (November 2011) had tasked TSMAD to conduct a study to assess the impact of the introduction of S-101 on the various parties likely to be affected, in conformance with the requirements of IHO Resolution 2/2007. A survey of IHO stakeholders was conducted based on an on-line questionnaire between July and November. 161 responses were collected and analysed for review and discussion at the 25th TSMAD meeting in January 2013.

Element 2.12 Tidal and Water Level Working Group (TWLWG)

The objective assigned to the TWLWG is to provide technical advice and coordination on tidal, water level and vertical datum matters. In 2012, almost 30 Member States participated in its activities.

Task 2.12.1 TWLWG - Tidal and Water Level Working Group

The 4th meeting of the TWLWG took place in Fish Hoek, South Africa, hosted by the South African Hydrographic Office, from 8 to 10 May. The main on-going work items of the TWLWG relate to developing a standard for digital tide tables, considering the dynamic application of tides in ECDIS, developing a standard for the transmission of real-time tidal data, and revising the definition of mean sea level in non-tidal areas and the IHO resolutions concerning tides and water level.

Task 2.12.2 Tidal and Water Level WG Publications

The TWLWG maintains a standard list of tidal constituents and an inventory of national tide gauges which are posted on the TWLWG page of the IHO website.

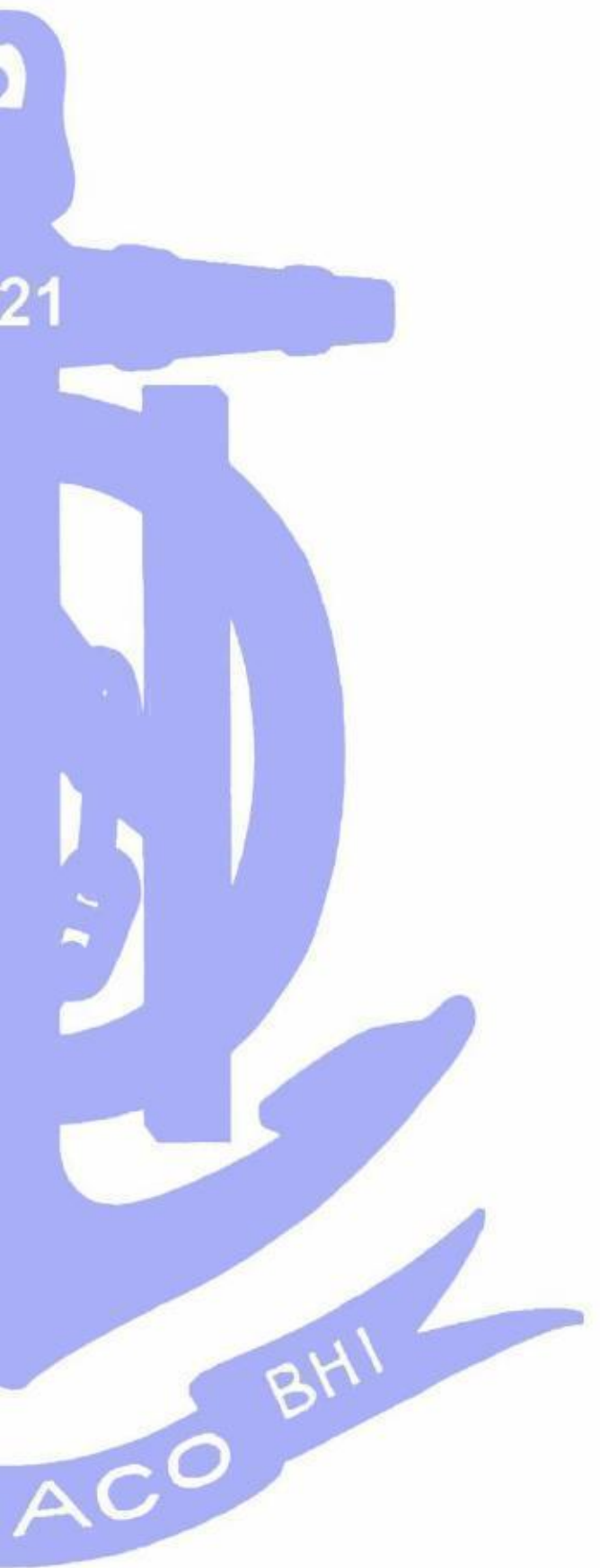
Element 2.13 ENC Quality - Technical Support

ENC quality issues have been considered mainly under the auspices of the WEND Working Group (see task 3.6.1).

Task 2.13.1 Primar / IC-ENC Joint Technical Expert Working Group (JTEWG)

The 8th meeting of the Primar / IC-ENC JTWEWG was hosted by Primar in Stavanger, Norway, on 28 March. The two RENCs have agreed on a minimum ENC quality assurance level and established a procedure to jointly test new ENC validation software and exchange error information.







30th Meeting of the NORTH SEA HYDROGRAPHIC COMMISSION
Alesund, Norway, 18-21 June



CBSC10 Meeting
Singapore, 4-6 June



IBSC35 Meeting
Buenos Aires, Argentina, 21-31 May



Japan Capacity Building Project
7th Coordination Meeting,
Taunton, UK, 6 February



6th Meeting of the SWATHC
Montevideo, Uruguay, 15-16 March

WORK PROGRAMME 3 INTER-REGIONAL COORDINATION AND SUPPORT

Introduction

The IHO Work Programme 3 “Inter Regional Coordination and Support” seeks to establish, coordinate and enhance cooperation in hydrographic activities on a regional basis, and between regions, especially on matters associated with the coordination of global surveying, nautical charting and ocean mapping, dissemination of maritime safety information, capacity building, and education and training. IHO Work Programme 3 is implemented under the principal responsibility of the Inter Regional Coordination Committee (IRCC).

Element 3.0 Inter Regional Coordination Committee (IRCC)

The IRCC promotes and coordinates those activities that might benefit from a regional approach.

The principle objective of the IRCC is to establish, coordinate and enhance cooperation in hydrographic activities amongst States on a regional basis, and between regions; establish co-operation to enhance the delivery of capacity building programs; monitor the work of specified IHO Inter-Organizational Bodies engaged in activities that require inter-regional cooperation and coordination; promote co-operation between pertinent regional organizations; and review and implement the IHO Capacity Building Strategy, promoting Capacity Building initiatives.

Task 3.0.0 Inter Regional Coordination Committee (IRCC)

The IRCC reported on its activities for the period 2007-2011 to the XVIIIth IHC. The Conference took note of the report and approved the continued existence of IRCC under its current terms of reference.

The 4th meeting of the Inter-Regional Coordination Committee (IRCC4) was held in Singapore, on 7-8 June and co-hosted by the UK Hydrographic Office (UKHO) and the Maritime and Port Authority of Singapore. The meeting was attended by the Chairs or representatives of all the Regional Hydrographic Commissions (RHCs), Sub-Committees and other bodies, except the Mediterranean and Black Seas Hydrographic Commission (MBSHC) and the World-Wide Navigational Warning Service (WWNWS) Sub-Committee. In addition, there were delegates from various individual IHO Member States. In total 35 participants attended the meeting. The final minutes of the meeting, together with all documents referred to at the meeting are available at the IRCC Section of the IHO website:

The IRCC reviewed its achievements since its first meeting in 2009, noting good progress in the IHO Capacity Building programme, the establishment of new RHCs that, in effect, now provide coverage for almost all the World's seas and ocean areas, the establishment of five new NAVAREAS in the Arctic Region, several new applications for IHO membership, increased participation and cooperation between international and regional organizations, an increase in recognized hydrographic and nautical cartography training programmes, the improved coordination of INT Charts and ENC production, and the harmonization of re-survey schemes.

IRCC4 examined the reports submitted by each RHC and the outcomes of the XVIIIth IHC. Participants at the meeting and associated events discussed the way forward to develop IHO Publication C-55, the Capacity Building Work Programme, the possibilities of external funding for capacity building, alternative surveying technologies such as crowd sourcing and satellite bathymetry, the need to improve and encourage survey activities, future actions to improve Marine Spatial Data Infrastructure (MSDI) around the world, engagement with external stakeholders, and input to the IHO Strategic Planning Mechanism.

The Working Level Performance Indicators relevant to IRCC and their value as of 31 Dec. 2012 are listed in table 3 of Appendix V. The IRCC elected Dr Savithri Narayanan (Canada) as Chair and Rear Admiral Nicholas Lambert (UK) as Vice Chair for the next five years.

Element 3.1 - Co-operation with Member States

The objective of this element is to facilitate coordination, cooperation and collaboration among IHO Member States in order to improve the provision of hydrographic and charting services and products through the structure of the 15 RHCs and the IHO Hydrographic Commission on Antarctica.

This element is largely accomplished through the meetings of the RHCs. The frequency of meetings varies from one every year to one every three years. These meetings have increased in importance and will continue to do so as the RHCs play an increasingly active role in the overall planning, execution and assessment of the IHO Work Programme and the development of the IHO Strategic Plan, through the IRCC. A Director, sometimes accompanied by an Assistant Director, represents the IHB at the RHC meetings, providing guidance and assistance on IHO matters. The complete reports of the RHC meetings and the links to more detailed information are available from the IHO web site.

Task 3.1.1 Arctic Regional Hydrographic Commission

The 3rd meeting of the Arctic Regional Hydrographic Commission (ARHC) took place in Tromsø, Norway, from 9 to 11 October under the chairmanship of Mr Lars Hansen (Denmark). 22 delegates participated in the meeting representing members (Canada, Denmark, Norway and USA) as well as observers (Finland, Iceland). The IHB was represented by Director Mustafa Iptes. A one-day Scientific Forum was organized on 8 October to review the progress of international cooperation in the Arctic, the latest developments and trends in remote sensing for

hydrographic purposes and the current and future trends and needs for Arctic maritime traffic.

The importance of the Arctic region was recognized by all participants in view of the growing number of ships visiting the region and the amount of traffic transiting through the northern sea route and the northwest passage. This situation requires improving most notably through better nautical charts and publications covering the region. Accordingly, the Commission discussed cooperation with third parties and ships of opportunity to collect survey data and the development of an Arctic voyage planning guide. The IHB was invited to investigate the possibility of the IHO gaining Observer status on the Arctic Council.

At the end of the meeting, Commander Evert Flier (Norway) took over the Chair.

Task 3.1.2 Baltic Sea Hydrographic Commission

The 17th Conference of the Baltic Sea Hydrographic Commission (BSHC) was held in Helsinki, Finland, from 18 to 20 September, chaired by Mr Patrik Wiberg (Sweden). All full members of the Commission (Denmark, Estonia, Finland, Germany, Latvia, Poland, Russian Federation and Sweden) attended; the UK also attended as an observer. The IHB was represented by Director Mustafa Iptes.

The Conference discussed a wide range of regional topics including developments in each of the Member States, the latest status of hydrographic surveying and nautical charting, ENC production and regional coordination and BSHC cooperative projects with other organizations. The BSHC Working Group for Monitoring the Implementation of the Harmonized Re-survey Scheme (MWG) met immediately before the 17th BSHC Conference. The MWG reviewed the status of implementing the re-surveying scheme and the development of the re-surveying database, and the status of progress of its Work Programme.

At the end of the Conference, Mr Jukka Varonen (Finland) was elected as the new Chair and Mr Taivo Kivimae (Estonia) as Vice-Chair.

Task 3.1.3 East Asia Hydrographic Commission

The 11th Conference of the East Asia Hydrographic Commission (EAHC) was held in Chiang Mai, Thailand, from 4 to 6 September, chaired by Vice Admiral Nirut Hongprasith (Thailand). All Member States of the Commission (China, Democratic People's Republic of Korea, Indonesia, Japan, Malaysia, Philippines, Republic of Korea, Singapore and Thailand) and three observer States (UK, USA and Viet Nam) attended the meeting. In addition, representatives of the South West Pacific Hydrographic Commission, the IC-ENC RENC, GEBCO and IALA attended as invited observers. In total, 46 delegates attended the Conference. Assistant Director Michel Huet represented the IHB.

The topics discussed by the Conference included developing clarification on cartographic boundaries for ENC production; ENC licensing of the South China Sea ENCs; the establishment of a Regional Training and Development Centre, as part of the EAHC capacity building programme; the setting-up of an East Asia Regional Coordinating Centre for ENCs; a proposed Regional Marine Environmental ENC; and changes to the EAHC organizational structure.

At the end of the Conference, Commodore Romeo I. Ho (Philippines) was elected as the new Chair and First Admiral Zaaïm Hasan (Malaysia) as Vice-Chair.

Task 3.1.4 Eastern Atlantic Hydrographic Commission

The 12th Conference of the Eastern Atlantic Hydrographic Commission (EAtHC) was held in Lisbon (Portugal) from 14 to 16 November, chaired by Vice Admiral Ramos da Silva

(Portugal). There were 37 delegates at the Conference which included six IHO Member States of the Region (Cameroon, France, Morocco, Nigeria, Portugal, Spain), five Associate Member States (out of nine - Congo, Côte d'Ivoire, Guinea, Senegal, Togo), three Observer States (out of ten - Gabon, UK, USA) and one NGIO (IALA), as well as two industry partners. The IHB was represented by Director Gilles Bessero.

The Conference reviewed feedback from the IRCC and the WEND-WG and input from the IALA World Wide Academy, as well as the progress in implementing the INT Chart and ENC schemes and updating of the C-55, the provision of Maritime Safety Information and the cooperation between IHO and the European Commission. Capacity Building issues were given particular attention and a number of actions were agreed to give a new impetus to the regional dynamics.

At the end of the Conference, Ingénieur général Bruno Frachon (France) took over the chairmanship.

Task 3.1.5 Meso-American and Caribbean Hydrographic Commission

The 13th meeting of the Meso-American and Caribbean Sea Hydrographic Commission (MACHC) was held in Antigua, Guatemala from 19 to 23 November and chaired by Rear Admiral Nick Lambert (UK). Participants from 12 Member States (Brazil, Colombia, France, Guatemala, Jamaica, Mexico, Netherlands, Suriname, Trinidad and Tobago, UK, USA, Venezuela), seven Associate Members (Antigua and Barbuda, Barbados, El Salvador, Haiti, Honduras, Nicaragua, Saint-Kitts and Nevis), three observer States (Dominica, Grenada, Guyana), seven observer organizations, and 15 representatives from industry attended the meeting.

The IHB was represented by President Robert Ward and Assistant Director Alberto Costa Neves.

The meeting reviewed the development of the Maritime Economic Infrastructure Programme (MEIP) for the establishment of an MSDI in the region. The INT Chart scheme was updated and improved. The Commission approved the unification of the INT Chart and the ENC Committees and created the MACHC Integrated Charting Committee (MICC). The Committee agreed to a number of actions to progress the solution for gaps and overlaps in ENC coverage. The International Bathymetric Chart of the Caribbean Sea and the Gulf of Mexico (IBCCA) received support and was reinvigorated. The Commission discussed a new project in the Gulf of Fonseca, following the work done in the Gulf of Honduras. The Commission agreed a number of resolutions regarding the *Blue Economy*. At the end of the meeting, Mr Michel Amafo (Suriname) was elected as the new Chair and Captain Peter Kortenoeven (Netherlands) as Vice-Chair.

Task 3.1.6 Nordic Hydrographic Commission

The 56th meeting of the Nordic Hydrographic Commission (NHC) was held in Copenhagen (Denmark) on 22 and 23 April, chaired by Mr Sigvard Stampe Villadsen (Denmark). All NHC Members (Denmark, Finland, Iceland, Norway and Sweden) were represented at the meeting. The IHB was represented by Director Robert Ward.

The Commission reviewed hydrographic progress in the region and the various developments affecting the region and agreed on a number of actions to further enhance cooperation and the development of hydrographic services among the members. As well as the presentation of national reports on progress and notable developments in the past year, discussion points included: hydrographic office involvement in MSDI, lessons learned from using contract support for hydrographic surveys, data copyright, national policies on the accessibility of high-resolution bathymetry, and improvements in data exchange arrangements between adjacent HO's.

At the end of the meeting Mr Patrik Wiberg (Sweden) assumed the chairmanship of the Commission.

Task 3.1.7 North Indian Ocean Hydrographic Commission

The 12th meeting of the North Indian Ocean Hydrographic Commission (NIOHC) took place in Colombo, Sri Lanka from 20 to 23 March, chaired by Rear Admiral Nick Lambert (UK). 41 delegates from seven Member States (Bangladesh, India, Myanmar, Saudi Arabia, Sri Lanka, Thailand, UK), six Associate Members (Australia, France, Mauritius, Oman, Pakistan, USA) and one observer (Sudan) participated in the meeting. The IHB was represented by Vice Admiral Alexandros Maratos.

During the meeting a one-day "Industry Day" was organized where representatives from ten companies participated. The theme of the Industry Day was focussed on Capacity Building and more particularly on the way in which stakeholders can support the capacity building requirements of the NIOHC. New technologies concerning hydrographic activities were also presented.

The meeting considered various issues of interest to the region including the status of production of ENCs and the problems that various ENC producers have encountered, the status and progress of INT Charts, Capacity Building requirements, the promulgation of Maritime Safety Information, the regional plan to respond to disasters, and national reports.

Rear Admiral Saroj Kumar Jha (India) was elected Chair and Rear Admiral Charin Boonmoh (Thailand) was elected Vice-Chair for the following period.

Task 3.1.8 North Sea Hydrographic Commission

The 30th meeting of the North Sea Hydrographic Commission (NSHC) took place in Alesund, Norway, from 18 to 21 June, under the chairmanship of the French Hydrographer, Ingénieur général Bruno Frachon.

Twenty-three representatives participated in the meeting from the following ten Members of the Commission: Belgium, Denmark, France, Germany, Iceland, Ireland, Netherlands, Norway, Sweden, and UK. Commodore Theodosiou, Hydrographer of Greece, was invited to participate in his capacity as Chair of the MBSHC, for the subject of cooperation with the European Union (EU). Industry representatives from Jeppesen, Kongsberg Maritime and Pôle Mer Bretagne were invited to participate and to make presentations on topics of interest to the Commission. Vice Admiral Alexandros Maratos represented the IHB.

The work of the Commission and the subjects discussed were based on the three work programmes of the IHO: Corporate Affairs, Hydrographic Services and Standards, and Inter Regional Coordination and Support. Discussion items at the meeting included the status of the ratification of the Protocol of Amendments to the Convention on the IHO; pending applications for IHO membership; cooperation with the European Commission after the signing of an MoU at the XVIIIth IHC; follow-up actions to the XVIIIth IHC decisions; ECDIS and ENC issues; progress of the implementation of programmes in cooperation with the EU, such as BLAST and MAREANO; the review of the IRCC actions; and copyright issues.

Commander Evert Flier (Norway) was elected as the new Chair .

Task 3.1.9 South West Atlantic Hydrographic Commission

The 6th meeting of the South West Atlantic Hydrographic Commission (SWAtHC) was held in Montevideo, Uruguay, on 15-16 March. The Hydrographers of Brazil and Uruguay were present, as well as the Hydrographer of Paraguay (Associate Member) and Chile (Observer). The Hydrographer of Argentina could not attend the meeting. Captain Hugo Gorziglia represented the IHB.

The Commission reviewed the harmonization of INT Charts and ENC in bordering areas. Brazil and Uruguay reached an agreement on their bordering ENC cells. The harmoni-

zation of inland ENCs was examined in the meeting, due to the extensive navigable inland waters shared by the South American countries. Print-on-demand charts were discussed and Chile shared its experience in this matter, as well as highlighting the advantages and disadvantages.

At the end of the meeting, Rear Admiral Andrés Roque Di Vincenzo (Argentina) was elected as Chair and Vice Admiral Marcos Nunes de Miranda (Brazil) was elected as Vice-Chair.

Task 3.1.10 South West Pacific Hydrographic Commission

The 11th meeting of the South West Pacific Hydrographic Commission (SWPHC) took place in Brisbane, Australia, from 13 to 16 February under the chairmanship of Mr Nicholas Pion (Papua New Guinea). Six of the eight Member States of the Commission were represented at the meeting (Australia, France, New Zealand, Papua New Guinea, UK, USA). Observers from the Cook Islands, French Polynesia, Kiribati, Niue, Palau, Samoa, Solomon Islands, Vanuatu, the Pacific Islands Applied Geoscience Commission (SOPAC) and nine representatives from industry and academia also participated in the meeting. The IHB was represented by Director Robert Ward.

The first two days of the meeting were dedicated to a technical workshop on Ports and Shallow Water Bathymetry, funded by the IHO Capacity Building Fund. The workshop covered the principles of hydrographic surveying and included a practical demonstration on board a survey launch from Maritime Safety Queensland. The workshop concluded with a description of the progress being made in Australia on developing satellite derived bathymetry as a technology with the potential for charting in the South West Pacific and elsewhere.

On 15 and 16 February national reports and IHO activities were reviewed. The Observer States all provided reports on their progress and plans towards establishing in-country hydrographic capabilities that will support

their Principal Charting Authorities - Australia, New Zealand, UK and USA.

Recognising that there are Pacific Island States adjacent to the area covered by the SWPHC that share common issues with the SWPHC community, the eligibility for membership of the Commission was extended to cover all States that are members of the Secretariat of the Pacific Community (SPC). As a result of this change, the UK (Pitcairn Islands) became a full member of the SWPHC.

At the end of the meeting, Rear Admiral Tom Karsten (UK) was elected as Chair and Mr Nicholas Pion (Papua New Guinea) was elected as Vice-Chair.

Task 3.1.11 USA-CANADA Hydrographic Commission

The 35th meeting of the US-Canada Hydrographic Commission (USCHC) was held in Niagara Falls on 14 May, hosted by Canada. The meeting took place immediately before the Canadian Hydrographic Conference that followed the theme: *The Arctic - Old Challenges, New Approaches*. The meeting was co-chaired by the Dominion Hydrographer of Canada and the Director, Office of Coast Survey of the USA; Dr Savithri Narayanan and Captain John E. Lowell respectively. The IHB was represented by Director Robert Ward.

The Commission reviewed the excellent progress made between the two States and in particular the conclusion of further agreed production boundaries and cooperative production arrangements for the production of ENC's in the trans-boundary areas between Canada and the USA. The principles that have been established could also be models for use in other regions. At the end of the meeting the two national Hydrographers signed an extension to the formal agreement on trans-boundary ENC production that incorporated principles developed during the intersessional period.

The Commission reviewed the contribution that the two States were making in the Arctic

and their work in the neighbouring Arctic Regional Hydrographic Commission, including ENC and chart scheming activities. The Commission also discussed the ongoing development of IHO publication C-55 - *Status of Charting and Surveying Worldwide* and the topic of MSDI.

Task 3.1.12 Southern African and Islands Hydrographic Commission Conference

The 9th meeting of the Southern Africa and Islands Hydrographic Commission (SAIHC) was held in Wolmar, Mauritius, on 18 and 19 September, chaired by Captain Abri Kampfer (South Africa). The meeting was attended by nearly all the members and associate members of the Commission (only Seychelles was not represented). In addition to the delegations of Angola, Comoros, France, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Norway, Portugal, Namibia, South Africa, Tanzania and UK, observers from the United States, IALA, the Western Indian Ocean Marine Highway Development and Coastal and Marine Pollution Prevention Project, together with several hydrographic industry representatives took part in the meeting. The IHB was represented by President Robert Ward and Assistant Director Anthony Pharaoh.

The meeting reviewed hydrographic progress in the region, both in terms of chart and ENC coverage and capacity building. As well as national reports on progress and notable developments in the past year, the agenda included MSDI, GEBCO and contributions to ocean bathymetry in the region, and the West Indian Ocean Marine highway Project. The industry observers provided information on data acquisition using LIDAR, hydrographic databases, remotely operated vehicles for surveying, and higher-level hydrographic education through distance learning.

At the end of the meeting, Captain Kampfer and Mr Oozeer (Mauritius) were re-elected as Chair and Vice Chair respectively.

Task 3.1.13 IHO Hydrographic Commission on Antarctica

The 12th Conference of the IHO Hydrographic Commission on Antarctica (HCA) took place in Montevideo, Uruguay, from 10 to 12 October, under the chairmanship of President Robert Ward. The Commission reviewed progress since the previous meeting and received reports from the Council of Managers of National Antarctic Programs (COMNAP) and the International Association of Antarctic Tour Operators (IAATO), as well as from the IHO Member States in the Commission.

Discussion at the meeting centred on the need to increase surveying activity in the region noting that the waters surrounding Antarctica are over 95% unsurveyed. To this end, better coordination of surveys is required as well as the introduction of programmes using *ships of opportunity*. Representatives from the UKHO reported that the UKHO had successfully conducted trials using cruise ships fitted with relatively inexpensive equipment that automatically records depth soundings during voyages. Plans are now underway to extend this programme and to find ways to ensure that the data from the ships is quickly reflected in charts available to mariners.

The meeting agreed that continuing the campaign to raise awareness at the Antarctic Treaty Consultative Meeting (ATCM) was important. It was also agreed that establishing a liaison protocol with COMNAP would be beneficial, since COMNAP is an implementing body of the ATCM. In this way, the HCA and IHO could act as the competent authority to ATCM for hydrography and nautical charting. This would then be a similar arrangement to the agreement already in place between the IHO and the UN and the IMO.

The Commission decided to task the Hydrography Priorities Working Group (HPWG), chaired by the UK, with the coordination of the INT paper chart scheme and ENC scheming. The HPWG was tasked to develop a schema for ENC production at the

larger scales and for a maritime shipping route scheme for the South Orkney Islands.

Two working groups were tasked to work intersessionally; one to develop a set of guidelines for ships of opportunity collecting hydrographic data and the other to coordinate surveys planned for the forthcoming summer season (2013-14).

Task 3.1.14 Completion of adequate ENC coverage

The following table presented by the WEND WG indicates the progress in providing ENC coverage up to end of 2012.

Comparison of ENCs with corresponding paper charts for international voyages				
	May 2008	May 2009	May 2010	Dec 2012
Small scale ENCs (planning charts)	>90%	~100%	~100%	~100%
Medium scale ENCs (coastal charts)	60%	77%	84%	88%
Large scale ENCs (top 800 ports)	60%	84%	91%	95%

At the end of 2012 five coastal States (and Antarctica) still had to produce five or more medium scale ENCs to match the corresponding paper chart coverage. Seven coastal States had yet to produce large scale ENCs to match the corresponding paper chart coverage.

RHC chairs were encouraged to address overlaps and gaps within their region and a number of regions were recognised for success in addressing resolution of gaps. The issue of overlapping data continued to be a problem in those sea areas where geopolitical issues were hampering swift resolution.

Task 3.1.15 Industry participation in RHC Meetings

Representatives of the hydrographic industry sector participated in most RHC meetings and associated workshops. This fostered good feedback between HOs and industry.

Industry also continued participating actively in IHO working groups as expert contributors, in cooperative capacity building initiatives and through organizations with international observer status in IHO committees and at the XVIIIth IHC.

Element 3.2 - Increase participation by non-Member States

One of the important goals of the IHO is to increase the participation of non-Member States in IHO activities. IHB Directors visited and briefed high level governmental officials directly and through their diplomatic representatives as a part of the IHO awareness raising campaign. Non-Member States of the IHO were encouraged and invited to participate in the RHC meetings, Capacity Building initiatives and the XVIIIth IHC. An increasing level of non-Member States' participated in IHO activities. 13 non-Member States attended the XVIIIth IHC.

The following States, whose application for membership was approved in preceding years, have yet to deposit their Instruments of Accession:

- Mauritania (application approved in April 1991),
- Bulgaria (application approved in April 1992),
- Sierra Leone (application approved in September 2010).

Two applications for membership were approved in 2012. Accordingly, these States were invited by the Government of Monaco to deposit their Instrument of Accession:

- Montenegro (application approved in March),
- Haiti (application approved in November).

At the end of the year three applications for membership were still awaiting approval by IHO Member States: Viet Nam had applied to become a Member State of the IHO in 2011. Brunei Darussalam and Georgia applied to become Member States in 2012.

The status of approvals at the end of 2012 was as follows:

- Viet Nam had received 30 approvals out of a required 52;
- Brunei Darussalam had received 28 approvals out of a required 52;
- Georgia had received 18 approvals out of a required 52.

Element 3.3 - Capacity Building Management

The IHO Capacity Building programme is a strategic objective of the organization that provides targeted training and technical assistance aimed at improving nautical charting and the delivery of maritime safety information in regions, particularly for developing countries. The IHO Capacity Building programme is funded by the IHO Budget and is supplemented by additional support from some Member States (namely Japan, through the Nippon Foundation, and the Republic of Korea). However, considering the growing demands for IHO Capacity Building activities, the IHO needs more funds and contributions. For this reason, the IHB Directing Committee began a campaign to find new donor States and funding organizations.

Task 3.3.1 Capacity Building Sub-Committee

The 10th meeting of the Capacity Building Sub-Committee (CBSC) was held in Singapore, from 4 to 6 June under the chairmanship of Mr Thomas Dehling (Germany). The meeting was attended by 13 members and 15 observers from eight countries. The IHB was represented by Captain Hugo Gorziglia and Assistant Director Alberto Costa Neves (CBSC Secretary).

The Sub-Committee (SC) examined the outstanding action list and the status of the CB Fund. The SC acknowledged the significant contributions made by the Republic of Korea and Japan (Nippon Foundation) to the IHO Capacity Building Work Programme (CBWP).

The need to search for external funding for CB activities was also discussed, especially with respect to funding agencies and external stakeholders. The SC acknowledged the support of Norway in the development of the CB Management System and Performance Indicators. The new CB Procedure 5 (Performance Assessment) and Procedure 6 (Project Execution) were approved by the SC. The SC also discussed performance of the assessment and provision of projects, the development of the IHO Publication C-55, the need to improve MSDI training and ways to improve the CB Procedures.

The SC reviewed the implementation of the 2011 and 2012 CBWP, considered the activities associated with the 2012 CBWP and, based on new information received from the RHCs, adjusted the 2012 CBWP. The SC reviewed the CB projects submitted by the RHCs and adopted the 2013 CBWP that will be included in the general IHO Work Programme for 2013.

Mr Thomas Dehling (Germany) was re-elected as Chair and Mr Olumide Omotoso (Nigeria) was elected as Vice Chair.

Task 3.3.2 Capacity Building Fund Management

The Capacity Building Fund (CB Fund) is funded from IHO budget allocations; donations received in support of IHO Capacity Building initiatives and external contributions earmarked for specific capacity building initiatives. The Republic of Korea made an outstanding contribution to the CB Fund during the period of this report. Many other IHO Member States have contributed significant resources in kind to the CBWP, by providing the venue, instructors, local support, or other items to ensure an effective implementation of CB activities. A statement of accounts for the Capacity Building Fund is contained in Part 2 of this Annual Report.

Task 3.3.3 Meeting with other organizations, funding agencies, private sector and academia

The 6th IHO/IMO/IOC/WMO/IAEA/IALA/FIG Capacity Building Coordination Meeting was held in Oostende (Belgium) on 10 December, hosted by the Programme of International Oceanographic Data and Information Exchange (IODE) of the IOC. The meeting was attended by 12 participants to discuss ways to improve cooperation across the capacity building programmes being implemented by the various organizations and to share experiences with views to increase efficiency and efficacy.

The group welcomed FIG that participated for the first time in the meeting. The standardization of procedures was discussed to improve effectiveness in the provision of Capacity Building and to facilitate the decision making process, prioritization, delivery and final assessment of the outcome of the CB effort.

The participants presented their experiences in dealing with funding agencies and the associated mechanisms. The opportunities for joint organization of funding projects were discussed. The group discussed the status of joint cooperation projects and the identification of new potential initiatives.

A discussion was held to identify areas of common interest and the actions aimed at coordinating efforts for CB in 2013. The participants agreed that the UN concept of "delivering as one" is a key to achieve comprehensive results in a regional level.

Task 3.3.4 IHO Capacity Building Strategy

The XVIIIth IHC agreed to task the Capacity Building Sub-Committee (CBSC) to review the IHO CB Strategy focusing on IHO objectives and to consider the financial implications, and to report to the 5th EIHC.

Subsequently, the 10th meeting of CBSC in Singapore agreed to create a Strategy Working Group to develop a draft revision and to report back to CBSC11 in 2013.

Task 3.3.5 Capacity Building Work Programme

The Capacity Building Work Programme is developed by the CBSC and subsequently endorsed by the IRCC. More details about the activities in the CBWP are described under Elements 3.4 and 3.5.

Task 3.3.6 Follow-up of CB activities and initiatives

The IHB, on behalf of the CBSC, continuously monitored the follow-up of CB activities and initiatives. One IHB Director and one Assistant Director was engaged in this work. Additionally, the President, both Directors and the Assistant Directors continuously monitor CB activities undertaken in each of the RHC areas.

Task 3.3.7 FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)

The 35th meeting of the FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) was held in Buenos Aires, Argentina, from 21 to 31 May under the chairmanship of Professor Lysandros Tsoulos (Greece). The meeting was attended by nine Board members. The IHB was represented by Assistant Director Alberto Costa Neves (IBSC Secretary).

The Board assessed 12 programmes: seven in Hydrography, four in Nautical Cartography and one Regional Scheme for Recognition of Individuals for competency in Hydrography.

This is a formal system that reviews and assesses individuals' experience and education in order to award them with Recognition of Individual Competency. The Board also developed the procedures for on-site reviews and the process to assess the status of recognized programmes.

The Board reviewed some parts of the Standards in order to clarify and improve them. Three working groups were created to restructure the Standards of Competence, as approved by the XVIIIth IHC. Dr Delf Egge

(IHO, Germany) was elected Vice Chair 1 and replaced Dr Luciano Surace (Italy) who had resigned after the previous meeting.

The number of Hydrographic Surveying and Nautical Cartography programmes continues to increase. In 2012, there were 43 Hydrography and five Cartography programmes recognized around the world. Two more (one Hydrography and one Cartography) were in the process of recognition.

Element 3.4 Capacity Building Assessment

Task 3.4.1 Technical and Advisory Visits

The following table summarizes the technical and advisory visits planned for 2012:

	Events	Implementation
1	Follow-up technical visits to Angola (from the 2011 WP) (SAHC)	NOT DONE
2	Visit to Democratic People Republic of Korea (Cambodia as alternative) (from the 2011 WP) (EAHC)	NOT DONE (Postponed to 2013 (Cambodia))
3	Visit to Panama (from the 2011 WP) (MACHC)	NOT DONE
4	Follow up Missions to Gabon and Guinea Bissau (from the 2011 WP) (EAHC)	DONE
5	Technical Visit to Syria (from the 2010 and 2011 WPs) (MBSHC)	NOT DONE
6	Technical Assessment & Advice Visit – Guyana and Dominican Republic (MACHC)	DONE
7	Technical advisory & Assessment Visit – Bangladesh and Sri Lanka (MCHC)	Bangladesh DONE Sri Lanka NOT DONE (Postponed to 2013)
8	Technical advisory & Assessment Visit (Follow-up Visits) – Mauritius and Seychelles (MCHC)	DONE
9	Technical visit to maritime authorities - Bahrain & Qatar (ISAHC)	NOT DONE
10	Technical visit to governmental authorities – Kuwait (ISAHC)	NOT DONE
11	Technical visit to the Solomon Islands to facilitate National Hydrographic Requirements (SWPHC)	DONE
12	Technical visit to Cook Islands to facilitate National Hydrographic Requirements (SWPHC)	NOT DONE (Postponed to 2013)
13	Technical visit to Uganda, Tanzania, Kenya, Mozambique, Comoros (SAHC)	Comoros (2011), Mozambique, Tanzania, Kenya DONE, Uganda NOT DONE

Task 3.4.2 Review existing CB procedures and develop new ones

The IHB continued developing procedures to improve the effectiveness of CB activities. During the year two new procedures - Procedure 5 (Performance Assessment) and Procedure 6 (Project Execution) became operational and two others were in development to standardize the application for training and to manage the financial aspects of the CB projects.

Norway and the IHB continued work to specify a Capacity Building Management System, in parallel to the development of the procedures, the databases and the publications. The management system will be a comprehensive tool to support the CB programme, to monitor the follow-up activities and to support the decision making processes.

Element 3.5 Capacity Building Provision

Task 3.5.1 Raise awareness on the importance of hydrography

The IHB Directing Committee continued to work on a schedule of visits to improve global awareness, engage external stakeholders like the United Nations, IMO, IALA, European Commission, funding agencies, and industry in general.

This included visits to high level authorities in several countries, the participation in Regional Hydrographic Commission meetings, and the active promotion of IHO activities in specialized magazines and journals. The list of visits undertaken by the Directing Committee and IHB staff is contained in Appendix IV.

Task 3.5.2 Technical workshops, seminars, short courses

The following seminars, workshops and short courses were provided in 2012:

Task 3.5.2

No	Events	Implementation
1	Database design and management (EAHC)	DONE with RoK contribution to CB Fund
2	Technical aspects of maritime boundaries, baselines and the extended continental shelf (EAHC)	DONE with RoK contribution to CB Fund
3	Tides and water level for hydrographic survey (EAHC)	DONE with RoK contribution to CB Fund
4	Seabed classification (EAHC)	DONE with RoK contribution to CB Fund
5	Development of a Regional Marine Spatial Data Infrastructure (MSDI) Workshop (NIOHC and SAIHC)	DONE with RoK contribution to CB Fund
6	Technical aspects of maritime boundaries, baselines and the extended continental shelf Bahrain, Iran, Kuwait, Saudi Arabia, Oman, Pakistan, Qatar, UAE & Iraq (RSAHC)	DONE with RoK contribution to CB Fund
7	Seminar: significance of hydrographic services and their contribution to sustainable development, social and economic perspective (SEPHC)	DONE with RoK contribution to CB Fund
8	Workshop on Standardization of parameters and methodologies for the production of inundation charts (support to Tsunami preparedness) (SEPHC)	DONE with RoK contribution to CB Fund
9	Processing and Administration of Spatial Databases (SWAHC, SEPHC and MACHC)	DONE with RoK contribution to CB Fund
10	Ports and Shallow Water Bathymetry Technical Workshop (SWPHC)	DONE with RoK contribution to CB Fund
11	Hydrographic Administration Training Placements with Regional HO (SWPHC)	DONE with RoK contribution to CB Fund
12	Phase I Skills Course – CHART AWARENESS (SAIHC)	DONE with RoK contribution to CB Fund
13	PNG National Hydrographic Capability Development (SWPHC)	DONE with RoK contribution to CB Fund
14	Module 2 of the recognized UK Category B Programme – Hydrographic Data Processing (Open Call)	DONE with RoK contribution to CB Fund
15	2-weeks Regional Training Course on Basic ENC and ENC Production (MACHC)	DONE with IMO funding
16	2-weeks Regional Training Course on Hydrographic Survey and Introduction to Chart production (SWPHC)	DONE with IMO funding
17	2-weeks Regional Training Course on Hydrographic Survey and Introduction to Chart production in Africa (EAHC, SAIHC and NIOHC (partial))	DONE with IMO funding
18	4th Course on Hydrographic Data Processing and Marine Cartography (Open call)	DONE with Nippon Foundation funding
19	Support to Myanmar to attend ENC Course delivered by UKHO in Vietnam (two Officers from Myanmar)	DONE with RoK contribution to CB Fund
20	Module 3 of the recognized UK Category B Programme – ENC Production (Open call)	DONE with RoK contribution to CB Fund
21	Self Training Course preparation (MSI)	DONE with RoK contribution to CB Fund

Task 3.5.3 Hydrographic and Nautical Cartography Courses

Courses and training delivered in 2012 are shown in the table associated with Task 3.5.2.

During the year, the IHO/ROK Programme Management Board that governs the Category B Nautical Cartographic training sponsored by ROK initiated a long term funding programme for Category A hydrographic training.

Task 3.5.4 On the Job Training (ashore / onboard)

No activity was conducted during 2012.

Task 3.5.5 Marine/Maritime Projects

The Marine Electronic Highway (MEH) Demonstration Project (MEHDP) is a practical demonstration of the potential for States to provide a digital information network that transmits environmental and related information in real time to mariners as well as other agencies and interested parties. The MEHDP was located in the Straits of Malacca and Singapore and involved various government agencies in Indonesia, Malaysia and Singapore, including Hydrographic Offices. The project delivered various levels of training, awareness and practical support throughout its nine years of execution.

The MEHDP was managed by the International Maritime Organization (IMO). The IHO, through the secretariat, provided technical advice and assistance on various hydrographic aspects, including specifications for a hydrographic survey of parts of the Straits of Malacca.

The Secretary-General of IMO, Mr Koji Sekimizu, formally transferred the ownership and management of the MEHDP Control Centre to Indonesia in a ceremony on 3 August attended by representatives of the three littoral States. Director Robert Ward represented the IHO at the ceremony.

Marine Highway Development (Western Mediterranean Sea)

No capacity building activity associated with this project was conducted in 2012.

CBSC to foster bilateral agreements in order to help satisfy SOLAS V/9

No capacity building activity associated with this task was conducted in 2012.

Element 3.6 Coordination of Global Surveying and Charting

Task 3.6.1 Worldwide ENC Database (WEND) Working Group

The principal objective of the WEND WG is to monitor and advise IRCC on the development of adequate ENC coverage to meet the SOLAS V/19 carriage requirements for ECDIS.

The 2nd meeting of the WEND Working Group was held in London, UK, on 21-22 September, under the chairmanship of Captain Jamie McMichael-Phillips (UK). 29 participants representing RHCs (BSHC, NHC, USCHC, MBSHC, SWAtHC and EAHC), 13 Member States, Regional ENC Coordinating Centres (RENCs) (IC-ENC, PRIMAR, AusRENC) and two observers attended the meeting. The IHB was represented by Director Mustafa Iptes. Assistant Director Alberto Costa Neves is the secretary.

The Working Group discussed ENC quality, coverage, gaps and overlaps in existing ENC data, ENC distribution, updating and licensing. The involvement of the RENCs was considered key to further improving global coverage while reducing overlaps.

The outcomes of the XVIIIth IHC, IRCC4 and HSSC4 affecting the Working Group were discussed, in particular: required improvements to the WEND guidelines in order to achieve the aims of the WEND Principles, the establishment of Performance Indicators and the active involvement of the Regional Hydrographic Commissions in achieving global ENC coverage and distribution.

Task 3.6.2 RHC to coordinate ENC schemes, consistency and quality

In order to develop appropriate IHO guidance, the Chart Standardization and Paper Chart Working Group (CSPCWG) requested the North Sea ENC Harmonization Group (NSEHWG) to do some preparatory work on the development of guidelines for preparation and maintenance of small and medium scale ENC schemes. The WENDWG also expressed interest in these developments.

The following table summarizes the status of ENC schemes:

Area	Agreed ENC Schemes / Usage Bands						Comments
	1	2	3	4	5	6	
A (USCHC)	X	X	X	X			
B (MACHC)	X	X	X	X	X	X	Available in the MACHC website (www.iho-machc.org)
C1a (SWAHC)		X	X	X	X		
C2 (SEPHC)		X	X	X	X	X	
D (NSHC)	X	X	X	X	X	X	
E (BSHC)	X	X	X	X	X	X	
F (MBSHC)	X*	X*	X*				*Schemes available but not agreed (remaining gap and overlap issues)
G (EAHC)	X	X					
H (SAHC)	X	X	X	X	X		
I (RSAHC)	X	X					
J (NIOHC)	X*	X*	X*				*Schemes available but not agreed (remaining gap and overlap issues)
K (EAHC)							The coordination of ENC schemes, consistency and quality in the EAHC Region is ongoing. EAHC is in the process of producing Band 1 ENCs covering the Region.
L (SWPHC)	X	X					Bands 3-6 allocated to national charting authority.
M (HCA)	X	X	X				
N (ARHC)							

Note: usage bands are 1 (Overview), 2 (General), 3 (Coastal), 4 (Approach), 5 (Harbour) and 6 (Berthing).

Task 3.6.3 Publication C-55: status of hydrographic surveying and nautical charting worldwide

The following table lists the countries for which updates of their C-55 entries was received in 2012.

IHO Member States	Non IHO Member States
Australia	Benin (via France)
Cameroon (via France)	Congo (via France)
Estonia	Côte d'Ivoire (via France)
Finland	Gabon (via France)
France	Israel
Latvia	Lithuania
Mexico	Malawi
Mozambique	Namibia
Norway	Sénégal (via France)
Papua New Guinea (via Australia)	Togo (via France)
Romania	
Russian Federation	
South Africa	
USA	

The XVIIIth IHC tasked the IRCC and HSSC in cooperation with the Directing Committee to progress whatever actions were required to improve the collection, quality and availability of hydrographic data worldwide, monitor and rectify possible deficiencies and shortcomings, cooperate with other international organizations and stakeholders as necessary, and to keep Member States informed on progress on this issue.

IRCC4 discussed the Conference outcome and produced a discussion paper on the validity and updating of C-55 with the aim to contribute to the further development of the C-55 framework.

The development of a new framework for C-55 is in progress at the IHB taking into account input from IRCC4 and feedback from RHC meetings. The IHB is working on a harmonised extensible data model for product metadata that will form the basis of a regional metadata GIS data base. The metadata elements have (as far as possible) been aligned with S-100. They make provision for ENC, paper chart and survey coverage and also quality metadata. Other metadata parameters include MSI and tidal records. Undersea feature information will be included.

The new framework for C-55 will be a component of an IHO Geographic Information System (GIS) that will support the work of RHCs, monitor ENC availability, assist INT chart coordination, provide a dynamic C-55 and support other related activities.

By the end of the year, the IHB had produced an advanced draft of the GIS data model and a demonstration user interface covering the Antarctic region.

Task 3.6.4 Maintenance of INT chart schemes and improvements of availability of the INT chart series

The following table summarizes the status of INT chart series at the end of 2012..

Table 3.6.4

Region	Coordinator	Commission	Scheduled	Published in 2012	Published Total
1 :10 Million	IHB	CSPCWG	25	0	24
A	USA/NOS	USCHC	NA*	0	15
B	Brazil	MACHC	70	0	20
C1	Brazil	SWAtHC	51	0	22
C2	Chile	SEPHC	44	0	6
D	UK	NSHC	215**	1	211**
E	Finland	BSHC	290	5	267
F	France	MBSHC	247	2	159
G	France	EAtHC	172	0	126
H	South Africa	SAIHC	114	5	83
I	Iran	RSAHC	115	2	60
J	India	NIOHC	166	7	104
K	Japan	EAHC	306	5	239
L	Australia	SWPHC	62	0	56
M	IHB	HCA	111	5	71
N	Norway	ARHC	NA*	0	7**

* NA: Information not available.

** 7 charts transferred to Region N in 2012.

Element 3.7 - Maritime Safety Information

Task 3.7.1 Sub-Committee on the World-Wide Navigational Warning Service

The Sub-Committee on the World-Wide Navigational Warning Service (WWNWS) monitors and guides the IHO/ IMO World Wide Navigational Warning Service which includes NAVAREA and coastal warnings. The Sub-Committee is responsible for studying and proposing new methods to enhance the provision of navigational warnings to mariners at sea, facilitating the implementation of the major changes in procedures for dissemination of navigational warnings and providing appropriate guidance to concerned IHO Member State Representatives to further the evolution of the WWNWS. The Sub-Committee also maintains a close liaison and cooperation with the World Meteorological Organization (WMO) for its Worldwide Met-Ocean Information and Warning Service (WWMIWS).

The 4th meeting of the Sub Committee (WWNWS4) was held at the Japan Hydrographic and Oceanographic Department (JHOD) in Tokyo, from 24 to 28 September under the chairmanship of Mr Peter Doherty (USA). The meeting was attended by 29 delegates from 18 IHO Member States, the WMO, and Inmarsat. The delegates included representatives of 12 NAVAREA Coordinators, one Sub-Area Coordinator and five National Coordinators. The IHB was represented by Assistant Director David Wyatt.

The Sub-Committee reviewed the WWNWS Documentation, received Maritime Safety Information (MSI) self-assessment reports (see task 3.7.3) assessed the content and success of the MSI Capacity Building training courses delivered during the year and prepared a report on the outcome of WWNWS4 for submission to the 17th session of IMO COMSAR.

The Sub Committee received reports from the Chair of the IMO NAVTEX Panel, the IMO SafetyNET Panel and WMO. Inmarsat presented a report that included a comprehensive brief on Inmarsat C and Fleet Broadband services; this included suggested future message code categories, which will be of significance in an e-Navigation environment of the future.

Task 3.7.2 WNWNS Expansion and Coverage

The WNWNS Sub-Committee, with support from the IHO Capacity building Programme, continued to deliver its comprehensive training course that provide practical guidance for those countries within an RHC that are concerned with drafting navigational warnings or with the issuance of Maritime Safety Information (MSI) for the high seas under the Global Maritime Distress and Safety System (GMDSS). The objective of the course is to increase the flow of MSI to NAVAREA Coordinators for promulgation, and ultimately to emphasize the importance of establishing expertise in the countries within these NAVAREAs, to fulfil the role of National Coordinators. One course was run in East Asia and two courses were planned to be delivered in 2013 covering the Caribbean and southern Indian Ocean regions .

Task 3.7.3 NAVAREA Coordinators

At WNWNS4, the representatives of the 12 NAVAREAs and one Sub-Area presented their MSI Self Assessments together with a presentation from NAVAREA XI on development work on "Navigational Warning Maps on the Web". The MSI Self Assessment document requires NAVAREA Coordinators to complete an MSI Quality Management Survey. The Chair of the WNWNS Sub-Committee led a brief review of pertinent items from the Self Assessments of those NAVAREA Coordinators not present at the meeting. Representatives from three of the new Arctic NAVAREAs presented the first full year reports since entering Full Operational Capability on 1 June 2011. The high level of consistency of service between the NAVAREAs was noted.

Mr Michael White provided a brief to the WNWNS Sub-Committee on the work of the UK Admiralty Warning Navigation Information Service, which highlighted the similarities and parallels for this military organization to the work of NAVAREA, Sub-Area and National Coordinators.

Task 3.7.4 WNWNS Publications

The WNWNS Sub-Committee decided that a holistic review of the WNWNS Guidance documents was necessary in order to bring them into alignment and to prevent future reference to inaccurate information. Accordingly, it had established a Document Review WG. The WNWNS Document Review WG held a meeting at the IMO HQ during the week following IMO COMSAR from 20 to 22 March. Representatives from France, Italy, UK, USA, WMO, Inmarsat and the IHB attended the meeting. The review considered all the WNWNS documentation with the intention of ensuring consistency of terminology. Amendments to resolutions A.705(17), as amended, "Promulgation of Maritime Safety Information"; and A.706(17), as amended, "World-Wide Navigational Warning Service" were prepared for consideration by the WNWNS Sub-Committee before submission to IHO Member States and subsequent submission to COMSAR 17 in 2013. Draft amendments to the MSI Manual to include the topic of ECDIS anomalies, were prepared.

Following consideration of the adoption in December 2011 of resolution A.1051(27) "World-Wide Met-Ocean Information and Warning Service (WWMIWS)", it was considered that a significant restructuring of the MSI Manual was necessary. It was agreed that revision of the MSI Manual, the International SafetyNET Manual and the NAVTEX Manual would be prepared for submission to COMSAR 18 in 2014. Various papers and proposals were submitted to IMO COMSAR 16. The successful outcomes and details were reported to Member States by Circular Letter.

Element 3.8 Ocean Mapping Programme

An Ocean Mapping Programme is executed by the GEBCO (General Bathymetric Chart of the Oceans) which is a joint Project of the IHO and the Intergovernmental Oceanographic Commission (IOC). GEBCO is directed by a Guiding Committee (GGC) and supported by the Technical Sub-Committee on Ocean Mapping (TSCOM), the Sub-Committee on Undersea Feature Names (SCUFN), the Sub-Committee on Regional Undersea Mapping (SCRUM), and the Nippon Foundation/GEBCO Training Project Management Committee. Additional ad hoc working groups are convened as necessary. Through the work of its organs, GEBCO produces and makes available a range of bathymetric data sets and products, including gridded bathymetric data sets, the GEBCO Digital Atlas, the GEBCO world map and the GEBCO Gazetteer of Undersea Feature Names. GEBCO maintains a comprehensive website at: <http://www.gebco.net>.

Task 3.8.1 GEBCO Guiding Committee (GGC)

The GGC met on 5th October at the IHB in Monaco. The GGC received reports from its Sub-Committees and endorsed the work which they had undertaken. The GGC also received reports from key personnel performing functions on behalf of GEBCO and from the IHB on IHO activities since the previous meeting.

The GGC discussed the GEBCO World Map, led by Dr Martin Jakobsson. The meeting discussed a proposal by the IHB to help resolve the issue of how to apply names to the chart, which was halting publication. The meeting endorsed the IHB proposal, which allows a base-map version of the GEBCO World Map to be published, with the possibility of either GEBCO or external organizations adding additional overlays, such as names, to the base map with appropriate details of the source of information and controlling authority for the additions.

The GGC reviewed its work programme for the period 2013 – 2017 which had been approved by the IRCC and the XVIIIth IHC. The meeting received confirmation that the required approvals had been given by the IHO and the IOC for the publication of “The GEBCO Cookbook” (B-11), which became available on the IHO, IOC and GEBCO websites at the end of October 2012.

Ingénieur général Etienne Cailliau (IHO-France) and Dr Kunio Yashima (IHO-Japan) announced their intentions to step down early in 2013. Mr Shin Tani (Japan) and Commander Peush Pawsey (India) were subsequently appointed to the IHO vacancies.

Task 3.8.2 Technical Sub-Committee on Ocean Mapping and Interim Sub-Committee on Regional Undersea Mapping

IHO Member States approved the establishment of a permanent Sub-Committee on Regional Undersea Mapping (SCRUM) which is now awaiting the approval of the IOC.

The GEBCO Technical Sub-Committee on Ocean Mapping (TSCOM) and the interim Sub-Committee on Regional Undersea Mapping (iSCRUM) held joint meetings from the 1st to the 4th of October at the IHB in Monaco. The meetings were chaired by Dr Martin Jakobsson (IOC-Sweden), and included reports and presentations on the status of hydrographic surveying and nautical charting in Antarctica and mapping activities of the International Bathymetric Charts (IBC) projects. Reports on the following IBC regions were provided: the East Pacific (IBCEP), the Southern Ocean (IBCSO), the Arctic Ocean (IBCAO) and the Caribbean Sea and the Gulf of Mexico (IBCCA). Break-out groups were convened to discuss issues concerning the Antarctic and Arctic mapping activities, and a new Indian Ocean mapping initiative. Other important topics discussed included the GEBCO World Map, GEBCO Cookbook, gridding techniques, metadata and the creation of a GEBCO Common Data Store.

Task 3.8.3 Sub-Committee on Undersea Feature Names

The Sub-Committee on Undersea Feature Names (SCUFN) is responsible for selecting names of ocean undersea features for use on GEBCO graphical and digital products, on the IHO small-scale International chart series, and on the regional IBC series. In 2012, its activities involved five of the six Member States representing the IHO within this IHO-IOC body.

The 25th meeting of SCUFN was held at the headquarters of Land Information New Zealand in Wellington, from 23 to 27 October. Assistant Director Michel Huet, as secretary to SCUFN, represented the IHB.

Some 170 names or name proposals were examined and the acceptance of 124 new undersea feature names was recommended for inclusion in the GEBCO Gazetteer (see task 3.8.11). Significant progress was made during the year in the development of a web-based map interface and on-line database for the GEBCO Gazetteer, supported by the US National Geophysical Data Center (NGDC) [where the IHO Data Centre for Digital Bathymetry (DCDB) is located]. This project is planned for completion in 2013.

A new edition of B-6 *Standardization of Undersea Feature Names* was developed (see task 3.8.11).

Task 3.8.4 TSCOM - Shallow Water Bathymetry

No shallow water sounding data was contributed to GEBCO during the year of 2012.

Task 3.8.5 Bathymetric Data Integration

GEBCO encourages the sharing of source bathymetric data within the international community for the benefit of all. The IHO Data Centre for Digital Bathymetry (DCDB) (see task 3.8.9) comprises a worldwide publicly-accessible digital data bank of oceanic soundings which is maintained on behalf of

all IHO Member States. Member States that currently host freely available bathymetric data on their home sites are invited to provide the IHO DCDB with their discovery metadata, spatial footprints and the retrieval URL if they wish their metadata to be included in the DCDB interactive catalogue map.

GEBCO also facilitates the sharing of scientific and mapping information by organizing an annual science day. The seventh consecutive GEBCO "Bathymetric Science Day", took place on 2 October in the Salle du Ponant Princess Grace Theatre and was opened by HSH Prince Albert II of Monaco. Information on the agenda and presentations made at the Science Day is available from the IHO-IOC GEBCO web site.

Task 3.8.6 Maps and Digital Grids

GEBCO products and services are either available for download, or can be ordered from the IHO-IOC GEBCO web site (www.gebco.net). These products include;

- GEBCO_08 Grid - a global 30 arc-second grid.
- GEBCO One Minute Grid - a global one arc-minute grid.
- GEBCO Grid display software. This free SW application can be used to view and access data from GEBCO's gridded bathymetric data sets. It provides the means for displaying the data and accessing the data in netCDF and simple ASCII formats.
- The GEBCO world map showing the bathymetry of the world's ocean floor in the form of a shaded relief colour map. This is the second release of the map and is based on the GEBCO_08 Grid.
- Images of the shape of the seafloor which include; 3D images of the seafloor developed from the GEBCO_08 Grid and world ocean bathymetry visualizations.
- "The History of GEBCO, 1903-2003" is a 140-page illustrated book covering the development of GEBCO in the 20th Century

from early bathymetric mapping and data collection techniques through to the development of the GEBCO Digital Atlas.

In order to assist and encourage further participation in bathymetric grid development work, GEBCO has created a technical reference manual, the IHO-IOC GEBCO Cook Book which was approved for publication by IHO Member States and is now available as IHO Publication B-11.

GEBCO makes its gridded maps available as Open Geospatial Consortium (OGC) based web services.

Task 3.8.7 New GEBCO Products

No new products were released in 2012.

Task 3.8.8 Global Awareness

The GEBCO web (www.gebco.net) continued to be an important way of raising awareness of the GEBCO programme and making GEBCO data and products accessible. The Nippon Foundation of Japan continued to raise awareness by its generous support of the GEBCO programme that trains the next generation of scientists and hydrographers in ocean bathymetry. The GEBCO - Nippon Foundation training programme in Ocean Bathymetry takes place each year at the University of New Hampshire. In 2012, six students from Bangladesh, Japan, Malaysia, Myanmar, Sri Lanka and Viet Nam completed the 8th session and six students from Ghana, Japan, Malaysia, Myanmar, Poland and Viet Nam were selected for the 9th session. The GEBCO "Bathymetric Science Day" (see Task 3.8.5) also helped global awareness and supported and encouraged further participation in the compilation of ever more representative bathymetric grids.

Task 3.8.9 IHO Digital Bathymetry Data Center

The IHO established the IHO Data Centre for Digital Bathymetry (DCDB) in 1990, which is

operated on behalf of the IHO by the National Geophysical Data Center in Boulder, Colorado, USA. The DCDB collects and quality checks oceanic soundings acquired by hydrographic, oceanographic and other vessels during surveys or while on passage. Web interfaces make it possible for individual datasets to be identified, selected and downloaded. This can be achieved by using the Marine Geophysical Trackline web site or by using the GEODAS online application. Metadata can be extracted under various criteria, such as area, date of survey or date of inclusion in the DCDB.

Task 3.8.10 International Bathymetric Chart (IBC) Projects, consistency, regional mapping series

As part of the SCRUM coordination work, several regional mapping products are available from the International Bathymetric Chart (IBC) project web sites. A new version 3.0 of the International Bathymetric Chart of the Arctic Ocean (IBCAO) was released in 2012 and made available to download. Details of the IBC project and links to its web site are available from the IHO web site.

Task 3.8.11 Maintain GEBCO publications: B-1, B-4, B-6, B-7, B-8, B-9

A new edition of B-6 *Standardization of Undersea Feature Names* was prepared and is planned for publication in 2013, subject to approval by Member States. The new edition incorporates new and revised definitions for undersea feature generic terms, a new format, bilingual, for undersea feature name proposals, and a user's guide for the preparation of undersea feature name proposals.

A new edition of B-8 *GEBCO Gazetteer of Undersea Feature Names* was published in October, incorporating all changes agreed since the previous edition in September 2011.

New and Revised IHO Publications

The following new IHO publications or revised editions were issued during 2012 and are available from the IHO web site.

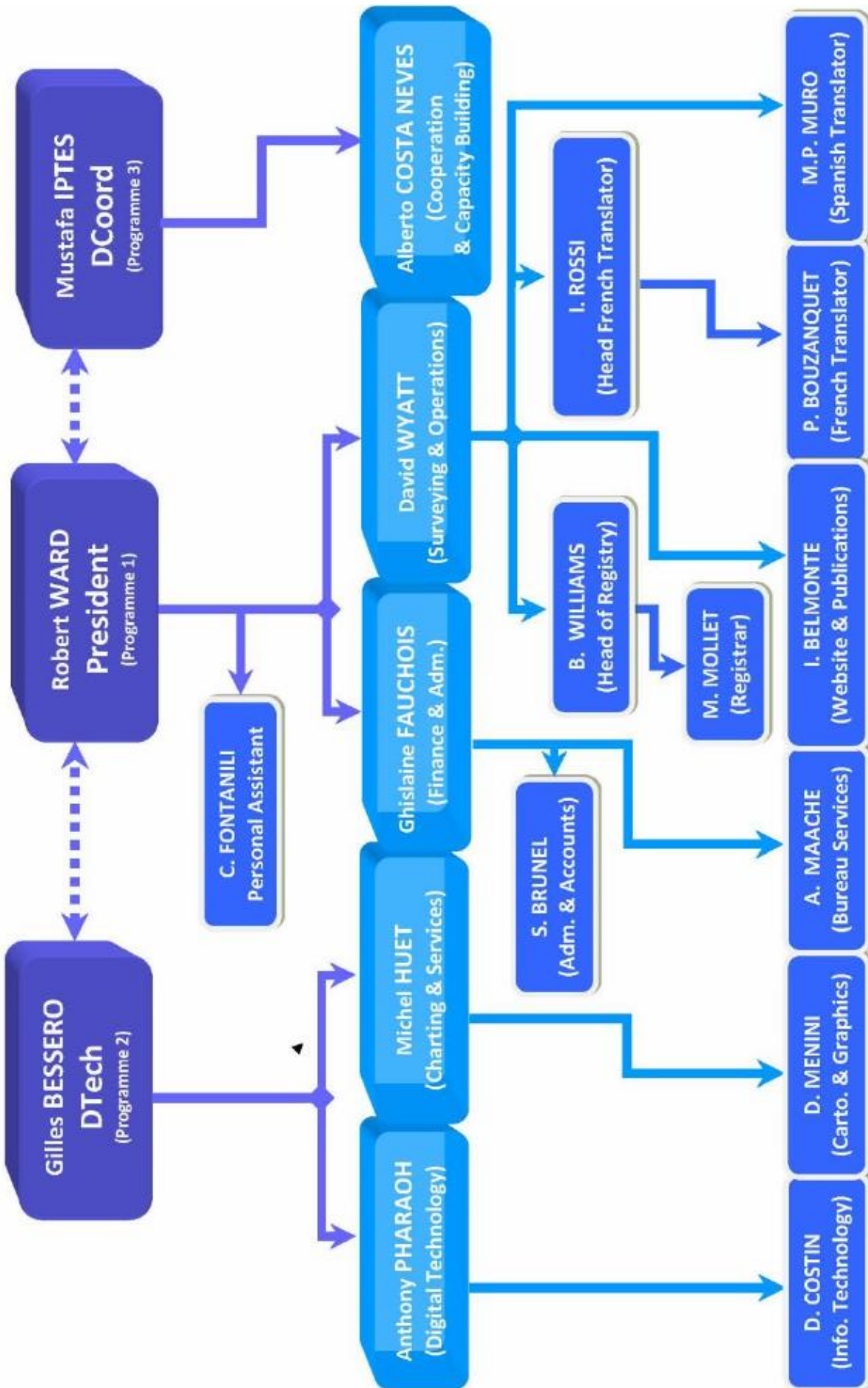
DATE	TITLE	announced via CL:
05/03	IHO Publication INT1 – Symbols, Abbreviations & Terms used on Charts, French version, Edition No.5 (2012) and Spanish version, Edition No. 4 (2011).	CL 29/2012
16/04	Adoption of new IHO Publication S-102 "Bathymetric Surface Product Specification, Edition 1.0.0	CL 41/2012
17/04	Chart Specifications of the IHO (S-4) – Edition 4.2.0 – August 2011, French version	CL 43/2012
07/05	New Bathymetric Publication – IHO-IOC GEBCO Cook Book (B-11), English Version	CL 47/2012
21/05	Adoption of New Editions of IHO Publications: Edition 4.0.0 of S-52 Appendix 1 "Guidance on updating the Electronic Navigational Chart" Edition 2.0.0 of S-65 "ENCs, Production, Maintenance and Distribution Guidance"	CL 52/2012
23/05	Adoption of Edition 2.0.0 of IHO Publication S-64 "IHO Test Data Sets for ECDIS"	CL 55/2012
29/05	Guidance for the Preparation and Maintenance of International Chart Schemes (S-11 Part A) – New Edition 2.0.5.	CL 56/2012
13/07	P-6: Report of Proceedings of the XVIIIth International Hydrographic Conference, Monaco, 23-27 April 2012	CL 71/2012
01/08	Hydrographic Dictionary (S-32) – New or Revised Definitions	CL 76/2012
16/08	P-7: Approval of Annual Report of the IHO for 2011 – Part 2 - Finances	CL 79/2012
16/08	S-4: Chart Specifications of the IHO, Revision 4.3.0 (English version)	CL 81/2012

Status of IHO technical standards

Number	Name	Maintenance body	Current edition
B-6	Standardization of Undersea Feature Names (Guidelines Proposal Form Terminology)	SCUFN	Ed. 4.0.0 Nov. 2008
S-5	Standards of Competence for Hydrographic Surveyors	IBSC	Ed. 11.0.1 May 2011
S-8	Standards of Competence for Nautical Cartographers	IBSC	Ed. 3.0.0 2010
S-4	Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO	CSPCWG	Ed. 4.3.0 Aug. 2012
S-11 Part A	Guidance for the Preparation and Maintenance of INT Chart schemes	CSPCWG	Ed. 2.0.5 May 2012
S-12	Standardization of List of Lights and Fog Signals	WG when/if required	Ed. 1.0.1 2006
S-23	Limits of Oceans and Seas	WG when/if required	Ed. 3.0.0 1953
S-32	Hydrographic Dictionary	HDWG	On-line publication
S-32 Appendix 1	Glossary of ECDIS-Related Terms	HDWG	Ed. 1.0.0 Sept. 2007
S-44	IHO Standards for Hydrographic Surveys	S44 WG when required	Ed. 5.0.0 Feb. 2008
S-49	Standardization of Mariners' Routing Guides	CSPCWG	Ed. 2.0.0 April 2010
S-52	Specifications for Chart Content and Display Aspects of ECDIS	DIPWG	Ed. 6.0.0 March 2010
S-52 Annex A	IHO ECDIS Presentation Library	DIPWG	Ed. 3.4.0 Jan. 2008
S-52 Appendix 1	Guidance on Updating the ENC	WG when/if required	Ed. 4.0.0 April 2012
S-53	Joint IMO/IHO/WMO Manual on Maritime Safety Information	WWNWS	Ed. July 2009
S-57	IHO Transfer Standard for Digital Hydrographic Data	TSMAD	Ed. 3.1.0 Nov. 2000
S-57 Appendix B.1	ENC Product Specification	TSMAD	Ed. 2.0.0 Nov. 2000
S-57 Appendix B.1 Annex A	Use of the Object Catalogue for ENC	TSMAD	Ed. 3.1.0 Nov. 2012*
S-58	Recommended ENC Validation Checks	TSMAD	Ed. 4.2.0 Feb. 2011
S-60	Users Handbook on Datum Transformations involving WGS 84	WG when/if required	Ed. 3.0.1 Aug. 2008

Number	Name	Maintenance body	Current edition
S-61	Product Specifications for Raster Navigational Charts (RNC)	WG when/if required	Ed. 1.0.0 Jan. 1999
S-63	IHO Data Protection Scheme	DPSWG	Ed. 1.1.1 April 2012
S-64	Test Data Sets for ECDIS	TSMAD	Ed. 2.0.0 May 2012
S-65	ENC Production Guidance	TSMAD	Ed. 2.0.0 April 2012
S-66	Facts about Electronic Charting and Carriage Requirements	ICENC-PRIMAR Joint Information Working Group (JIWG), on behalf of HSSC	Ed. 1.0.0 Jan. 2010
S-99	Operational Procedures for the Organization and Management of the IHO Geospatial Information Registry	TSMAD	Ed. 1.1.0 Nov. 2012*
S-100	IHO Universal Hydrographic Data Model Section 9 and other Portrayal related elements of S-100 Quality related elements of S-100	TSMAD DIPWG DQWG	Ed. 1.0.0 Jan. 2010
S-10n <i>(when adopted)</i>	<i>S-100 based Product Specifications</i>	<i>WG when/if required</i>	
S-102	Bathymetric Surface Product Specification		Ed. 1.0.0 April 2012
C-17	Spatial Data Infrastructures: "The Marine Dimension" - Guidance For Hydrographic Offices	MSDIWG	Ed. 1.1.0 Feb. 2011
C-51	A Manual on Technical Aspects of The United Nations Convention on the Law of The Sea – 1982	ABLOS	Ed. 4.0.0 March 2006

* Editions approved in 2013 (CL 20/2013).



IHB Staff Responsibilities in 2012**Professional Assistants / Assistant Directors**

Mr. A. PEDRASSANI COSTA NEVES (Brazil)	Capacity Building & Programme Management
Mr. M. HUET (France)	Cartography
Mr. A. PHARAOH (South Africa)	Data Management and Cartography
Mr. S. SHIPMAN (UK) (retired in May)	Hydrography
Mr. D. WYATT (started in April)	Hydrography
Mrs. G. FAUCHOIS (France)	Manager, Finance and Administration

Translators

Ms. I. ROSSI (France)	Head French Translator
Ms. P. BOUZANQUET (France)	French Translator
Ms. M.P. MURO (Spain)	Spanish Translator

Technical, Administrative and Service Staff

Ms I. BELMONTE (France)	Website and Publications Editor
Ms S. BRUNEL (France)	Administration and Accounting Assistant
Mr. D. COSTIN (Romania)	Information Technology Assistant
Ms. C. FONTANILI (UK)	Secretary to the Directing Committee
Mr. A. MAACHE (France)	Bureau Services Assistant
Mr. D. MENINI (France)	Graphic Arts and Cartography
Ms. M. MOLLET (France)	Registrar, Librarian
Ms. B. WILLIAMS (UK)	Head, Secretariat

Seconded Officers

Mr. S. YAMAO (Japan)	GIS and IT Projects
Mr. B S KIM (Republic of Korea)	Website Development Projects (replaced Dr. Sung Ho CHOI)

List of IHB Missions 2012

DATE	NAME	MEETING	DESTINATION
JANUARY			
10 13	PHARAOH	TSMAD DCEG WG	Wollongong, AUS
16 20	PHARAOH	TSMAD 23	Wellington, NZ
18 20	HUET	E-Navigation Conference	Copenhagen, DEN
FEBRUARY			
06 07	GORZIGLIA	UKHO Japan Capacity Building Project	Taunton, UK
13	NEVES	NHS –IHB Strategic Plan Meeting	Copenhagen, DEN
13 17	WARD	SWPHC 11	Brisbane, AUS
20 27	WARD	Shallow Water Survey	Wellington, NZ
MARCH			
12 16	MARATOS	COMSAR 16	London, UK
12 16	SHIPMAN	COMSAR 16	London, UK
13 16	GORZIGLIA	SWaTHC 6	Montevideo, URU
13 16	NEVES	SWaTHC 6	Montevideo, URU
13 14	WARD	UKHO	Taunton, UK
19 23	SHIPMAN	WWNWS Doc. Review WG	London, UK
19 23	MARATOS	NIOHC	Colombo, SRI
26 29	PHARAOH	JTEWG	Stavanger, NOR
APRIL			
16 18	WARD	CIRM Conference	Rome, ITA
MAY			
07 11	SHIPMAN	TWLWG 4	Cape Town, RSA
07 11	WYATT	TWLWG 4	Cape Town, RSA
14 18	WARD	USCHC 35 + CHC2012	Niagara Falls, CAN
15 23	SHIPMAN	MSC 90	London, UK
15 23	WYATT	MSC 90	London, UK
15 23	MARATOS	MSC 90	London, UK
15 16	NEVES	Australian Embassy	Paris, FRA
21 31	NEVES	IBSC 35	Buenos Aires, ARG
21	WARD	MSC 90	London, UK
22 24	WARD	NHC 56	Copenhagen, DEN
JUNE			
04 06	GORZIGLIA	CBSC 10	Singapore, SIN
04 06	NEVES	CBSC 10	Singapore, SIN
07 08	GORZIGLIA	IRCC 4	Singapore, SIN
07 08	NEVES	IRCC 4	Singapore, SIN
05 08	WYATT	IMO TC 62	London, UK
11 18	GORZIGLIA	ATCM XXXV	Hobart, AUS
18 21	MARATOS	NSHC 30	Alesund, NOR
25 26	GORZIGLIA	IMO Assembly	Paris, FRA
JULY			
02 06	MARATOS	NAV 58	London, UK
02 06	WARD	NAV 58	London, UK
02 06	HUET	NAV 58	London, UK
02 06	WYATT	NAV 58	London, UK
17 20	MARATOS	Visit Greek HO	Athens, GRE
23 27	HUET	DQWG 6	Silver Spring, USA

Appendix IV (2/2)

AUGUST

01 04	WARD	MEH Handover	Batam, IND
05 09	WARD	Tsunami Seminar	Tokyo, JAP
13 16	WARD	2 nd Meeting UN GGIM	New York, USA

SEPTEMBER

04 06	HUET	EAHC 11	Chiang Mai, THA
11	WARD	ECDIS OEM Meeting	London, UK
18 20	IPTES	BSHC 17	Helsinki, FIN
18 20	WARD	SAIHC 10	Mauritius, MRU
11 14	NEVES	Technical Visit	Dominican Rep.
24 28	WYATT	WWNWS 4	Tokyo, JAP
21	IPTES	WEND WG 2	London, UK
21	NEVES	WEND WG 2	London, UK
24 28	BESSERO	HSSC 4	Taunton, UK
24 28	HUET	HSSC 4	Taunton, UK
24 28	PHARAOH	HSSC 4	Taunton, UK

OCTOBER

04 05	FAUCHOIS	Training	Paris, FRA
09 11	IPTES	ARHC 3	Tromsø, NOR
10	BESSERO	EC- IHO Meeting	Brussels, BRU
10 12	WARD	HCA 12	Montevideo, URU
10 12	HUET	HCA 12	Montevideo, URU
15 16	WARD	ECDIS anomalies Workshop	London, UK
15 16	BESSERO	ECDIS anomalies Workshop	London, UK
17 18	WARD	S-100 Polar Comms Workshop	Haugesund, NOR
19	IPTES	Nippon Foundation UKHO	Taunton, UK
19	YAMAO	Nippon Foundation UKHO	Taunton, UK
23 27	HUET	SCUFN 25	Wellington, NZ

NOVEMBER

05 09	IPTES	Capacity Building Meeting	Incheon, Rep of KOR
05 09	NEVES	Capacity Building Meeting	Incheon, Rep of KOR
12 16	PHARAOH	SNPWG 15	Helsinki, FIN
13 16	HUET	CSPCWG 9	Pusan, Rep of KOR
13 14	WARD	HYDRO 12	Rotterdam, NED
14 16	BESSERO	EATHC 12	
19 23	WARD	MACHC 13	Antigua, GUA
19 23	NEVES	MACHC 13	Antigua, GUA
21 22	BESSERO	ECDIS Revolution	London, UK
26 30	WARD	MSC 91	London, UK
26 30	WYATT	MSC 91	London, UK

DECEMBER

06	WARD	Australian Embassy	Paris, FRA
10	IPTES	IHO/IMO/WMO/IOC/IALA/IAEA/FIG Joint CB Meeting	Oostende, BEL
10	NEVES	IHO/IMO/WMO/IOC/IALA/IAEA/FIG Joint CB Meeting	Oostende, BEL
17	IPTES	Visit IOC	Paris, FRA
17	WYATT	Visit IOC	Paris, FRA

Status Report on Performance Monitoring

Background

The introduction of IHO performance indicators was decided in 2009 by the 4th EIHC, together with the adoption of the IHO Strategic Plan.

The implementation of performance indicators is described in the IHO Strategic Plan as follows:

The implementation of performance indicators is based on a two level approach:

- strategic level: a small number of PIs associated with the objectives of the IHO (1 or 2 PIs per objective), to be agreed by the Conference (the Conference to be replaced by the Assembly when the revised IHO Convention enters into force) and managed by the IHB (the IHB to be replaced by the Secretary General and the Council when the revised IHO Convention enters into force);

- working level: PIs associated with the strategic directions and managed by the appropriate subsidiary organs;

In this perspective cross-references between the objectives, the strategic directions and the PIs are arranged in the following way:

Objectives => strategic PIs => strategic directions => responsible organs => working level PIs

Accordingly, the assessment of the working level PIs and the review of progress with the strategic directions are considered in two phases: an initial review by the leading organ and an overall review by the IHB (the IHB to be replaced by the Secretary General and the Council when the revised IHO Convention enters into force). Together with the assessment of the strategic PIs, these results are then submitted for consideration by the Conference (the Conference to be replaced by the Assembly when the revised IHO Convention enters into force). The submission should include a qualitative and, where practicable, a quantitative assessment of progress based on the value of the PIs. It should also include recommendations on management actions to be considered where trends indicate either a lack of progress or a change to an underlying assumption/direction is required. In this way the aim can be maintained and evidence of progress monitored/presented.

The 4th EIHC adopted nine strategic performance indicators (SPIs) associated to the seven objectives of the IHO and invited the IHB Directing Committee to consider, in liaison with the HSSC and the IRCC, the implementation of working level performance indicators based on list of potential indicators associated with the strategic directions.

In 2012, the XVIIIth IHC welcomed the monitoring system to be put in place by the IHB Directing Committee based on the Strategic Performance Indicators (SPI) of the Strategic Plan (see CONF.18/WP.1/Add.2) and invited them to take action. Moreover, the HSSC and the IRCC were invited to review the working level performance indicators relevant to them.

Strategic Performance Indicators

Table 1 lists the Strategic Performance Indicators and the source of information based on the considerations of the IHB Directing Committee, the HSSC and the IRCC and reports on their current status.

Table 1
Strategic Performance Indicators (SPI)

No PI	Designation	Source	Status 31 Dec 2012
SPI 1	Number and percentage of Coastal States providing ENC coverage directly or through an agreement with a third party. (Previous year figures in brackets)	Collated by the WEND WG through RHCs.	IHB estimate ~ 100% <i>Extract from WEND-WG report to IRCC-5:</i> <i>At the end of 2012 five coastal States (and Antarctica) still had to produce five or more medium scale ENCs to match the corresponding paper chart coverage. Seven coastal States had yet to produce large scale ENCs to match the corresponding paper chart coverage.</i>
SPI 2	Growth in ENC coverage worldwide, as reported in the IHO on-line catalogue, relative to the existing gap in adequate coverage (as defined by IMO/NAV) from the benchmark 01 Aug. 2008.	Collated by WEND WG from the IHO on-line catalogue.	Small scale: ~ 100% Medium scale: 88% Large scale: 95% (2011: 100/88/94) <i>See table under task 3.1.14.</i>
SPI 3	Percentage of Coastal States which provide hydrographic services, directly or through an agreement with a third party, categorized by CB phases, as defined by the IHO Capacity Building Strategy.	Collated by CBSC through RHCs.	Not available This information was not available for 2012. May be available from RHC reports and an improved C-55 database in the future
SPI 4	Percentage of "acceptable" CB requests which are planned.	Collated by CBSC.	IHB estimate: 97% (2011: 100%) <i>Percentage of CB submissions (CB management plan) which are associated with a planned CB activity (CB work programme)</i>
	SPI 4bis Percentage of planned CB requests which are subsequently delivered.		IHB estimate: 73% (2011: 79%) <i>Percentage of planned CB submissions (CB management plan) which are delivered</i>
SPI 5	Number of standards issued (including new editions), per category: - hydrographic standards to enhance safety of navigation at sea, - protection of the marine environment, - maritime security, - economic development.	Collated by HSSC.	IHB estimate: 9 <i>See Appendix I.</i> <i>Safety of navigation: 8</i> <i>Protection of the marine environment: 1 (S-102)</i> <i>Maritime security: 0</i> <i>Economic development: 0</i>

No PI	Designation	Source	Status 31 Dec 2012
SPI 6	Number of potential new IHO MS (indicated by the start of the application process) relative to the number of "non-IHO" IMO MS.	Collated by IHB through the government of Monaco.	IHB estimate: 8 / 89 (2011: 7 / 90) <i>Number of IMO MS: 170</i> <i>Number of IHO MS: 81</i>
SPI 7	Increase in participation / membership in RHCs.	Collated by IRCC through RHCs.	IHB estimate¹: MS participation: 91% (2011: 75%) Non MS participation: 47% (2011: 36%)
SPI 8	Percentage of available / agreed ENC schemes.	Collated by the WEND WG through RHCs or International Charting Coordination Working Groups (ICCWG).	IHB estimate: Available schemes: 50/90 Agreed schemes: 44/90 (2011: 50 - 44) <i>See table under task 3.6.2.</i>

¹ 2012:

- Number of meetings: 12
 - Participation of IHO MS: 77 MS represented out of 85 expected
 - Participation of non IHO MS: 32 non-MS represented out of 68 expected
- 2011:
- Number of meetings: 12
 - Participation of IHO MS: 68 MS represented out of 91 expected
 - Participation of Non IHO MS: 18 Non-MS represented out of 50 expected

HSSC Working Level Performance Indicators
HSSC4 agreed to implement the WPIs listed in table 2.

Table 2
HSSC WPIs

Metric	Data Collection Point	Rationale	Status 31 Dec 2012
Number of S-100 based product specifications approved	IHB	Relative indicator of uptake of IHO standards including for purposes other than SOLAS navigation	1 S-102 (CL 10, 41)
Percentage of annual work programme achieved	HSSC WGs (all)	Progress against objectives in the strategic plan	17%
Total number of participants at meetings (MS and Expert Contributors)	HSSC WGs (all)	Indicates participation of MS and wider community in execution of the plan	168 MS: 131 Expert Contrib.: 37
Number of technical revisions and clarifications approved	IHB	Indicative of ability to provide comprehensive, safe and effective standards	5 ² M-3 (CL 20, 84, 94) S-4 (CL 67) S-11 Part A (CL 56) S-32 (CL 76) S-63 (no CL)
Number of ENCs distributed annually under license (equivalent annual licences)	WEND WG	Relative indicator of ENC usage throughout SOLAS market	2 052 269 Primar: 1 283 092 IC-ENC: 769 177

² All revisions and clarifications approved in 2012 relates to normal updates.

IRCC Working Level Performance Indicators

IRCC4 agreed to monitor the WPIs indicated in table 3 and invited RHCs and IRCC subsidiary organs to provide to the IRCC Chair their estimated values as of 31 December 2012 and target values for 31 December 2017 by end of January 2013. According to the reports presented to IRCC5, only HCA and two RHCs (NHC and BSHC) completed this action.

*Table 3
IRCC WPIs*

No PI	Designation	Source	Status 31 Dec. 2012
WPI 15	Growth in ENC coverage worldwide, as reported in the IHO on-line catalogue, relative to the existing gap in adequate coverage (as defined by IMO/NAV) from the benchmark 01 Aug. 2008.	Collated by the WEND WG through RHCs.	See SPI 2.
WPI 16	Number of additional IHO MS starting to produce & maintain (with/without support) relevant ENCs (contributing to 'adequate coverage') in the reporting period relative to those already producing at 01 Aug. 2008.	Collated by the WEND WG through RHCs.	Not available. <i>Associated with SPI 1.</i>
WPI 17	Percentage of Coastal States delivering hydrographic services - categorized by CB phases (MSI services, surveying capabilities, charting capabilities), directly or through an agreement with a third party, at the end of the reporting period.	Collated by the CBSC through RHCs.	Not available. <i>Associated with SPI 3.</i>
WPI 18	Percentage of IHO MS updating their C-55 entry data regarding hydrography survey, INT charts, ENC, and MSI in the reporting period.	Collated by IRCC through RHCs.	IHB estimate: 17% (14/81) <i>See task 3.6.3.</i> <i>Updates have been provided also for 10 non IHO MS</i>
WPI 19	Status of hydrographic surveys in each region.	Collated by IRCC through RHCs.	Metrics to be defined.
WPI 20	Percentage of agreed INT chart schemes, percentage of INT charts available.	Collated by IRCC through RHCs or ICCWGs.	IHB estimate: 88% (14 schemes out of 16³) 72% (1 429 charts published out of 1 988 planned⁴) (2011: 88% [14 schemes out of 16] 71% [1 403 charts published out of 1 981 planned]) <i>See table under task 3.6.4.</i>

³ Each existing INT scheme counts for one, whether or not medium and large scale charts are included in the scheme.

⁴ Regions A and N, for which no scheme is available yet, are excluded.

No PI	Designation	Source	Status 31 Dec. 2012
WPI 21	Percentage of agreed ENC schemes, percentage of ENC available.	Collated by WEND WG through RHCs or ICCWGs.	See SPI 8.
WPI 22	Increase in effective MS participation in RHC activities.	Collated by IRCC through RHCs.	See SPI 7.
WPI 23	Percentage of Coastal States which are IHO Member States.	Collated by the IHB.	IHB estimate: 54% (80³/151) (2011: 53% - 79/151)
WPI 24	Number of new Coastal States joining the IHO during the reporting period.	Collated by the IHB.	IHB estimate: 1 (Cameroon)
WPI 25	Number of potential new IHO MS (indicated by the start of the application process) relative to the number of "non-IHO" IMO MS.	Collated by the IHB.	See SPI 6.
WPI 26	Percentage of Coastal States which have achieved phase 1, 2 or 3 and established a National Hydrographic Office.	Collated by CBSC through RHCs.	Not available. See SPI 3. This information was not available for 2012. May be available from RHC reports and an improved C-55 database in the future
WPI 27	Number of States which have achieved phase 1, 2 or 3 and established a National Hydrographic Office in the reporting period.	Collated by CBSC through RHCs.	Not available. This information was not available for 2012. May be available from RHC reports and an improved C-55 database in the future
WPI 28	Percentage of Coastal States which provide ENC coverage directly or through an agreement with a third party.	Collated by the WEND WG through RHCs.	See SPI 1.
WPI 29	Percentage of Coastal States which have set up a national geospatial infrastructure.	Collated by IRCC through RHCs.	Not available. This information was not available for 2012. May be available from RHC reports and an improved C-55 database in the future
WPI 40	Number of agreements signed in the reporting period, including bilaterals and RENC membership, etc.	Collated by IRCC through RHCs.	IHB estimate: 2 <i>No bilaterals reported in 2012; 2 new members of Primar (Iran, Georgia)</i> (2011: 7 bilaterals reported)
WPI 41	Percentage of planned CB events that are achieved.	Collated by CBSC.	See SPI4bis.
WPI 42	Number of acceptable CB requests received.	Collated by CBSC.	IHB estimate: 31 (2011: 14)
WPI 43	Percentage of "acceptable" CB requests which are planned.	Collated by CBSC.	See SPI4.

³ Serbia is not considered as a Coastal State.

IHO/IHB Output Statistics

Table 4 summarizes the long term evolution of some significant indicators of the outputs of the IHO.

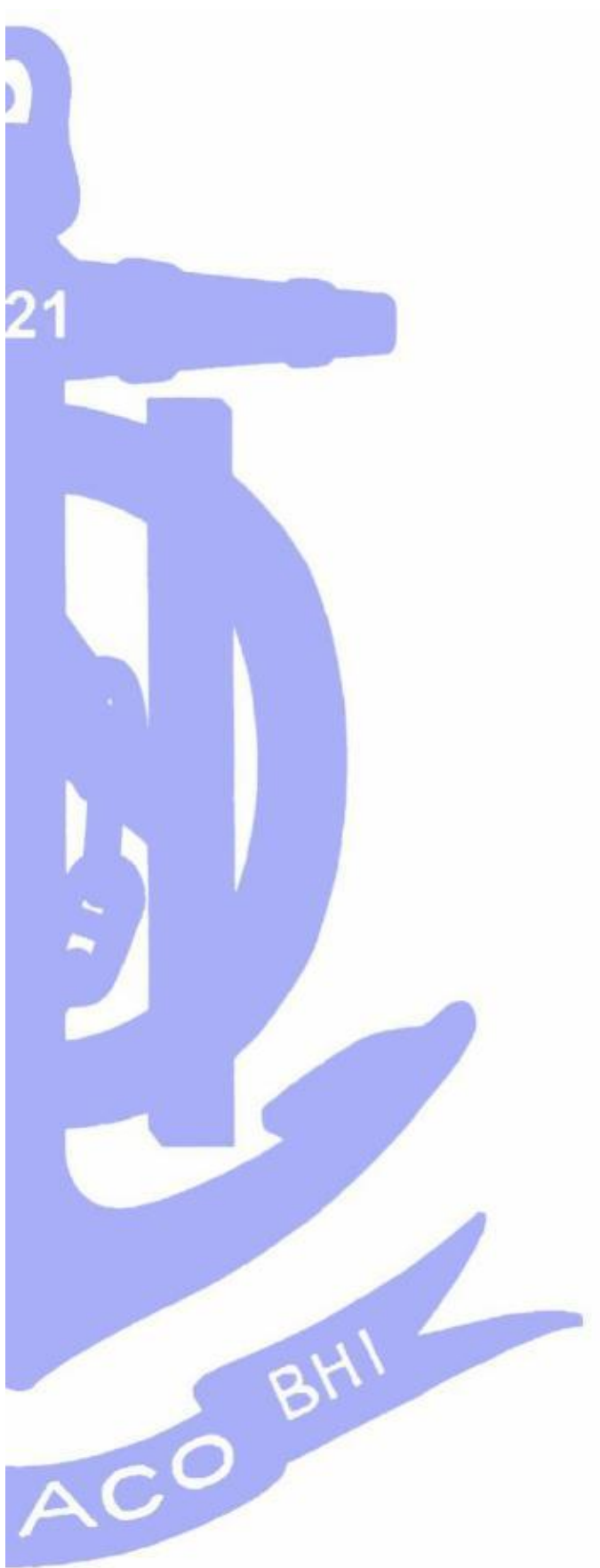
Table 4
IHO/IHB Output Statistics

	1988	1994	2000	2006	2012 (Conference Year)
Number of MS	56	59	69	72	81
Annual Approved Budget (M€)	(0.95M SDR) €1.1M	(1.4M SDR) €1.6M	(14.6252FF) €2.2M	€2.7M	€2.9M
Value of a Share	(1 660 SDR) \$1 894	(2 382 SDR) \$2 718	(24 650 FF) \$3 758	\$3 984	\$3 984
Number of IHB Staff	20	21	21	19	19
Number of seconded officers	3*	0	0	0	2
Number of RHCs +HCA	7	11	13	14	16
Number of major coordinating committees					2
Number of working level committees / subcommittees / WGs	6	8	11	12	12
Number of inter-organizational bodies	5	5	5	5	5
Number of CLs and FCCLs	54	69	56	91	109
Number of active IHO publications	24	37	35	36	48
Number of IHO standards and technical reference documents**	8	10	18	24	28
Number of new editions or revisions of IHO Publications			10	18	12
Number of website pages			30 pages supporting 400 docs	140 pages supporting 25,000 docs	217 pages supporting 40,000 docs
Number of CB tech visits and activities involving IHB				12	24
Number of meetings hosted in Monaco***	4	7	7	16	6
Number of missions to represent IHB	44	58	57	56	52 (65 in 2011)

* short term secondments.

** based on the list in Appendix 1 to IHO Resolution 2/2007 as amended.

*** including sessions of the International Hydrographic Conference.







ANNUAL REPORT

OF THE

**INTERNATIONAL HYDROGRAPHIC
ORGANIZATION**

2012

PART 2 - FINANCES



PART 2 - FINANCES

Foreword to the Finance Report for 2012

The Directing Committee is pleased to present the statement of the finances and accounts of the IHO for 2012.

Budget Surplus

1. The audited financial statement shows an overall surplus of 205,705.71€ (see table “Total Operating Statement”) compared with the approved budget. However, as has been the case for a number of years, maintenance of the guaranty sum in the Internal Retirement Fund (IRF) was not included as part of the budget for 2012.
2. Significant contributions to creating the surplus for 2012 included:
 - a. an increase in the collection of internal tax,
 - b. less than anticipated personnel costs,
 - c. less than anticipated expenses for travel,
 - d. fewer consultancy or contract support arrangements than anticipated, and
 - e. additional extraordinary income from interest and exchange operations.
3. Personnel costs benefitted from a higher level of medical insurance benefits than forecast and a generally lower salary bill. The lower salary bill is due to the recent retirement of some personnel whose salaries included a significant element based on seniority.
4. The Directing Committee was unable to spend a significant part of the budget allocated for consultancy and contract support. This was because of limited availability of suitable personnel in the IHB to specify, call for and then manage contract work, and in other cases the lack of any specifications or specific requirements from IHO bodies for commercial support assistance.

Capacity Building Fund

5. In 2012 the Capacity Building Fund provided direct support to training activities as well as supporting the attendance of participants at various technical workshops and seminars. The fund received an additional 279k€ in external support from the Republic of Korea, which will be used to implement the growing list of approved capacity building projects.

Shortfall in Internal Retirement Fund

6. The IRF supports the IHO’s independent retirement plan for a number of the longer serving and now retired members of the IHB staff. 9 retired members and 2 current members of staff are covered by the IRF. The IRF is now closed to staff. All other staff are covered by commercially-based Personal Retirement Plans.
7. The IRF has been deposited in bank accounts that are now providing a much lower rate of interest than in previous years due to a general decrease in global interest rates. Taking into consideration the lower rates of interest and the inevitable increase in liability for the two current staff members as they accrue more years of service before they retire (most likely in 2014 and 2018), the investment sum required to meet the liabilities of the IRF at the end of 2012 increased from 2,893,108€ to 3,028,394€. If the fund is to match its liabilities, there is now a shortfall of 135,286€. At the end of 2013, if interest rates remain similar to 2012, the liability is predicted to increase to 3,064,968€ - a further increase of

36,574€. If interest rates are lower than in 2012, then the shortfall will obviously be larger. Given the probable low interest rates in the next few years, it is likely that the liability on the IRF will continue to increase annually, requiring a modest annual contribution to be made to the IRF. However, from 2018 onwards, when the current staff members in the IRF retire, the IRF may become self-sufficient if the difference between interest and inflation rates remains similar to today.

Other Funds

8. **Conference Fund and Directors and Category A Staff Relocation Fund.** The Conference Fund and the Directors and Category A Staff Relocation Fund are in a healthy position and should be able to meet all anticipated expenditure over the next few years without any adjustment to the budget forecast. This may need to be revised when the revised convention on the IHO enters force and an annual meeting of the IHO Council is programmed.

9. **The Special Projects Fund,** currently amounting to 52,819€, was established in 2012 to provide funds in addition to the consultancy budget allocation to assist the IHO and its subsidiary bodies to progress tasks in the IHO work programme through contract support. However, to date, little use has been made of the fund, principally because the IHO bodies have not provided the IHB with any documentation against which contracts can be let.

Member States' Subscriptions

10. At the end of 2012, 93% of Member States' contributions had been received. This figure was 6% higher than the previous year. At the end of the year five States remained in arrears. A cause for concern is the increasing difficulty for some Member States to forward their subscriptions because of international sanctions against the transfer of funds and the consequent refusal of banks to handle the transactions. The Directing Committee is continuously monitoring this situation and investigating ways of ensuring that the payments can be made.

Proposals for 2012 Budget Surplus

11. The ongoing shortfalls in the IRF should be addressed as a matter of priority in order to ensure that the pensions of retirees are not compromised now or in the future and also to protect the Organization from additional significant expenses in the future. The Directing Committee proposes that the shortfall in guaranty for 2012 be met from the 2012 budget surplus.

12. Given that a shortfall in the guaranty sum is also predicted for 2013 and no budget provision has been made in the 2013 budget, the Directing Committee proposes that this shortfall should also be met from the 2012 budget surplus.

13. Noting that the XVIIIth IHC overturned a proposed reduction in the annual budget allocation to the Capacity Building Fund, clearly indicating its wish that the Capacity Building programme supported by the Capacity Building Fund be afforded a high priority, the Directing Committee proposes that the balance of the budget surplus for 2012 be transferred to the Capacity Building Fund.

14. The Directing Committee, with the agreement of the Finance Committee Officers, therefore proposes that the budget surplus for 2012 of 205,705.71€ be allocated as follows:

- 135,286.00€ to the IRF to meet the shortfall in the guaranty of the fund for 2012.
- 36,574.00€ to the IRF to meet the anticipated shortfall in the guaranty of the fund for 2013.
- 33,845.71€ to the Capacity Building Fund.

Future Budget Estimates

15. The Directing Committee has noted that in recent years the IHO budget has declared a significant surplus at the end of each year. However, most of that surplus has been required to transfer immediately into various otherwise under-provisioned funds, such as the IRF, the Conference Fund, the Relocation of Directors Fund and the Capacity Building Fund.

16. In order to improve accounting and budget management practice and to present a more realistic forecast budget to Member States for their approval, the Directing Committee will in future submit a more precise operational budget that will include the hitherto unspecified obligations to the various funds. This will begin with the budget for 2014. This change should have no impact on the overall finances of the Organization.

Thanks

17. The Directing Committee wishes to thank Mr Claude CATTALORDA, Chair of the IHO Finance Committee from January 2009 to March 2012 and Mr Alain LAISNE-WOLL Vice Chair of the Committee from October 2009 to March 2012, for their sound advice and oversight of the financial operations of the IHO during their terms of office.

Conclusion

18. The Directing Committee is confident in the financial situation of the Organization and its ability to meet all its obligations.

On behalf of the Directing Committee
Yours sincerely,



Robert WARD
President

Rapport financier annuel pour 2012

Avant-propos

Le Comité de direction a l'honneur de vous présenter l'état des finances et des comptes de l'OHI pour l'année 2012.

Budget Surplus

1. Le rapport du commissaire aux comptes indique un résultat annuel excédentaire de 205 705,71 euros (se reporter au tableau « Compte de résultats ») par rapport au budget approuvé.

Toutefois, comme pour les années antérieures, le maintien de la garantie du Fonds de Retraite Interne n'était pas inclus dans le budget 2012.

2. Les contributions significatives au surplus 2012 comprennent:

- a. Une augmentation de la perception de la taxe interne,
- b. Des dépenses de personnel moindres que prévues
- c. Des frais de voyage moindres que prévu,
- d. Moins de contrats de conseil et de soutien que prévu, et
- e. Des revenus exceptionnels additionnels provenant des intérêts perçus et des opérations de change.

3. Les coûts de personnel ont bénéficié d'un surplus de remboursement de frais médicaux, ainsi que de salaires généralement plus bas par rapport aux prévisions. La baisse des coûts salariaux provient du départ récent à la retraite de certains membres du personnel dont le salaire comprenait une part significative correspondant à leur ancienneté.

4. Le Comité de direction n'a pas pu dépenser une partie significative du budget alloué aux dépenses de conseil et de soutien. Ceci résulte d'une disponibilité limitée du personnel qualifié au BHI pour spécifier, solliciter des offres et gérer les tâches sous-traitées, et dans d'autres cas, du manque de spécifications ou d'exigences spécifiques de la part des organes de l'OHI pour un appui et une assistance externalisés.

Fonds de Renforcement des Capacités

5. Durant l'année 2012, le fonds pour le renforcement des capacités a continué d'apporter un soutien direct aux activités de formation, ainsi qu'à la présence de participants à différents ateliers et séminaires techniques. Ce fonds a également reçu, en 2012, un soutien externe de la part de la République de Corée à hauteur de 279 k€, qui sera employé pour exécuter la liste toujours croissante des projets de renforcement de capacités approuvés.

Déficit du Fonds de Retraite Interne

6. Le FRI alimente le plan de retraite indépendant de l'OHI pour les membres les plus anciens du personnel du BHI et pour ceux qui sont maintenant à la retraite. 9 membres retraités et 2

membres actuels du personnel sont couverts par le FRI. Le FRI est maintenant fermé aux nouveaux membres du personnel. Le reste du personnel est couvert par des plans de retraite externes personnalisés.

7. Le FRI est investi dans des comptes bancaires qui génèrent une rémunération nettement inférieure à celle des années antérieures, en raison d'une baisse générale des taux d'intérêts globaux. Compte tenu de la baisse des taux d'intérêt, et de l'augmentation inévitable du passif du FRI pour les deux membres actifs du personnel qui continueront d'accumuler des années de service jusqu'à leur retraite (normalement en 2014 et 2018), le capital nécessaire à fin 2012 pour couvrir le passif du FRI augmente de 2 893 108 € à 3 028 108 €. Pour couvrir ses engagements, le FRI accuse un déficit de 135 286 €. Fin 2013, si les taux d'intérêts restent au même niveau qu'en 2012, il est estimé que le passif passera à 3 064 968 €, soit une augmentation supplémentaire de 36 574 €. Si les taux d'intérêts sont inférieurs à ceux de 2012, le déficit sera bien entendu plus important. Étant donné les faibles taux d'intérêt attendus pour les prochaines années, il est vraisemblable que le passif du FRI continuera d'augmenter annuellement, nécessitant une modeste contribution annuelle à ce fonds. Toutefois, à partir de 2018, quand les membres actifs du personnel couverts par le FRI auront pris leur retraite, le FRI pourrait devenir auto-suffisant si la différence entre l'inflation et les taux d'intérêts reste au même niveau qu'aujourd'hui.

Autres fonds

8. **Fonds de Conférence et Fonds de Déménagement des Directeurs et Personnel de catégorie A.** Les Fonds de Conférence et Fonds de Déménagement des Directeurs et Personnel de catégorie A sont dans une position saine, et devraient couvrir toutes les dépenses prévues pour les prochaines années sans ajustement de prévisions budgétaires. Ceci sera peut-être sujet à révision quand la convention amendée de l'OHI entrera en application et qu'une réunion annuelle du Conseil de l'OHI sera programmée.

9. Le Fonds de Projets Spéciaux, actuellement d'un montant de 52 819 €, a été établi en 2012 pour fournir des fonds en plus de la dotation budgétaire aux dépenses de consultants pour assister l'OHI et ses organes subsidiaires à exécuter des tâches du programme de travail de l'OHI par de la sous-traitance. Toutefois, à ce jour, ce fonds a été peu utilisé, principalement parce que les groupes de travail de l'OHI n'ont pas fourni au BHI de documentation qui permette de contractualiser cette sous-traitance.

Contributions des États membres

10. A la fin de 2012, 93% du montant des contributions attendues des États membres avaient été versés. Ce chiffre est supérieur de 6% à celui de l'année précédente. A la fin de l'année, cinq États montraient toujours un arriéré de paiement. La difficulté grandissante de certains États à faire parvenir leur contribution à cause de sanctions internationales interdisant les transferts de fonds, et le refus des banques de traiter ces transactions, devient un sujet préoccupant. Le Comité de direction surveille en permanence cette situation et étudie les moyens de faire effectuer ces paiements.

Propositions pour l'excédent budgétaire 2012

11. Les déficits constatés du FRI doivent être traités de manière prioritaire, afin de s'assurer que les paiements des retraites ne soient pas compromis à l'avenir, et également pour protéger l'Organisation contre de futures dépenses supplémentaires significatives. Le Comité de direction propose de combler le déficit de garantie 2012 avec le surplus budgétaire 2012.

12. Dans la mesure où un déficit est également anticipé pour 2013, et qu'aucune provision n'a été faite au niveau du budget 2013, le Comité de direction propose que ce déficit soit également couvert par le surplus budgétaire 2012.

13. Notant que la XVIIIème Conférence a rejeté une réduction proposée dans l'allocation budgétaire annuelle au Fonds de Renforcement des Capacités, exprimant clairement son souhait que le soutien du programme de Renforcement des Capacités par le Fonds de Renforcement des Capacités bénéficie d'une priorité élevée, le Comité de direction propose que le solde du surplus budgétaire 2012 soit transféré au Fonds de Renforcement des Capacités.

14. Le Comité de direction, avec l'accord du comité restreint de la Commission des Finances, propose par conséquent que le surplus budgétaire 2012 de 205 705,71€ soit réparti de la manière suivante:

- **135 286,00 €** au FRI pour couvrir le déficit de garantie de ce fonds pour 2012.
- **36 574,00 €** au FRI pour couvrir le déficit anticipé de garantie de ce fonds pour 2013.
- **33 845,71 €** au Fonds de Renforcement des Capacités.

Prévisions budgétaires futures

15. Le Comité de direction a noté que ces dernières années, le budget de l'OHI a déclaré un surplus significatif en fin d'année. Toutefois, la majorité de ce surplus a été transférée immédiatement dans différents fonds sous-provisionnés, comme le FRI, le Fonds de Conférences, le Fonds de Déménagement et le Fonds de Renforcement des Capacités.

16. Dans le but d'améliorer la gestion comptable et budgétaire, et de présenter un budget prévisionnel plus réaliste à l'approbation des Etats membres, le Comité de direction soumettra à l'avenir un budget opérationnel plus précis qui incorporera les obligations jusqu'à présent non spécifiées des différents fonds. Ceci commencera avec le budget 2014. Ce changement ne devrait pas avoir d'impact sur les finances globales de l'Organisation.

Remerciements

17. Le Comité de direction souhaite remercier M. Claude COTTALORDA, président de la commission des finances de l'OHI de janvier 2009 à mars 2012, et M. Alain LAISNE-WOLL ; vice-président de la commission d'octobre 2009 à avril 2012, pour leurs conseils avisés et leur supervision des opérations financières de l'OHI pendant leur mandat.

Conclusion

18. Le Comité de direction reste confiant quant à la situation financière de l'Organisation, ainsi qu'en sa capacité à assumer toutes ses obligations.

Pour le Comité de direction,



Robert WARD
Président

21







21 **INTERNATIONAL PRESENTATION**

PRESENTATION INTERNATIONALE



International Hydrographic Organisation - Organisation Hydrographique Internationale
Charges et revenus comparés
Compared Global Income and Expenditure
as of 31st December 2012 - au 31 décembre 2012
(expressed in thousands Euros - exprimé en milliers d'Euros)

	2012	2011
Revenus - <i>Income</i>	2 896	2 888
Charges opérationnelles - <i>Operating costs</i>	<u>-2 573</u>	<u>-2 548</u>
Résultat opérationnel - <i>Operating surplus</i>	323	340
Intérêts reçus - <i>Interest receivable</i>	38	47
Équipement de bureau - <i>Office equipment</i>	-30	-33
Opérations de change - <i>Financial operations (currency exchange)</i>	0	0
Dotations aux fonds dédiés - <i>Transfer to dedicated funds</i>	-126	-116
Résultat annuel - <i>Surplus for the year</i>	Euros <u>205</u>	<u>238</u>

Etat d'évolution du financement permanent
Statement of changes in permanent funding

	Capitaux permanents de POHI	Revaluation Reserve	Autres réserves (note 9)	Total
Montants en début d'année	2 755		1 781	4 536
Résultat de l'année - <i>Surplus for the year</i>	205	-	-	205
Evolution des fonds dédiés - <i>Evolution of dedicated funds:</i>				
- Dépensé à partir des fonds - <i>Spent from dedicated funds</i>	-	-	2	2
- Fonds de rénovation - <i>Renovation fund</i>		-	-	
- Fonds de déménagement des directeurs - <i>Removal fund</i>		-	-	
- Fonds de conférence - <i>Conference fund</i>	-50	-	-	-50
- Fonds de Renforcement des Capacités - <i>CB fund</i>	-50	-	-	-50
- Fonds de Projets spéciaux - <i>Special Projects fund</i>	-88	-	-	-88
Mouvements dans l'année - <i>Movement in the year (provisions):</i>				
- Provision Etats membres - <i>Provision Member States</i>	-27			-27
- Variation provision du FRI - <i>Changes in IRF requirements</i>	-274	-	-	-274
- Variation du fond de réserve - <i>Allocation to Emergency Reserve Fund</i>	-9	-	-	-9
Montants en fin d'année	<u>2 463</u>	<u>0,00</u>	<u>1 783</u>	<u>4 246</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale
Bilans comparés
Compared Balance Sheet
as of 31st December 2012 - au 31 décembre 2012
(expressed in thousands Euros - exprimé en milliers d'Euros)

	<i>Notes</i>	2012	2011
Immobilisations - Fixed assets			
Valeur nette des immobilisations - <i>Net Tangible assets</i>	4	82	56
Investissements financiers - <i>Financial investments</i>	5	0	0
Actif circulant - Current assets			
Débiteurs - <i>Debtors</i>	6	345	399
Disponibilités bancaires du BHI			
Cash at bank & in hand :	11	4 977	4 766
		<u>5 323</u>	<u>5 165</u>
Créditeurs - montant à moins d'1 an			
Creditors - amounts falling due within 1 year	7	-1 158	-686
		<u>4 165</u>	<u>4 479</u>
Fond de roulement - Working capital			
Provision pour les retraites	8	3 452	3 458
Provision for retirement fund		<u>-3 452</u>	<u>-3 458</u>
		0	0
Actif net - <i>Net assets</i>		Euros <u>4 246</u>	Euros <u>4 536</u>
Réserves - Reserves			
Capitaux permanents de l'OHI - <i>Accumulated surplus</i>		2 463	2 755
Autres réserves - <i>Other reserves</i>	9-10	1 783	1 781
		Euros <u>4 246</u>	Euros <u>4 536</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale

Etat de flux financiers

Cash Flow Statement

as of 31st December 2012 - au 31 décembre 2012

(expressed in thousands Euros - exprimé en milliers d'Euros)

	2012	2011
Cash Flow opérationnel - from operating activities		
Résultat opérationnel de l'année - <i>Surplus for the year</i>	205	238
Adjustments for :		
Dépréciation des immobilisations - <i>Depreciation</i>	12	10
Cession d'immobilisations - <i>Sale of fixed assets</i>	0	0
Provision du FRI - <i>Retirement fund provision</i>	0	0
Variation des réserves - <i>Reserve movements</i>	0	0
Intérêts bancaires - <i>Bank interest</i>	-22	-36
Charges financières - <i>Interest expense</i>	<u>0</u>	<u>0</u>
	-10	-26
<i>Surplus before working capital changes</i>	<u>195</u>	<u>212</u>
Variation des débiteurs - <i>Increase in trade and other receivables</i>	54	119
Variation des créditeurs - <i>Increase in trade payables</i>	<u>-472</u>	<u>-184</u>
	-418	-65
Flux financier opérationnel - <i>Cash generated from operations</i>	<u>-223</u>	<u>147</u>
Intérêts réglés - <i>Interest paid</i>	0	0
Variation du Fonds de retraite - <i>Retirement fund adjustment</i>	<u>135</u>	<u>-67</u>
	135	-67
Flux financier opérationnel net - <i>Net cash from operating activities</i>	<u>-88</u>	<u>81</u>
Flux financier des investissements		
<i>Cash flows from investing activities</i>		
Achats d'immobilisations - <i>Purchase of fixed assets</i>	-37	-6
Cessions d'immobilisations - <i>Sale of fixed assets</i>	0	0
Intérêts reçus - <i>Interest received</i>	<u>22</u>	<u>36</u>
	-15	30
Flux net des opérations d'investissement <i>Net cash movement in investing activities</i>	<u>-15</u>	<u>30</u>
Total des flux financiers - Net decrease in cash	-103	111
Disponibilités au 1er janvier de l'année <i>Cash at 1st January of the year</i>	<u>8 241</u>	<u>8 130</u>
Disponibilités au 31 décembre de l'année <i>Cash at 31st December of the year</i>	Euros <u>8 138</u>	Euros <u>8 241</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale
Notes relatives aux états financiers
Notes to the Financial Statements
as of 31st December 2012 - au 31 décembre 2012
(expressed in thousands Euros - exprimé en milliers d'Euros)

1 Principes comptables - Accounting Policies

(a) Principes comptables de base - Basis of accounting

Les états financiers sont préparés selon la méthode du coût historique ainsi que selon les normes comptables internationales (IAS / IFRS).

The financial statements are prepared under the historical cost convention and in accordance with applicable International Accounting Standards.

(b) Revenus - Income

Les revenus proviennent essentiellement des contributions des Etats Membres de l'OHI.

Income principally represents contributions receivable from Member States.

(c) Contributions échues - Overdue contributions

Conformément à l'article 13 du Règlement financier, l'OHI décompte un intérêt à raison de 1% par mois de retard sur les contributions échues. Les droits et prérogatives d'un Etat membre peuvent se trouver suspendus lorsque ces contributions sont échues depuis au moins 2 années et demie.

(se reporter à l'article 16 du Règlement financier de l'OHI).

In accordance with Article 13 of the Finance Regulations, the IHO charges interests at the rate of 1 % per month on overdue contributions (see art. 13 of the IHO Financial regulations).

Members States can be suspended when contributions are in arrears by at least two years and a half (see art. 16 of the IHO Financial regulations).

La Serbie n'ayant pas réglé les contributions des années 2010, 2011 et 2012 rentre dans le cadre de l'article 16 - 1 du Règlement financier de l'OHI, et voit ses droits et prérogatives suspendus à compter du 1er janvier 2013.

Les arriérés de contributions ont fait l'objet d'une provision pour risque à fin 2012.

Article 16 - 1 of IHO Financial Regulations has been applied to Serbia, as it has not paid its contributions for 2010, 2011, 2012. This Member State is thus suspended as of the 1st January 2013, and a provision for doubtful contributions has been made at the end of 2012.

(d) Amortissement des immobilisations - Depreciation of tangible assets

Il est pratiqué un amortissement sur toutes les immobilisations (d'un prix unitaire supérieur à 762 Euros) à hauteur de la valeur totale de l'immobilisation sur sa probable durée d'utilisation selon les taux suivants :

Mobilier - 20 % du coût par année (sur 5 années)

Equipement informatique - 33.33 % du coût par année (sur 3 années).

Provision is made for depreciation on all tangible assets (over 762 Euros per article) at rates calculated to write off the cost or valuation over its expected useful life as follows :

Furniture - 20% per annum on cost (5 years)

IT Equipment - 33.33% per annum on cost (3 years).

(e) Transactions en devises - Foreign currencies

En cours d'année, les transactions libellées en devises sont converties en Euros au taux de change en vigueur à la date de la transaction.

En fin d'année, les dettes et disponibilités libellées en devises sont converties en Euros au taux de change à la date d'établissement du bilan. Les pertes et gains de change sont enregistrés dans le compte de résultat.

During the year, transactions denominated in foreign currencies are translated into Euros at the rate of exchange ruling at the date of the transaction.

At the end of the year, current assets and liabilities denominated in foreign currencies are translated at the rate of exchange ruling at the balance sheet date.

Profit and losses on exchange are dealt with in the profit and loss account.

(f) Fond de retraite - Retirement fund

L'OHI gère un fonds de pension partiellement sous capitalisé dénommé Fonds de retraite interne (FRI). Une partie du personnel actif est encore concernée par ce fonds.

La totalité des avoirs destinés à couvrir les engagements de ce fonds font l'objet de comptes bancaires spécifiques sous forme de comptes de dépôt à terme.

L'Organisation retient l'intégralité de l'engagement déterminé sur la base de l'estimation d'une étude actuarielle (voir note 8). À compter de l'année 2005, les pensions ont été réglées à partir des avoirs du FRI, au lieu de se trouver réglées à partir du budget de l'OHI, comme ce fut le cas de 2000 à 2004.

The Organisation operates a partially unfunded benefit pension scheme known as the Internal Retirement Fund (IRF). A few members of the active staff are still concerned by this fund.

A proportion of the assets held to meet the pension liability are held in designated bank accounts and investments. The Organisation makes full provision for the estimated liability based on actuarial valuation (see note 8).

From the year 2005, pensions are paid from dedicated IRF accounts as opposed to a payment from the IHO budget as for previous years (from 2000 to 2004).

g) Réserve de trésorerie opérationnelle et Fond de réserve d'urgence

Operating Cash Reserve and Emergency Reserve Fund

Selon les termes de la lettre circulaire FCCL 6/2003 approuvée :

a - l'article 18 du règlement financier indique que le BHI disposera à la fin de chaque année d'une réserve de trésorerie opérationnelle, dont le montant sera d'au moins 3/12èmes du budget opérationnel annuel,

b - le montant du fonds de réserve (renommé Fonds de réserve d'urgence) ne sera pas inférieur à 1/12ème du budget opérationnel annuel (voir note 11).

Following the approval of FCCL 6/2003 :

a - Article 18 of the Financial Regulations implies that the IHB will have at its disposal by the end of each year an amount of operating cash reserve, which will correspond to at least 3/12th of the annual operating budget.

b - The reserve fund is now called "Emergency Reserve Fund" and its amount shall not be less than 1/12th of the annual operating budget (see note 11).

h) Evolution ou changement de procédures internes - Evolution or changes of internal procedures

À compter de 2007, et en accord avec l'auditeur nommé, les procédures internes ont évolué dans 3 domaines :

- pour l'amortissement des immobilisations, le BHI retient maintenant la date d'acquisition de l'immobilisation au lieu de commencer à constater l'amortissement à partir du début de l'année suivante.

- les dotations aux fonds dédiés (Conférences, déménagement des directeurs, fonds d'impression, fonds de renforcement des capacités, fonds de rénovation et fonds pour la Gebco) ne sont plus prélevées sur le capital, mais sont dotées à partir du budget. Toutefois, à l'initiative du Comité de Direction, des dotations exceptionnelles peuvent être proposées, dans le cadre de l'affectation du résultat de l'année précédente.

- la comptabilisation des intérêts courus non échus des comptes de dépôt n'aura lieu que sur les comptes d'exploitation, à l'exclusion des comptes de retraite et des fonds dédiés.

From 2007, and in coordination with the appointed auditor, internal procedures have seen an evolution in 3 fields:

- regarding the depreciation of fixed assets, the IHB is now depreciating these assets from the date of acquisition of the asset, as opposed to starting the depreciation the year following that date.

- Allocations to dedicated funds (Conference fund, Removal fund, Printing fund, Capacity Building fund, Renovation fund & Gebco fund) will be charged from the budget. It will not be supported by the capital. Meanwhile, on submission of the Directing Committee, exceptional allocations may be proposed. They will reduce the net profit to be transferred to the capital.

- Accounting of non expired run interests on deposit accounts will concern operating deposit accounts (not applicable for retirement deposit accounts and dedicated funds).

2 Information relative au personnel - Employee Information

2012

2011

Charges de personnel - Personnel costs :

Comité de direction - <i>Directing Committee</i>	457	438
Salaires du personnel - <i>Salaries to Staff Members</i>	1 156	1 172
Cotisations aux régimes de retraite - <i>Payment to retirement funds</i>	324	325
Primes d'assurance - <i>Medical insurance costs</i>	93	77
Allocations au personnel - <i>Allowances</i>	42	14
Autres charges de personnel - <i>Other staff expenses</i>	43	27
Personnel temporaire - <i>Temporary staff & secondment</i>	0	0
Formation - <i>Training</i>	12	2
Euros	<u>2 127</u>	<u>2 055</u>

L'effectif moyen annuel se décompose comme suit :

The average number of employees during the year was made up as follows :

Comité de direction - <i>Directing Committee</i>	3	3
Personnel de cat. A - <i>Category A staff</i>	5	5
Personnel de cat B- <i>Support Staff (B)</i>	11	11
	<u>19</u>	<u>19</u>

3 Imposition du résultat - Taxation

Selon l'accord conclu entre l'OHI et le Gouvernement de la Principauté de Monaco, les résultats de l'activité de l'Organisation sont exempts d'imposition.

By agreement between the IHO and the Government of the Principality of Monaco, the Organisation is exempt from direct taxation.

4 Immobilisations - Tangible Fixed Assets

Valeurs d'acquisition - Cost

	Mobilier & Instruments	Bibliothèque	Total
Au 1er janvier de l'année - <i>At 1st January 2012</i>	213	37	250
Acquisitions de l'année - <i>Purchase for the year</i>	37	0	37
Au 31 décembre de l'année - <i>At 31st December 2012</i>	<u>251</u>	<u>37</u>	<u>287</u>

Amortissements - Depreciation

Au 1er janvier de l'année - <i>At 1st January 2012</i>	-194	0	-194
Amortissements de l'année - <i>Depreciations for the year</i>	-11	0	-11
Au 31 décembre de l'année - <i>At 31st December 2012</i>	<u>-205</u>	<u>0</u>	<u>-205</u>

Valeur nette - Net book value

Au 31 décembre de l'année n-1 - <i>At 31st December of previous year</i>	Euros	20	37	56
Au 31 décembre de l'année n - <i>At 31st December of current year</i>	Euros	<u>46</u>	<u>37</u>	<u>82</u>

5 Placements financiers - I.H.O Financial Investments

Sicav de Trésorerie - <i>Cash investments</i>	1 333
Autres placements - <i>Any other holdings</i>	0
Euros	<u>1 333</u>

6 Débiteurs - Debtors

		2012	2011
Contributions restant dues (nettes de provision) <i>Overdue contributions less provision</i>	Schedule 1	240	315
TVA récupérable - <i>VAT recoverable</i>		77	44
Avances au personnel et charges constatées d'avance <i>Prepayments and Staff advances</i>		28	40
	Euros	<u>345</u>	<u>399</u>

7 Crédateurs - Creditors

		2012	2011
Contributions reçues en avance - <i>Prepaid contributions</i>	Schedule 2	873	607
Garantie au FRI - <i>Guaranty to the IRF</i>		98	-122
Crédateurs et charges à payer - <i>Creditors and accruals</i>	Schedule 2	187	201
	Euros	<u>1 158</u>	<u>686</u>

8 Engagements pour la retraite - Pension Commitments

		2012	2011
- Dépôts à terme du FRI - <i>IRF Bank deposits</i>		2 931	3 015
- Disponibilités du FRI - <i>CMB Bank deposits</i>		424	565
	Euros	<u>3 355</u>	<u>3 580</u>
- Garantie du BHI - <i>IHB Guaranty</i>		98	-122
- Intérêts à recevoir - <i>Interests to be received</i>		0	0
- Estimation de l'engagement de retraite du personnel <i>Estimated net liabilities to Staff Members (FRI + CMB)</i>	Euros	<u>3 452</u>	<u>3 458</u>

9 Fonds dédiés (pour des opérations ultérieures)***Dedicated funds for future operations***

		2012	2011
- Organisation de conférences - <i>Conference organization</i>		423	468
- Changement de directeurs - <i>Directors' relocation</i>		304	405
- Fonds d'impression - <i>Printing equipment fund</i>		74	74
- Fonds de rénovation - <i>Renovation fund</i>		91	92
- Fonds de renforcement des capacités - <i>Capacity Building Fund</i>		473	399
- Fonds de projets spéciaux - <i>Special Projects Fund</i>		53	
- Fonds de la GEBCO - <i>Gebco Fund</i>		63	48
- Fonds de bibliothèque ECDIS - <i>Presentation Library fund</i>		55	48
- Fonds Ablos - <i>Ablos fund</i>		7	15

10 Réserves - Reserves

- Fonds de réserve d'urgence - <i>Emergency Reserve Fund</i>		241	232
	Euros	<u>1 783</u>	<u>1 781</u>

11 Réserve de trésorerie en fin d'année - End of Year Cash Reserve

2012

2011

Le montant de trésorerie de fin d'année est un indicateur très utile pour illustrer la solvabilité de l'Organisation, et sa capacité à poursuivre ses opérations durant les 3 mois de l'année suivante (ou 13 semaines).

Un mois supplémentaire se trouve requis pour le fonds de Réserve d'urgence (soit un total de 17 semaines).

The end-of-year cash reserve is a very useful indicator of the liquidity of the Organisation, and its ability to continue operations in the new year. It should be sufficient for 3 months operations (or 13 weeks).

In addition, a further 1 month is required for the Emergency Reserve Fund (equivalent to 17 weeks).

Trésorerie de l'OHI - IHO Cash balances

Moins - Less	4 977	4 766
- Contributions de l'année suivante - Contributions received in advance	-873	-607
- Valeur des fonds dédiés - Dedicated funds	-1 542	-1 549
	<u>Euros 2 562</u>	<u>2 610</u>
- Garantie en faveur du FRI - Guaranty to the IRF	-98	122
- Trésorerie disponible - Net available Cash	<u>Euros 2 464</u>	<u>2 733</u>

44 semaines de fonctionnement

44 weeks of operations

Total du budget de l'année suivante (2013) - Total budget for 2013 :

2 894 (hors fonds dédiés)

- Besoins financiers totaux (Art.18 & 19) = **17 semaines**

Total IHO financial requirements (Art. 18 & 19) = 17 weeks

Art.18 Réserve de trésorerie opérationnelle (3 mois) :

Art.18 Operating Cash Reserve (3 months) :

Art.19 Fonds de réserve d'urgence (1 mois) :

Art.19 Emergency Reserve Fund (1 month) :

-724
-241
<u>Euros 1 500</u>

Excédent de trésorerie disponible

12 Positions financières en devises - Foreign Exchange Holdings

2012

2011

Les disponibilités financières comportent encore des positions en devises étrangères.

Pour information, la valeur de ces positions en devises en fin d'année sont :

The Cash balances still includes financial availabilites held in Foreign currencies.

For information, the value of foreign currencies held at the end of each year was :

- Positions en USD - USD Holdings

3

9

- Positions en GBP - GBP Holdings

0

8

Ces positions en devises sont sujettes à revalorisation, en fonction de la variation des taux de change.

Theses holdings are liable to re-valuation, according to exchange rates fluctuation.

13 Engagements de caution - Guarantee commitments

- Engagements donnés :

Personne visée : M. COSTIN, salarié du BHI, en qualité de locataire de son domicile

Objet : caution solidaire du locataire portant sur paiement du loyer mensuel de 1 000 €

Durée : durée du bail : 3 ans

- Commitments given:

Person concerned: Mr. COSTIN, IHB employee, as Lessee of his apartment,

Subject: surety on the tenant's monthly rent payment of € 1,000

Length: Length of lease: 3 years

Personne visée : M. YAMAO, détaché du service des gardes-côtes japonais auprès du BHI, en qualité de locataire de son domicile

Objet : caution solidaire du locataire portant sur paiement du loyer mensuel de 1 400 €

Durée : durée du bail : 3 ans

Person concerned: Mr. YAMAO, detached from the service of the Japan Coast Guard to the IHB, as Lessee of his apartment

Subject: surety on the tenant's monthly rent payment of € 1,400

Length: Length of lease: 3 years

21 Personne visée : M. MYUNG WON PARK, détaché des autorités hydrographiques de la République de Corée auprès du BHI, en qualité de locataire de son domicile

Objet : caution solidaire du locataire portant sur paiement du loyer mensuel de 1 360 €

Durée : durée du bail : 1 an

Person concerned: Mr. MYUNG WON PARK, detached from the hydrographic authorities of the Republic of Korea to the IHB, as Lessee of his apartment

Subject: surety on the tenant's monthly rent payment of € 1,360

Length: Length of lease: 1 year

Personne visée : M. Mustafa IPTES, Directeur du BHI, en qualité de locataire de son domicile

Objet : caution solidaire du locataire portant sur paiement du loyer mensuel de 3 900 €

Durée : durée du bail : 3 ans

Person concerned: Mr. Mustafa IPTES, Directeur of the IHB as Lessee of his apartment

Subject: surety on the tenant's monthly rent payment of € 3 900

Length: Length of lease: 3 years

ACO BHI

International Hydrographic Organisation - Organisation Hydrographique Internationale
Détail des revenus et charges comparés
Detailed compared Income and Expenditure
as of 31st December 2012 - au 31 décembre 2012
(expressed in thousands Euros - exprimé en milliers d'Euros)

	2012	2011
Revenus - Income		
Contributions des Etats Membres - <i>from Member States</i>	2 725	2 721
Imposition interne - <i>Internal tax</i>	164	161
Ventes de publications - <i>Sales of publications</i>	0,1	0,1
Revenus exceptionnels - <i>Exceptional income</i>	7	6
	<hr/>	<hr/>
	2 896	2 888
Revenus financiers - Interest received		
Intérêts des placements - <i>bank interest</i>	22	36
Profit sur avoirs monétaires - <i>Profit on monetary funds</i>	11	10
Intérêts sur contributions échues - <i>Interest on overdue contributions</i>	5	1
	<hr/>	<hr/>
	38	47
Charges opérationnelles - Operating costs		
Charges de personnel - <i>Personnel costs</i>	2 127	2 125
Déplacements - <i>Long Distance Travel</i>	212	185
Entretien des locaux & équipements - <i>Maintenance</i>	102	95
Poste et télécommunications - <i>Postage, telephone and facimile</i>	36	38
Assistance technique - <i>Technical assistance</i>	35	44
Consultants - <i>Consultancy</i>	7	12
Autres publications - <i>Other publications</i>	1	1
Revue de l'OHI - <i>I.H Review</i>	10	10
Autres coûts opérationnels - <i>Other operating costs</i>	20	12
Fournitures de bureau - <i>Office stationery</i>	10	9
Relations publiques - <i>Public relations</i>	11	15
Charges exceptionnelles - <i>Exceptional cost</i>	2	2
	<hr/>	<hr/>
	-2 573	-2 548
Office equipment		
Amortissement des immobilisations - <i>Depreciation</i>	12	10
Autres achats - <i>Other purchase and repairs</i>	18	23
	<hr/>	<hr/>
	-30	-33
Charges financières - Financial costs		
Gain sur opérations de change - <i>Gain on exchange operations</i>	0	0
Créances douteuses - <i>Bad debts</i>	0	0
	<hr/>	<hr/>
	0	0
Dotations aux fonds dédiés - Allocation to dedicated funds		
	-126	-116
Résultat net annuel - Surplus for the year		
	<hr/>	<hr/>
Euros	205	Euros 238

International Hydrographic Organisation - Organisation Hydrographique Internationale
Contributions échues - Overdue Contributions
as of 31st December 2012 - au 31 décembre 2012
(expresses in thousands Euros - exprimé en milliers d'Euros)

	2012	2011	2010	2009	Interest	Total
Belgium - Belgique	48					48
D.P.R. of Korea - Rép Démocratique de Corée		20			2	22
Ecuador - Equateur	-1					-1
Iran - Iran	36					36
Italy - Italie	27					27
Morocco - Maroc	16					16
Mozambique - Mozambique	8	5			1	14
Oman Sultanate - Sultanat d'Oman	8		1		1	10
Philippines - Philippines	2					2
Serbia - Serbie **	8	8	8		3	27
Sri Lanka	12					12
Syria - Syrie	20					20
Tonga - Iles Tonga	8					8
	192	33	9	0	6,5	240

** Member State suspended as of the 1st January 2013

** Etat Membre suspendu au 1er janvier 2013

Suspended IHO Member States	Outstanding Contributions	Depreciations	Interests due	Balance
Etats Membres de l'OHI suspendus	Contributions arriérées	Dépréciations	Intérêts dus	Solde
Dominican Republic - République Dominicaine	6,3	-7,1	0,8	0,0
D.P. of Congo - R.D.P. du Congo	8,8	-9,8	1,0	0,0
	15,1	-16,9	1,8	0,0

International Hydrographic Organisation - Organisation Hydrographique Internationale
Créditeurs - Creditors
as of 31st December 2012 - au 31 décembre 2012
(expressed in thousands Euros - exprimé en milliers d'Euros)

<u>Contributions reçues d'avance</u>	<i>Reçues en 2012 pour des prochaines contributions</i>	<i>Reçues en 2011 pour des prochaines contributions</i>
Contributions received in advance	Received in 2012 for future contributions	Received in 2011 for future contributions
Australia - <i>Australie</i>	36	36
Brazil - <i>Brésil</i>	44	44
Cyprus - <i>Chypre</i>	95	92
Denmark - <i>Danemark</i>	71	0
Egypt - <i>Egypte</i>	28	24
Estonia - <i>Estonie</i>	16	16
France	60	60
Iceland - <i>Islande</i>	12	12
Ireland - <i>Irlande</i>	12	12
Kuwait - <i>Koweït</i>	0	35
Latvia - <i>Lettonie</i>	16	16
Mexico - <i>Mexique</i>	40	28
Mozambique - <i>Mozambique</i>	4	0
Netherlands - <i>Pays-Bas</i>	60	56
New Zealand - <i>Nouvelle Zélande</i>	12	12
Nigeria - <i>Nigéria</i>	20	0
Pakistan	16	16
Papua New Guinée - <i>Papouasie Nouvelle Guinée</i>	12	0
Poland - <i>Pologne</i>	12	12
Portugal - <i>Portugal</i>	28	0
Russia - <i>Russie</i>	8	11
South Africa - <i>Afrique du Sud</i>	12	16
Surinam - <i>Suriname</i>	0	8
Sweden - <i>Suède</i>	48	0
Thailand - <i>Thaïlande</i>	44	44
Turkey - <i>Turquie</i>	60	56
United Kingdom - <i>Grande Bretagne</i>	107	0
Venezuela	0	1
	Euros <u>873</u>	Euros <u>607</u>
 <u>Créditeurs et charges à payer - Creditors and accruals</u>		
<i>Plan de pensions - Pensions plan payments</i>	-21	115
<i>Charges à payer - Accruals</i>	52	64
<i>Autres créditeurs - Other</i>	156	23
	Euros <u>187</u>	Euros <u>202</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale
Exécution budgétaire - Budget Report
as of 31st December 2012 - au 31 décembre 2012
(expressed in thousands Euros - exprimé en milliers d'Euros)

	2012		
	Budget	Actual - Réel	Variance
Revenus - Income			
Contributions des Etats Membres - <i>Contributions from Members States</i>	2 725	2 725	0
Imposition interne - <i>Internal tax</i>	162	164	2
Ventes de publications - <i>Sales of publications</i>	2	0	-2
Intérêts bancaires - <i>Bank interests</i>	30	33	3
Intérêts sur contributions échues - <i>interests on overdue contributions</i>	0	5	5
	2 919	2 926	8
Charges opérationnelles - Operating costs			
Charges de personnel - <i>Personnel costs</i>	2 186	2 127	59
Déplacements - <i>Long Distance Travel</i>	230	212	18
Entretien - <i>Maintenance</i>	101	102	-1
Postes et télécommunications - <i>Postage, telephone and facsimile</i>	43	36	7
Assistance technique - <i>Technical assistance</i>	45	35	10
Publications	14	1	13
Revue OHI - <i>I.H Review</i>	12	10	2
Consultants - <i>Consultancy</i>	43	7	36
Autres coûts opérationnels - <i>Other operating costs</i>	14	20	-6
Fournitures de bureau - <i>Office stationery</i>	8	10	-2
Relations publiques - <i>Public relations</i>	21	11	10
Charges exceptionnelles - <i>Exceptional costs</i>	1	2	-1
	2 718	2 573	145
Dépenses d'investissement - Capital expenditure			
Amortissement - <i>Depreciation</i>	20	12	8
Autres achats - <i>Other purchase and repairs</i>	47	18	29
	67	30	37
Charges financières - Financial costs			
Fonds de retraite - <i>Retirement Fund</i>	0	0	0
	0	0	0
	134	323	-175





TRADITIONAL PRESENTATION
PRESENTATION TRADITIONNELLE

COMPARED BALANCE SHEETS AS OF 31 DECEMBER 2012 AND 2011

ASSETS	EUR 2012	EUR 2011	LIABILITIES	EUR 2012	EUR 2011
I. INTERNAL RETIREMENT FUNDS ASSETS			I. STAFF RETIREMENT FUNDS LIABILITIES		
. Retirement cash invested (IRF)	2 940 586,16	3 015 246,38	. Staff Retirement fund (IRF)	849 593,51	987 896,90
. Long term guaranty from IHB funds	2 930 586,16	3 015 246,38	. Provision to ensure pensions to IRF staff and retirees	2 178 800,00	1 905 211,00
	97 807,35	-122 138,48		2 893 107,90	2 893 107,90
	3 028 393,51	2 893 107,90	. Actuarial Requirements	326 367,86	604 409,23
. Retirement cash invested (External Pension Plans)	424 071,18	564 909,24			
. Forth quarter to be paid to external plan	0,00	0,00	II. VARIOUS DEBTORS		
	852,05	1 993,83	Pension plans NSM	33 946,83	29 322,27
Purchases made in advance	10 676,15	28 217,66	Personalized pension contribution to be paid	0,00	0,00
Outstanding bills	14 524,28	0,00	A.M.R.R. Complimentary Retirement Scheme	43 191,48	45 713,54
Advance to staff	76 858,72	44 339,03	Accruals (outstanding bills, telex, telephone)	52 135,66	63 957,23
Claim for refunding of VAT	1 950,41	9 401,93	Travel claims & wages	945,17	3 224,97
Interest from Deposit to be received			Provision for doubtful contributions	43 758,30	16 982,59
			Various creditors	127 946,37	0,00
	104 861,61	83 952,45	Deposits received for Conference (stand)	0,00	19 509,09
			Guaranty to the IRF	97 807,35	-122 138,48
				399 731,16	56 571,21
III. OUTSTANDING CONTRIBUTIONS			III. FUNDS		
Contributions for the year	192 036,82	291 451,35	Organization of Conferences	422 897,19	467 524,97
Contributions for previous years	41 453,42	22 829,58	Relocation of Directors and Professional Assistants	303 547,31	404 921,82
Contributions for suspended MS	15 244,78	15 244,78	Printing Equipment fund	73 792,73	73 792,73
Interest remaining due on contributions	8 131,36	3 042,95	Renovation fund	90 894,46	92 466,46
	256 866,38	332 568,66	Capacity Building Fund	472 896,28	398 657,99
			Special Projects Fund	52 818,55	0,00
IV. FURNITURES AND INSTRUMENTS			GEBCO fund	63 286,44	48 456,88
Depreciation of assets	250 501,20	213 140,30	Presentation Library Fund	55 350,01	48 319,00
	-204 840,34	-193 547,48	Ables conference fund	6 758,88	14 842,11
	82 324,85	56 256,81		1 542 241,85	1 548 981,96
V. LIBRARY			IV. CONTRIBUTIONS RECEIVED IN ADVANCE		
	36 663,99	36 663,99	Received in advance or in excess	872 692,48	607 226,40
			V. CAPITAL		
			Emergency Reserve fund	241 157,58	232 067,16
			Provisions for risks	-2 222 558,30	-1 922 193,59
			Net yearly operating profit	205 705,71	237 818,55
			Net Members Fund	4 480 098,60	4 439 189,02
				2 704 403,59	2 986 881,14
				8 873 830,45	8 697 177,84
VI. CASH IN BANK AND ON HAND					
IHB - Bank current accounts	1 603 106,83	298 224,23			
IHB - Bank deposit accounts	3 371 099,22	4 464 703,44			
Pety cash	3 106,87	3 455,11			
	4 977 312,92	4 766 382,78			
	8 873 830,45	8 697 177,84			

BILANS COMPARÉS (au 31 Décembre 2012 et 2011)

ASSETS - ACTIF	EUR 2012	EUR 2011	LIABILITIES - PASSIF	EUR 2012	EUR 2011
L. TRESORERIE DES FONDS DE RETRAITE			L. ENGAGEMENTS DES FONDS DE RETRAITE		
. Trésorerie disponible (FR)I	2 930 586,16	3 015 246,38	. Fond de Retraite Interne (FR)I	849 593,51	987 896,90
. Garantie long terme du BHI (FR)I	2 930 586,16	3 015 246,38	. Provision pour couvrir les pensions du personnel (retraites et actifs relevant du FR)I	2 178 800,00	1 905 211,00
	3 028 393,51	2 893 107,90	. Montant décaissant de l'étude actuarielle	3 028 393,51	2 893 107,90
. Trésorerie placée (Plans externes)	424 071,18	564 909,24	. Plans de pensions externes (ex. AEN Amro)	326 367,86	604 409,23
. Prime trimestrielle à régler (Plans externes)	0,00	0,00			
II. DÉBITEURS DIVERS			II. CRÉDITEURS DIVERS		
. Prestations effectuées d'avance	852,05	1 993,83	. Plans de pension personnalisés (NSM)	33 946,83	29 322,27
. Factures non encaissées	10 676,15	28 217,66	. Plans de pensions externes à payer	0,00	0,00
. Avances au personnel	14 524,28	0,00	. Retraite complémentaire A.M.R.R.	43 191,48	45 713,54
. Demande de remboursement de TVA	76 858,72	44 339,03	. Charges à payer (factures, télécommunications, etc.)	52 135,66	63 957,23
. Intérêts sur placements à recevoir	1 950,41	9 401,93	. Salaires et notes de frais	945,17	3 224,97
	104 861,61	83 952,45	. Provision pour contributions (EM suspendus)	43 758,30	16 982,59
			. Créditeurs divers	127 946,37	0,00
			. Montants reçus pour la prochaine Conférence (standards)	0,00	19 509,09
III. CONTRIBUTIONS			. Garantie en faveur du FR)I	97 807,35	-122 138,48
. Contributions pour l'année en cours	192 036,82	291 451,35		399 731,16	56 571,21
. Contributions échues (années précédentes)	41 453,42	22 829,58	III. FONDS DEDIES		
. Contributions (Etats membres suspendus)	15 244,78	15 244,78	. Fonds d'organisation des conférences	422 897,19	467 524,97
. Intérêts restant dus sur contributions échues	8 131,36	3 042,95	. Fonds de démantèlement des directeurs et PA	303 547,31	404 921,82
	256 866,38	332 568,66	. Fond d'impression des publications	73 792,73	73 792,73
			. Fonds de rénovation	90 894,46	92 466,46
IV. MOBILIER & EQUIPEMENTS			. Fonds de renforcement des capacités	472 896,28	398 657,99
. Amortissement des immobilisations	250 501,20	213 140,30	. Fonds de projets spéciaux	52 818,55	
	-204 840,34	-193 547,48	. Fonds pour la GEBCCO	63 286,44	48 456,88
			. Fonds "Presentation Library"	55 350,01	48 319,00
V. BIBLIOTHEQUE			. Fonds de conférences Ablos	6 758,88	14 842,11
	82 324,85	56 256,81	IV. CONTRIBUTIONS RECUES EN AVANCE	1 542 241,85	1 548 981,96
			. Reçues en avance ou en excédent	872 692,48	607 226,40
VI. TRESORERIE DISPONIBLE			V. CAPITAUX PERMANENTS		
. IHB - Comptes courants bancaires	1 603 106,83	298 224,23	. Fond de réserve d'urgence	241 157,58	232 067,16
. IIB - Comptes de dépôt & placement monétaire	3 371 099,22	4 464 703,44			
. Espèces en caisse	3 106,87	3 455,11			
	4 977 312,92	4 766 382,78	. Provisions pour risques (FR)I + MS)		-1 922 193,59
			. Résultat opérationnel net de l'année en cours		205 705,71
			. Capitaux nets permanents		4 439 189,02
	8 873 830,45	8 697 177,84		2 704 403,59	2 986 881,14
				8 873 830,45	8 697 177,84

L. INCOME - EUR

BUDGETARY STATEMENT FOR 2012
TABLEAU BUDGETAIRE POUR 2012

L. REVENUS - EUR

CHAPTERS CHAPITRES	Unit Value of one share EUR 3 984,48	Estimates Prévisions	Modif. to Estimates Modif. des prévisions		Adjusted Estimates Prévisions révisées	Amount received Montant reçu	100,00%	Differences with adjusted Estimates Différences avec les prévisions révisées	
			Excess Excédent	Deficit Déficit				Excess Excédent	Deficit Déficit
A. Contributions for the year (684 shares) Contributions de l'année (684 parts)		2 725 384,32			2 725 384,32	2 533 347,50 192 036,82	92,95% 7,05%		
B. Sales of publications Ventes de publications		1 500,00			1 500,00	126,43	8,43%	0,00	1 373,57
C. Advertisements in publications Annonces dans les publications		0,00			0,00	0,00	0,00%	0,00	0,00
D. Interest on Bank Accounts : Intérêts sur comptes en banque		30 000,00			30 000,00	22 409,15	74,70%	0,00	7 590,85
E. Internal Tax Taxe interne		161 860,00			161 860,00	163 874,84	101,24%	2 014,84	0,00
Total :		2 918 744,32	0,00	0,00	2 918 744,32	2 911 794,74	99,76%	2 014,84	8 964,42
Contributions due for the previous years / Contributions précédentes perçues					314 280,93	272 827,51	87%	0,00	41 453,42

* Total received in 2012 for all contributions :
2 806 175,01 €

Total reçu en 2012 pour l'ensemble des contributions

CHAPTERS AND ITEMS CHAPITRES & ARTICLES	Amounts originally approved Montants prévus à l'origine	Modifications to original provisions Increase Modifications aux provisions originales En plus	Decrease Diminution En moins	Final provisions Provisions finales	Expenditure achieved Dépenses payées	100.00 %	Estimated surplus or unallocated Excédent Deficit
I. PERSONNEL COSTS DEPENSES DE PERSONNEL							
a) Salaries - Diringing Committee - Salaires du comité de direction	451 000,00	7 000,00	11 000,00	458 000,00	457 490,01	99,9	509,99
b) Salaries - Category A - Salaires personnel de catégorie A	581 500,00			570 500,00	538 046,44	94,3	32 453,56
- Translators - Salaires des traducteurs	134 700,00	71 000,00		205 700,00	203 823,68	99,1	1 876,32
- General Services (B) - Services Généraux (Cat B)	451 400,00		71 000,00	380 400,00	379 507,91	99,8	892,09
- Overtime - Heures supplémentaires	6 000,00		1 000,00	5 000,00	4 942,27	98,8	57,73
c) Annual Bonus - Gratifications	37 617,00			37 617,00	29 567,66	78,6	8 049,34
d) Payment to retirement schemes - Cotisations aux régimes de retraite	330 890,00		6 000,00	324 890,00	323 530,55	99,6	1 359,45
e) Insurances based on wages - Primes d'assurances assises sur les salaires	15 425,00			15 425,00	12 804,52	83,0	2 620,48
f) Medical (GAN premiums) - Primes d'assurance du GAN	69 638,00	11 000,00		80 638,00	79 757,73	98,9	880,27
g) Family Allowances - Allocations familiales	11 500,00		1 500,00	10 000,00	9 201,10	92,0	798,90
h) Education Grants - Allocations pour frais d'études	10 700,00	6 800,00		17 500,00	16 702,30	95,4	797,70
i) Medical claims paid - Dépenses médicales réglées	70 000,00		-15 000,00	85 000,00	85 643,78	100,8	-643,78
Medical claims - refunds from GAN - Remboursements médicaux du GAN	(15 000,00)	-20 000,00		(35 000,00)	-43 016,60	122,9	8 016,60
j) Home rental - Allocations de logement	0,00	5 100,00		5 100,00	5 028,76	-	71,24
k) Home Leave - Congés dans les foyers	9 000,00	2 600,00		11 600,00	11 544,87	99,5	55,13
m) Miscellaneous Personnel Expenses - Autres dépenses de personnel	5 100,00	4 200,00		9 300,00	788,64	87,6	111,36
n) Salaries - Temporary staff - Personnel temporaire	6 250,00		5 800,00	450,00	0,00	0,0	450,00
p) Training - Formation	10 000,00	2 000,00		12 000,00	11 956,85	99,6	43,15
L. TOTAL CHAPTER - Total du chapitre	2 185 720,00	85 500,00	85 500,00	2 185 720,00	2 127 320,47	97,3	58 399,53
II. CURRENT OPERATING COSTS DEPENSES DE FONCTIONNEMENT (Maintenance, communications, etc...)							
a) Maintenance of building - Entretien des locaux	59 600,00	400,00	18 000,00	41 600,00	41 512,44	99,8	87,56
Multi-risk insurance - Assurance multi-risques	2 200,00			2 600,00	2 553,52	98,3	44,48
Maintenance of IT equipments - Entretien de l'équipement informatique	39 200,00	18 000,00		57 200,00	57 232,22	100,1	-32,22
b) Office Stationery - Fournitures de bureau	8 500,00			8 500,00	9 566,90	112,6	-1 066,90
c) Postage, telephone, telex, telefax - Télécommunications	43 000,00			43 000,00	35 458,70	82,5	7 541,30
d) Local Travel - Déplacements locaux	3 300,00			3 300,00	2 325,46	70,5	974,54
e) Bank Charges - Frais bancaires	6 000,00			6 000,00	5 837,64	97,3	162,36
f) Consultancy Expenses (others than auditors) - Dépenses de consultants	43 000,00		12 800,00	30 200,00	7 000,00	23,2	23 200,00
g) Auditors fees - Honoraires du commissaire aux comptes	4 300,00	14 500,00		18 800,00	11 910,00	63,4	6 890,00
h) Public Relations - Charges de relations publiques	21 000,00	3 200,00		17 800,00	11 270,14	63,3	6 529,86
i) Miscellaneous Operating Expenses - Autres dépenses de fonctionnement	1 000,00	1 200,00		2 200,00	2 133,23	97,0	66,77

CHAPTERS AND ITEMS CHAPITRES & ARTICLES	Amounts originally approved Montants prévus à l'origine	Increase Modifications aux prévisions originales	Decrease Modifications aux prévisions originales	Final provisions Prévisions finales	Expenditure achieved Dépenses payées	100,00 %	Estimated surplus or unallocated Excédent/Déficit
<i>(Travel costs)</i>							
j) Capacity Building (Prog.2 only) - Déplacements (programme 2 - Reuf. Capacités)	45 000,00			45 000,00	35 298,96	78,4	9 701,04
k) Long Distance Travel (all program except 2) - Déplacements internationaux	230 000,00			230 000,00	212 193,70	92,3	17 806,30
<i>(Publications costs)</i>							
l) I. H. Review - Revue hydrographique	12 000,00		100,00	12 000,00	10 000,00	83,3	2 000,00
m) Other publications - Autres publications	13 935,00			13 835,00	1 378,35	10,0	12 456,65
	532 035,00	34 100,00	34 100,00	532 035,00	445 673,26	83,8	86 361,74
III - CAPITAL EXPENDITURE DEPENSES DE CAPITAL							
a) Purchase of IT equipments - Achats d'équipements informatiques	35 000,00			35 000,00	6 235,49	17,8	28 764,51
b) Purchase of furniture & other equipments - Autres achats (meublier, etc ...)	11 000,00	6 000,00		17 000,00	10 902,48	64,1	6 097,52
c) Depreciation of fixed assets - Amortissement des actifs immobilisés	20 000,00		6 000,00	14 000,00	11 771,92	84,1	2 228,08
d) Purchase Publications - Achats de publications	1 051,00			1 051,00	754,03	71,7	296,97
	67 051,00	6 000,00	6 000,00	67 051,00	29 663,92	44,2	37 387,08
III TOTAL CHAPTER - Total du chapitre	2 784 806,00	125 600,00	125 600,00	2 784 806,00	2 602 657,65	93,5	182 148,35

FUNDS - Allocations aux fonds	Amount approved originally Dotations prévues à l'origine	Remaining fund from last year Solde de l'année précédente	Additional support Allocation supplémentaire	Final provisions Prévisions finales	Expenditure paid Dépenses payées	%	Unexpended Solde disponible
GEBCO FUND - Fonds de la Carte Bathymétrique des Océans	\$ 200,00	48 456,88	\$ 100,00	64 756,88	1 470,44	2,3	63 286,44
PRINTING FUND - Fonds d'impression des publications	0,00	73 792,73	0,00	73 792,73	0,00	0,0	73 792,73
RENOVATION FUND - Fonds de rénovation	3 000,00	92 466,46	0,00	95 466,46	4 572,00	4,8	90 894,46
LIH CONFERENCE FUND - Fonds pour les Conférences	40 000,00	473 293,66	50 000,00	563 293,66	140 396,47	24,92	422 897,19
RELOCATION OF DIRECTORS FUND - Fonds pour le déménagement des directeurs	20 000,00	404 921,82	0,00	424 921,82	121 374,51	28,6	303 547,31
SPECIAL PROJECTS FUND - Fonds de Projets Spéciaux			87 818,55	87 818,55	35 000,00	39,9	52 818,55
CAPACITY BUILDING FUND / IHO SUPPORT - CBF/ ressources budget OHI	55 000,00	110 517,40	50 000,00	215 517,40	48 052,69	22,3	167 464,71
CAPACITY BUILDING FUND / EXTERNAL SUPPORT - Ressources externes	0,00	288 140,59	281 077,00	569 217,59	263 786,02	46,3	305 431,57
TOTAL	126 200,00	1 491 589,54	476 993,55	2 094 785,09	614 652,13		1 480 132,96

Including balance brought forward on 1 st January 2012 - Y compris solde reporté au 1er janvier de l'année 2012.

EXTRAORDINARY INCOME AND EXPENDITURE

REVENUS ET DEPENSES EXTRAORDINAIRES

	INCOME REVENUS	EXPENDITURE DEPENSES
A. Interest due on overdue contributions : <i>Intérêts échus sur les contributions non payées</i>	5 088,41	
B. Other extraordinary income/expenditure <i>Autres revenus/dépenses exceptionnelles</i>		
C. Administration fees from Japan CBC <i>Frais administratifs du projet CBC / Japon</i>	7 263,96	
	12 352,37	0,00

GAINS AND LOSSES ON EXCHANGE OPERATIONS

PERTES ET PROFITS SUR OPERATIONS DE CHANGE

	INCOME REVENUS	EXPENDITURE DEPENSES
<u>Exchange of currencies - Opérations de change</u>		
A. Gains on exchange : <i>Profits sur opérations de change</i>	6,98	
B. Losses on exchange : <i>Pertes sur opération de change</i>		442,96
<u>Valuation of holdings - Valorisation des avoirs</u>		
C. Gains on valuation : <i>Profits d'évaluation</i>	10 852,23	
D. Losses of valuation : <i>Pertes d'évaluation</i>		0,00
	10 859,21	442,96
Net gain on exchange operations : <i>Gain net sur opérations de change :</i>	0,00	10 416,25
	10 859,21	10 859,21

STATEMENT OF CURRENT YEAR CONTRIBUTIONS (Euros)

As of 30-Dec-12

ETAT DES CONTRIBUTIONS DE L'ANNEE (Euros)

A la date du 30 Décembre 2012

States - Etats	%	Contributions	Received Reçues	Remaining due Restant dues
Contributions for the year :	2012	2 725 384,32	2 533 347,50	192 036,82
<i>Contributions de l'année en cours</i>				
ALGERIA <i>Algérie</i>	0,877	23 906,88	23 906,88	0,00
ARGENTINA <i>Argentine</i>	0,877	23 906,88	23 906,88	0,00
AUSTRALIA <i>Australie</i>	1,316	35 860,32	35 860,32	0,00
BAHREIN <i>Bahrein</i>	0,731	19 922,40	19 922,40	0,00
BANGLADESH <i>Bengladesh</i>	0,731	19 922,40	19 922,40	0,00
BELGIUM <i>Belgique</i>	1,754	47 813,76		47 813,76
BRAZIL <i>Brésil</i>	1,608	43 829,28	43 829,28	0,00
CANADA <i>Canada</i>	1,754	47 813,76	47 813,76	0,00
CHILE <i>Chili</i>	0,877	23 906,88	23 906,88	0,00
CHINA <i>Chine</i>	3,947	107 580,96	107 580,96	0,00
COLOMBIA <i>Colombie</i>	0,439	11 953,44	11 953,44	0,00
CROATIA <i>Croatie</i>	0,877	23 906,88	23 906,88	0,00
CUBA <i>Cuba</i>	0,292	7 968,96	7 968,96	0,00
CYPRUS <i>Chypre</i>	3,363	91 643,04	91 643,04	0,00
DENMARK <i>Denemark</i>	2,339	63 751,68	63 751,68	0,00
D.P.R OF KOREA <i>Rép. Démocratique de Corée</i>	0,731	19 922,40	19 922,40	0,00
ECUADOR <i>Equateur</i>	0,731	19 922,40	20 913,88	-991,48
EGYPT <i>Egypte</i>	0,877	23 906,88	23 906,88	0,00
ESTONIA <i>Estonie</i>	0,585	15 937,92	15 937,92	0,00
FEDERATION OF RUSSIA <i>Fédération de Russie</i>	2,339	63 751,68	63 751,68	0,00
FIJI <i>Iles Fidji</i>	0,292	7 968,96	7 968,96	0,00
FINLAND <i>Finlande</i>	1,170	31 875,84	31 875,84	0,00
FRANCE <i>France</i>	2,193	59 767,20	59 767,20	0,00
GERMANY <i>Allemagne</i>	3,070	83 674,08	83 674,08	0,00
GREECE <i>Grèce</i>	3,947	107 580,96	107 580,96	0,00
GUATEMALA <i>Guatemala</i>	0,292	7 968,96	7 968,96	0,00
ICELAND <i>Islande</i>	0,439	11 953,44	11 953,44	0,00
INDIA <i>Inde</i>	2,924	79 689,60	79 689,60	0,00
INDONESIA <i>Indonésie</i>	1,608	43 829,28	43 829,28	0,00
ISL. REP OF IRAN <i>Islam, Répub. d'Iran</i>	1,316	35 860,32		35 860,32
IRELAND <i>Irlande</i>	0,439	11 953,44	11 953,44	0,00
ITALY <i>Italie</i>	2,778	75 705,12	48 568,88	27 136,24
JAMAICA <i>Jamaïque</i>	0,292	7 968,96	7 968,96	0,00
JAPAN <i>Japon</i>	3,070	83 674,08	83 674,08	0,00
KUWEIT <i>Koweït</i>	1,316	35 860,32	35 860,32	0,00
LATVIA <i>Lettonie</i>	0,585	15 937,92	15 937,92	0,00
MALAYSIA <i>Malaisie</i>	1,901	51 798,24	51 798,24	0,00
MAURITIUS <i>Maurice</i>	0,439	11 953,44	11 953,44	0,00
MEXICO <i>Mexique</i>	1,023	27 891,36	27 891,36	0,00
MONACO <i>Monaco</i>	0,000			
MOROCCO <i>Maroc</i>	0,585	15 937,92	312,52	15 625,40
MOZAMBIQUE <i>Mozambique</i>	0,292	7 968,96		7 968,96
MYANMAR <i>Myanmar</i>	0,731	19 922,40	19 922,40	0,00
NETHERLANDS <i>Pays-Bas</i>	2,047	55 782,72	55 782,72	0,00
NEW ZEALAND <i>Nouvelle Zélande</i>	0,439	11 953,44	11 953,44	0,00
NIGERIA <i>Nigeria</i>	0,439	11 953,44	11 953,44	0,00
NORWAY <i>Norvège</i>	3,216	87 658,56	87 658,56	0,00
OMAN SULTANATE <i>Sultanat d'Oman</i>	0,292	7 968,96		7 968,96
PAKISTAN <i>Pakistân</i>	0,585	15 937,92	15 937,92	0,00

States - Etats		%	Contributions	Received Reçues	Remaining due Restant dues
PAPUA NEW GUINEA	<i>Papouasie Nouvelle Guinée</i>	0,439	11 953,44	11 953,44	0,00
PERU	<i>Pérou</i>	0,585	15 937,92	15 937,92	0,00
PHILIPPINES	<i>Philippines</i>	1,901	51 798,24	48 957,34	2 840,90
POLAND	<i>Pologne</i>	0,439	11 953,44	11 953,44	0,00
PORTUGAL	<i>Portugal</i>	1,023	27 891,36	27 891,36	0,00
QATAR	<i>Qatar</i>	0,731	19 922,40	19 922,40	0,00
SOUTH AFRICA	<i>Afrique du Sud</i>	0,585	15 937,92	15 937,92	0,00
REPUBLIC OF KOREA	<i>République de Corée</i>	3,070	83 674,08	83 674,08	0,00
ROMANIA	<i>Roumanie</i>	0,585	15 937,92	15 937,92	0,00
SAUDI ARABIA	<i>Arabie Saoudite</i>	1,170	31 875,84	31 875,84	0,00
SERBIA	<i>Serbie</i>	0,292	7 968,96		7 968,96
SINGAPORE	<i>Singapour</i>	3,947	107 580,96	107 580,96	0,00
SLOVENIA	<i>Slovénie</i>	0,292	7 968,96	7 968,96	0,00
SPAIN	<i>Espagne</i>	1,462	39 844,80	39 844,80	0,00
SRI LANKA	<i>Sri Lanka</i>	0,439	11 953,44		11 953,44
SURINAME	<i>Suriname</i>	0,292	7 968,96	7 968,96	0,00
SWEDEN	<i>Suède</i>	1,754	47 813,76	47 813,76	0,00
SYRIA	<i>Syrie</i>	0,731	19 922,40		19 922,40
THAILAND	<i>Thaïlande</i>	1,608	43 829,28	43 829,28	0,00
TONGA	<i>Iles Tonga</i>	0,292	7 968,96		7 968,96
TRINIDAD & TOBAGO	<i>Trinité & Tobago</i>	0,292	7 968,96	7 968,96	0,00
TUNISIA	<i>Tunisie</i>	0,585	15 937,92	15 937,92	0,00
TURKEY	<i>Turquie</i>	2,047	55 782,72	55 782,72	0,00
UKRAINE	<i>Ukraine</i>	1,170	31 875,84	31 875,84	0,00
UNITED ARAB EMIRATES	<i>Emirats Arabes Unis</i>	0,877	23 906,88	23 906,88	0,00
UNITED KINGDOM	<i>Royaume-Uni</i>	3,947	107 580,96	107 580,96	0,00
UNITED STATES OF AMERICA	<i>Etats Unis d'Amérique</i>	3,655	99 612,00	99 612,00	0,00
URUGUAY	<i>Uruguay</i>	0,292	7 968,96	7 968,96	0,00
VENEZUELA	<i>Venezuela</i>	0,731	19 922,40	19 922,40	0,00
			2 725 384,32	2 533 347,50	192 036,82

192 036,82

*** Exempted of financial contribution
(Art 7 of IHO Fin. Regulations - Provides Bureau premises free of charge)

ACO BHI

OVERALL STATEMENT OF CONTRIBUTIONS (Euros)
As of 30-Dec-12

SITUATION RECAPITULATIVE DES CONTRIBUTIONS (Euros)
A la date du 30 Décembre 2012

States - Etats			Year	Contribution due	Received in 2012	Outstanding contribution
Contributions for the year :						
Contributions de l'année			2012	2 725 384,32	2 533 347,50	192 036,82
Contributions for the previous years :						
Contributions échues des années précédentes						41 453,42
Still outstanding Member States						
D.P.R. OF KOREA	<i>Rép. Démocratique de Corée</i>		2011	19 922,40		19 922,40
ITALY	<i>Italie</i>		2011	17 431,12	17 431,12	0,00
MOZAMBIQUE	<i>Mozambique</i>		2011	4 585,92		4 585,92
OMAN SULTANATE	<i>Sultanat d'Oman</i>		2010	2 907,18	1 900,00	1 007,18
SERBIA	<i>Serbie</i>	**	2010	7 968,96		
SERBIA	<i>Serbie</i>	**	2011	7 968,96		15 937,92
				60 784,54	19 331,12	41 453,42
Member States having settled their dues during this year						
BELGIUM	<i>Belgique</i>	January 2012	2011	47 813,76	47 813,76	0,00
CROATIA	<i>Croatie</i>	October 2012	2011	23 906,88	23 906,88	0,00
ECUADOR	<i>Equateur</i>	October 2012	2011	6 458,63	6 458,63	0,00
GREECE	<i>Grèce</i>	July 2012	2011	107 580,96	107 580,96	0,00
ICELAND	<i>Islande</i>	January 2012	2010	11 953,44	11 953,44	0,00
JAMAICA	<i>Jamaïque</i>	January 2012	2011	7 968,96	7 968,96	0,00
OMAN SULTANATE	<i>Sultanat d'Oman</i>	January 2012	2011	7 968,96	7 968,96	0,00
PAPUA NEW GUINEA	<i>Papouasie Nouvelle</i>	January 2012	2011	11 953,44	11 953,44	0,00
PERU	<i>Pérou</i>	February 2012	2011	15 937,92	15 937,92	0,00
SRI LANKA	<i>Sri Lanka</i>	January 2012	2011	11 953,44	11 953,44	0,00
				253 496,39	253 496,39	0,00
				314 280,93	272 827,51	41 453,42
Suspended Member States :						
Etats membres suspendus						15 244,78
Dominican Republic	<i>République Dominicaine</i>		1981	3 049,70	0,00	3 049,70
Dominican Republic	<i>République Dominicaine</i>		1982	3 353,92	0,00	3 353,92
Dem. Rep. of Congo	<i>Rép Démocr. du Congo</i>		1981	3 809,66	0,00	3 809,66
Dem. Rep. of Congo	<i>Rép Démocr. du Congo</i>		1982	5 031,51	0,00	5 031,51
				15 244,78	0,00	15 244,78

** Member State suspended as of the 1st January 2013

** Etat Membre suspendu au 1er janvier 2013

DISTRIBUTION OF CASH BY CURRENCIES AS OF 1st JANUARY 2012 AND AS OF 31 DECEMBER 2012
REPARTITION DES AVOIRS FINANCIERS PAR DEVISES DU 1ER JANVIER 2012 AU 31 DECEMBRE 2012

The following tables give the distribution of investments and cash in the respective currencies.
 The equivalent of each sum in EUR is shown in the last column to allow comparison.
*Le tableau suivant présente la répartition des avoirs financiers détenus dans les différentes devises.
 Leur équivalent en Euro est indiqué dans la dernière colonne.*

on 1st January 2012 / Au 1er janv 2012

	U.s. dollars	Pound Sterling	E.U.R.	Equivalent in EUR
Rates in EUR - Taux de change en EURO	1,294,850	0,837,800	1,000,000	
- US Dollars				6,936,76
- Sterling	8,982,07	8,189,04		9,774,46
- EUROS			4,264,288,29	4,264,288,29
	8,982,07	8,189,04	4,264,288,29	4,280,999,51

on 31 December 2012 / Au 31 Dec 2012

	U.s. dollars	Pound Sterling	E.U.R.	Equivalent in EUR
Rates in EUR - Taux de change en EURO	1,321,480	0,817,370	1,000,000	
- US Dollars				2,006,08
- Sterling	2,651,00	45,00		55,05
- EUROS			4,975,251,79	4,975,251,79
	2,651,00	45,00	4,975,251,79	4,977,312,92

Valuation at / Valorisation au cours du :

31st December EUR rate / 31 décembre	2,006,08	55,05	4,975,251,79	
1st Jan. EUR rate / 1er janvier		53,71	4,975,251,79	
Gains on holdings - Profits de valorisation	0,00	1,34	0,00	1,34
Losses on holdings - Pertes de valorisation	41,26	0,00	0,00	41,26

TOTAL OPERATING STATEMENTS
Compte de résultats

	Budgeted	Actual	Surplus	Deficit
Budget Income - Revenus				
Contributions	2 725 384,32	2 725 384,32	0,00	0,00
Interest - <i>Intérêts</i>	30 000,00	22 409,15		-7 590,85
Other extra resources - <i>Autres ressources extraordinaires</i>	163 360,00	164 001,27		641,27
Total income - <i>Revenu total</i>	2 918 744,32	2 911 794,74	0,00	-6 949,58
Result on income - <i>Excédent de recettes</i>			-6 949,58	(A)

	Budgeted	Actual	Surplus	Deficit
Budget Expenditure - Dépenses				
Staff expenditure - <i>Dépenses de personnel</i>	-2 185 720,00	-2 127 320,47	58 399,53	
Current operating expenses - <i>Dépenses de gestion courante</i>	-532 035,00	-445 673,26	86 361,74	
Capital expenditure - <i>Dépenses de capital</i>	-67 051,00	-29 663,92	37 387,08	
Allocation to funds - <i>Dotations aux fonds</i>	-126 200,00	-126 200,00	0,00	
Total expenditure - <i>Dépenses totales</i>	-2 911 006,00	-2 728 857,65	182 148,35	0,00
Result on expenditure - <i>Budget non dépensé</i>			182 148,35	(B)

Result before extraordinary operations 175 198,77 (A + B)
Résultat avant opérations exceptionnelles

Extraordinary operations - Opérations exceptionnelles				
Interest on contributions - <i>Intérêts sur contributions échues</i>			5 088,41	
Extraordinary items - <i>Autres opérations</i>			7 263,96	
Exchange operations - <i>Opérations de change</i>			10 859,21	-442,96
Total extraordinary operations - <i>Total des opérations except.</i>			23 211,58	-442,96
Result on extraordinary operations - <i>Résultat net opérations except.</i>			22 768,62	(C)

Total Budget income - *Revenu total budgété* 2 918 744,32
Total Budget expenditure - *Dépenses totales budgétées* -2 911 006,00
Extra Budget Income: 7 738,32 (D)

Result after extra operations 205 705,71 € (A + B + C+D) <i>Résultat après opérations exceptionnelles</i>

FUNDS (Eur)

CONFERENCE FUND - Fonds pour les Conférences H.I.

The Conference Fund allows the expenses linked to the Intl. Hydrographic Conference to be ensured.

Le fonds des Conférences permet la couverture des dépenses des Conférences Hydrographiques Internationales.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	473 293,66	
Budget Allocation 2012 - <i>Dotation budgétaire pour 2012</i>	40 000,00	
Support from 2011 result - <i>Soutien en provenance du résultat 2011</i>	50 000,00	
Expenses for the 2012 Conference - <i>Dépenses pour la Conférence 2012</i>	-140 396,47	
		<u>422 897,19 €</u>

RENOVATION FUND - Fonds de rénovation

The renovation fund is kept for any major expenses incurred for renovation purposes of the building, in relation with those accepted by the "Domaines".

Le fonds de rénovation est maintenu pour couvrir toute dépense importante de modification ou de rénovation des locaux, dont le financement ne serait pas assuré par la Principauté de Monaco.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	92 466,46	
Budget Allocation 2012 - <i>Dotation budgétaire pour 2012</i>	3 000,00	
Expenditure in 2012 - <i>Dépenses 2012</i>	-4 572,00	
		<u>90 894,46 €</u>

RELOCATION FUND - Fonds de déménagement des directeurs et assistants professionnels

This fund is for moving expenses for Directors and Professional Assistants internationally recruited.

Ce fonds est destiné à couvrir les dépenses de déménagement des directeurs et personnel recrutés au plan international.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	404 921,82	
Budget Allocation 2012 - <i>Dotation budgétaire pour 2012</i>	20 000,00	
Expenditure - <i>Dépenses</i>	-121 374,51	
		<u>303 547,31 €</u>

PRINTING FUND - Fonds d'impression des publications

This fund is for any purchased printing material necessary at the IHB.

Ce fonds est destiné à couvrir le coût du matériel d'impression requis pour les besoins du BHI.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	73 792,73	
		<u>73 792,73 €</u>

ABLOS CONFERENCE FUND

The Ablos Fund allows for planning operational costs for a conference which is held every other year.

Le fonds ABLOS couvre les dépenses d'une conférence qui se tient tous les 2 ans.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	14 842,11	
Expenses / Income - <i>Dépenses / Revenus</i>	-8 083,23	
		<u>6 758,88 €</u>

GEBCO FUND - Fonds de la Carte Bathymétrique des Océans

This fund has been created on January 2006 to record the income & expenditure of GEBCO activities and includes the subvention received every year by the Government of Monaco.

Ce fonds a été créé en 2006 pour suivre l'activité liée à la GEBCO (recettes et dépenses), et inclut la subvention reçue chaque année du Gouvernement de la Principauté de Monaco.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	48 456,88	
<u>Income - Revenus :</u>		
Budget Allocation 2012 - <i>Dotation budgétaire pour 2012</i>	8 200,00	
Subvention from Monaco - <i>Subvention reçue de la Principauté de Monaco</i>	8 100,00	
		16 300,00
<u>Expenses - Dépenses :</u>		
Participation paid to assist in GEBCO meeting - <i>Assistance financière à des participants</i>	1 470,44	
		1 470,44
Amount of fund on 31st December 2012 - <i>Montant du fonds en fin d'année (31/12/2012)</i>		<u>63 286,44 €</u>

PRESENTATION LIBRARY FUND - Fonds de la bibliothèque de Présentation

This fund is dedicated to the maintenance of a specific publication (Presentation Library).

Ce fonds est dédié à l'évolution d'une publication spécifique (la Bibliothèque de Présentation).

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	48 319,00	
<u>Income - Revenus :</u>		
Sales of the publication "Presentation Library" - <i>Ventes de publications</i>	7 031,01	
		7 031,01
Amount of fund on 31st December 2012 - <i>Montant du fonds en fin d'année (31/12/2012)</i>		<u>55 350,01 €</u>

EMERGENCY RESERVE FUND - Fonds de réserve d'urgence

Following the approval of FCCL 6/2003, the amount of the Emergency Reserve Fund shall not be less than 1/12th of the annual operating budget.

Conformément à la lettre FCCL 6/2003 approuvée, le montant du fonds de réserve d'urgence ne devra pas être inférieur à 1/12ème du budget opérationnel annuel.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	232 067,16	
Additional allowance to meet Art.19 requirements - <i>Allocation complémentaire pour satisfaire les dispositions de l'article 19 du règlement financier</i>	9 090,42	
Amount of fund on 31st December 2012 - <i>Montant du fonds en fin d'année (31/12/2012)</i>		<u>241 157,58 €</u>

INTERNAL RETIREMENT FUND - Fonds de retraite interne (FRI)

Amount of social liability on 1st January 2012 - <i>Montant de la dette sociale en début d'année</i>	2 893 107,90	
Cotisations received from staff - <i>Cotisations reçues (BHI et membres du personnel)</i>	22 441,50	
Interests received from Deposit Accounts - <i>Intérêts perçus par le fonds (D/A)</i>	9 394,98	
Pensions paid from IRF - <i>Pensions réglées par le fonds (FRI)</i>	(170 139,87)	
		2 754 804,51
Variation of liability during the year - <i>Variation annuelle de la dette sociale</i>		273 589,00
Amount of social liability on 31st December 2012 - <i>Montant de la dette sociale en fin d'année</i>		<u>3 028 393,51 €</u>

CAPACITY BUILDING FUND (CBF) - Fonds de renforcement des capacités

The Circular Letter 87/2004 defines the CBF as a support to assist developing countries in building human and institutional capacities for the effective development of hydrographic surveying and nautical charting capabilities needed.

La lettre circulaire 87/2004 définit le CBF comme un soutien visant à aider les pays en voie de développement à établir des capacités humaines et institutionnelles en vue du développement efficace des levées hydrographiques et de la cartographie marine dont ils ont besoin.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	398 657,99	
<u>Income - Revenus:</u>		
IHO Budget Allocation 2012 - <i>Dotation budgétaire de l'OHI pour 2012</i>	55 000,00	
Support from 2011 result - <i>Soutien en provenance du résultat 2011</i>	50 000,00	
Support from the Republic of Korea - <i>Soutien reçu de la République de Corée</i>	279 013,00	
Interests received on net financial support from the Rep. of Korea <i>Intérêts perçus sur le montant net disponible en provenance de la Rép. De Corée</i>	2 064,00	784 734,99
<u>Expenses - Dépenses :</u>		
Activities supported by the Rep.of Korea - <i>Activités financées par la Rep. De Corée</i>	263 098,47	
Activities supported by IHO Capacity Building Fund - <i>Activités financées par le fonds de l'OHI</i>	47 711,56	
Bank charges and losses on currency exchange - IHO <i>Frais bancaires et pertes sur opération de change - OHI</i>	341,13	
Bank charges and losses on currency exchange - Korea <i>Frais bancaires et pertes sur opération de change - Corée</i>	687,55	
Amount of fund on 31st December 2012 - <i>Montant du fonds en fin d'année (31/12/2012)</i>		311 838,71
		<u>472 896,28 €</u>

(See details on pages 18 and 19 - *Voir détails pages 18 et 19*)

SPECIAL PROJECTS FUND - Fonds de Projets Spéciaux

The Special Projects Funds was established in 2012 to cover various special projects, such as the maintenance or drafting of standards, the editing or updating of complex publications, translations, and particular requirements identified by the Committees and other bodies of the Organization.

Le Fonds pour les Projets Spéciaux a été établi en 2012 pour couvrir différents projets spéciaux, comme la maintenance ou l'établissement de normes, l'édition ou la mise à jour de publications complexes, diverses traductions, et des besoins particuliers identifiés par les comités et groupes de travail de l'Organisation.

Amount of fund on 1st January 2012 - <i>Montant du fonds en début d'année (01/01/2012)</i>	87 818,55	
<u>Expenses - Dépenses :</u>		
AWI Support for production of the Int. Bath. Chart of the Southern Ocean (IBCSO) <i>Soutien à l'AWI pour la production de la carte bathymétrique des océans de l'hémisphère sud</i>	(35 000,00)	52 818,55 €
Amount of fund on 31st December 2012 - <i>Montant du fonds en fin d'année (31/12/2012)</i>		

**BUREAU HYDROGRAPHIQUE
INTERNATIONAL**

Siège Social
4, quai Antoine 1er
MONACO

EXERCICE SOCIAL CLOS LE 31 DECEMBRE 2012

RAPPORT DU COMMISSAIRE AUX COMPTES

Frank MOREL
57, rue Grimaldi
MONACO



Frank MOREL
57, rue Grimaldi
MONACO

**BUREAU HYDROGRAPHIQUE
INTERNATIONAL**

4, quai Antoine 1er
MONACO

**RAPPORT DU COMMISSAIRE AUX COMPTES
Exercice clos le 31 décembre 2012**

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Mesdames, Messieurs,

En exécution de la mission qui m'a été confiée par la Commission des finances à la Conférence Hydrographique Internationale qui s'est tenue du 7 au 11 mai 2007, conformément aux dispositions de l'article 20 du Règlement Financier de l'Organisation Hydrographique Internationale, complété par les résolutions administratives R5.1 et R5.2 validées le 30 avril 2004, j'ai l'honneur de vous présenter mon rapport sur les comptes de l'exercice 2012.

Ces comptes annuels, arrêtés par le Comité de Direction et qui font apparaître un profit net de 205.705,71 €, sont présentés sous les formes suivantes :

- Présentation traditionnelle ;
- Présentation internationale.

Je me suis assuré que seule une différence de présentation existait entre ces deux documents, réalisés à partir des mêmes éléments comptables. Ils ont été établis selon les mêmes formes et au moyen des mêmes méthodes d'évaluation que l'exercice précédent.

Ma mission, qui consiste à exprimer une opinion sur ces comptes annuels, a été réalisée de manière à obtenir l'assurance raisonnable qu'ils ne comportent pas d'anomalies significatives. J'ai accompli les diligences que j'ai estimées nécessaires et j'ai examiné, par sondages, les opérations réalisées pendant l'exercice 2012. J'ai notamment vérifié la caisse et les valeurs disponibles ou négociables.

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A mon avis, les comptes qui sont soumis à votre approbation reflètent d'une manière sincère la situation financière du Bureau Hydrographique International au 31 décembre 2012, ainsi que les opérations et le résultat de l'exercice de 12 mois, clos à cette date.

Monaco, le 25 mars 2013
Le Commissaire aux Comptes,



F. MOREL



**INTERNATIONAL
HYDROGRAPHIC BUREAU**

Registered Office
4, quai Antoine 1er
MONACO

YEAR ENDING 31 DECEMBER 2012

AUDIT REPORT

Frank MOREL
57, rue Grimaldi
MONACO



Frank MOREL
57, rue Grimaldi
MONACO

**INTERNATIONAL HYDROGRAPHIC
BUREAU**

4, quai Antoine Ier
MONACO

**AUDITOR'S REPORT
For financial year ending 31 december 2012**

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Dear Sir or Madam,

In accordance with the task entrusted to me by the Finance Committee at the International Hydrographic Conference, held from 7 to 11 may 2007, and in application of the provisions of Article 20 of the Financial Regulations of the International Hydrographic Organization, completed by Administrative Resolutions R5.1 and R5.2 accepted on 30 april 2004, I am pleased to submit my report on the accounts for the year 2012.

These annual accounts, closed by the Directing Committee, which reveal a net profit of € 205.705,71 are presented in the following forms :

- traditional presentation;
- international presentation.

I have ensured that the only difference between these two documents is one of presentation and that they have been prepared based on the same figures. They have been prepared following the same procedures and using the same methods of analysis as for the past financial year.

My task, which consists of expressing an opinion on these annual accounts, has been conducted in such a way as to be reasonably sure that they do not contain any significant irregularities. I have undertaken this task with the care that I considered necessary and I have made random checks on the operations carried out during the 2012 financial year. I have in particular verified the cash in hand and the liquid assets or negotiable securities.

In my opinion, the accounts which are submitted for your approval accurately reflect the financial situation of the International Hydrographic Bureau as at 31 december 2012, as well as the operations and the result of the 12 month financial period, closed on that date.

Monaco, 25 march 2013

Auditor,



F. MOREL