



IL VOUS EST DEMANDE DE VOTER

Dossier du BHI No. S1/1001/11-FO/595/11

LETTRE CIRCULAIRE 68/2012
10 juillet 2012

**P-7 : RAPPORT ANNUEL DE L'OHI POUR 2011
PARTIE 1 - GENERALITES & PARTIE 2 - FINANCES**

Madame la Directrice, Monsieur le Directeur,

1. Vous trouverez ci-joint un exemplaire du Rapport annuel de l'OHI pour 2011, Partie 1 - Généralités, en anglais (les versions française et espagnole seront distribuées dès leur finalisation), en même temps que la Partie 2 - Finances (version bilingue anglais/français). Ces rapports fournissent des informations sur les activités effectuées par l'Organisation en 2011 et sur les finances associées à ces activités. Les Parties 1 et 2 sont communiquées en même temps afin d'aider les Etats membres à avoir une meilleure idée des réalisations de l'Organisation et de son degré d'efficacité.
2. Conformément au cycle de planification du programme de travail, tel qu'approuvé par la Décision 14 b) de la XVI^{ème} Conférence HI, nous devrions normalement vous fournir une version actualisée du Programme de travail de l'OHI pour 2012 (qui repose sur le programme de travail pour 2008-2012 approuvé par la Décision 24 de la XVII^{ème} CHI) montrant le statut final de la réalisation des tâches dans le Programme de travail 2011. Le Comité de direction vous confirme par la présente qu'il n'y a pas eu de changement au Programme de travail 2012 qui a été distribué sous couvert de la LC 77/2011.
3. Conformément à l'article 19 du Règlement financier, le Comité de direction soumet directement aux Etats membres la Partie 2 - Finances, en vue de recueillir leur approbation (la majorité des deux-tiers est requise), afin d'éviter toute bureaucratie inutile. Il est donc demandé aux Etats membres de bien vouloir compléter et renvoyer le bulletin de vote ci-joint au BHI, **au plus tard le 10 août 2012**, et de faire part, en même temps, de tout commentaire qu'ils souhaiteraient formuler sur la Partie 1 du Rapport annuel 2011.
4. Enfin, nous tenons à vous informer que le Programme de travail de l'OHI pour 2013 est en cours de préparation, sur la base du Programme de travail de l'OHI approuvé pour 2013-2017 (Décision N° 18 de la XVIII^{ème} CHI). Le Programme de travail de l'OHI final qui sera proposé pour 2013, ainsi que le Budget de l'OHI pour 2013, seront distribués d'ici août en vue d'une approbation avant le 31 octobre et d'une mise en œuvre en janvier 2013.

Veillez agréer, Madame la Directrice, Monsieur le Directeur, l'assurance de ma haute considération,

Pour le Comité de direction

A handwritten signature in purple ink, appearing to be 'A. Maratos', is written over a horizontal line.

Vice-amiral Alexandros MARATOS
Président

P.J. : Bulletin de vote.
P-7 (2011) Partie 1 - Généralités (version anglaise)
P-7 (2011) Partie 2 - Finances (version bilingue)

**APPROBATION DU RAPPORT FINANCIER POUR 2011
BULLETIN DE VOTE**

*(A faire parvenir au BHI avant le 10 août 2012
Courriel : info@ihb.mc – Télécopie : +377 93 10 81 40)*

Etat membre :

Approuvez-vous le Rapport financier pour 2011 ?

OUI

NON

Commentaires (le cas échéant) :

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Nom / Signature Date:

INTERNATIONAL HYDROGRAPHIC ORGANIZATION



ANNUAL REPORT 2011

PART 1 – GENERAL

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ANNUAL REPORT
OF THE
INTERNATIONAL HYDROGRAPHIC
ORGANIZATION

2011

PART I - GENERAL

Published by the International Hydrographic Bureau
Monaco

**MEMBER STATES OF THE
INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO)**

ALGERIA	MOROCCO
ARGENTINA	MOZAMBIQUE
AUSTRALIA	MYANMAR
BAHRAIN	NETHERLANDS
BANGLADESH	NEW ZEALAND
BELGIUM	NIGERIA
BRAZIL	NORWAY
CANADA	OMAN
CHILE	PAKISTAN
CHINA	PAPUA NEW GUINEA
COLOMBIA	PERU
CROATIA	PHILIPPINES
CUBA	POLAND
CYPRUS	PORTUGAL
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DEMOCRATIC REPUBLIC OF THE CONGO	REPUBLIC OF KOREA
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MEXICO	
MONACO	

Pending Member States: Bulgaria, Cameroon**, Haiti, Mauritania, Montenegro, Sierra Leone, Vietnam, Brunei Darussalam.

**INTERNATIONAL HYDROGRAPHIC BUREAU
DIRECTING COMMITTEE**

President: Vice Admiral Alexandros MARATOS, Greece

Directors: Captain Hugo GORZIGLIA, Chile

Captain Robert WARD, Australia

* *Rights of membership suspended*

** *MS with effect from April 2012 - 81 Member States*

CONTENT

INTRODUCTION.....	11
WORK PROGRAMME 1 - CORPORATE AFFAIRS.....	13
Introduction.....	13
Element 1.1 - COOPERATION WITH INTERNATIONAL ORGANIZATIONS.....	13
ANTARCTIC TREATY CONSULTATIVE MEETING (ATCM) (Task 1.1.1)	
- XXXIV th Antarctic treaty consultative meeting (ATCM).....	13
INTERNATIONAL ASSOCIATION OF MARINE AIDS TO NAVIGATION AND LIGHTHOUSE AUTHORITIES (Task 1.1.5)	
- Liaison with IALA e-Navigation Committee concerning S-100.....	14
- E-Navigation underway Conference.....	15
- 9 th Meeting of the IALA Committee on e-Navigation.....	16
- 10 th Meeting of the IALA Committee on e-Navigation.....	16
- IALA Workshop global sharing of maritime data and information.....	17
INTERNATIONAL CARTOGRAPHIC ASSOCIATION (Task 1.1.8)	
- Meeting of the ICA Commission on Geoinformation Infrastructures and Standards.....	17
- XXV International Cartographic Conference and XV International Cartographic Association General Assembly.....	18
INTERNATIONAL MARITIME ORGANIZATION (IMO) (Task 1.1.10)	
- IMO e-Navigation Correspondence Group Chairman’s Forum.....	18
- 15 th Session of the IMO Sub Committee on Communications and Search and Rescue.....	19
- 89 th Session of the IMO Maritime Safety Committee.....	19
- 61 st Session of the IMO Technical Cooperation Committee Meeting.....	20
- 57 th Session of the IMO Sub-Committee on Safety of Navigation.....	20
- 27 th Session of the IMO Assembly.....	21
INTERGOVERNMENTAL OCEANOGRAPHIC COMMISSION (IOC) (Task 1.1.11)	
- XXVI th Session of the IOC Assembly.....	22
INTERNATIONAL ORGANIZATION FOR STANDARDIZATION (Task 1.1.12).....	23
- ISO/TC 211 Working Group and Plenary Meetings.....	23
PORT MANAGEMENT ASSOCIATION OF WEST AND CENTRAL AFRICA (Task 1.1.14).....	23
UNITED NATIONS (Task 1.1.16)	
- 3 rd Preparatory meeting for the proposed UN Committee on global geospatial information management.....	23
- UN Global Forum on Global Geospatial Information Management and 1 st Meeting of the UN Committee of Experts on Global Geospatial Information Management (GGIM).....	24
OTHER INTERNATIONAL ORGANIZATIONS (Task 1.1.17)	
- International Conference on Marine Data and Information Systems.....	25
- CIRM Annual Meeting.....	25

Element 1.2 - INFORMATION MANAGEMENT.....	25
- Development and Maintenance of the IHO Web Site (Task 1.2.1).....	25
- Communication between the IHB and Member States through Circular Letters.....	26
- IHO Publications - production, editing. (Task 1.2.3).....	26
- Hydrographic Publications for which there is no specific body in charge – S-12, S-23, S-60, etc (Task 1.2.4).....	26
- IHO Working Group on S-23.....	26
- IHB Technical Library (Task 1.2.5).....	26
Element 1.3 - PUBLIC RELATIONS.....	27
RELATIONSHIP WITH THE GOVERNMENT OF MONACO AND OTHER AUTHORITIES (Task 1.3.1)	
- Wedding of His Serene Highness Prince ALBERT II and Miss Charlene WITTSTOCK.....	27
- National Day of Monaco.....	27
WORLD HYDROGRAPHY DAY (Task 1.3.2)	
- Human Resources – The important element to the success of hydrography.....	28
PUBLIC RELATIONS SUPPORT (Task 1.3.4)	
- Visit by Students from the International Tribunal on the Law of the Sea (ITLOS).....	28
JOURNAL ARTICLES AND THE INTERNATIONAL HYDROGRAPHIC REVIEW (Task 1.3.5).	29
Element 1.4 – IHO.....	29
New IHO Structure (Task 1.4.1).....	29
<i>Ratification of the Protocol of Amendments to the IHO Convention.....</i>	<i>29</i>
<i>New Hydrographers of IHO Member State.....</i>	<i>30</i>
- New Hydrographer of the Royal Netherlands Navy	
- New Hydrographer of Brazil	
- New Director of the Italian Hydrographic Institute	
- Rear Admiral SK JHA (NM) , Chief Hydrographer to the Government of India	
- New Director of the Georgian State Hydrographic Service	
- New Hydrographer of the Republic of Korea	
<i>IHO Membership.....</i>	<i>33</i>
Work Programme and Budget (Task 1.4.2).....	34
IHO Strategic Plan and Performance Monitoring (Task 1.4.3).....	34
S-63 Scheme Administrator and S-63 support (Task 1.4.4).....	34
Element 1.5 - IHB MANAGEMENT.....	35
IHB ADMINISTRATION (Task 1.5.1)	
- IHB Directing Committee.....	35
- IHB Staff.....	35
- Secondment of personnel.....	35
- Technical missions.....	35

IHB STAFF REGULATIONS (Task 1.5.2)	
- Staff Regulations Working Group.....	36
TRANSLATION SERVICES (Task 1.5.3).....	36
IHB FINANCE PROCEDURES AND IHB PROCEDURAL MANUAL FOR PERMANENT ACTIVITIES (Task 1.5.4 and 1.5.5).....	36
STAFF TRAINING (Task 1.5.6).....	36
MAINTENANCE OF THE IHB PREMISES (Task 1.5.7).....	36
EQUIPMENT (Task 1.5.8).....	37
Element 1.6 - INTERNATIONAL HYDROGRAPHIC CONFERENCE.....	37
WORK PROGRAMME 2 - HYDROGRAPHIC SERVICES AND STANDARDS...	37
Introduction.....	37
Element 2.1 - HSSC.....	38
HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE (TASK 2.1.1)	
- 3rd Meeting of the IHO Hydrographic Services and Standards Committee (HSSC)).....	38
- Develop S-100 and MSDI Standards (TASK 2.1.2).....	38
Element 2.2 - ABLOS.....	39
ADVISORY BOARD ON THE LAW OF THE SEA (TASK 2.2.1)	
- 18th Meeting of the Advisory Board on the Technical Aspects of the Law of the Sea.....	39
Element 2.3 - CSPCWG.....	39
CHART STANDARDIZATION AND PAPER CHART WORKING GROUP (TASK 2.3.1)	
- 8 th Meeting of the IHO Chart Standardization and Paper Chart Working Group (CSPCWG)...	39
Element 2.4 – DIPWG.....	40
DIGITAL INFORMATION PORTRAYAL WORKING GROUP (TASK 2.4.1).....	40
Element 2.5 - DPSWG.....	41
DATA PROTECTION SCHEME WORKING GROUP (TASK 2.5.1)	
- S-63 Workshop & 8 th Meeting of the Data Protections Scheme Working Group (DPSWG).....	41
Element 2.6 - DQWG.....	41
DATA QUALITY WORKING GROUP (TASK 2.6.1)	
- 4 th Meeting of the IHO Data Quality Working Group (DQWG).....	41
• S-57 and S-52.....	42
• S-101.....	42
Element 2.7 - EUWG.....	42
ENC UPDATING WORKING GROUP (TASK 2.7.1).....	42

Element 2.8 HDWG	42
HYDROGRAPHIC DICTIONARY WORKING GROUP (TASK 2.8.1).....	42
Element - 2.9 MSDIWG	43
MARINE SPATIAL DATA INFRASTRUCTURE WORKING GROUP (TASK 2.9.1).....	43
Element - 2.10 SNPWG	43
STANDARDIZATION OF NAUTICAL PUBLICATIONS WORKING GROUP (TASK 2.10.1)	
- 13 th Meeting of the Standardization of Nautical Publications Working Group.....	43
Element - 2.11 TSMAD	44
TRANSFER STANDARD MAINTENANCE AND APPLICATION DEVELOPMENT WORKING GROUP (TASK 2.11.1 and 2.4.1)	
- Joint Meeting of the Transfer Standard Maintenance and Application Development Working Group & the Digital Information Portrayal Working Group.....	44
Element 2.12 – TWLWG	45
TIDAL AND WATER LEVEL WORKING GROUP (TASK 2.12.1)	
- 3 rd Meeting of the Tidal and Water Level Working Group (TWLWG).....	45
Element 2.13 - ENC QUALITY – TECHNICAL SUPPORT	45
TASK 2.13.1 - PRIMAR/IC-ENC JT WORKING GROUP.....	45
WORK PROGRAMME 3 - INTER-REGIONAL COORDINATION AND SUPPORT	46
Introduction	46
Element 3.0 - INTER REGIONAL COORDINATION COMMITTEE (IRCC)	46
3 rd Meeting of the IHO Inter Regional Coordination Committee IHO-IRCC3 (TASK 3.1.16).....	46
Element 3.1 - CO-OPERATION WITH MEMBER STATES	48
<i>TASKS 3.1.1</i>	
- 2 nd Meeting of the Arctic Regional Hydrographic Commission (ARHC).....	48
<i>TASKS 3.1.2</i>	
- 16 th Meeting of the Baltic Sea Hydrographic Commission (TASK 3.1.6).....	49
- Baltic Sea International Charting Coordination Working Group.....	50
<i>TASKS 3.1.4</i>	
- 12 th Meeting of the Meso-American and Caribbean Hydrographic Commission (TASK 3.1.10)	51
<i>TASKS 3.1.5</i>	
- 17 th Meeting of the Mediterranean and Black Seas Hydrographic Commission (MBSHC).....	52

<i>TASKS 3.1.6</i>	
- 55 th Meeting of the Nordic Hydrographic Commission.....	53
<i>TASKS 3.1.7</i>	
- 11 th Meeting of the North Indian Ocean Hydrographic Commission (NIOHC) (TASK 3.1.13).	53
<i>TASKS 3.1.8</i>	
- 4 th Meeting of the ROPME Sea Area Hydrographic Commission (RSAHC) (TASK 3.1.12)....	54
<i>TASKS 3.1.9</i>	
- 8 th Southern African and Islands Hydrographic Commission Conference.....	55
<i>TASKS 3.1.10</i>	
- 10 th Meeting of the South East Pacific Hydrographic Commission (TASK 3.1.8).....	56
<i>TASKS 3.1.11</i>	
- 5 th Meeting of the South West Atlantic Hydrographic Commission (TASK 3.1.14).....	57
<i>TASKS 3.1.12</i>	
- 34 th Meeting of the US-CANADA Hydrographic Commission.....	58
<i>TASK 3.1.13</i>	
- 11 th Meeting of the Hydrographic Commission on Antarctica.....	59
<i>TASK 3.1.14</i>	
- Completion of adequate ENC coverage.....	60
<i>TASK 3.1.15</i>	
- Industry participation in RHC Meetings.....	61
Element 3.2 - INCREASE PARTICIPATION BY NON-MEMBER STATES.....	61
Element 3.3 - CAPACITY BUILDING MANAGEMENT.....	62
TASK 3.3.1 - Capacity Building Sub-Committee	
- 9th IHO Capacity Building Sub-Committee Meeting.....	62
TASK 3.3.2 - Capacity Building Fund.....	63
TASK 3.3.3 - Meeting with other Organizations	
- 5 th IHO-IMO-IOC-WMO-IAEA-IALA Capacity Building Coordination Meeting.....	63
- FIG-IHO-ICA International Board on Standards of Competence (Task 3.3.7).....	63
Element 3.4 - CAPACITY BUILDING ASSESSMENT.....	64
- Technical and Advisory Visits (Task 3.4.0).....	64
- Capacity building procedures (Task 3.4.6).....	64
Element 3.5 - CAPACITY BUILDING PROVISION.....	64
- Task 3.5.1 Raise awareness on the importance of hydrography.....	64
- Task 3.5.2 Technical workshops, seminars, short courses.....	65
- Task 3.5.3 Hydrographic and Nautical Cartography Courses.....	66

- Task 3.5.5	Marine/Maritime Projects.....	66
- Task 3.5.6	Bilateral agreements.....	68
Element 3.6	- COORDINATION OF GLOBAL SURVEYING AND CHARTING.....	68
- Task 3.6.1	WEND Working Group	
	1 st Meeting of the WEND Working Group.....	68
- Task 3.6.2	Coordination of ENC schemes, consistency and quality.....	69
- Task 3.6.3	Publication C-55: status of hydrographic surveying and nautical charting worldwide	70
- Task 3.6.4	Maintenance of INT chart schemes and improvement of availability of the INT chart series.....	70
Element 3.7	- MARITIME SAFETY INFORMATION.....	70
-	World-Wide Navigational Warning Service Sub-Committee.....	70
Element 3.8	- OCEAN MAPPING PROGRAMME.....	71
 APPENDICES		
<i>Appendix I</i>		72
	New and Revised IHO Publications	
<i>Appendix II</i>		73
	IHB Directing Committee Responsibilities	
<i>Appendix III</i>		74
	IHB Staff Responsibilities	
<i>Appendix IV</i>		75
	List of IHB Missions	

INTRODUCTION

The Directing Committee is pleased to present the Annual Report of the activities of the Organization for 2011. This report provides an account of the technical and administrative developments of the IHO during 2011 and indicates the participation and contribution of Member States, other international organizations and stakeholders in the execution of the Work Programme on issues affecting safety at sea, the protection of the marine environment, economic development through marine and maritime activities and security.

The Directing Committee with the support of the Staff of the Bureau, monitored and assisted in the execution of the IHO WP for 2011. The needs and requirements of the Organization and especially those coming from Member States were considered and acted upon by the Directing Committee. In addition to the other requirements of the Work Programme, an issue of importance for 2011 was the planning and preparations for the XVIIIth International Hydrographic Conference held in April 2012.

The 2011 Report consists of two parts;

Part 1 – General. Part 1 describes the execution of the IHO WP in 2011. It covers the technical and administrative developments of the Organization, as reflected through the reports and documents of the meetings of Committees, Sub-Committees, Working Groups, Regional Hydrographic Commissions and other bodies of the Organization.

Part 2 – Finance. Part 2 presents the status of the finances of the Organization for 2011 at the close of the financial period, in accordance with Article 11 of the Financial Regulations. It also includes the External Auditor's Annual Report as required by Article 20 of the Financial Regulations.

Part 1 of the IHO Annual Report has been structured based on the three Work Programmes as reflected in the revised Strategic Plan of the Organization; namely Corporate Affairs, Hydrographic Services and Standards and Inter-Regional Coordination and support. In this way the Report is directly related to the technical structure of the Organization which is based on the Secretariat (Corporate Affairs) and two principal Committees, the Hydrographic Services and Standards Committee and the Inter-Regional Coordination Committee.

The section reporting on the Corporate Affairs programme covers topics related to cooperation and relations with other international organizations such as: UN, IMO, IALA, IOC and others, providing details on the way that the various activities and projects have been supported; information management in the IHB; issues related to membership of the Organization; new Hydrographers; and administration of the IHB. It also covers the developments of the Working Groups tasked to review the Staff Regulations and the revision of IHO publication S-23 - *Limits of Oceans and Seas*. The section also refers to Public Relations and in particular the excellent relationship that exists between the Organization and the Government of Monaco and the celebration of World Hydrography Day in the presence of Ministers, Consuls and other dignitaries. The following points should be highlighted:

- The high-standing and recognition by IMO of IHO as a significant contributor to its work and especially to COMSAR, NAV, TACC and MSC, to the development of its e-Navigation Strategy and to the implementation of ECDIS;
- The need for those Member States that have not yet approved the Protocol of Amendments to the Convention on the IHO to seek to accelerate the process, so as to bring into force the remainder of the new Constitutional arrangements, thereby improving the efficiency and effectiveness of the Organization;
- The continuing benefits to the Organization of the renovation programme of the premises of the Bureau funded by the Government of Monaco; and
- The excellent relationship with the International Tribunal on the Law of the Sea (ITLOS) and the support that the Bureau provides to its students on hydrographic and cartographic issues.

The section covering the Hydrographic Services and Standards Programme reports on the technical issues and activities of the Organization, primarily governed, monitored and directed through the Hydrographic Services and Standards Committee (HSSC). During the third meeting of the HSSC in 2011 the work of its

ten subordinate Working Groups was examined with special emphasis placed on the various issues relating to ENC developments and operational issues with some older ECDIS equipment in use at sea. Of particular note:

- The work and progress on the implementation of S-100 – The Universal Hydrographic Data Model
- The leadership and action taken by the Organization to address problems related to the proper presentation and display of ENCs in ECDIS in use at sea; and
- The vital contribution provided to the work of the Committee and its Working Groups by the representatives of industry and interested stakeholders.

The Inter-Regional Coordination Work Programme section reports on the range of activities of the Organization that require significant regional and global coordination, effected through the Inter-Regional Coordination Committee (IRCC) and its subordinate bodies. These activities cover the work of the Regional Hydrographic Commissions, the Capacity Building Sub-Committee, the WNWNS Sub-Committee and other bodies represented in the IRCC. Capacity Building is included in the report. Capacity Building activities continued to provide important support especially to developing States, in order to enhance their hydrographic capabilities and enable them to fulfill their obligations under Regulation 9 of Chapter V of the Convention on the Safety of Life at Sea (SOLAS). Seminars and workshops were organized on a variety of topics and technical visits were made to various States. Eleven Regional Hydrographic Commissions and the Hydrographic Commission on Antarctica met in 2011 and examined various topics of interest to the specific regions. The following should be noted:

- The achievement of providing at least a minimum level of ENC coverage for most Member States, in accordance with the undertaking given to the IMO;
- The increasing levels of practical support being provided by industry participating in the meetings of the Regional Hydrographic Commissions;
- The increasing level and success in coordinating capacity building efforts between IHO, IMO, IALA, WMO, IOC and IAEA; and
- The significant financial contributions made by Japan and the Republic of Korea in support of the IHO Capacity Building Programme.

WORK PROGRAMME 1

CORPORATE AFFAIRS

Introduction

Work Programme 1 covers the Corporate Affairs of the Organization. It includes: cooperation with international and other relevant organizations; information management within the Bureau; Public Relations including celebration of World Hydrography Day; and, importantly, the relationship between the Organization, the Palace and the Government of Monaco. Work Programme 1 also covers the progress of approval of the Protocol of Amendments to the Convention on the IHO and the acceptance of new Member States. Various WGs considering issues of special interest, such as the Staff Regulations Working Group, also fall under Work Programme 1.

Element 1.1 COOPERATION WITH INTERNATIONAL ORGANIZATIONS

ANTARCTIC TREATY CONSULTATIVE MEETING (ATCM) **(Task 1.1.1)**

XXXIVth ANTARCTIC TREATY CONSULTATIVE MEETING (ATCM)
20 June – 01 July, Buenos Aires, Argentina.

The XXXIVth Antarctic Treaty Consultative Meeting took place in Buenos Aires, Argentina, from 20 June to 01 July, coinciding with the 50th Anniversary of the entry into force of the Treaty. Parties and related Antarctic international bodies met, as they do every year, to discuss matters concerning the management of the Antarctic Treaty area and to further develop the Antarctic Treaty System.

Participants allocated time for discussion of the 61 Working Papers (WP), 137 Information Papers (IP) and seven Secretarial Papers (SP) submitted by various countries, international organizations concerned by the Antarctic and the AT Secretariat. Over 300 people representing the Consultative Parties, the non Consultative Parties and international organizations were present, including the IHO. Captain Hugo GORZIGLIA represented the IHO during the first five days.

The Meeting was formally opened by the Minister of Foreign Affairs, Mr. Hector TIMERMAN, who welcomed the participants and highlighted the importance of the Antarctic. He emphasized how successful the Antarctic Treaty System (that had entered into force 50 years previously) had been, particularly in keeping the area free of conflicts, collectively well-managed and environmentally protected. Mr. Ariel MANZI from Argentina was elected Chairman of the meeting.

During the first plenary session, Captain GORZIGLIA introduced the IHO report on “*Cooperation in Hydrographic Surveying and Charting of Antarctic Waters*”. In his presentation Captain GORZIGLIA highlighted the encouraging results of the discussions held at governmental, manager, operator and scientific levels, where the message “*Antarctic development needs reliable knowledge of hydrography*” appeared to have been well understood. He stated that the IHO felt that the sensitive cartographic situation in Antarctica had been, and is being, faced and treated very seriously by the various sectors, who are enthusiastically cooperating to overcome the shortcomings. The contribution made by several Hydrographic Offices was also highlighted where resources have been allocated to the production of ENC's of Antarctic waters, greatly contributing to the improvement to safety of navigation. Finally, a call to increase the level of hydrographic survey operations was made, as the only means to gather new data to support the production of the remaining INT Charts not yet available.

Of the numerous papers presented and discussed, the following had particular relevance to the IHO:

Early Warning System for Antarctica of the arrival of waves generated by earthquakes.

This paper highlighted the need to set up a tsunami warning system for the Antarctic and the fact that shallow water bathymetry will be required for any preparedness measures that might be adopted. This situation confirmed and reinforced the need to increase hydrographic surveys in the Antarctic region.

Yacht guidelines to complement safety standards of ship traffic around Antarctica.

This paper referred to many elements contributing to safety, but omitted any direct reference to the need for nautical charting and publications. This highlighted the need for IHO input to the development of such guidelines. The point was made and acknowledged.

Antarctic Discussion Forum of Competent Authorities (DFCA) – Impacts of underwater sound to Antarctic waters – Potential of Technical Measures to Reduce the Acoustical Effects of Airguns.

The two papers referred to the impact of introduced sound on the marine environment. The first referred specifically to the organization of the 2nd Workshop of the DFCA in Berlin, Germany, in autumn 2011 to better consider Parties' individual opinions on the impact of anthropogenic underwater sound on the assets to be protected under the Environmental Plan of the Antarctic Treaty. The second paper referred particularly to airguns used in seismic surveys. These papers are relevant in relation to hydrography because of the potential for limitations on conducting hydrographic surveys using acoustic sensors which in turn may impact on the progress of hydrographic data gathering.

Report on IAATO operator use of Antarctic Peninsula Landing Sites and ATCM Visitor Site Guidelines, 2009-10 & 2010-11 Season.

Information in this paper may be useful as source material for the definition of priority survey areas, as it indicates areas of potential high tourism interest.

Report of the International Association of Antarctica Tour Operators 2010-11

This report confirmed the excellent working relationship between IHO and IAATO. IAATO's participation in the meeting of the Hydrographic Commission on Antarctica (HCA) in the UK was particularly mentioned as was IHO's participation in IAATO's 22nd Annual Meeting, May 9-12, 2011, in Hobart, Australia.

During the meeting several very productive and informative discussions were held with the Executive Secretaries of IAATO and COMNAP, as well as with delegations that included hydrographic advisors. These valuable contacts offered the opportunity to enhance coordination of future and current actions.

It is worth noting an important World Meteorological Organization (WMO) initiative under consideration: the "International Polar Decade". The main goal of this initiative is to launch a process of sustained and coordinated research and observations in the polar regions to meet the requirements of long-term climate change studies and improve prediction to benefit societal needs. This could provide further interest and support for hydrography in Antarctica.

The next ATCM Meeting will take place in Hobart, Australia, 04 to 13 June 2012.

INTERNATIONAL ASSOCIATION OF MARINE AIDS TO NAVIGATION
AND LIGHTHOUSE AUTHORITIES
(Task 1.1.5)

LIAISON WITH IALA E-NAVIGATION COMMITTEE CONCERNING S-100
Brussels, Belgium, 12 January

Captain WARD and the Chairman of TSMAD, Mr. Barrie GREENSLADE (UK), attended a meeting with the Secretary-General of the International Association of Lighthouse and Aids to Navigation authorities (IALA), Mr. Gary PROSSER and the Chair and Vice-chair of the IALA e-Navigation Committee and the Chair of the committee's data infrastructure working group in Brussels on 12 January. The meeting was the first liaison meeting between IALA and the IHO concerning IALA's interest in using the IHO S-100

data framework standard and the associated Geospatial Information Registry to fulfill its emerging data transfer requirements.

As a result of the meeting, the IALA officers confirmed that their organization would be evaluating S-100 and the use of the S-100 GI Registry for Automatic Identification of Ships (AIS) messaging, inter Vessel Traffic Systems (VTS) exchange format (IVEF) and Aids to Navigation (AtoN) information and will report back to the IHO on the results.

E-NAVIGATION UNDERWAY CONFERENCE

MV Crown of Scandinavia, at Sea, 31 January to 2 February

As part of the European Union EfficienSea Project, an international conference to consider how e-Navigation test-beds are assisting in the development of the e-Navigation concept was organized on the Baltic Sea ferry *Crown of Scandinavia* by the Danish Maritime Safety Administration.

The conference was attended by over 130 attendees from many parts of the world. Mr. Gary PROSSER, Secretary-General of IALA and Captain WARD from the IHB provided opening addresses to the conference. Mr. John-Erik HAGEN (Norway), Chairman of the IMO Correspondence Group on e-Navigation also participated. Speakers representing different stakeholder groups provided their different perspectives on e-Navigation. The second day of the conference, during which the venue ferry continued to sail on its route between Copenhagen and Oslo, a number of planned and operational test-beds were described. A test-bed installed on the bridge of *Crown of Scandinavia* was examined by the conference attendees. This test-bed demonstrated the use of real-time broadcast information including vessel traffic and weather information.



Ingénieur général de l'Armement Yves DESNOËS, retired Hydrographer of France, expressing his view at the e-Navigation Underway Conference

Discussions on the third day of the conference resulted in a number of conclusions being reached on how test-beds should be coordinated and used to help test and improve e-Navigation concepts as they are developed. Notably for the IHO, the conference agreed that existing standards and data structures should be used in such test beds, and in particular S-100, in order to explore their suitability for use on a global scale.

The conference also agreed that the IMO specification for Integrated Navigation System (INS) is the most appropriate building block for the implementation of e-Navigation capabilities in ships rather than by making adjustments or adding further requirements to the current ECDIS capabilities.

9th MEETING OF THE IALA COMMITTEE ON e-NAVIGATION
Copenhagen, Denmark, 14 - 18 March

The 9th meeting of the Committee on e-navigation of the International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) took place at the National Museum of Denmark in Copenhagen from 14 to 18 March. Over one hundred delegates were in attendance. Captain WARD represented the IHO.

The IALA Committee on e-Navigation was formed to develop IALA policy and technical proposals on various aspects of e-Navigation, both for the benefit of its own members but also to forward proposals and comments to the IMO, the organization that is developing the e-Navigation concept. In accordance with the Memorandum of Cooperation between IHO and IALA, the IHO has been providing advice and assistance to IALA in relation to relevant hydrographic and nautical charting aspects of e-Navigation.

Captain WARD contributed, in particular, to the work of the committee's subordinate Working Group 5 that is studying data architecture. In this context, the IHO's S-100 is likely to become an underpinning data structure standard for IALA in the future.



IALA e-Navigation Committee meeting at the National Museum of Denmark

10th MEETING OF THE IALA COMMITTEE ON e-NAVIGATION
Paris, France, 26-30 September

Captain Robert WARD represented the IHO as an Observer at the 10th meeting of the IALA e-Navigation Committee at the IALA Headquarters. The IALA e-Navigation Committee was established to address various relevant aspects of the e-Navigation concept being developed by the International Maritime Organization (IMO) and to provide appropriate input to the IMO for consideration. The meeting comprised 104 attendees, from 24 countries and nine sister organizations.



The principal topics of interest to the IHO that were discussed by the Committee were work on describing an e-Navigation data architecture framework and the Association's increasing interest in using IHO S-100 as the basis for its data modelling requirements. In this regard, the 10th meeting of the e-Nav Committee endorsed a proposal for an IALA delegation to hold a workshop at the IHB in March as part of establishing the internal IALA procedures required to fulfil the obligations of a submitting organization and a domain owner, as set out in IHO S-99 - *Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry*. This workshop would also take advice from IHB staff and begin investigations for using S-100 for an IALA Inter VTS (Vessel Traffic Service) Exchange format (IVEF) and an Aids to Navigation metadata exchange standard.

**IALA WORKSHOP ON GLOBAL SHARING OF
MARITIME DATA AND INFORMATION**
Paris, France, 12-15 September

In September Captain WARD represented the IHO at a workshop on the global sharing of maritime data and information organised by the International Association of Aids to Navigation and Lighthouse Authorities (IALA). The workshop, attended by nearly 50 participants representing a wide range of government authorities and service providers from both the government and private sector, was the first meeting to be held in IALA's new and refurbished headquarters in St-Germain-en-Laye.

The first part of the workshop enabled participants to present current developments in digital data services in the maritime domain. Captain Ward described the extensive experience of the IHO and its Member States in the delivery of digital data and information, including issues related to standards, copyright, government policy and data security. The workshop concluded with the drafting of an IALA guideline on the global sharing of maritime data and information.



INTERNATIONAL CARTOGRAPHIC ASSOCIATION
(Task 1.1.8)

**MEETING OF THE ICA COMMISSION
ON GEOINFORMATION INFRASTRUCTURES AND STANDARDS**
Monaco, 27-29 June

The IHB hosted the 2011 meeting of the ICA Commission on Geoinformation Infrastructures and Standards. The meeting was chaired by Mr. Antony COOPER (South Africa). The IHB was represented by Ing. en chef Michel HUET and Capt. Alberto COSTA NEVES. Topics addressed by the meeting included:

- Finalisation of a paper entitled "An initial formal model of a spatial data infrastructure from the computational viewpoint", which will be submitted to the International Journal of Geographical Science;
- Extensive discussion on how the paper "Extending the formal model of a spatial data infrastructure to include volunteered geographical information", could be taken further after its initial presentation at the 2011 International Cartographic Conference held in Paris, France from 4 to 8 July.

**XXVth INTERNATIONAL CARTOGRAPHIC CONFERENCE AND
XVth INTERNATIONAL CARTOGRAPHIC ASSOCIATION GENERAL ASSEMBLY
Paris, France, 3 to 8 July**

The XXVth International Cartographic Conference and the XVth International Cartographic Association (ICA) General Assembly took place in Paris, France. The Hydrographer of Chile and Chair of the Marine Cartography Commission of ICA, Captain Patricio Carrasco, represented the IHO.

The Conference was opened by Mr. William Cartwright, President of the ICA. Over 500 presentations were provided covering more than 25 different topics, including: standards, data quality, Spatial Data Infrastructures (SDI), projections, Geographic Information Systems (GIS), history, thematic maps, atlases, education, cartographic profession. 200 poster sessions were divided by themes, one of which covered the work that had been considered by the Marine Cartography Commission in the last four years. The cartographic exhibition comprised over 120 different maps; nautical charts; aeronautical charts, and special thematic charts. Also a children's cartographic competition was held with more than 100 entries. Finally, a technical exhibition including software, hardware, technological development in cartographic analysis, production and edition was provided.

The Conference which was held at the *Palais des Congrès* in Paris was organized by the French Committee of Cartography in partnership with SHOM, IGN, IRD, the BRGM and BNF. Some of the participants travelled to Brest on 1 July to visit the Service Hydrographique et Océanographique de la Marine (SHOM). Several presentations were made during this event by SHOM staff members on the following subjects: « Updating of the nautical cartography on the coasts of Africa: a new dynamic », “Two centuries of cartography in marine sedimentology”, as well as a presentation by Ingénieur Général de l'Armement (IGA) Gilles Bessero, as Chairman of the IHO Inter-Regional Coordination Committee, on the subject: “Nautical cartography in the digital era: from standardization to co-production”.

The Croatian Hydrographic Service described nautical cartography in the Adriatic Sea.

SHOM's exhibition stand highlighted the use of hydrographic survey data in nautical charts, electronic navigational charts and the Litto3D® project.

The first prize for the international chart exhibition in the category «Hydrography or maritime navigational charts» was awarded to Norway for a chart of Oslo Havn (Port of Oslo). The second prize was awarded to SHOM for nautical chart n° 7546 INT 7120 of the Port of Djibouti published in 2010, and one of the 220 original charts produced by SHOM on the coasts of Africa.

The XVth International Cartographic Association General Assembly elected a new Executive Committee for the period 2011-2015. Prof. Georg Gartner (Austria) was elected to be the new President. Uruguay was accepted as a member of ICA.

One outcome of the Assembly was the decision of the Executive Committee to disestablish the Marine Cartographic Commission and to transfer some responsibilities, such as education and standards, to other commissions. This meant that the IHO/IHB relationship with ICA would in future be exercised directly between the ICA President and the IHB. Amendments to the IHO/ICA Memorandum of Understanding between the IHO and ICA were subsequently amended to reflect this.

INTERNATIONAL MARITIME ORGANIZATION (IMO)
(Task 1.1.10)

IMO e-NAVIGATION CORRESPONDENCE GROUP CHAIRMAN'S FORUM
Brussels, Belgium, 11 January

The Chairman of the IMO Correspondence Group on e-Navigation, Mr John Erik Hagen (Norway), held a small, informal meeting of invited representatives in Brussels on 11 January. Captain Ward represented the IHO at this meeting. The purpose of the meeting was to assist Mr Hagen in developing his next round

of proposals for consideration by the IMO Correspondence Group – and in particular, to define and focus the scope of the work of the Correspondence Group in preparation for various reports to be submitted to the IMO during 2011.

The discussions at the meeting covered how best to identify the key tasks and benefits that will be addressed by e-Navigation when it is implemented. There were no new or significant issues raised during the meeting related to hydrography or nautical charting services.

15th SESSION OF THE IMO SUB COMMITTEE ON COMMUNICATIONS AND SEARCH AND RESCUE

IMO Headquarters, London, 7 – 11 March

The 15th session of the IMO Sub Committee on Communications and Search and Rescue (COMSAR15) was held at the IMO headquarters in London, from 7 – 11 March. VICE ADMIRAL MARATOS, Lieutenant Commander SHIPMAN and Mr Peter DOHERTY (USA), Chairman of IHO World-Wide Navigation Warning System Sub Committee (WWNWS) represented the IHO. The Coordinators from: NAVAREA 1 (UK); NAVAREA II (France); NAVAREAs IV and XII (USA); NAVAREAs XVII and XVIII (Canada) and NAVAREA XIX (Norway) were represented.

The Sub-Committee considered submissions by the IHO and approved a draft revised NAVTEX Manual, which was passed to the 89th session of the IMO Maritime Safety Committee (MSC) for adoption. The Sub-Committee also approved the issue of a revised COMSAR Circular regarding the details of NAVAREA coordinators and noted the IHO report on the outcome of the 2nd meeting of the WWNWS. The Sub-Committee also approved a draft IMO Assembly Resolution on the World-Wide Met-Ocean Information and Warning Service, intended to complement IMO Resolution A.706(17), as amended, on the World-Wide Navigational Warning Service. This was forwarded to MSC89 for approval and subsequent adoption by the IMO Assembly in November.

COMSAR 15 agreed that IHO's S-100 data model should be used as a baseline for creating a framework for data access and information services under the scope of e-Navigation and that the IMO, in consultation with other organizations, should consider the establishment of a Harmonization Group on creating a framework for data access and information services under the scope of the Convention on the Safety of Life at Sea (SOLAS), based on the example of the IMO/IHO Harmonization Group on ECDIS.

Members of the WWNWS Working Group (France, UK, USA, Inmarsat, WMO and IHB) met in the week following COMSAR to continue an ongoing review of relevant WWNWS documentation: IMO Resolutions A.705(17), as amended; A.706(17), as amended; the joint IMO/IHO/WMO MSI Manual and IHO publication S-53; the International SafetyNET Manual; and the NAVTEX Manual, to ensure consistency of terminology.

89th SESSION OF THE IMO MARITIME SAFETY COMMITTEE

IMO Headquarters, London, 11-20 May

The 89th session of the IMO Maritime Safety Committee (MSC89) was held at the IMO Headquarters in London from 11 – 20 May. Vice Admiral MARATOS and Lieutenant Commander SHIPMAN represented the IHO.

MSC89 considered the report of COMSAR and took the following actions of relevance to the IHO: it approved the draft revised NAVTEX Manual; approved the issue of a revised COMSAR Circular on NAVAREA Co-ordinators' operational contact information; authorised the IMO Secretariat to issue further revisions to the COMSAR Circular upon receipt of updated information from a NAVAREA Co-ordinator or the IHO; and agreed the draft text of the Assembly Resolution on the World-Wide Met-Ocean Information and Warning Service for adoption at the 27th session of the IMO Assembly in November.

MSC89 considered the submission from the IHO highlighting the cooperative efforts between IMO and IHO for improving Safety of Navigation and the information provided by the IHO on its Workshop on

“Operating Anomalies in ECDIS”. As a result, MSC instructed that the matter be considered further at the 57th session of the Sub-Committee on Safety of Navigation (NAV57).

61st SESSION OF THE IMO TECHNICAL COOPERATION COMMITTEE MEETING IMO Headquarters, London, 21-23 June

The 61st session of IMO’s Technical Cooperation Committee (TC61) was held at IMO headquarters from 21 – 23 June . The IHO was represented by Captain NEVES and Lieutenant Commander SHIPMAN. The IHO informed the Committee of the IHO’s capacity building activities during discussion on IMO’s Integrated Technical Cooperation Programme (ITCP). The IHO emphasized the cooperation between IMO and IHO in the delivery of the elements of the ITCP within the IHO’s area of competence.

A verbal report on World Hydrography Day was made. During the subsequent discussion the Secretary General of IMO reminded all delegates of the great synergy between the goals of IMO and IHO. He urged the numerous IMO Member States that were not members of the IHO to consider joining the IHO and also stated that he would address this matter again at the next meeting of the IHO Council.

TC61 provided the opportunity for the IHO representatives to meet and discuss capacity building matters with representatives of many maritime administrations and members of IMO’s Technical Cooperation Division.

57th SESSION OF THE IMO SUB-COMMITTEE ON SAFETY OF NAVIGATION IMO Headquarters, London, 6-10 June

The 57th session of the IMO Sub-Committee on Safety of Navigation (NAV57) was held at IMO Headquarters in London, from 6-10 June. The IHO was represented by Vice Admiral MARATOS, Captain WARD, and Lieutenant Commander SHIPMAN. Several heads and representatives of hydrographic offices also attended the meeting as part of national delegations.



IHB and HO delegates attending IMO-NAV57

NAV57 continued its work on the development of an implementation plan for e-navigation focusing attention on the report of the intercessional Correspondence Group. NAV57 decided to recommend to the MSC the adoption of IHO’s S-100 standard as the baseline for data access and services under the scope of SOLAS. NAV57 also proposed that the MSC establish an IMO/IHO Harmonization Group on Data Modelling. The continuation of the Correspondence Group on e-Navigation was agreed. NAV57 also agreed to seek an extension from MSC on extending the completion date for developing an e-Navigation strategy until 2014.

On the topic of AIS Aids to Navigation, NAV57 concluded that it was necessary to establish a policy on usage before any consideration could be given to symbology. This was in harmony with the view expressed by the IHO to NAV57.

Following direction from MSC89, held two weeks previously, NAV57 briefly discussed “Operating anomalies identified within ECDIS” and invited further reports to be submitted to MSC90.

The IHO informed the Sub-Committee on the establishment of the Arctic Regional Hydrographic Commission.

27th SESSION OF THE IMO ASSEMBLY IMO Headquarters, London, 21-30 November

The 27th session of the IMO Assembly was held at the IMO Headquarters in London from 21 to 30 November. The IHO was represented by VICE ADMIRAL MARATOS and Lieutenant Commander SHIPMAN.

The Assembly adopted resolution A.1051(27) on the IMO/WMO Worldwide Met-Ocean Information and Warning Service Guidance Document. This resolution complemented resolution A.706(17) on the IMO/IHO World-Wide Navigational Warning Service Guidance Document.

The IMO Secretary-General, in a report on IMO membership, once again recommended that IMO Member States, who were not members of the IHO, should give favourable consideration to joining the IHO. The Assembly endorsed this recommendation.

The Assembly endorsed the Council’s decision to appoint Mr Koji Sekimizu of Japan, currently Director of the IMO Maritime Safety Division, as the next Secretary-General for a period of four years from 1 January 2012. The Assembly also unanimously adopted a resolution thanking the outgoing Secretary-General, Mr. Efthimios E. Mitropoulos of Greece for his longstanding service to the IMO, the last eight years of which was as Secretary-General, and appointing him Secretary-General Emeritus from 1 January 2012.



The outgoing and incoming Secretaries-General of IMO addressing the 27th Regular Session of the IMO Assembly

ECDIS Revolution Conference

The second Annual ECDIS Revolution Conference and Exhibition was held in London on 23 and 24 November. Lieutenant Commander SHIPMAN, who was in London for the 27th Session of the IMO Assembly, attended the Conference and gave a presentation on ENC availability.

The Conference brought together a wide range of participants from Hydrographic Offices, ECDIS manufacturers, Maritime Safety Agencies, Shipping Companies and ECDIS Training providers. The greatest concern expressed during the Conference related to the adequacy, cost and availability of ECDIS training for mariners. With the start of mandatory ECDIS carriage requirements from July 2012 there was a genuine concern regarding the potential for shipping accidents caused by a lack of understanding of the correct use of ECDIS and an undue reliance on the technology.

INTERGOVERNMENTAL OCEANOGRAPHIC
COMMISSION (IOC)
(Task 1.1.11)

XXVIth SESSION OF THE IOC ASSEMBLY
Paris, France, 22 June – 05 July

General aspects:

The XXVIth session of the Intergovernmental Oceanographic Commission (IOC) Assembly took place from 22 June to 5 July in Paris. Almost all of the 140 Member States of the IOC were represented. The Heads of the following Hydrographic Offices participated: Brazil, Canada, Chile, France, Germany and Turkey. The IHO was represented by Captain GORZIGLIA, who attended from 27 to 30 June.

The Chair, Lic. Javier VALLADARES, opened the Assembly and delivered a report on the most recent work of the Commission.

The Executive Secretary reported on the implementation of the Commission's Biennial Strategy and Programme and Budget for 2010–2011. She summarized the main achievements that were the establishment and harmonization of core infrastructure for sea level and seismic monitoring and regional warning systems for tsunamis and other sea-level hazards; the implementation of the climate module of Global Ocean Observing system (GOOS), the ocean's role in climate variability and climate change, and coastal change adaptation in Africa and Small Island Developing States (SIDS); the developments within the UN Regular Process for the Reporting and Assessment of the State of the Oceans, including Socio-Economic Aspects, and IOC ocean science programmes and the contributions to area-based management initiatives including integrated coastal area management and marine spatial planning. She also reported on IOC and United Nations Educational, Scientific and Cultural Organization (UNESCO) involvement in the Rio+20 process under the leadership of the Director-General.

The IOC Assembly discussed a range of topics including a regional strategy for organizational improvement aimed at strengthening its regional subsidiary bodies. Another topic considered by the Assembly was the IOC contribution to the United Nations Conference on Sustainable Development (UNCSD Rio+20) in June 2012.

The Intergovernmental Tsunami Coordination Groups of the Caribbean and Adjacent Regions, the Indian Ocean, the North-eastern Atlantic, Mediterranean and Connected Seas and the Pacific presented their reports. The Assembly encouraged Member States to carry out actions to improve risk assessment and reduction, detection, warning and dissemination, and awareness and response. Captain GORZIGLIA informed the Assembly that the IHO gives high priority to helping address tsunami threats and other coastal hazards. He also emphasized that ocean bathymetry, coastal hydrographic surveys and particularly the detailed knowledge of coastal bathymetry constitutes vital information in support of tsunami preparedness. He indicated that the IHO makes data available through the IHO Data Center for Digital Bathymetry. He also informed the Assembly that the GEBCO Guiding Committee and the Bathymetric Regional Project Chairs have been invited to strengthen collaboration with a priority on improving high resolution shallow water bathymetry at the regional level, particularly to support tsunami projects.

Captain GORZIGLIA also referred to the work jointly conducted with the IOC in the project known as COAST-MAP IO, sponsored by the Government of Italy. COAST-MAP IO assists participant countries with the capacity to gather and process bathymetric data to use it in predictive inundation models.

Captain GORZIGLIA reported that the IHO Capacity Building Sub Committee had agreed to include a Workshop on Standardization of Parameters and methodologies for the production of inundation charts in support of Tsunami preparedness in its 2012 capacity building programme.

Dr. Savi NARAYANAN, Dominion Hydrographer of Canada and Captain Hugo GORZIGLIA, were among 43 recipients of IOC 50th anniversary medals. These were presented during the closing ceremony.

Dr. NARAYANAN's association with the IOC started more than 15 years ago when she became the Director of Marine Environmental Data Service in Ottawa. At the time of the ceremony she was Chair of the Arctic Ocean Science Board, and the Arctic Regional Hydrographic Commission, and has been past co-president of the WMO-IOC Technical Commission for Oceanography and Marine Meteorology and vice-chairperson of the IOC. Captain Hugo GORZIGLIA was the Chairman of the International Coordination Group for the Tsunami Warning System in the Pacific from 1993 until 1999. During his chairmanship, text books for children were published to bring knowledge of earthquakes and tsunamis to schools, and projects were formulated to extend the Pacific Tsunami warning system to the Indian Ocean and Caribbean basin. As Director of the International Hydrographic Bureau since 2002, he has been the principal coordinator between IHO and IOC, participating actively in GEBCO and in the International Bathymetric Charts projects.

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

(Task 1.1.12)

ISO/TC 211 WORKING GROUP AND PLENARY MEETINGS

32nd Meeting, Delft, Netherlands, 23-27 May and

33rd Meeting, Pretoria, South Africa, 14 - 18 November

Mr. Pharaoh represented the IHO and participated in the 32nd and 33rd meetings of Technical Committee 211 of the International Organization for Standardization (ISO/TC 211) that took place in Delft, Netherlands and Pretoria, South Africa during 2011. ISO/TC 211 is responsible for the development of the 19100 series of standards for geospatial information. The IHO is a liaison member of ISOTC211 and participates in its standards development activities. The ISO 19100 standards are being used for the development of the IHO S-100 framework standard and the IHO GII registry. They are also relevant to the development of other HSSC technical working groups such as SNPWG and DIPWG.

PORT MANAGEMENT ASSOCIATION OF WEST AND CENTRAL AFRICA

(Task 1.1.14)

The IHO was invited to attend the 34th Annual Council Meeting of the Port Management Association of West and Central Africa (PMAWCA) that took place in Accra, Ghana, from 27 April to 06 May. Unfortunately due to other commitments, the Chair of the Eastern Atlantic Hydrographic Commission was not able to participate and represent the IHO. Nevertheless a goodwill address was provided for the opening ceremony of the event, highlighting the importance of developing hydrographic capabilities in the region.

UNITED NATIONS

(Task 1.1.16)

3rd PREPARATORY MEETING FOR THE PROPOSED UN COMMITTEE ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT

UN Headquarters, New York, 4-6 April



The UN Committee of Experts on Global Geospatial Information Management (GGIM) is intended play a leadership role in

setting the agenda for the development of global geospatial information and to promote its use to address key global challenges; to liaise and coordinate among Member States, and between Member States and international organizations.

A third preparatory meeting for the establishment of the GGIM, comprising representatives from nearly 30 UN Member States together with representatives from the principal non-governmental international organizations concerned with global geospatial information management was held at the UN Headquarters in April.

The meeting reviewed the UN Secretary-General's report and its recommendations intended for consideration by the ECOSOC and the proposed Terms of Reference and Vision Statement for the GGIM. The meeting went on to discuss and provide input to the agenda and arrangements for the first UN World Forum on Global Geospatial Information Management to be hosted in Seoul, Korea from October 24 to 28.

Captain WARD represented the IHO at the meeting. He informed the meeting about the IHO's role and relationship with the UN as the recognised competent authority on hydrography and nautical charting services and the well established IHO mechanisms and standards that are already in place to assist in the exchange and availability of hydrographic information in standardised forms across the globe.

**UN GLOBAL FORUM ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT
AND 1st MEETING OF THE UN COMMITTEE OF EXPERTS ON GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT (GGIM)
Seoul, Republic of Korea, 24-26 October**



In July, the UN Economic and Social Council (ECOSOC) established the GGIM. The GGIM held its first meeting in Seoul immediately after a three-day forum on global geospatial information management. UN delegations at the forum included a number of ministers responsible for geospatial services in their respective countries. 350 participants from 90 countries and 37 representatives from international organizations, attended the forum. The

IHO has been recognised as an Observer organisation at the GGIM. Captain WARD represented the IHO at the first meeting.



*Representatives of the JB-GIS (L to R):
The Presidents of FIG, IGU, GSDI; ICA, ISPRS; ISGCGM, JB-GIS, Director IHO, IMTA*

The forum and GGIM was the first time such a high level of representation had gathered anywhere in the world to discuss geospatial information management. At the heart of the discussions were the advantages to be gained by society and by governments of establishing spatial data infrastructures. Although the discussion and examples given were centred exclusively on land-based initiatives, several of the delegations acknowledged that the maritime domain is an integral part of GGIM. The role of the IHO and its Member State HO's was acknowledged in this respect. The role of the IHO was described in a joint submission presented by the Chair of the Joint Board of Geospatial Information Societies (JB-GIS), in which the IHB represents the IHO. During the discussion on geospatial data standards, the development of IHO S-100 was mentioned specifically by the observer representing the International Organization for Standardization (ISO).

OTHER INTERNATIONAL ORGANIZATIONS

(Task 1.1.17)

INTERNATIONAL CONFERENCE ON MARINE DATA AND INFORMATION SYSTEMS

Paris, France, 29-31 March

In March Captain WARD attended the International Conference on Marine Data and Information Systems (IMDIS) representing the IHO and presented information on the recently adopted IHO Standard S-100.

The IMDIS Conference was co-organised by France's *Institut français de recherche pour l'exploitation de la mer (IFREMER)*, the EU SeaDataNet Project, and the Intergovernmental Oceanographic Commission (IOC) and the International Oceanographic Data and Information Exchange (IODE).

The conference covered a wide range of oceanographic data issues from the specific application of data and data sets to the need for better coordination and availability of data in common and accessible formats. In this context, the work of the IHO and its recent adoption of S-100 as an international standard and the establishment of an underpinning, open and dynamic Registry was most relevant and attracted a number of questions from the participants.

CIRM ANNUAL MEETING

The Hague, Netherlands, 11-12 April

The Comité International Radio-Maritime (CIRM) held its annual Conference in Scheveningen, Netherlands, on 11 and 12 April. CIRM is the body that represents 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 maintains an active role in the IHO Hydrographic Services and Standards Committee (HSSC), with a number of its members also participating as Expert Contributors in various HSSC Working Groups.

Captain 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 relevance of the IHO S-100 geospatial data standard to the e-Navigation concept currently under development by the IMO. He also highlighted various ECDIS equipment and software kernel issues that are beyond the control of the IHO and will require action from ECDIS manufacturers to rectify.

Alongside Captain WARD, the Secretary-General of the International Maritime Pilots' Association (IMPA), the Head of the Operational Safety Section of the IMO, and representatives of the International Harbourmasters' Association (IHMA), and the International Electro-technical Commission (IEC) also attended the meeting as observers.

After the meeting, Captain WARD visited the Netherlands Hydrographic Office, where he was greeted by Captain FLOOR DE HAAN, Hydrographer of the Netherlands. Captain WARD was given a tour of the facilities and discussed topical IHO issues with senior members of the staff.

Element 1.2 INFORMATION MANAGEMENT

Development and Maintenance of the IHO Web Site

(Task 1.2.1)

The IHB continued to improve its internal and external Information Technology (IT) infrastructure. Improvements were also made to the IHB conference room IT infrastructure to include a dual-screen projection capability and improved internet access for delegates.

The maintenance of the IHO web site, which is an important resource for the Organization, is an ongoing task that is undertaken by several members of the IHB staff. It is an essential reference for coordinating the work of IHO Committees and Working Groups and Regional Hydrographic Commissions. It also

provides an online repository for meeting documents, IHO publications, circular letters and other important reference documents. Mrs. BELMONTE is the primary point of contact for general updates to the web site, while the Assistant Directors maintain the Committee, Commission and Working Group sections for which they are responsible.

An officer was seconded to the IHB for the whole year by the Korean Hydrographic and Oceanographic Administration (KHOA) under the terms of IHO Resolution T4.2. He provided valuable assistance with maintaining and expanding the IHO website. Dr. Sung Ho CHOI (KHOA) also carried out an open source software development project during his term at the IHB.

Mr. Shigeru NAKABAYASHI, an officer seconded from the Japan Hydrographic and Oceanographic Department (JHOD) under the terms of IHO Resolution T4.2, provided assistance with internal IT maintenance and the development of various database applications including the IHO on-line dictionary between November 2008 and March 2011. He was replaced by Mr. Satoshi YAMAOKA, also from the JHOD who has continued the work of Mr NAKABAYASHI with the development of a metadata database and web map server for the Hydrographic Commission on Antarctica with multiple applications.

Communication between the IHB and Member States through Circular Letters. **(Task 1.2.2)**

During 2011 the IHB issued 83 IHO Circular Letters; two Finance Committee Circular Letters and 25 Circular Letters associated with preparations for the XVIIIth International Hydrographic Conference that took place in April 2012.

IHO Publications - production, editing. **(Task 1.2.3)**

A list of new or revised IHO publications completed in 2011 is provided at Appendix I. More information about specific technical publications is given in the relevant sections of this Annual Report.

Hydrographic Publications for which there is no specific body in charge - S-12, S-23, S-60, etc **(Task 1.2.4)**

No publications, including S-12 and S-60 have required any changes to be made during the period of this report.

IHO Working Group on S-23

The S-23 Working Group was tasked to “Produce a revised edition of Special Publication S-23, Limits of Oceans and Seas, and submit a report of its work together with a draft 4th edition of the publication to the IHB no later than June 2011, for the subsequent approval of Member States”. The work during the year was conducted by correspondence. In August the Chair of the S-23 Working Group reported that the group had been unable to complete its task in the allotted time and intended to delay the completion date till early 2012.

IHB Technical Library **(Task 1.2.5)**

The IHB Library continued to receive publications from various international organizations as well as from IHO Member States and research institutions. About 400 new magazines, CD-ROMs, digital publications and books on hydrography, oceanography, cartography and related matters (including the regular subscriptions) as well as various technical brochures were added to the IHB Library in 2011. The library is mainly consulted by the IHB Directors and Staff, but occasionally is visited by researchers. More than 35 requests of information were provided to external researchers.

Element 1.3 PUBLIC RELATIONS

RELATIONSHIP WITH THE GOVERNMENT OF MONACO AND OTHER AUTHORITIES **(Task 1.3.1)**

WEDDING OF HIS SERENE HIGHNESS PRINCE ALBERT II OF MONACO & MISS CHARLENE WITTSTOCK Monaco, 2 July



On 2 July Vice Admiral MARATOS, accompanied by Mrs. MARATOS, represented the IHO at the wedding of His Serene Highness Prince ALBERT II of Monaco and Miss Charlene WITTSTOCK. Captain GORZIGLIA and Captain WARD also attended the ceremony.



A framed print of an original survey of Monaco conducted by *Ingénieur Hydrographe* A. MION in 1898 was sent to the couple as a wedding gift on behalf of the Member States of the IHO. The survey is part of the collection of archived documents held by the French Hydrographic Office (*Service Hydrographique et Océanographique de la Marine*).

NATIONAL DAY OF MONACO **19 November**



An important part of the festivities organized for the National Day of Monaco is the conferring of honours and decorations by His Serene Highness Prince Albert II of Monaco. This year Ms Mireille MOLLET (France) was awarded a long service medal in recognition of her years of loyal service at the IHB as registrar. She received a bronze medal for 20 years' service at a ceremony held at the Oceanographic Museum of Monaco.

(left to right) Mr. Paul MASSERON, Government Minister for the Interior, Ms Mireille MOLLET (IHB), H.E. Mr. Michel ROGER, Minister of State of Monaco, Mr. Stéphane VALERI, Government Minister for Social Affairs and Health.

WORLD HYDROGRAPHY DAY

(Task 1.3.2)

Monaco, 21 June

Human Resources – The important element to the success of hydrography

World Hydrography Day in 2011 was also the 90th anniversary of the establishment of the IHO. The theme - *Human Resources – The important element to the success of hydrography* focused on the importance of people in hydrography. The Prime Minister, Ministers, Diplomats and other local dignitaries were invited to a reception hosted by the IHB in Monaco. Articles in newspapers and magazines, visits of students and a small exhibition were also organized by the Bureau. A Media Release was prepared and made available on the IHO web site together with various other materials for use by Member States in their own celebrations.



Vice-Adm. MARATOS greeting the Town Councillor of Monaco, M. Jacques PASTOR, at the start of the IHB reception

PUBLIC RELATIONS SUPPORT

(Task 1.3.4)

VISIT BY STUDENTS FROM THE INTERNATIONAL TRIBUNAL ON THE LAW OF THE SEA (ITLOS)

IHB, Monaco, 21 February and 15 November

A course leader and six students attending a nine-month course, funded by the Nippon Foundation, at the International Tribunal on the Law of the Sea (ITLOS) in Hamburg, Germany, visited the IHB on 21 February. They were given a briefing on “Hydrography and UNCLOS” followed by a Question and Answer Session. The visit was part of the International Liaison section of their course. In addition to the IHB they visited the IMO in London, the International Court of Justice (ICJ) in The Hague and the European Union (EU) in Brussels.



The course leader was from Germany and the students were from: Argentina, Brazil, Greece, Mozambique, South Africa and Togo.

A second course comprising the group leader and seven students visited the IHB on 15 November. The course leader came from Chile and the students were from: Angola; France, Jamaica, Panama, Senegal, Tonga and Vietnam.



JOURNAL ARTICLES AND THE INTERNATIONAL HYDROGRAPHIC REVIEW **(Task 1.3.5)**

Informative articles on topical subjects were published quarterly on the dedicated IHO page in the journal Hydro International.

The International Hydrographic Review (IHR) continued to be produced at the IHB in digital form and the two scheduled editions were published on the IHO web site. The IHB received excellent support from Mr. Ian HALLS (Australia) as the IHR Editor. The IHR Editorial Board now comprises representatives of almost all Regional Hydrographic Commissions, thereby widening the potential for contributors as well as the expert volunteers required to peer review the IHR's articles. At the end of the year the IHB provided a printed compilation of the two published editions all Member States.

Element 1.4 IHO

New IHO Structure **(Task 1.4.1)**

Ratification of the Protocol of Amendments to the IHO Convention

As at 31 December, 34 Member States Governments had formally notified the Government of Monaco of their approval of the Protocol of Amendments to the Convention of the IHO, as approved at the 3rd Extraordinary International Hydrographic Conference in April 2005.

In accordance with paragraph 3 of Article XXI of the Convention, the Protocol of Amendments to the IHO Convention shall enter in force after having received two-thirds approval of the Contracting Parties entitled to vote at the time of the approval of the Protocol by the Conference in 2005.

New Hydrographers of IHO Member States

NEW HYDROGRAPHER OF THE ROYAL NETHERLANDS NAVY

From September 2011



Captain Peter Kortenoeven was born in the village of Zwammerdam on 1st of July 1958. After finishing grammar school, he joined the Royal Netherlands Navy as a midshipman at the Royal Netherlands Naval College between 1976 and 1979.

After being commissioned as an officer in the Royal Netherlands Navy he started as Watch Officer on board several frigates and conducted a personnel exchange programme which led him to take on a position aboard the British Frigate HMS Berwick during 1982 and 1983.

After completing the Principal Warfare Officer course, he specialized in Navigation and was subsequently appointed on the frigate HNLMS Piet Heyn for 3.5 year tour. After this he became an instructor at the Naval Operations training facility.

After completing the Advanced Military Staff Course in 1993 he became the Staff Officer Operations for the Netherlands Destroyer squadron.

During 1996 – 1997 he was appointed to the Royal Netherlands Navy Material Directorate in the Hague.

Between 1997 and 2000 Peter Kortenoeven was the Dutch-Belgian Liaison officer at FOST (Flag Officer Sea Training) in Plymouth.

After his return to the Netherlands he took command of the frigate HNLMS Bloys van Treslong and subsequently commanded HNLMS Van Nes which took part in the operation “Active Endeavour” following the attacks on New York in 2001.

Between 2002 and 2004 Peter Kortenoeven returned to the United Kingdom once again to be the ACOS N5/N7 of the Commander UK Maritime Forces in Portsmouth. Late 2004 he returned to the Netherlands to become the last Military Assistant to the Commander In Chief Royal Netherlands Navy. During 2005 – 2009 Kortenoeven was appointed to the defence staff as head of the department of military diplomacy and relations management. This was followed by a 2 year appointment to the International Military Staff at the NATO headquarters in Brussels as maritime planner where he focused on NATO’s Counter Piracy Operations. As of 1st September 2011 he became the Hydrographer for the Royal Netherlands Navy.

Peter Kortenoeven lives together with his partner, Henrikje Klasen, a German children’s psychiatrist. They are the proud parents of daughter Jana (born in November 2005). As of 2006, Peter, Henrikje and Jana live in Haarlem. Peter’s hobbies include sailing, general history, classical music and travelling.

NEW HYDROGRAPHER OF BRAZIL

From November 2011

Vice-Admiral Marcos Nunes de MIRANDA was born in Rio de Janeiro, RJ, Brazil, on 11 April 1957. In 1974 he joined the Brazilian Naval Academy on Villegagnon Island, Rio de Janeiro. Upon graduation, in 1977, he was commissioned an Ensign and assigned to the Brazilian Fleet. He specialized in Naval Communication.

He attended numerous military courses, including the Command and Staff Course at the Brazilian Naval War College and the Naval Command College at the United States of America.

He served on VARIOUS the Brazilian Navy ships, being Commanding Officer of Auxiliar Ship GASTÃO MOUTINHO and Frigate DODSWORTH. His shore billets include the Head of South East Naval Ships Group, Port Authority of São Paulo, the Sea Studies Institute ALMIRANTE PAULO MOREIRA, and the Directorate of Civil Works.



Among the numerous decorations he received are the following medals: Naval Order of Merit, Military Order of Merit, Gold Military Service, Air Force Order Merit, and Seaman Merit.

NEW DIRECTOR OF THE ITALIAN HYDROGRAPHIC INSTITUTE



Rear Admiral Andrea LIACI was born in Lecce on 17th August 1955.

- After High School, he joined the Livorno Naval Academy of the Italian Navy in 1974 and graduated in 1978. Following graduation from the Naval Academy, he served as an Artillery and Missile Officer and then as Chief Artillery Officer on board warships.
- After completing the Naval Staff College for Senior Officers and the 149th Session of the Naval Command School, LIACI became the Commanding Officer of Hydrofoil ASTORE. Having been promoted to Lieutenant Commander, LIACI was an instructor at the Italian Navy's Training Centre in Taranto from 1989 to 1992.
- From 1992 to 1995, LIACI worked at the Combat Systems Department of the Italian Navy General Staff.
- From 1995 to 1996, he was the commanding officer of the anti-submarine Frigate Alpino and from 1996 to 1999, he was at the Liaison Office in Paris and worked on the French-Italian joint program FSAF (family of future air defence missiles).
- He was promoted captain and worked at the Navy General Staff as Deputy Director of the Combat Systems Department.
- In 2002, he was appointed Commanding Officer of the Destroyer ARDITO and then Chief of Staff at the Navy High Sea Forces (COMFORAL) (2003 – 2006).
- From 2006 to 2009, he served as Defence and Naval Attaché at the Italian Embassy in Paris, with the rank of Rear Admiral and then as Executive Officer at the Italian Naval Academy of Livorno until July 2011.

Admiral LIACI graduated from the University of Pisa in Naval and Maritime Science. He is married to Antonella ANTONUCCI and has a daughter, Maria.

REAR ADMIRAL SAROJ KUMAR JHA (NM), CHIEF HYDROGRAPHER TO THE GOVERNMENT OF INDIA

Rear Admiral SK JHA was commissioned in the Indian Navy on 01 Jan 1978. He specialized in Hydrography and is also a qualified ship's diver. He is an alumnus of the Defence Services Staff College, Wellington and the College of Naval Warfare, Mumbai. Rear Admiral SK Jha has been awarded the Nau Sena Medal (Gallantry) for act of Bravery, whilst serving onboard INS Investigator as the Executive Officer. He has held several important appointments both afloat and ashore during his illustrious career in the Navy.

His appointments include the commissioning Executive Officer of INS Investigator and the Command of INS Nirupak and Nirdeshak. He has to his credit very challenging surveys including that of the first Project Survey undertaken by the Indian Naval Hydrographic Department and the pioneering hydrographic survey of Seychelles as part of defence cooperation.



He also headed the premier training establishment, National Institute of Hydrography, Goa. It was under his stewardship, the Long Hydrographic course was recognized by the University of Goa for the award of a Post Graduate degree. He also had a stint with the Government of Maharashtra, on deputation, where he served as Chief Ports Officer and Hydrographer to the Government of Maharashtra. He was instrumental in drawing up and formulating the Port policy as well as the Passenger Water Transport policy during his tenure with the Government of Maharashtra.

The Admiral served as the Principal Director of Hydrography at the Integrated Headquarters of the Ministry of Defence (Navy) where he played a major role in the Indo-Pakistan boundary talks which led to the historic joint survey of the Sir Creeks waters. During this tenure he was also the co-chair of the Indo-Mauritius Joint Hydrographic Committee. He later took over the command of INS Venduruthy, a premier Naval Establishment of the Navy. Whilst holding this appointment, he was in addition holding the appointment as the Naval Officer-in-charge Kerala. He was instrumental in setting up of the Joint Operation Centre at Kochi.

Later on attaining the Flag Rank, Admiral SK JHA took the reins of the National Hydrographic Office as the Joint Chief Hydrographer, the first officer of the flag rank to do so. He always evinced a keen interest in the activities of various professional bodies related to surveying and cartography. He was elected President of the Institution of Surveyors from 2008 to 2009 and later, in 2011, was elected as President of the Indian National Cartographic Association. Rear Admiral SK Jha was appointed the Chief Hydrographer to the Government of India in October 2011.

He is married to Sandhya, a dedicated homemaker and an active member of the Navy Wives Welfare Association. He has two sons, Kanishk and Kartik, both pursuing their careers as Engineering Management professionals.

NEW DIRECTOR OF THE GEORGIAN STATE HYDROGRAPHIC SERVICE

Mr. Revaz BABILUA has assumed the position of Director of the State Hydrographic Service of Georgia. Mr. BABILUA was born in the city of Gagra, in May 1972, and studied in the Faculty of Law at the Tbilisi Javakhishvili University.

NEW HYDROGRAPHER OF THE REPUBLIC OF KOREA



Mr. Joo Bin IM was appointed General Director of the Korea Hydrographic and Oceanographic Administration on 2 March 2011.

Mr. IM was born in March 1960 in Hongsung, Republic of Korea. In 1983, he graduated from the Yonsei University and in 1985 he obtained a Master's Degree in Science of Public Administration at the Seoul National University.

He began his career at the National Railroad Administration in 1985. Thereafter, he acquired experience in various divisions, including - amongst others - the Railroad Operation Division, the Civil Aviation Team, the Central Land Tribunal of Ministry of Land, Transport and Maritime Affairs.

ACADEMIC BACKGROUND

- Feb. 1983 - Bachelor Degree in Science of Public Administration, Yonsei University ;
- July 1985 - Master's Degree in Science of Public Administration, Seoul National University.

PROFESSIONAL CAREER

- March 2011 - General Director, Korea Hydrographic and Oceanographic Administration, MLTM ;
- Aug. '09 - Mar. '11 - Secretary General, Central Land Tribunal, MLTM ;
- Mar. '08 - Aug. '09 - Head of Air Traffic Office, Aviation Safety Authority, MLTM ;
- Mar. '07 - Mar. '08 - Head of Railroad Operation Team, Ministry of Construction and Transportation ;
- Sep. '05 - Mar. '07 - Head of Civil Aviation Team, MOCT ;
- Jul. '03 - Sep. '05 - Director of the Oversea Construction Cooperation Division, MOCT ;
- Dec. '01 - Jul. '03 - Director, Logistics Facility Division, Transportation Policy Office, MOCT.

IHO Membership

The IHB continues to be supported very effectively by the Government of Monaco, through its Department of External Relations, in all matters relating to membership of the IHO.

NEW IHO MEMBER STATES

No new Member States joined the Organization during 2011.

PENDING MEMBER STATES

(Applications for admission to the IHO having been approved).

The following countries have received the approval of a two-thirds majority in the year indicated: Bulgaria (1992), Cameroon (2009), Mauritania (1991) and Sierra Leone (2010). These four countries now only need to deposit their Instruments of Accession to complete the IHO membership formalities.

PENDING MEMBER STATES

(Applications for admission to the IHO awaiting approval).

The following countries applied to become IHO members on the dates indicated: Haiti (March 2008), Montenegro (July 2007) and Vietnam (March 2011-Announced December). By the end of 2011, the status of approvals was as follows: Haïti = 44; Montenegro = 51; Vietnam = 0.

SUSPENDED MEMBER STATES.

In accordance with Article XV of the Convention and Articles 16 and 17 of the Financial Regulations all rights and benefits continued to be suspended (since July 1983) for the Democratic Republic of the Congo and the Dominican Republic.

Work Programme and Budget (Task 1.4.2)

The IHO Work Programme and Budget for 2011 was approved by Member States in 2010. The execution of the budget was managed by the Finance Section and reviewed at least on a monthly basis by the Directing Committee. Progress of the Work Programme was assessed at least quarterly as part of the regular management meetings comprising the Directing Committee and the Assistant Directors.

The 2012 IHO WP and Budget was approved in November 2011.

IHO Strategic Plan and Performance Monitoring (Task 1.4.3)

Limited progress was made on developing a practical framework for programme performance monitoring based on the strategic planning and reporting mechanisms proposed by the IHO Strategic Planning Working Group (ISPWG) and agreed by the 4th Extraordinary International Hydrographic Conference in 2009. Norway offered to support this development by providing expert assistance but, unfortunately, the assigned expert was unable to progress the task because of an unanticipated transfer to another agency in Norway. This had the effect of delaying the progress of further study. Work recommenced after the arrival in May of a new Assistant Director and the assignment by the Norwegian Hydrographic Service of its Quality Manager.

The development of the IHO Work Programmes including input and review by the Chairs of HSSC and IRCC in accordance with the process proposed by the ISPWG.

S-63 Scheme Administrator and S-63 support (Task 1.4.4)

The IHB administers the generation, control and issuing software keys and licences for the S-63 security scheme to ECDIS Original Equipment Manufacturers (OEMs). It also manages and controls the generation and issuing of “Data Server Certificates” that are required by ENC data distributors.

In 2011 the IHB issued S-63 security keys to 46 OEMs. By the end of 2011, 214 S-63 keys had been issued. One application to generate and issue a “Data Server Certificate” was processed in 2011. The IHB continued to host the S-63 security server that supports the scheme.

Element 1.5 IHB MANAGEMENT

IHB ADMINISTRATION

(Task 1.5.1)

IHB Directing Committee

The Directing Committee, comprising the three Directors elected by the Member States at each five-yearly International Hydrographic Conference, is responsible for representing the IHO and for providing the secretariat function of the IHO. The various roles and responsibilities were divided between the President and the other two Directors as set out in Appendix II.

IHB Staff

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

Mrs Ghislaine FAUCHOIS who joined the IHB in June 2010 as the Administrative and Accounting Officer was selected to replace Mr. Christian VELARD at the end of 2011 after he had reached retirement age. Ms. Sandrine BRUNEL was recruited to replace Mrs. FAUCHOIS in her former position.

Mr Dan COSTIN joined the IHB in January as the Information Technology Assistant (ITA). This new position was created using the vacant Office Manager position that was disestablished on the death of Mr SEMLALI in 2010. The ITA position is also the S-63 Scheme Administrator.

Captain Federico BERMEJO retired in May after 23 years at the IHB. The Directing Committee selected Captain Alberto COSTA NEVES (Brazil) as his replacement. The retirement of Lieutenant Commander SHIPMAN coming up in 2012 caused the Directing Committee to call for nominations for his replacement in August. The selection process took place in November and Commander David WYATT (UK) was selected to join the IHB in May 2012.

Secondment of personnel

Two officers were seconded to the IHB Staff during 2011 under the terms of IHO Resolution 54/2008. Dr. Sung Ho CHOI from the Korea Hydrographic and Oceanographic Administration arrived in January 2011 and was replaced by Mr. Baek-Soo KIM in December 2011. Mr. Shigeru NAKABAYASHI from the Hydrographic Department of the Japan Coastguard, who came to the IHB on secondments in October 2008 was replaced by Mr Satoshi YAMAOKA in March.

Technical missions

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

IHB STAFF REGULATIONS

(Task 1.5.2)

Staff Regulations Working Group

The Staff Regulations Working Group (SRWG) that was established by Decision 18 of the XVIIth International Hydrographic Conference to study and propose changes to the Staff Regulations, continued its work during 2011, with one meeting held at the UK Hydrographic Office in January 2011. The progress and preliminary recommendations of the SRWG were presented to the Finance Committee Officers (FCOs) by the President of the Directing Committee at the regular meeting in April. Due to various circumstances, including extremely low participation by Member States in the SRWG and the redeployment of the Chair to other duties within her country such that continuing to act as the Chair was problematic, no further progress was made. Work is expected to be resumed after consideration by the XVIIIth IHC in April 2012.

TRANSLATION SERVICES

(Task 1.5.3)

The IHB continued to translate key documents into French and 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.

To enhance the French translation capability and to address the steadily increasing French translation load, a second French translator position was incorporated into the staff structure through the redeployment of existing staff.

IHB FINANCE PROCEDURES AND IHB PROCEDURAL MANUAL FOR PERMANENT ACTIVITIES

(Task 1.5.4 and 1.5.5)

Acting on the recommendations of the Auditor, the Directing Committee implemented additional procedures to better manage travel, mobile phone and medical expenses, as well as the disbursement of expenses associated with Capacity Building Fund operations.

STAFF TRAINING

(Task 1.5.6)

In 2011, one category B staff received advanced training in computer graphics. All staff undertook first-aid firefighting training.

MAINTENANCE OF THE IHB PREMISES

(Task 1.5.7)

The Government of Monaco continued its very generous support towards renovation and ongoing maintenance of the IHB premises including improvements to the male toilet facilities to cope with the larger meetings now being held at the IHB.

EQUIPMENT **(Task 1.5.8)**

Significant equipment improvements centred around IT infrastructure. Cables and intranet network points were installed in the new offices constructed within the IHB Chart Room in the previous year. This provided the opportunity to expand the WIFI coverage into the Chart Room and to move the network backup server out of the main computer server room to a more suitable and remote location at the other end of the building. The main network switches were also upgraded in order to increase internal bandwidth capacity. A second telephone line and ADSL account were implemented in order to improve external bandwidth connectivity

Element 1.6 INTERNATIONAL HYDROGRAPHIC CONFERENCE

In March, the IHB began its internal processes of preparation for the XVIIIth IHC due to be held in April 2012, conducting the first coordination meeting with all the IHB personnel. This was followed by five other coordination meetings held during the rest of the year.

WORK PROGRAMME 2 **HYDROGRAPHIC SERVICES AND STANDARDS**

Introduction

The majority of Programme 2 – *Hydrographic Services and Standards* is overseen by the Hydrographic Services and Standards Committee (HSSC). The HSSC was established in 2009 within the new structure of the Organization.

In general terms the principal objectives of the HSSC are to:

- monitor the requirements of mariners and other users of hydrographic information concerning the use of hydrographic products and information systems that may require data and information provided by national hydrographic authorities;
- monitor the work of specified IHO Inter-Organizational Bodies engaged in hydrographic services and standards;
- study and propose methods and standards for the acquisition, assessment and provision of official hydrographic data and nautical products;

The following sections are organized according to the elements of Programme 2.

Element 2.1 HSSC

HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE **(TASK 2.1.1)**

**3rd MEETING OF THE IHO HYDROGRAPHIC SERVICES
AND STANDARDS COMMITTEE (HSSC)**
IHB, Monaco, 8-10 November



The third meeting of the Hydrographic Services and Standards Committee was held at the IHB in Monaco from 8 to 10 November. The meeting was attended by 47 delegates representing 23 Member States and 12 delegates representing seven Non-Governmental International Organizations (NGIO's) and sister intergovernmental organizations.

The work of the HSSC's ten subordinate Working Groups was examined. The Committee was brought up to date on the development of S-100 - *The Universal Hydrographic Data Model* and the significant interest being shown in the S-100 standard by non Member State organisations. The Transfer Standard Maintenance and Applications Development Working Group (TSMAD) reported good progress on developing the S-100 based ENC Product Specification S-101, and the completion of S-102, a data exchange standard for bathymetric data.

Other notable topics included the approval of programmes of revision for various ECDIS-related standards to address recently identified operating and implementation anomalies in ECDIS being used at sea.

DEVELOP S-100 AND MSDI STANDARDS **TASK 2.1.2**

The S-100 IHO Universal Hydrographic Data Model (UHDM), published in January 2010, provides the framework for the development of the next generation hydrographic products and services. Although this publication remained static during 2011, work on several S-100 based product specifications was progressed. These include product specifications for S-100 based ENCs, Marine Protected Areas and for Bathymetric Surface data.

A few extensions were made to the associated IHO on-line registry which was established to support the S-100 UHDM and S-100 based products. S-100 has since been recommended by the IMO as a baseline standard for the Common Maritime Data Structure required for e-Navigation.

Element 2.2 ABLOS

ADVISORY BOARD ON THE LAW OF THE SEA **(TASK 2.2.1)**

18th MEETING OF THE ADVISORY BOARD ON THE TECHNICAL ASPECTS OF THE LAW OF THE SEA Chile, 9-10 November

The 18th Meeting of the Advisory Board on the Law of the Sea (ABLOS) was held at the offices of the Servicio Hidrográfico y Oceanográfico de la Armada de Chile (SHOA) on 9 and 10 November. The ABLOS working group preparing the draft 5th Edition of the TALOS Manual (C-51) met on 8 November and a Law of the Sea seminar was held on 11 November.

The Chairman welcomed Dr Neils ANDERSEN (Denmark) and Dr Sobar SUTISNA (Indonesia) who were to become members of ABLOS representing the International Association of Geodesy (IAG) on 1 January 2012 as successors to Prof. Lars SJÖBERG (Sweden) and Prof. Chris RIZOS (Australia) who were stepping down after long service within ABLOS. Additionally, members from the UK, Canada, and Japan, the Secretary and nine Observers from Brazil, Canada, Chile, Indonesia and Japan were present.



The meeting received a report from the Chairman of the TALOS (C-51) WG which had met the day before and welcomed the progress that had been made. A work plan was agreed that aimed at having a 5th Edition of the Manual completed and adopted by IHO and IAG in time for publication at the 7th ABLOS Conference in 2012.

Much of the meeting was devoted to reviewing the feedback from the 6th ABLOS Conference in 2010 and preparing for the 2012 Conference. The title of the 7th Conference will be “UNCLOS in a Changing World” and several potential session themes were identified. The Conference will be held in Monaco in October.

Element 2.3 CSPCWG

CHART STANDARDIZATION AND PAPER **CHART WORKING GROUP** **(TASK 2.3.1)**

8th MEETING OF THE IHO CHART STANDARDIZATION AND PAPER CHART WORKING GROUP (CSPCWG) Turku, Finland, 29 November – 2 December

The 8th meeting of the IHO Chart Standardization and Paper Chart Working Group (CSPCWG) was hosted by the Finnish Maritime Administration in Turku, the ancient capital of Finland on its southwest coast, from 29 November to 2 December. The CSPCWG provides a core of expertise on the concepts of

charting and is mainly tasked to develop and maintain the IHO Chart Specifications, as contained in publication S-4. The 26 attendees included representatives from Australia, Brazil, Canada, Denmark, Finland, France, Germany, Italy, Japan, Korea (Rep. of), Latvia, The Netherlands, Norway, Spain, Sweden, UK, USA and IHB, plus expert contributors from ESRI and Jeppesen. The meeting was chaired by Dr. Peter JONES (UK).



The meeting reviewed and discussed a number of proposals relating to chart content and specifications, that included the following topics for which new or amended specifications would be prepared as part of the next work programme:

- depiction of marine farm areas;
- maintained / dredged areas;
- safe clearance heights;
- depiction of limits of newly surveyed areas;
- coloured light flares;
- printing plans on back of charts;
- and arc-pointers to aids to navigations.

The meeting was told that the comprehensive revision of S-4 which started in 2004 was now in its last phase and should be completed in 2012 or 2013. An update on progress with the current revision of S-4 - Section B-300 *Topography* was provided and discussed. Similarly, an update was provided on the development of a US Combined Paper Chart and ECDIS Chart No.1, and a UK INT1-like publication that described S-52 (ECDIS) symbols. Finally, presentations were made by the expert contributors on projects relating to an “Ocean Basemap” (ESRI) and an “NHS Print-on-Demand Service” (Jeppesen).

Element 2.4 DIPWG

DIGITAL INFORMATION PORTRAYAL WORKING GROUP **(TASK 2.4.1)**

The Digital Information Portrayal Working Group (DIPWG) meeting was held jointly with the 22nd TSMAD meeting and took place at the Sejong Hotel in Seoul, Korea (Rep. of), from 11 to 15 April. (See report on TSMAD – Element 2.11)

Element 2.5 DPSWG

DATA PROTECTION SCHEME WORKING GROUP **(TASK 2.5.1)**

S-63 WORKSHOP & 8th MEETING OF THE DATA PROTECTION SCHEME WORKING GROUP (DPSWG) Monaco, 17-18 February

Following the IHO meeting to discuss ECDIS anomalies (15-16 February), an S-63 Workshop and 8th DPSWG Meeting was held on 17-18 February at the IHB in Monaco. This event was attended by a variety of working group members and stakeholders, including ECDIS manufacturers, data servers, Member States and IHB, under the chairmanship of Mr. Jonathan PRITCHARD, UK. In total 16 people were in attendance, plus two via telephone. The main purpose of this meeting was to discuss issues concerning the implementation of the current edition 1.1 of S-63 and gather input and feedback to guide the compilation of a new edition.

The extent to which the current edition of S-63 has been implemented was not clear. Although inclusion of S-63 in the IEC 61174 standard (ECDIS testing) had led to a good level of compliance since 2009, there was still a significant number of older systems which may not fulfil the full requirements of S-63 edition 1.1. A survey of all accredited data servers and ECDIS manufacturers was conducted with the aim of assessing the level of S-63 compliance across all implementers. However, early results of the survey were disappointing.

A list of requirements for a future version of S-63 was compiled. This included ENC authentication and distribution and was intended to provide guidance when a new version of S-63 is drafted.

Element 2.6 DQWG

DATA QUALITY WORKING GROUP **(TASK 2.6.1)**

4th MEETING OF THE IHO DATA QUALITY WORKING GROUP (DQWG) Helsinki, Finland, 14-17 June

The 4th meeting of the IHO Data Quality Working Group (DQWG) was hosted by the Finnish Transportation Agency (FTA) in Helsinki, Finland, on 14-17 June. DQWG, one of the ten working groups of the Hydrographic Services and Standards Committee (HSSC), is tasked to develop appropriate methods of classifying and depicting the quality of digital hydrographic data. Twelve persons, representing the Hydrographic Offices of Canada, Finland, The Netherlands, Norway, Slovenia, Sweden and the United Kingdom, plus the IHB and an expert contributor from Jeppesen Marine, attended the meeting which was chaired by Mr. Chris HOWLETT (UK). The main points discussed included:



S-57 and S-52

A recently conducted survey had revealed that many ENC users do not make use of the attribute CATZOC. The existing method of portraying data quality (CATZOC and its “stars”) therefore appears to be inadequate. ENC users in the survey expressed a strong preference for an on-demand (via toggle function) data quality colour or pattern fill. As a result, the DQWG will propose, for example, that one colour be used to show areas of poor data quality, another colour to show areas of average data quality and no colour fill for areas of sufficient data quality.

The DQWG agreed that a set of guidelines on how to populate CATZOC (and also M_QUAL) should be included in the “Use of the Object Catalogue” (S-57 Appendix B.1). Noting the lack of consistency in the way CATZOC is populated for legacy data but also taking into account the effort that many HO’s have already put into populating CATZOC, this guidance would be mindful of limiting the amount of reassessment that any new data quality methods would require.

S-101

The DQWG considered that the following quality indicators are important for mariners: horizontal uncertainty, vertical uncertainty, uncertainty of existence, and temporal variation. There should be one attribute to capture the uncertainty of horizontal positional measurements, vertical positional measurements and distances, at the 95% confidence level.

The DQWG considered that CATZOC should not be used in S-101 – the Product Specification for the next generation ENC. However, the supporting attributes, i.e. position and depth uncertainties, and seafloor coverage, should be retained, to allow S-101 systems to use the combined attribute values to drive other methods of portraying data quality. The S-101 feature catalogue would need to be extended with attributes for capturing each of seafloor coverage and size of feature detected. Based on the above, the DQWG would prepare and forward a data quality component for S-101 to the relevant TSMAD sub-working group, to be completed before the end of 2011.

The meeting elected Mr. Rob HARE (Canada) and Mr. Eivind MONG (Jeppesen) as DQWG Vice-Chair and Secretary, respectively.

Element 2.7 EUWG

ENC UPDATING WORKING GROUP **(TASK 2.7.1)**

The ENC Updating Working Group (EUWG) conducted all its work by correspondence. During 2011 a survey of all ENC Producer States was conducted to determine how quickly HO’s were implementing the recommendations drawn up by the EUWG regarding the inclusion of Temporary and Preliminary Notices to Mariners in the standard ENC update process and which HO’s were still including updates to ENCs only in paper Notices to Mariners. The EUWG analysed the results, which was subsequently reported to Member States by Circular Letter.

Element 2.8 HDWG

HYDROGRAPHIC DICTIONARY WORKING GROUP **(TASK 2.8.1)**

The Hydrographic Dictionary Working Group (HDWG) did not meet in 2011. The work of the HDWG, with its limited number of active participants, was conducted mainly using a discussion forum on the internet. The HDWG considered a number of proposals from different IHO bodies, with the aim of achieving standardization across different IHO publications and the adoption of new and reviewed terms.

Element 2.9 MSDIWG

MARINE SPATIAL DATA INFRASTRUCTURE **WORKING GROUP** **(TASK 2.9.1)**

The Marine Spatial Data Infrastructure Working Group (MSDIWG) did not meet during 2011 and had no significant items on its work programme. The MSDIWG Chairman, Mr John PEPPER (UK) was unable to continue in 2011 and Mrs Maureen KENNY (USA) took over the Chair.

Element 2.10 SNPWG

STANDARDIZATION OF NAUTICAL PUBLICATIONS **WORKING GROUP** **(TASK 2.10.1)**

The Norwegian Hydrographic Service hosted the 13th SNPWG meeting at the Victoria Hotel (Stavanger) from 4 to 8 April. The meeting was chaired by Mr. David ACLAND (UK). Delegates from the following Member States participated in the meeting: Denmark, Estonia, Finland, France, Germany, Japan, Norway, UK, and USA. Expert Contributors from Interschalt, Jeppesen and NOVACO also participated in the meeting.

Some of the important issues discussed during the meeting included: a proposed revision of the S-100 General Feature Model to facilitate the modelling of nautical publications information, the development of a product specification for marine protected areas, relevant activities being undertaken within the Bringing Land and Sea Together (BLAST) project and improved definitions for “underkeel clearance” and “underkeel allowance.”

Other important events that took place during the meeting included interesting presentations on Surveying the Norwegian Coast and Arctic Waters, the MAREANO seabed mapping program and high resolution tidal models. An excursion on the school ship M/S Gann followed by a visit to the Kvitsoy Island Vessel Traffic Management Centre was also organized. This provided members with a unique opportunity to see the Norwegian scenery, as well as gaining an insight into the complexities of monitoring and directing maritime traffic in the region.



Participants of the 13th SNPWG

Element 2.11 TSMAD

TRANSFER STANDARD MAINTENANCE AND APPLICATION DEVELOPMENT WORKING GROUP **(TASK 2.11.1 and 2.4.1)**

**JOINT MEETING OF THE TRANSFER STANDARD MAINTENANCE AND
APPLICATION DEVELOPMENT WORKING GROUP &
THE DIGITAL INFORMATION PORTRAYAL WORKING GROUP**
Seoul, Republic of Korea, 11-15 April

The 22nd TSMAD and 3rd DIPWG meetings took place as a joint meeting at the Sejong Hotel in Seoul, Korea (Rep. of), from 11 to 15 April. The meeting was attended by 40 representatives from the following IHO Member States: Australia, Denmark, Finland, France, Germany, Japan, Netherlands, Norway, Republic of Korea, South Africa, Sweden, UK and USA; the following expert contributors: CARIS, ESRI, Jeppesen Marine, Furuno Finland, ECC (Norway), IC-ENC, IIC Technologies, KESTI, SevenCs, T-Kartor and Transas; and the IHB.



Participants in the joint TSMAD-22 & DIPWG-3 Meeting

The meeting was opened by the KHOA Director General of the Korea Hydrographic and Oceanographic Administration (KHOA), Mr. IM Joo Bin. He welcomed the delegates to Korea and thanked the TSMAD and DIPWG participants for their hard work in developing standards for ENC and for the contribution that these standards make in ensuring safety of navigation.

Unfortunately, the DIPWG Chair (Mr. Colby HARMON, USA) was not able to attend the meeting due to unforeseen events and the joint meeting was consequently co-chaired by Mr. Barrie GREENSLADE (TSMAD Chair, UK), for TSMAD matters, and Mrs. Julia POWELL (DIPWG Vice Chair, USA), for DIPWG matters.

Some of the important topics discussed during the meeting included: the S-101 ENC Product Specification; the S-102 proposed Bathymetric Surface Product Specification; the status of work on a new edition of the S-57 Use of the Object Catalogue (UOC – S-57 Appendix B.1); the S-57 to S-101 open source ENC conversion application; proposed changes to the S-100 General Feature Model; the production of a new version of S-52; how to improve ECDIS cursor enquiry & pick reports; the status of the portrayal register and portrayal catalogue development work; the revised version of ECDIS Chart 1; and the planned production of an ECDIS Check data set.

Element 2.12 TWLWG

TIDAL AND WATER LEVEL WORKING GROUP **(TASK 2.12.1)**

3rd MEETING OF THE TIDAL AND WATER LEVEL WORKING GROUP (TWLWG)

Jeju Island, Republic of Korea, 5-7 April

The 3rd meeting of the TWLWG was held at the Hanwa Resort, Jeju Island, Republic of Korea, from 5 to 7 April. Representatives from Australia, Canada, Chile, Finland, France, Japan, Norway, Peru, Republic of Korea, South Africa, UK, and the IHB attended the meeting. Lieutenant Commander SHIPMAN represented the IOC-GLOSS Group of Experts.

Mr. Ok-Soo KIM, Director of the Oceanographic Division of KHOA, welcomed all participants to the island of Jeju.

Topics discussed included: a standard for digital tide tables; the dynamic application of tides in ECDIS; a standard for the transmission of real-time tidal data; a revised definition of Mean Sea Level and the revision of IHO resolutions on tides and water level topics.



TWLWG3 on a visit to the Jeju Port Tide Gauge

Element 2.13 ENC QUALITY – TECHNICAL SUPPORT

(TASK 2.13.1) **PRIMAR/IC-ENC JTWG**

The Joint Technical Experts Working group (JTEWG) is a joint subsidiary of the Primar Stavanger Advisory Committee (PSAC) and the IC-ENC Steering Committee (IC-ENC SC). Its primary objective is to agree, develop and maintain common ENC technical and quality standards between the Regional ENC Coordination Centres (RENCs) for the delivery of high quality and consistent ENC services to mariners. The Working Group did not hold a formal meeting in 2011, however there was an exchange of technical visits between members of the RENC organizations.

WORK PROGRAMME 3 INTER-REGIONAL COORDINATION AND SUPPORT

Introduction

The Inter Regional Coordination Committee (IRCC) was established in 2009 within the new structure of the organization to promote and coordinate those activities that might benefit from a regional approach. In general terms the principal objectives of the IRCC are 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.

This report provides an overview of IRCC related activities as mandated by Programme 3 of the IHO Work Programme 2011. The following sections are organized according to the elements of the Programme.

Element 3.0 INTER REGIONAL COORDINATION COMMITTEE (IRCC)

TASK 3.1.16

3rd MEETING OF THE IHO INTER REGIONAL COORDINATION COMMITTEE IHO-IRCC3 Niteroi, Brazil, 26-27 May

The 3rd meeting of the Inter Regional Coordination Committee (IRCC3) was held in Niteroi (Brazil) on 26-27 May, hosted by the Diretoria de Hidrografia e Navegação (Directorate of Hydrography and Navigation) of Brazil. The meeting was attended by the Chairs or Representatives from all the Regional Hydrographic Commissions (RHCs), the relevant Committees, Sub Committees except the International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) and the Subcommittee on Worldwide Navigational Warning Service (WWNWS), and other bodies as well as delegates from eight individual IHO Member States and one Non-Governmental International Organisation (NGIO).



The main items on the agenda of the meeting were:

- the status of approval of the Protocol of Amendments to the IHO Convention,
- the development of the Worldwide Electronic Navigational chart Database (WEND),
- the implementation of the IHO strategic planning mechanism,
- the preparation of the IRCC contribution to the XVIIIth International Hydrographic Conference.

The most significant points discussed at the meeting were as follows:

Status of approval of the Protocol of Amendments to the IHO Convention

The Committee noted that 30 notifications of approval had been registered by the External Relations Department of the Government of Monaco as of 8 February 2011 and that positive indications from 20 other Member States had been reported through the RHCs. The Committee agreed that it was worthwhile pressing for reaching final approval in time for the 2012 IHO Conference to be the first Assembly (in other words obtaining the minimum of 48 notifications before 23 January 2012) and decided to invite the IHB to produce a reminder to Member States and also to request the Monaco Government to pursue this matter via diplomatic channels.

Development of WEND

In the light of the modest progress in carrying out the work plan of the WEND Working Group, the Committee agreed on ways and means to prepare a comprehensive report on the implementation of the WEND Principles for consideration by the IHO Conference in 2012.

Implementation of the IHO Strategic Planning Mechanism

The Committee had an extensive discussion on the implementation of the IHO Strategic Plan and Planning Cycle. It agreed to recommend to the IHO Conference in 2012 to postpone any revision of the IHO Strategic Plan to the next Conference or Assembly and to concentrate on the implementation issues. In that perspective, the Committee agreed a procedure to assess its contribution to the implementation of the preceding year's Work Programme and to collate its input for the preparation of the next year's Work Programme. The Committee also invited the IHB Directing Committee to start implementing the strategic level performance indicators (SPIs) approved by the 4th EIHC and discussed the working level performance indicators which are appropriate for monitoring the IRCC Work Programme and feeding into the SPIs.

Preparation of the IRCC contribution to the XVIIIth International Hydrographic Conference

The Committee tasked its Chair to prepare the IRCC report to the Conference based on the reports and proposals prepared by individual IRCC bodies and in accordance with the guidelines provided by the IHB.

Other topics

The Baltic Sea Hydrographic Commission (BSHC) presented a report on displaying survey status which led the Committee into agreeing an action to design a suitable framework for the development of IHO Publication C-55 - *Status of Hydrographic Surveying and Nautical Cartography World-wide*.

In relation to the IHO Stakeholders' Forum, the Committee recognized the importance of ECDIS related issues and recommended to focus discussions with stakeholders on that topic. It agreed that it was problematic to organize a forum prior to or in connection with the IHO Conference in 2012 and tasked the IRCC Chair to liaise with the HSSC Chair on the way forward, aiming at submitting a report to the IHO Conference.

The Committee agreed to request the IHB to submit to Member States an amendment to IHO Resolution 2/2007 to accommodate standards under the purview of IRCC.

Element 3.1 CO-OPERATION WITH MEMBER STATES

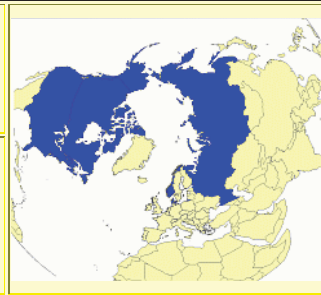
The 12 meetings of the Regional Hydrographic Commissions (RHCs) planned in the Work Programme took place. The complete reports of the meetings and the links to more detailed information are available from the IHO web site.

TASKS 3.1.1

2nd MEETING OF THE ARCTIC REGIONAL HYDROGRAPHIC COMMISSION (ARHC) Copenhagen, Denmark, 28-29 September

Chairperson: Mr. Sigvard STAMPE VILLADSEN (Denmark)
Vice-Chairperson: Mr. Evert FLIER (Norway)

Members: Canada, Denmark, Norway, Russia, USA.
Observers: Finland, Iceland
IHB Representatives: Vice Admiral MARATOS , Ingénieur en chef HUET



The 2nd meeting of the ARHC took place in Copenhagen, Denmark on 28-29 September, under the Chairmanship of Dr NARAYANAN, the Dominion Hydrographer of Canada. Twenty-eight delegates participated representing Canada, Denmark, Finland, Iceland, Norway, Russia Federation and USA. Vice Admiral MARATOS represented the IHB. A one-day Conference was organized on 27 September where the navigational issues concerning the Arctic region and the state of hydrography in the Arctic region were considered.




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 crossing the northern sea route and Northwest passage. Various papers were presented concerning the marine traffic in the Arctic, the paper and ENC coverage, the establishment of a marine routeing guide, the status of nautical publications, the Arctic projection and the establishment of an Arctic SDI. Denmark has been named the coordinator for the cartographic region of the Arctic that has been developed and for the INT charts and ENCs. It is important to emphasize that the ARHC and NSHC have agreed that the parallel 69° North is to be the boundary between the two Commissions.

Mr Svend ESKILDSEN, the Director of the Danish Maritime Safety Administration (DaMSA), was elected as the next Chair.

TASKS 3.1.2

16th CONFERENCE OF THE BALTIC SEA HYDROGRAPHIC COMMISSION (TASK 3.1.6) Norrköping, Sweden, 20-21 September

Chairperson: Mr Patrik WIBERG (Sweden) Vice-Chairperson: Mr J. VARONEN (Finland)	
Members: Denmark, Estonia, Finland, Germany, Latvia, Poland, Russian Federation, Sweden.	
Associate Members: Lithuania.	
IHB representatives: Vice Admiral MARATOS, Mr. SHIPMAN	

The 16th Conference of the Baltic Sea Hydrographic Commission (BSHC) took place in September in Norrköping. All BSHC Members - except the Russian Federation - were able to participate. Lithuania, an Observer nation, was also unable to attend. The IHB was represented by Captain Robert Ward. The UK took part as an invited observer. The Swedish hosts provided excellent support for a successful meeting, including flying the flags of all Member States on the town bridge throughout the meeting.



Under the chairmanship of Captain Henryk NITNER, Poland, and with the very active contribution of all the delegates, the Conference dealt with a wide range of topics, including:

- Cooperation within the IRCC and with other RHCs
- WEND-WG related issues
- C-55 status in BSHC Member States
- Members States' activities and Reports of the BSHC Working Groups
- Hydrographic input of the Maritime Spatial Data Infrastructure and the implementation of the INSPIRE project
- ENCs for leisure craft and fishery
- Information regarding projects envisaged or implemented by BSHC Member States like the MonaLisa project - Motorways & Electronic Navigation by Intelligence at Sea

It was decided that a number of successful initiatives underway in the Baltic region should continue to be offered to the relevant IHO bodies as models for possible adoption worldwide. These include ENC and chart harmonization, and various Maritime Spatial Data Infrastructure (MSDI) activities.



Centre: Capt. Henryk Nitner, Chair; Left: Mr Patric Wiberg, Chair-elect; and the Secretary of the 16th NSHC

At the end of the Conference, Mr Patric WIBERG, Sweden, was elected as the new Chair and Mr Jukka VARONEN, Finland, was elected as Vice-Chair.

BALTIC SEA INTERNATIONAL CHARTING COORDINATION WORKING GROUP

Norrköping, Sweden, 9-10 June

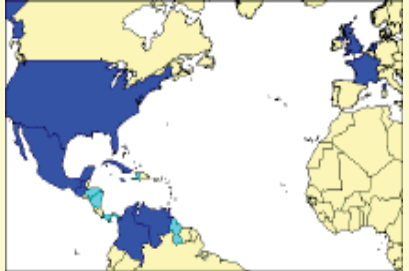
Although the Baltic Sea International Charting coordination Working Group (BSICCWG) had been working by correspondence for many years, it held its first meeting in Norrköping, Sweden, on 9-10 June. The meeting was chaired by Mr. Jarmo MÄKINEN. Mr. Juha KORHONEN acted as Secretary. Members from Denmark, Finland, Germany, Latvia, Sweden and the IHB participated in the meeting, and discussed issues related to international chart coordination in the Baltic Region. Some of these issues included: proposed new routeing measures, the use of national languages in chart titles, the exchange of ENC data in Nordic countries for paper chart production, a proposal for revising the section of the S-23 publication for the Baltic Sea area, exchange of information and updates for adopted charts and the development of an online catalogue showing INT chart coverage in the Baltic Sea region.



TASKS 3.1.4

12th MEETING OF THE MESO-AMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION (TASK 3.1.10)

Basseterre, St. Kitts and Nevis, 5-9 December

Chairperson: Rear Admiral Nick LAMBERT (UK) Vice-Chairperson: Mr. Michel AMAFO (Suriname)	
Members: Brazil, Colombia, Cuba, France, Guatemala, Jamaica, Mexico, The Netherlands, Trinidad & Tobago, UK, USA, Venezuela.	
Associate Members: Antigua & Barbuda, Barbados, El Salvador, Guyana, Haiti, Honduras, Nicaragua, Panama, St. Lucia, St. Kitts & Nevis	
IHB Representatives: Captain GORZIGLIA, Captain COSTA NEVES	

The 12th Meeting of the Meso-American and Caribbean Sea Hydrographic Commission (MACHC) was held at the Marriott Hotel in Basseterre, hosted by the Department of Maritime Affairs of St. Kitts and Nevis and the United Kingdom Hydrographic Office (UKHO). The keynote speech was given by the Prime Minister of St. Kitts and Nevis, the Honorable Dr. Denzil DOUGLAS. The IHB was represented by Captain Alberto COSTA NEVES.

Twelve Members of the MACHC (Brazil, Colombia, Cuba, France, Guatemala, Jamaica, Mexico, Netherlands, Suriname, UK, USA and Venezuela) were represented at the meeting. The following Associate Members were also represented at the meeting: Antigua and Barbuda, Barbados, El Salvador, Haiti, and St. Kitts and Nevis.

Also present at the event were a number of observers from Belize, British Virgin Islands, Costa Rica, Dominica, Grenada, Montserrat, the following organisations: Cruise Line Industry Association (CLIA), the International Bathymetric Chart of the Caribbean Sea and the Gulf of Mexico (IBCCA), the IMO, the Pan American Institute of Geography and History (PAIGH), the Radio Technical Commission for Maritime Services (RTCM) and the following commercial companies: Caris, Celebrity Cruises, ESRI, Fugro, Hypack, Jeppesen, Kongsberg and Pelydryn.

More than 60 participants discussed the main issues of the region, including capacity building actions and plans, the coordination of ENCs and INT charts and the establishment of a Maritime Economic Infrastructure Programme (MEIP). The success of the technical workshop in Haiti was particularly highlighted; this was a joint effort of Hydrographic Offices, NGIOs and companies, with support from the IHO Capacity Building Fund.

An Industry Day and a Stakeholders Day gave the participants the opportunity to interact and to discuss possibilities of cooperation and further development in the region.

TASKS 3.1.5

MEDITERRANEAN AND BLACK SEAS HYDROGRAPHIC COMMISSION

17th MEETING OF THE MEDITERRANEAN AND BLACK SEAS HYDROGRAPHIC COMMISSION (MBSHC)

Athens, Greece, 1 – 03 June

Chairperson: Cdre A. THEODOSIOU (Greece). Vice-Chairperson:	
Members: Algeria, Croatia, Cyprus, Egypt, France, Greece, Italy, Monaco, Montenegro, Morocco, Romania, Russian Federation, Serbia, Slovenia, Spain, Syria, Tunisia, Turkey, Ukraine. Associate Members : Bulgaria, Georgia, Israel, Malta, Palestinian Authority, UK, USA. Observers: Albania, Germany, Lebanon, DINMA, IMA, IOC, PRIMAR. IHB Representatives: Vice Admiral MARATOS, Captain COSTA NEVES	

The 17th meeting of the Mediterranean and Black Seas Hydrographic Commission (MBSHC) was held in Athens, Greece, on 1-3 June, under the Chairmanship of Rear Admiral Hakan ERAYDIN, the Director of the Turkish Hydrographic and Oceanographic Service. 37 representatives participated from Algeria, Croatia, Cyprus, France, Greece, Italy, Morocco, Romania, Slovenia, Spain, Tunisia, Turkey, Ukraine, Georgia, Malta, UK, USA, the Intergovernmental Oceanographic Commission (IOC) and PRIMAR Stavanger. Vice Admiral MARATOS represented the IHO.



Vice Admiral MARATOS reported on: the Organization's activities during the intersessional period; the cooperation with other international organizations and in particular with IMO, IOC and IALA; issues being progressed by subsidiary bodies of the Organization; and the preparations for the International Hydrographic Conference to be held in April 2012. Specific time was dedicated to discussion on the status of the adoption of the amendments to the IHO Convention and on the way in which the approval procedure could be accelerated.

During the meeting the progress of production of INT Charts and ENC's, the promulgation of MSI in NAVAREA III, the report of the WG for the Safety of Navigation in the Black and Azov Seas, the Capacity Building needs and requirements in the region and the results of technical visits were discussed and debated in detail. Participants provided detailed national reports. Georgia noted their efforts to enhance their hydrographic capabilities through bilateral arrangements, and indicated that they would soon apply for membership of the Organization.

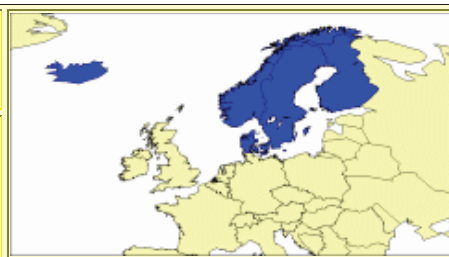
TASKS 3.1.6

55th MEETING OF THE NORDIC HYDROGRAPHIC COMMISSION Stavanger, Norway, 4-6 April

Chairperson: Mr Sigvard Stampe VILLADSEN (Denmark)
Vice-Chairperson: Mr Patrik WIBERG (Sweden)

Members: Denmark, Finland, Iceland, Norway, Sweden

IHB Representatives: Captain WARD, Mr. PHARAOH



The 55th meeting of the Nordic Hydrographic Commission (NHC) took place in Stavanger, Norway, between 4 and 6 April, chaired by the Director of the Norwegian Hydrographic Service. Fifteen representatives participated from five States representing Denmark, Finland, Iceland, Norway and Sweden. Vice Admiral MARATOS represented the Bureau. In his statement Vice Admiral MARATOS informed the participants on the status of the approval of the Protocol of Amendments to the Convention of the IHO, indicating that if the needed 19 additional approvals were achieved by the end of the year then the Conference next year would become an Assembly and the first Council would be elected. He further indicated the various subjects that the Organization is considering with IMO, including the status of ENC coverage, e-Navigation, and ongoing cooperation with IALA.

The Commission examined various technical issues of interest to all participants. Participants discussed progress in the work of the Nordic Chart Production Expert Group (NCPEG), of the Nordic Data Quality WG, the results of the workshop on the validation of multibeam data, various regional projects such as MonaLiza, BLAST and CHEMSEA and general trends and policy within the area of nautical charting and hydrographic surveying. Participants presented their national reports highlighting issues of interest to the Commission. The second day the meeting continued aboard the training vessel M/S GANN. There was a session organized jointly with the Standardization of Nautical Publications WG that was meeting during the same period in Stavanger.

Mrs. Charlotte WIIN HAVSTEEN from Denmark was elected the new Chair of the NHC.

TASKS 3.1.7

11TH MEETING OF THE NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION (NIOHC)

(TASK 3.1.13)

New Delhi, India 01-02 March

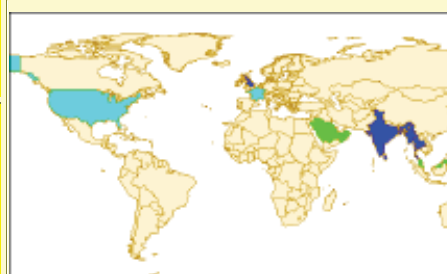
Chairperson: Rear Admiral Nick LAMBERT (UK).
Vice Chairperson:

Members: Bangladesh, Egypt, India, Myanmar, Saudi Arabia, Sri Lanka, Thailand, United Kingdom.

Associate Members: France, Oman, Mauritius, Pakistan, Seychelles, USA.

Observers: Malaysia,

IHB Representatives: Vice Admiral MARATOS, Mr. SHIPMAN



The 11th Meeting of the North Indian Ocean Hydrographic Commission (NIOHC) was held in New Delhi, India, on 1st 2 March, under the Chairmanship of Rear Admiral Nicholas LAMBERT, the UK National Hydrographer. The following 12 States participated in the meeting with 25 representatives: Bangladesh, India, Myanmar, Sri Lanka, Thailand, United Kingdom as Members and France, Oman, Mauritius, Pakistan, Seychelles and USA as Associate Members. Vice Admiral MARATOS represented the Bureau.


The following were also present with one representative each: the Intergovernmental Oceanographic Commission (IOC) and the companies Fugro Offshore Survey and Jeppesen. Vice Admiral MARATOS reported on various important developments within the Organization that had taken place during the intersessional period. The meeting discussed issues concerning the production of ENC's and INT charts, the promulgation of MSI, the MSDI developments and Capacity Building needs. It was agreed that the UK will continue to occupy the Chair until the next meeting.

TASKS 3.1.8

4th MEETING OF THE ROPME SEA AREA HYDROGRAPHIC COMMISSION (RSAHC)

(TASK 3.1.12)

Muscat, Oman, 21 – 22 March

<p>Chairperson: Cdr. Thani AL MAHROUKI, Sultanate of Oman Vice-Chairperson: Mr. Vladan JANKOVIC (Qatar)</p>	
<p>Members: Bahrain, Iran, Kuwait, Oman, Pakistan, Qatar, Saudi Arabia, United Arab Emirates</p>	
<p>Associate Members: United Kingdom, United States of America Observers: Regional Organization for the Protection of the Marine Environment (ROPME), Middle East Navigation Service (MENAS).</p>	
<p>IHB Representatives: Captain GORZIGLIA, Mr. Steve SHIPMAN</p>	

The 4th meeting of the Regional Organization for the Protection of the Marine Environment (ROPME) Sea Area Hydrographic Commission (RSAHC) was held in Muscat, Oman from 21 – 22 March, with a seminar comprising a series of industry presentations taking place on 23 March. Representatives of Bahrain, Kuwait, Oman, Pakistan, Qatar, Saudi Arabia, the UK and the USA attended the meeting. A national delegation from Abu Dhabi attended as observers. The Islamic Republic of Iran was unable to attend due to delays in obtaining visas. Captain Hugo GORZIGLIA and Mr. SHIPMAN represented the IHB.



Captain GORZIGLIA addressing RSAHC4.



RSAHC4 in session

The Commission approved a revision to its Statutes to reflect the amendments made to IHO Resolution 2/1997, as amended (formerly T1.3). The Commission appointed Mr. Jeff BRYANT (UK) as their Capacity Building Co-ordinator and prepared a prioritised list of capacity building requirements for submission to the Capacity Building Sub-Committee.

The Commission also decided to establish a RSAHC International Charting Co-ordination Working Group (RSAICCWG) and approved its Terms of Reference and membership. The Commission considered a report from the INT Chart Co-ordinator (Islamic Republic of Iran) and a draft revision of S-11, Part B, Annex I prepared by the IHB.

The Commission agreed that Oman and Qatar should continue as Chair and Vice-Chair of the Commission.

TASKS 3.1.9

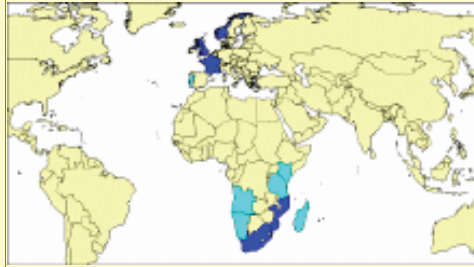
8TH SOUTHERN AFRICAN AND ISLANDS HYDROGRAPHIC COMMISSION CONFERENCE Walvis Bay, Namibia – 6 - 7 September

Chair: Captain KAMPFER (South Africa)
Vice-Chair: Mr. OOZEER (Mauritius)

Members: France, Mauritius, Mozambique, Norway,
Republic of South Africa, UK.

Associate Members: Angola, Kenya, Madagascar, Malawi,
Namibia, Portugal, Seychelles, Tanzania

IHB Representatives: Vice Admiral MARATOS, Mr.
PHARAOH



The 8th meeting of the Southern African and Islands Hydrographic Commission (SAIHC) took place in Walvis Bay, Namibia on 6 and 7 September, under the Chairmanship of Captain Abri KAMPFER, the Hydrographer of South Africa. 21 delegates participated as full or associate members and observers from the following countries: Angola, France, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Norway, Portugal, South Africa, UK and the USA. The following international organizations were also represented: IALA, West Indian Ocean Marine Highway Project (WIOMHP) and the IMO. The Maritime Safety Administration of South Africa and representatives from Jeppesen, Underwater Surveys and C&C Technologies participated as observers. Vice Admiral Maratos represented the IHB.

Vice Admiral Maratos made a brief presentation of some of the important issues that the Organization has undertaken during the intersessional period, explaining the preparations for the IHC that was to take place in April 2012. The Commission examined various issues of interest to the region, referring to the progress of production of ENC's and INT charts, the promulgation of MSI, the status of hydrographic surveying, the need to update C-55, procedures to be followed in response to marine disasters, Capacity Building and the status and needs for the development of Hydrographic Spatial Data Infrastructures (SDI). The Commission decided to have meetings annually rather than every two years as had been the case, in order to better follow the various developments occurring at both the national and international level. Presentations were provided by the representatives of IALA and the WIOMHP.

Captain KAMPFER was re-elected as Chairman.




Participants of the 8th SAIHC Meeting

TASKS 3.1.10

10th MEETING OF THE SOUTH EAST PACIFIC HYDROGRAPHIC COMMISSION (TASK 3.1.8)

Valparaiso, Chile, 04 - 06 April

Chairperson: Captain Patricio CARRASCO (Chile). Vice Chairperson:	
Members: Chile, Colombia, Ecuador, Peru Observers: Panama IHB Representatives: Captain GORZIGLIA, Captain COSTA NEVES	

The 10th Meeting of the South East Pacific Hydrographic Commission took place in the premises of the Chilean Navy Hydrographic and Oceanographic Service (SHOA), Valparaiso, Chile, from 4 to 6 April, followed by a two-day Workshop on ENC Data Standardization. At the Opening Ceremony, the Director of SHOA, Captain Patricio CARRASCO, welcomed the delegations from Colombia, Ecuador and Peru, as well as Observers. Rear Admiral Leonardo SANTAMARIA, Director General of DIMAR – Colombia - and Chairman of the SEPHC, greeted participants and declared the meeting open. Captain GORZIGLIA also addressed the participants highlighting the importance of the work of the Commission.



10th SEPHC Meeting

*From left to right: RAdm GAVIOLA – Peru ;
Capt. GORZIGLIA – IHB ; Capt. CARRASCO – Chile
and RAdm. SANTAMARIA – Colombia.*

Following the opening of the meeting, Rear Admiral SANTAMARIA provided a complete report on the activities undertaken since the last meeting and handed over the Commission chairmanship to Captain CARRASCO. Captain CARRASCO thanked the Commission Members for their confidence and particularly thanked Colombia for having chaired the Commission for an extra year, as Chile had not been able to assume this responsibility in 2010 due to the earthquake and tsunami in Chile.

Captain GORZIGLIA provided a detailed report on the main activities of the IHO in general and the IHB in particular since the last SEPHC meeting. Special reference was made to the tasks identified by the IRCC2 to be completed by the RHCs.

During the meeting all the delegations presented their national reports, updating the information contained in C-55 and shared their experience gained in multibeam surveys, special data management and ENC production. A visit to the SHOA facilities was organized and there was much discussion concerning the different steps of the hydrographic process, nautical cartographic and nautical publication production and hydro-cartographic equipment. Special consideration was given to the way HOs have faced the two tsunami events and associated emergencies that had occurred in the previous 12 months - February 2010 (Chile) and March 2011 (Japan). The importance of holding an Inundation Chart Production Workshop aimed at establishing standardized parameters and methodologies was emphasized. This event was scheduled to take place in Chile in 2011.

The ENC Workshop on Data Standardization was opened by Captain CARRASCO, Director of SHOA, and attended by delegations from Brazil, Chile, Colombia, Ecuador, Mexico, Peru and IC-ENC. A detailed presentation was given by the representatives of IC-ENC and detailed technical discussions took place during the following days on standardized data contained within ENCs. CARIS, ESRI and HEMISPERE GPS also participated in the Workshop and briefed the participants on new developments in the field of GIS and specialized software.



Capt. CARRASCO, Director of SHOA, at the Opening of the ENC Workshop on Data Standardization.

TASKS 3.1.11

5th MEETING OF THE SOUTH WEST ATLANTIC HYDROGRAPHIC COMMISSION

(TASK 3.1.14)

Arrail do Cabo, Rio de Janeiro, Brazil, 24-25 March

<p>Chairperson: Captain Orestes PEREYRA (Uruguay) Vice-Chair: Rear Admiral Andres Roque DI VINCENZO (Argentina)</p>	
<p>Members: Argentina, Brazil, Uruguay</p>	
<p>Associated members: Paraguay</p>	
<p>Observers: Bolivia</p>	
<p>IHB Representatives: Captain GORZIGLIA, Captain COSTA NEVES</p>	

The 5th Meeting of the South West Atlantic Hydrographic Commission (SWAtHC) was held at the Hotel “A Ressurgencia” in Arrail do Cabo, Rio de Janeiro, Brazil, on 24-25 March.



Group photo of all participants

The Hydrographers of Argentina and Brazil were present, as well as the Hydrographer of Paraguay. Captain GORZIGLIA represented the IHB. Representatives from the hydrographic industry attended as observers. Regretfully, the Hydrographer of Uruguay could not attend the meeting.

Vice Admiral Fernando PALMER, Hydrographer of Brazil and Chairman of the Commission, welcomed the participants and thanked the observers for having accepted the invitation.

The Actions agreed at the last meeting were reviewed and discussions took place particularly on the harmonization of INT Charts and ENC in bordering areas, where agreements between Brazil and Uruguay, and Argentina and Uruguay had not yet been reached.

Captain GORZIGLIA made a presentation concerning the main subjects under consideration by the IHO since the last meeting of the Commission. Emphasis was made on the close relationship with IMO, IOC and IALA, together with several Memoranda of Understanding signed with relevant regional organizations aiming at improving hydrographic visibility and coordination; the progress made with regard to the IHO website, the celebration of World Hydrography Day and the availability of IHO publications in digital form and at no cost. Details were provided on the preparation of the XVIIIth IHC in April 2012.

Also reported was the work of the HSSC and the IRCC, including details of some of their bodies. Particular mention was made of the standards issued and the regulations updated, particularly C-17, S-99, S-58, S-32, S-4 and M-3. ENC and ECDIS matters, as well as CB issues and the situation with regard to the Protocol of Amendments to the IHO Convention and IHO membership were reported.

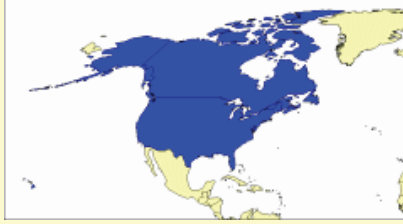
The SWAtHC Planning Committee reported on the relevant issues for the Commission with regard to CBSC, IRCC, HSSC and WEND WG activities. Following these presentations, Argentina, Brazil and Paraguay presented their national reports. Brazil made a presentation on Inland ENCs; the SWAtHC representative on the IHR to the IHR Editorial Board was discussed, and the CARIS representative gave a presentation on technical issues. After discussing the overall subjects reported, the Commission identified several actions that need to be taken, and an Action List was agreed, including a potential technical visit to Paraguay, the Hydrographic Office of which has demonstrated great progress in river chart production (550 kilometres of coverage), thanks, in the words of the Paraguayan representative, to the support received from IHO and particularly from the SWAtHC.

Uruguay was elected as the next Chairman and Argentina as Vice Chairman of the Commission.

TASKS 3.1.12

34th MEETING OF THE US-CANADA HYDROGRAPHIC COMMISSION

Tampa, USA, 25 April.

<p>Co-Chairs: Captain John LOWELL (USA (NOAA)), Dr. Savi NARAYANAN (Canada)</p>	
<p>Members: Canada, USA IHB Representatives: Captain WARD, Mr. PHARAOH</p>	

The 34th meeting of the United-States-Canada Hydrographic Commission took place in Tampa, Florida United States on 25 April. Capt. John E. LOWELL (USA - NOAA) and Dr. Savrithi NARAYANAN (Canada) co-chaired the meeting. Participants included senior staff from each of the member organizations and members from the National Geospatial-Intelligence Agency (NGA) and the U.S. Navy. France and New Zealand also participated in the meeting as invited observers. The IHB was unable to be represented by one of its staff.


One of the priority issues discussed during the meeting was ensuring adequate ENC coverage in the USCHC shared transboundary areas, as well within national jurisdictions areas in support of the International Maritime Organization’s mandate for mandatory ECDIS carriage. Several relevant technical and policy issues relating to the transboundary project were resolved during 2011. These included: the handling of French language notes in United States ENCs, attaining agreement on notes that are specific to the project, agreeing on ENC revision limits, establishing an umbrella level of service agreement that covers the exchange of charting data for all nautical products and the establishment of a communication plan for customer outreach.

Concerning ENC coverage, the United States had completed its ENC coverage to meet with the WEND definition of adequate coverage. This coverage included the top 175 ports by tonnage with an exception of limited coverage in the Arctic due to the unique challenges in these areas.

Canada had been steadily improving its ENC production for its waters. ENC coverage was considered to meet the WEND definition of adequate coverage for all of Canada’s coastal and inland waters and its top international ports with the exception of certain areas of Labrador and the Arctic due to the unique challenges in these areas.

TASK 3.1.13

11TH MEETING OF THE HYDROGRAPHIC COMMISSION ON ANTARCTICA Hobart, Australia, 5-7 October

<p>Chairperson: Captain GORZIGLIA (IHB) Vice Chairperson: Commodore NAIRN (Australia) Secretary: Ingénieur en chef. HUET (IHB)</p>	
<p>Members: Argentina, Australia, Brazil, Chile, China, Ecuador, France, Germany, Greece, India, Italy, Japan, Korea (Rep. of), New Zealand, Norway, Peru, Russian Federation, South Africa, Spain, Uruguay, United Kingdom, USA, Venezuela.</p> <p>Observer Organizations: Antarctic Treaty Secretariat (ATS), Council of Managers of National Antarctic Programmes (COMNAP), International Association of Antarctic Tour Operators (IAATO), Scientific Committee on Antarctic Research (SCAR), International Maritime Organization (IMO), Intergovernmental Oceanographic Commission (IOC), General Bathymetric Chart of the Oceans (GEBCO), International Bathymetric Chart of the Southern Ocean (IBCSO).</p>	

The 11th Meeting of the Hydrographic Commission on Antarctica (HCA) took place in Hobart, Tasmania, Australia from 5 to 7 October, organized by the Australian Hydrographic Service (AHS) with the support of the Australian Antarctic Division (AAD). The meeting was chaired by Commodore Rod NAIRN, Hydrographer of Australia and Vice-Chairman of the HCA, in the absence of the Chairman, Captain GORZIGLIA, who was unable to attend. Ing en chef Michel HUET attended as HCA secretary and represented the IHB.

Dr. Tony FLEMING, Director of the Australian Antarctic Division, welcomed all participants and highlighted the strong involvement of AAD in environment protection in Antarctica and climate change. Commodore NAIRN also welcomed the fifteen IHO Member States (Australia, Brazil, Chile, Ecuador, France, Germany, New Zealand, Norway, Republic of Korea, South Africa, Spain, the UK, the USA, Uruguay and Venezuela), five observer organizations or projects: the Council of Managers of National Antarctic Program (COMNAP), the International Association of Antarctica Tour Operators (IAATO), IALA, the General Bathymetric Chart of the Ocean (GEBCO) and the Scientific Committee on Antarctic Research (SCAR) and two expert contributors (Fugro and Geoscience Australia) who participated actively in the event.



HCA Group photo taken at the Government House, Hobart, Tasmania, Australia

As the Commission is composed of 23 IHO Member States, the 15 representatives present constituted an appropriate quorum. The Commission re-elected Commodore NAIRN as Vice-Chairman of the HCA.

The Commission reviewed the status of the actions agreed at the last meeting and discussed the progress achieved so far, noting that almost all actions had been completed. Those subjects requiring further discussion were considered under various agenda items during the meeting. The reports provided by COMNAP, IAATO, IALA, GEBCO and SCAR, as well as by IHO Member States, were considered. The reports on the progress made regarding the scheming and production of INT charts and ENC's, and an Antarctic GIS under development at the IHB, were also considered and discussed. The Commission regretted that there were neither representatives nor any reports from the IMO, the IOC or the Secretariat of the Antarctic Treaty.

Two ad hoc sub working groups were established to address the following topics:

- Development of an Antarctic appendix of a proposed IMO SN Circular on “Precautions in Using Navigational Charts in Polar Waters”. This was completed during the meeting.
- New strategic approach for raising awareness on safety of navigation and environmental protection in Antarctica. This resulted in a proposed HCA Strategic Statement and Strategic Direction, as well as several proposed new HCA tasks for inclusion in the IHO Work Programme.

The HCA Hydrographic Survey Prioritisation Working Group Chair (UK) reported that the HCA diagram on Maritime Shipping Routes had been updated following IAATO assessment and input. As a result, two new INT charts were proposed for inclusion in the scheme.

TASK 3.1.14

COMPLETION OF ADEQUATE ENC COVERAGE

The following table presented by the WEND WG at IRCC3 indicates the progress in providing ENC coverage up to 2011.

Comparison of ENCs with corresponding paper charts for international voyages				
	May 2008	May 2009	May 2010	May 2011
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%	94%

Of the 154 States with coastlines, there were only six States, and Antarctica, where five or more ENC's remained to be produced in order to match corresponding paper chart coverage at medium scale. For the world's top 800 ports (by total tonnage), only eight coastal States were yet to produce ENC's that matched the coverage provided by paper charts of those same ports.

The issue of overlapping data continued to be a problem in those sea areas where geopolitical issues hamper swift resolution.

TASK 3.1.15

INDUSTRY PARTICIPATION IN RHC MEETINGS

Representatives of the hydrographic industry sector participated in some RHC meetings and associated workshops which allowed useful feedback between HOs and industry.

As agreed at IRCC3, the IRCC chair submitted a paper to the Hydrographic Services and Standards Committee (HSSC) to consider the way forward for an ECDIS Stakeholders' Forum. A joint HSSC-IRCC proposal to the XVIIIth IHC on an action plan regarding outreach to IHO Stakeholders was agreed.

Element 3.2 INCREASE PARTICIPATION BY NON-MEMBER STATES

The following participation of non-Member States in the meetings of the RHCs was as follows:

RHC	number of non IHO Member States in RHC	number of non IHO Member States attended meeting
BSHC	1	1
EAHC	4	1
MACHC	14	11
MBSHC	7	2
NIOHC	8	0
RSAHC	1	0
SAIHC	7	5
SWAHC	2	2

In spite of the encouragement from the relevant RHCs, the four countries whose application for membership has been approved (Bulgaria, Cameroon, Mauritania, Sierra Leone) have still not yet deposited their Instruments of Accession.

There has been slow progress in the approval of pending applications for IHO membership (task 3.2.8) as shown in the following table:

Pending applications	New approvals in 2011	Status as of 31/12/2011 approvals / number required (CL 01/2012)
Montenegro (CL 75/2007)	0	51 / 52
Haiti (CL 50/2008)	5	48 / 52
Viet Nam (CL 76/2011)	0	1 / 52

Element 3.3 CAPACITY BUILDING MANAGEMENT

TASK 3.3.1 Capacity Building Sub-Committee

9th IHO CAPACITY BUILDING SUB-COMMITTEE MEETING Niteroi, Brazil, 23-25 May

The 9th meeting of the IHO CBSC was held in Niteroi, Brazil, from 23 to 25 May, under the chairmanship of Mr. Janis KRASTINS, Hydrographer of Latvia. All Members were present. Representatives from the following countries and an NGIO were present as observers: Brazil, China, Colombia, Nigeria, Venezuela and the Radio Technical Commission for Aeronautics (RTCA). In total, 37 representatives attended.



The Brazilian Hydrographer, Vice Admiral Luis Fernando Palmer, host of the CBSC9 with the 36 Members and Observers that attended the 9th CBSC Meeting. Niteroi, Brazil, 23-25 May 2011

The Chairman provided an overview of the activities undertaken since the last meeting in 2011 highlighting the main matters that require special attention by the Sub-Committee during the sessions.

The Sub-Committee:

- Reviewed the Action List agreed in 2010, confirming that almost all matters had been addressed.
- Examined the performance of the Capacity Building Fund and fully supported the management of the Fund.
- Decided to request beneficiary RHCs to improve timing and details when requesting refund of costs.
- The representative of the Republic of Korea announced that his Government may, in the future, be able to increase its contribution to the IHO CBFund to USD 400,000.
- Exchanged experiences in the implementation of the 2010 and 2011 Capacity Building Work Programme (CBWP) and reviewed the performance and planning of activities associated with the 2011 CBWP. Based on new information received from the RHCs' representatives, the 2011 CBWP was adjusted.
- Reviewed the Capacity Building projects submitted by the RHCs and adopted the 2012 CBWP that should be included in the general IHO Work Programme for 2012.

The Sub Committee also agreed:

- to prepare a document proposing a mechanism to establish regional capacity building coordinators paid under contract to help RHCs to manage CB matters;
- to prepare, jointly with the IHB, a draft syllabus for an awareness raising seminar to be delivered to IMO Member States - mainly those least hydrographically developed – (using as a model the seminars organized by the HCA to the ATCM and others). Assess the interest of potential recipients and if positive, prepare a proposal for IMO endorsement.

The Chairman informed that due to his new appointment as Head of the Maritime Authority of Latvia he would not be able to continue as Chair. The Vice Chair, Commander Brian CONNON (USA) also announced that he could not continue serving due to new responsibilities assigned within the US Navy. The Sub –Committee elected Mr. Thomas DEHLING (Germany) as the new Chair, and Captain Vinay BADHWAR (India) as Vice Chair.

TASK 3.3.2

Capacity Building Fund

The Capacity Building Fund (CBFund) 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 CBFund during the period of this report. Many other IHO Member States have contributed significant resources in kind to the IHO CB Programme, by providing the venue, instructors, local support, or other items to ensure an effective implementation of CB activities.

YEAR	Funds at 1 st January	IHO Budget allocation	External Contribution (From the RoK)	Total annual availability	CBWP Budget	REAL CBWP Expenses	Balance
2011	393.730	55.000	257.592	708.880	502.435	310.222	192.213

Note: Values are expressed in euros.

TASK 3.3.3

Meeting with other Organizations

5th IHO-IMO-IOC-WMO-IAEA-IALA CAPACITY BUILDING COORDINATION MEETING IALA, St. Germain-en-Laye, France, 27-28 October

The 5th Meeting of officers from the secretariats of the IHO, IMO, IOC, WMO and IALA, responsible for Capacity Building matters, met at the IALA Headquarters in October. The International Atomic Energy Agency (IAEA) could not be present at this time. A representative from the Fédération Internationale des Géomètres (FIG) attended as an observer. The meeting was opened and chaired by Mr. Gary PROSSER (IALA) who welcomed the 11 participants. The IHB was represented by Captain Alberto COSTA NEVES.

The following topics were discussed at the meeting: the latest Institutional Education and Training Program developments; standardization procedures put in place to improve effectiveness in the provision of Capacity Building; experiences in dealing with funding agencies; status of joint co-operation projects; the 2012 Capacity Building Work Programs; exchange of information and analysis; the way ahead; and concerted priorities.

TASK 3.3.7

FIG-IHO-ICA International Board on Standards of Competence

The FIG-IHO-ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC) held its 34th meeting in New Orleans, USA, from 2 to 6 May.

The Board reviewed the status of nine courses and granted recognition or re-recognition to four and conditional, or limited recognition to three. It decided to start work on restructuring the Standards, beginning with S-5 - *Standards of Competence for Hydrographic Surveyors* and the separation of Category A and Category B competency requirements into two distinct parts. The Board decided also to include as a standing agenda item for future IBSC meetings an open session with industry, academia, etc. to listen and receive feedback on future requirements for development of the standards and the submission process for the recognition of courses.

Regarding the provision of guidance to training institutions (Task 3.3.8), the Board agreed to develop internal guidelines and a framework for conducting on-site reviews.

The 11th edition of S-5 and the 3rd edition of S-8 - *Standards of Competence for Nautical Cartographers* were published in January 2011. A revision of S-5 (11th Edition, version 11.0.1) was published in May 2011.

Element 3.4 CAPACITY BUILDING ASSESSMENT

TASK 3.4.0 Technical and Advisory Visits

Tasks 3.4.1 to 3.4.5

The following table summarizes the execution of technical and advisory visits.

Task	Item	Implementation	Comments
3.4.1	SAIHC: follow up technical visits to:		
	Angola	Postponed to 2012	
	Kenya	Postponed to 2012	
	Madagascar	Done	Report posted on IHO web site
	Malawi	Done	Report posted on IHO web site
	Mozambique	Postponed to 2012	
	Namibia	Done	Report posted on IHO web site
	Seychelles	Postponed	
	Tanzania	Postponed to 2012	
	Uganda	Postponed to 2012	
	Comoros	Anticipated from 2012	Report posted on IHO web site
3.4.2	EAHC: visit to Cambodia	Postponed to 2012	
3.4.3	MACHC: visits to:		
	Costa Rica	Done	
	Panama	Postponed	
3.4.4	SWPHC: visits to:		
	Kiribati	Done	
	Cook Islands	Done	Postponed from 2010 Report posted on IHO web site
	Vanuatu	Done	New item approved by CSBSC
3.4.5	EAtHC: follow-up technical visits to:		
	Cameroon	Done	Report posted on IHO web site
	Gabon	Postponed	
	Guinea Bissau	Postponed	

Capacity building procedures (Task 3.4.6)

The CBSC agreed to implement on a trial basis the new version of procedure 4 (evaluation procedure of submissions). The proposal of a new procedure 6 (project implementation plan and payment procedure) was discussed and the IHB was invited to prepare a draft for submission to CBSC10. It was also decided to update procedure 5 (performance assessment procedure) in 2012.

Element 3.5 CAPACITY BUILDING PROVISION

Task 3.5.1 Raise awareness on the importance of hydrography

Execution of a Memorandum of Understanding (MoU) with SPC.

As a result of a SWPHC initiative an MoU between the IHO and the Secretariat of Pacific Community (SPC) was signed in April 2011. This MoU acknowledges the importance of hydrography and nautical charting and brings it to the attention of many regional governments in the south west Pacific region at the most senior levels for the first time.

Visit to students attending a course at the UKHO

Captain GORZIGLIA and Mr YAMAOKA represented the IHB during a visit to the United Kingdom Hydrographic Office (UKHO) on 19 October, to brief trainees, who were attending a course sponsored by the Japan Capacity Building Project funded by the Nippon Foundation. The visiting team also included Mr. KANAZAWA from the Japan Hydrographic Association.



The course started on 5 September and the three five-week modules finished on 16 December.

Capt. GORZIGLIA met the six students from Bangladesh, Indonesia, Mexico, Oman, Pakistan and Philippines. The students described their experiences and were grateful to have the opportunity to increase their knowledge in the field of nautical cartography. Captain GORZIGLIA gave a presentation that covered the areas of influence of hydrography and the responsibilities of Governments in relation to the provision of hydrographic data, information, products and services. The vital coordination and standardization role of the IHO was highlighted. The students were requested to act as ambassadors for the IHO and the profession when they returned home. Finally, the UKHO Training Team was congratulated for its important contribution to the success of the first module.

Captain GORZIGLIA also handed out mementos and certificates for Module 1 of the course and thanked UKHO and its instructors for contributing to the enhancement of the level of international hydrography and nautical charting knowledge.

Task 3.5.2 Technical workshops, seminars, short courses

The following table summarizes the implementation of the 2011 Capacity Building work programme related to technical workshops, seminars and short courses.

Task	Item	Implementation	Comments
3.5.2a	Database design and management (EAHC).	Done	ROK contribution to CB Fund.
3.5.2b	Multibeam survey and side scan sonar (EAHC).	Done	ROK contribution to CB Fund.
3.5.2c	ENC Production and QA (EAHC).	Done	ROK contribution to CB Fund.
3.5.2d	Workshop on Port and Shallow Water Surveys (SAIHC, NIOHC).	Done	ROK contribution to CB Fund.
3.5.2e	MSI Regional Course (IHB standard course) (MACHC, SWAtHC and SEPHC).	Done	ROK contribution to CB Fund.
3.5.2f	Hydrographic Survey and Introduction to Chart Production (standard IHB course) (MACHC).	Done	ROK contribution to CB Fund.

3.5.2g	Gulf of Honduras Hydrographic Survey and Data Processing Training Type 2. (MACHC).	Done	ROK contribution to CB Fund.
3.5.2h	First module of Cat. B Marine Cartography training course provided by UKHO (open course).	Done	ROK contribution to CB Fund.
3.5.2i	Phase I Skills Course (SAIHC).	Postponed to 2012	
3.5.2j	2 weeks Regional Training Course on Hydrographic Survey and Introduction to Chart Production (EAtHC, SAIHC and NIOHC).	Done	With IMO funding.
3.5.2k	2-weeks Regional Training Course on Basic ENC and ENC Production (EAtHC, SAIHC and NIOHC).	Done	With IMO funding.
3.5.2l	3 rd Course on Hydrographic Data Processing and Marine Cartography (Module 1&2).	Done (ref. CL 14 & 29/2011)	With Nippon Foundation funding.
	(MACHC)	Hydrography and nautical cartography training for Haiti - Done.	New item approved by CBCSC. ROK contribution to CB Fund.
	(SWPHC)	Support to Chair or representative attending the PACMA Meeting	New item approved by CBCSC. ROK contribution to CB Fund.
	(Open call)	57 th Multibeam Sonar Training Course	New item approved by CBCSC. ROK contribution to CB Fund. (ref. CL 59 & 63/2011)

Task 3.5.3 Hydrographic and Nautical Cartography Courses

The courses delivered in 2011 are listed in the table associated with Task 3.5.2.

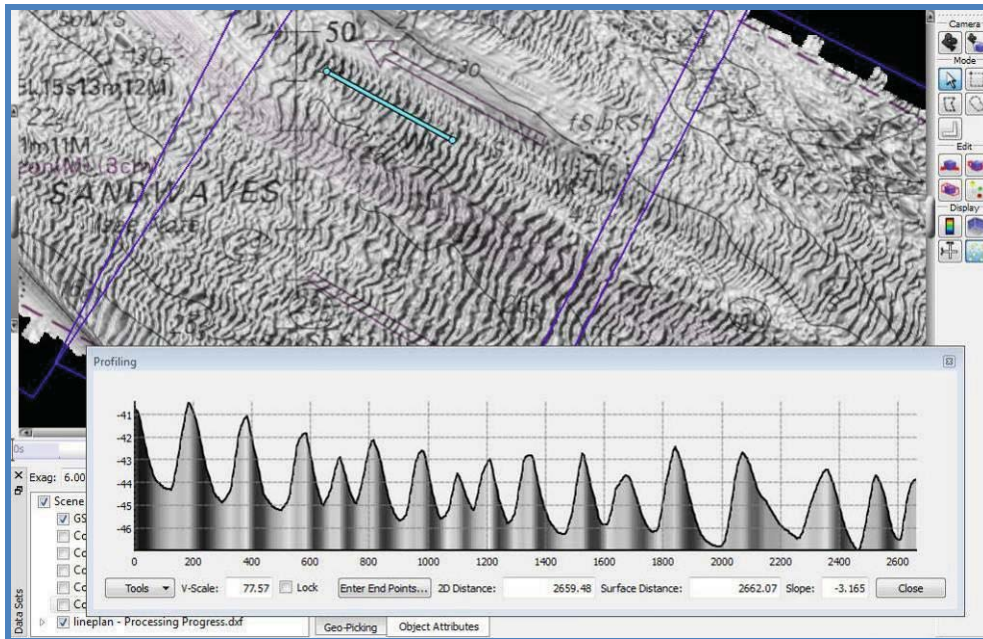
Task 3.5.5 Marine/Maritime Projects

STRAITS OF MALACCA AND SINGAPORE MARINE ELECTRONIC HIGHWAY Environmental Data Feed Workshop Singapore, 30 May to 3 June

A workshop on the provision and distribution of environmental data was held in Singapore at the end of May as part of the Marine Electronic Highway (MEH) Demonstration Project.

The MEH Project was funded by the Global Environment Facility (GEF) and the International Bank for Reconstruction and Development (IBRD) with the support of the IMO as manager of the Project. The IHB, represented by Captain WARD, had participated throughout the Project providing technical advice, particularly in relation to hydrographic and nautical charting standards.

The purpose of the Project is to improve safety of shipping and protection of the marine environment by making digital environmental information available in real-time. This includes important information such as the observed height of tide, state of the tidal stream, and wave height information. Later, the Project will include the modelling and prediction of sandwave movement and a hydrodynamic model of the Straits to support predictions for any oil spill pollution incidents that might occur. Mariners transiting the Straits of Malacca and Singapore and shore-based agencies, interested parties and the general public should all have access to this information on completion of the Project.



Sandwave Area Surveys in the Straits of Malacca

The main activity of the Environmental Data Feed workshop, hosted by Singapore, was to finalise details on the availability of environmental data and how the data will be formatted, collated, and portrayed. The MEH Project will use Marine Information Overlays (MIO's) based on the IHO S-57 data standard as the method of providing its data to users.

**3rd MEETING OF THE STEERING COMMITTEE OF THE WESTERN INDIAN OCEAN
GEF-MARINE HIGHWAY AND COASTAL
AND MARINE CONTAMINATION PREVENTION
PROJECT
Johannesburg, South Africa, 5-7 July**

The 3rd meeting of the West Indian Ocean GEF-Marine Highway and Coastal and Marine Contamination Prevention Project (WIOMHCCP) Steering Committee was held in Johannesburg, South Africa 5-7 July, under the Chairmanship of Captain Karl OTTO from the South African Maritime Safety Authority (SAMSA) and WIOMHCCP Project Manager. The meeting was attended by 39 delegates representing nine States: Comoros, Kenya, La Reunion, Madagascar, Mauritius, Mozambique, France, the UK and South Africa, and six International Organizations and institutions. Vice Admiral MARATOS represented the IHO.

Rear Admiral Neil GUY, the consultant and coordinator for the Marine Highway (MH) part of the project, informed the meeting on the progress of the Project. Hydrographic surveys had been executed by SHOM and the production of paper charts and ENCs were being undertaken by the UKHO. The Capacity Building and training of the beneficiary countries was discussed, in order to be in a position to maintain the system when the project will be concluded in December 2012. It was decided that, under the coordination of South Africa, the beneficiary countries should make a submission to IMO for the survey route to initially become a "Recommended Route" in this area.

**BRINGING LAND AND SEA TOGETHER CONFERENCE
Ostend, Belgium (22 September)**

The Bringing Land and Sea Together (BLAST) initiative is a regional project comprising 17 public and private sector partners from seven counties around the North Sea area. The project is divided into four distinct and inter-dependent work packages which include; the Land and Sea Model, Navigating the North Sea; Maritime Traffic Harmonisation and Climate Change in the Coastal Zone. The "Closing the Gap" Conference which took place on 22 September highlighted the progress that has been made so far and also included reports on recent developments in BLAST related areas.

In the plenary session Hilde CREVITS, the Flemish Minister for Transport and Public Works, presented the newly developed integrated master plan for the Belgian coast. Presentations were provided on the harmonization of geographic information within coastal zones, the integration of coastal zone management and marine spatial planning activities and the e-navigation concept that is currently being developed by the IMO.

During the second half of the conference, participants were invited to join a variety of workshops that focused on the work of the individual work packages in the BLAST project. Some of the themes included; Maritime Traffic Monitoring, the harmonization of land and sea charts, Comparative Coastal Survey Techniques, EU-related developments using the IHO S100 standard and INSPIRE, Effective Spatial Data Management through Standardized Data Models, 3D nautical chart prototypes, the use of web interface to collect and harmonize international nautical information, as well as presentations on potential solutions for Integrated Coastal Zone Management as a response to climate change. The IHO was represented by Mr PHARAOH (IHB) and Mr Thomas RICHARDSON (UKHO) who provided a presentation on the IHO S-100 standard.

The CBSC and IHB continued to monitor the capacity building aspects of on-going projects, particularly in the Straits of Malacca and Singapore, and in the Western Indian Ocean.

Task 3.5.6 Bilateral agreements.

IHO Member States reported the following bilateral arrangements in 2011:

- France: bilateral arrangement with Congo (Republic of);
- United Kingdom: bilateral arrangements with Antigua and Barbuda; Barbados - Ports Authority; El Salvador; Guyana; Jamaica - National Lands Agency and Nigeria - Ports Authority.

Element 3.6 COORDINATION OF GLOBAL SURVEYING AND CHARTING

Task 3.6.1 WEND Working Group

1st MEETING OF THE IHO WORLDWIDE ENC DATABASE WORKING GROUP

Wollongong, Australia, 13-14 October

The WorldWide ENC Database Working Group (WEND Working Group) monitored progress in providing ENC coverage and interacted with RHCs on ENC issues by correspondence and through a WG meeting which took place in Wollongong, Australia, on 13-14 October 2011. The Chairman of the Working Group, Captain Jamie MCMICHAEL-PHILLIPS (UK), welcomed 20 delegates, representing many of the Regional Hydrographic Commissions, Member States and the Regional ENC Coordinating Centres. Member State representatives from Canada and the USA joined the meeting by video conference link.



Over the two days of the meeting, the working group reviewed the steady progress that has been made regarding global ENC coverage. The meeting followed a broad agenda that included discussion of ENC quality, consistency and updating issues as well as the subject of service provision and associated licensing.

There was lengthy discussion on ways to address gaps and overlaps in ENC coverage. This resulted in agreement to submit a Proposal to the next International Hydrographic Conference (IHC). The Proposal would seek to expand the guidelines to the WEND Principles to include more details about the processes to be followed to identify and subsequently fill any gaps in ENC coverage and processes to identify and report areas of overlapping data that might impact on safety of navigation.

The working group also decided to raise a second Proposal for the consideration of the next IHC. This second Proposal would cover ENC production and re-affirm the IHO's commitment to full ENC coverage, subject to the needs of changing traffic patterns, and the availability of suitable source data and resources.

Another important decision made by the working group was to establish a small WEND Task Force to consider a number of key policy issues including that of RENC to RENC harmonization.

Task 3.6.2

Coordination of ENC schemes, consistency and quality

The following table summarizes the status of ENC schemes.

Area	Agreed ENC Schemes / Usage Bands						Comments
	1 Overview	2 General	3 Coastal	4 Approach	5 Harbour	6 Berthing	
A (USCHC)	X	X	X	X			Phase 1 completed for Pacific Ocean southern transboundary waters (Strait of Juan de Fuca) only.
B (MACHC)	X	X	X	X	X	X	Refer to ECC/WG2 2011 Annual Report, "Conclusions" section, for additional details.
C1 (SWAtHC)		X	X	X	X		
C2 (SEPHC)		X	X	X	X	X	
D (NSHC)	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 (SAIHC)	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)							New area to be agreed.

Task 3.6.3

Publication C-55: Status of Hydrographic Surveying and Nautical Charting Worldwide

Efforts to complete C-55 and to keep it updated were continued. The following Member States provided updated information in 2011: Denmark, Finland, Germany, India, Iran, Mexico, Norway, New Zealand, Oman, Pakistan, Poland, Portugal, Qatar, South Africa, Spain, Sri Lanka, Suriname, Sweden, Thailand, Tonga. The following non-Member States also provided updated information: Israel, Lithuania.

Under UK leadership, a discussion paper was circulated to initiate the design of a new framework for C-55, as agreed at IRCC3.

Task 3.6.4

Maintenance of INT chart schemes and improvement of availability of the INT chart series

The following table summarizes the status of INT chart series at the end of 2011.

Region	Coordinator	Commission	Scheduled	Published in 2011	Published Total
1 :10 Million	IHB	CSPCWG	25	0	24
A	USA/NOS	USCHC	NA*	0	15
B	Brazil	MACHC	71	1	26
C1	Brazil	SWAtHC	50	3	28
C2	Chile	SEPHC	44	0	6
D	UK	NSHC	221	6	216
E	Finland	BSHC	289	4	256
F	France	MBSHC	240	0	159
G	France	EAtHC	170	1	115
H	South Africa	SAIHC	114	4	77
I	Iran	RSAHC	113	11	56
J	India	NIOHC	168	3	92
K	Japan	EAHC	306	1	224
L	Australia	SWPHC	62	1	56
M	IHB	HCA	108	5	68
N	Norway	ARHC	/	/	/

* NA: Information not available

Element 3.7 MARITIME SAFETY INFORMATION

WORLD-WIDE NAVIGATIONAL WARNING SERVICE SUB-COMMITTEE

IHB, Monaco, 13-16 September

The 3rd meeting of the World-Wide Navigational Warning Sub Committee (WWNWS3) was held at the IHB in Monaco, from 13 – 16 September. The meeting was attended by 27 delegates from 17 IHO Member States, the IHB, the IMO, the World Meteorological Organization (WMO), and Inmarsat Global Ltd. The delegates included representatives of 12 NAVAREA Co-ordinators, one Sub-Area Co-ordinator and four National Co-ordinators. Tasks 3.7.2 to 3.7.4 were addressed.

Following the approval by COMSAR15, and subsequent adoption by MSC89, of the NAVTEX Manual, WWNWS3 focused its attention on a holistic review of all the WWNWS documentation to ensure 100% consistency in guidance and terminology used across all documents. Further work on this was planned to take place at the 10th meeting of the Document Review WG which will be held at IMO Headquarters in London in the week following COMSAR16.

Reports were received from all the new Arctic NAVAREAs confirming that they had satisfactorily entered Full Operational Capability (FOC) as planned, on 1 June 2011.

The Sub-Committee received MSI self-assessment reports from all twenty-one NAVAREAs. Reports were also received from the IMO, the Chairman of the IMO NAVTEX Panel, the IMO SafetyNET Panel, the WMO and Inmarsat Global Ltd, all of whom attended the meeting.

The meeting received updated information on the delivery of MSI training courses. Since the last meeting courses had been delivered in Australia for the SWPHC and Brazil for the MACHC, SEPHC and SWAtHC.



3rd Meeting of the World-Wide Navigational Warning Service Sub-Committee - Monaco, 13-16 September 2011

Element 3.8 OCEAN MAPPING PROGRAMME

The IOC-IHO GEBCO Guiding Committee (GGC) held its 28th meeting in San Diego, USA, on 7 October following the joint meeting of the GEBCO Technical Sub-Committee on Ocean Mapping (TSCOM) and the interim Sub-Committee on Regional Undersea Mapping (iSCRUM) (3-5 October). The 24th meeting of the GEBCO Sub-Committee on Undersea Feature Names (SCUFN) had taken place earlier in Beijing, China, from 12 to 16 September. All the tasks in Element 3.8 (tasks 3.8.4 to 3.8.11) were addressed.

In order to revitalize the regional mapping efforts of the IOC, the GGC proposed to maintain the interim Sub-Committee on Regional Undersea Mapping (SCRUM) and submitted Terms of Reference for approval from both IHO and IOC.

New and Revised IHO Publications

The following new IHO publications or revised editions were issued during 2011 and are available from the IHO web site.

DATE	TITLE	announced via CL:
06/01	Chart Specifications of the IHO (S-4) – Proposed New Definitions, Specifications and Symbols for Foul Area and Foul Ground	2/2011
07/01	Chart Specifications of the IHO (S-4) – Approval of New and Revised Specifications for Chart Accuracy Note, Oscillating Lights, Floating Wind Turbines, Intervals between Symbols in Area Limits, Size and Displacement of Symbols, Floating Waste Bins, Fish Aggregating Devices, Sub-surface ODAS Instruments	3/2011
12/01	Approval of Edition 1.0.0 of S-99 – Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry.	5/2011
03/02	Chart Specifications of IHO S-4 – Approval of New and Revised Specifications and Symbols for Virtual Aids to Navigation	11/2011
15/02	7th Edition of IHO Publication INT 1, English version – Symbols, Abbreviations and Terms used on Charts	17/2011
21/02	Hydrographic Dictionary (S-32), New or Revised Definitions.	18/2011
03/03	Adoption of edition 4.2 of IHO Publication S-58	21/2011
09/03	Adoption of Revised Edition of IHO Publication C-17 – “Spatial Data Infrastructures: ‘The Marine Dimension’ – Guidance for Hydrographic Offices”	22/2011
14/03	Chart Specifications of the IHO (S-4) – Revision 4.1.0	25/2011
09/05	P-7: Annual Report of the IHO for 2010, Part 1 – General and Part 2 - Finance	31/2011
17/05	Chart Specifications of the IHO (S-4) – Approval of New Definitions, Specifications and Symbols for Foul Area and Foul Ground	32/2012
18/07	Proposed new edition of Annex A to Appendix B. 1 of S-57 - Use of the object catalogue for ENC	41/2011
10/08	Approval of the IHO 2010 annual report - Part 2 / Finances	49/2011
12/08	Resolutions of the IHO : M-3	50/2011
31/08	Chart Specifications of the IHO (S-4) Revision 4.2.0	54/2011
25/10	Approval of the new edition of Annex A to Appendix B.1 of S-57- Use of the Object Catalogue for ENC	65/2011
28/11	New and Changed ENC Producer Agencies Listed in S-62 – List of Data Producer Codes	73/2011

IHB Directing Committee Responsibilities

President: Vice Admiral Alexandros MARATOS (Greece)

- Relations with: the United Nations; International Cartographic Association; International Maritime Organization; World Meteorological Organization, European Commission; International Association of Marine Aids to Navigation and Lighthouse Authorities; International Atomic Energy Agency, International Association on Geodesy, International Commission for the Scientific Exploration of the Mediterranean and Non-Member States and GEO.
- WWNWS; ISPWG; ABLOS; HDWG; Maritime Safety Information; Hydrographic Surveying Information Services.
- Matters concerning IHO Membership and IHB Administration; Host Government Affairs and Public Relations.
- IHO Finances and Budget.
- IHO Re-structuring – Staff Regulations.
- IHB Security and Maintenance, Logistics

and the following Regional Hydrographic Commissions:

- North Indian Ocean Hydrographic Commission.
- North Sea Hydrographic Commission.
- Mediterranean and Black Seas Hydrographic Commission.
- Southern Africa and Islands Hydrographic Commission.
- Arctic Regional Hydrographic Commission.

Director 1: Captain Hugo GORZIGLIA (Chile)

- Relations with: the Intergovernmental Oceanographic Commission; all International Bodies concerned with Antarctic matters; the Pan American Institute of Geography and History; FIG and the Academic Sector (education and training).
- Capacity Building, Training and Education and Technical Co-operation activities.
- GEBCO and International Bathymetric Mapping Projects.
- Matters referring to Information Management (Publications).
- IHO Work Programme.
- IRRC matters.

and the following Regional Hydrographic Commissions :

- Eastern Atlantic Hydrographic Commission
- South East Pacific Hydrographic Commission
- ROPME Sea Area Hydrographic Commission
- Meso American & Caribbean Sea Hydrographic Commission
- South West Atlantic Hydrographic Commission

and the Hydrographic Commission on Antarctica

Director 2: Captain Robert WARD (Australia)

- Relations with the International Organization for Standardization and the International Electrotechnical Commission.
- Marine Cartographic matters including HSSC and its Working Groups; and other related international organizations and bodies, such as NAV within IMO and DGIWIG.
- Spatial Data Infrastructure matters and related international organizations and bodies.
- Matters related to IHB Property and Information Technology.
- HSSC matters.

and the following Regional Hydrographic Commissions:

- Nordic Hydrographic Commission
- Baltic Sea Hydrographic Commission
- US/Canada Hydrographic Commission
- East Asia Hydrographic Commission
- South West Pacific Hydrographic Commission

IHB Staff Responsibilities

Professional Assistants

Captain F. BERMEJO BARO (Spain)	Capacity Building, Training, Publications Management (retired in May)
Captain A. PEDRASSANI COSTA NEVES (Brazil)	Programme Management (from May)
Ing. en chef M. HUET (France)	Cartography
Mr. A. PHARAOH (South Africa)	Data Management and Cartography
Lieutenant Commander S. SHIPMAN (UK)	Hydrography
Mr. C. VELARD (France)	Administration and Logistics (retired in December)
Mrs. G. FAUCHOIS (France)	Manager, Finance and Administration (from 1 st December)

Translators

Mrs. I. VANKRINKELLEN (France)	Head French Translator
Mrs. P. BOUZANQUET (France)	French Translator
Miss M.P. MURO (Spain)	Spanish Translator

Technical, Administrative and Service Staff

Mrs I. BELMONTE (France)	Website and Publications Editor
Miss S. BRUNEL (France)	Administrative and Accounting Officer (from 1 st December)
Mr. D. COSTIN (Romania)	Information Technology Assistant
Mrs. G. FAUCHOIS (France)	Accounting and Administration (<i>to 30 November</i>)
Mrs. C. FONTANILI (UK)	Secretary to the Directing Committee
Mr. A. MAACHE (France)	Bureau Services Assistant
Mr. D. MENINI (France)	Graphic Arts and Cartography
Mrs. M. MOLLET (France)	Communications, Librarian
Mrs. B. WILLIAMS (UK)	Head Secretariat

Seconded Officers

Mr. S. NAKABAYASHI (Japan)	GIS and IT Projects (to March)
Mr. S. YAMAO (Japan)	GIS and IT Projects (from mid-March)
Mr. Sung Ho CHOI (Republic of Korea)	Website Development Projects

List of IHB Missions

DATE	NAME	MEETING	DESTINATION
JANUARY			
03 06	WARD	SPC, SOPAC	Fiji
10 11	WARD	E-Nav	Brussels, BRU
11 13	MARATOS	SRWG	Taunton, UK
11 13	WILLIAMS	SRWG	Taunton, UK
31 03	WARD	Project "Efficiensea"	Copenhagen, DEN
FEBRUARY			
24 05	MARATOS	NIOHC	Delhi, IND
MARCH			
07 11	MARATOS	COMSAR 15	London, UK
07 11	SHIPMAN	COMSAR 15	London, UK
14 18	WARD	IALA e-Nav	Copenhagen, DEN
14 18	PHARAOH	IALA e-Nav	Copenhagen, DEN
14 18	SHIPMAN	WWNWS Doc Review WG	London, UK
19 24	SHIPMAN	RSAHC	Muscat, OMAN
21 22	GORZIGLIA	RSAHC	Muscat, OMAN
24 25	GORZIGLIA	SWAtHC	Rio, BRA
31 07	WARD	3 rd Preparation Mtg of UN CGGIM and MITAGS	New York, USA
APRIL			
04 08	SHIPMAN	TWLWG3 Meeting	Jeju Island, KOR
04 08	GORZIGLIA	SEPHC	Valparaiso, CHL
04 08	PHARAOH	SNPWG 13	Stavanger, NOR
04 06	MARATOS	NHC 55	Stavanger, NOR
11 15	HUET	DIPWG 3	Seoul, KOR
11 15	PHARAOH	TSMAD 22	Seoul, KOR
11 15	WARD	CIRM Conference	The Hague, NED
MAY			
02 05	GORZIGLIA	Arctic/Antarctica Seafloor Mapping mtg	Stockholm, SWE
03 06	PHARAOH	e-Nav Meeting	Taunton, UK
04	WARD	PRIMAR	Stavanger, NOR
10 20	SHIPMAN	MSC 89	London, UK
11 19	MARATOS	MSC 89	London, UK
18 19	WARD	Lecture at Force Technology	Copenhagen, DEN
23 27	GORZIGLIA	CBSC 9 & IRCC 3	Rio, BRA
23 27	NEVES	CBSC 9 & IRCC 3	Rio, BRA
23 25	PHARAOH	ISO TC211	Delft, NED
28 03	WARD	MEH Workshop on environmental data feeds	Singapore
31	MARATOS	Greek HO	Athens, GRE
JUNE			
01 03	MARATOS	MBSHC	Athens, GRE
06 10	MARATOS	IMO NAV 57	London, UK
06 10	WARD	IMO NAV 57	London, UK
06 10	SHIPMAN	IMO NAV 57	London, UK
08 10	PHARAOH	Baltic Sea INT Charting WG	Norrkoping, SWE
13 16	HUET	DQWG 4	Helsinki, FIN
15 17	MARATOS	KHOA	Incheon, KOR

20 24	GORZIGLIA	ATCM XXXIV	Buenos Aires, ARG
20 23	SHIPMAN	IMO TC 61	London, UK
20 23	NEVES	IMO TC 61	London, UK
27 01	GORZIGLIA	IOC XXVI Assembly	Paris, FRA
JULY			
04 06	MARATOS	West Indian Ocean Marine Hwy Meeting	Jo'burg, RSA
AUGUST			
SEPTEMBER			
05 07	NEVES	Technical Visit	San Jose Costa Rica
05 08	MARATOS	SAIHC	Walvis Bay, NAM
06 08	WARD	ECDIS Issues Mtg	London, UK
12 16	HUET	SCUFN 24	Beijing, CHN
12 15	WARD	IALA Forum on Global data exchange	Paris, FRA
18 20	NEVES	CBSC Database Management	Stavanger, NOR
20 24	WARD	IALA e-Nav 8	Paris, FRA
20 24	PHARAOH	IALA e-Nav 8	Paris, FRA
20 23	PHARAOH	BLAST	Belgium, BEL
20 21	WARD	BSHC 16	Norrkoping, SWE
26 29	PHARAOH	S-100 Portrayal Meeting	Taunton, UK
26 29	MARATOS	150yrs BSH & ARHC	Rostock & Copenhagen
26 28	WARD	IALA e-Nav 10	Paris, FRA
OCTOBER			
03 07	WARD	MEH PSC	Kuala Lumpur, MAL
03 07	SHIPMAN	GEBCO GC	San Diego, USA
03 07	PHARAOH	GEBCO SCDB & TSCOM	San Diego, USA
03 07	HUET	HCA 11	Hobart, AUS
10 12	WARD	Technical Visit	Palau
13 14	WARD	WEND WG	Wollongong, AUS
19 20	GORZIGLIA	Japan CB Project	Taunton, UK
19 20	YAMAO	Japan CB Project	Taunton, UK
24 28	WARD	UN GGIM Forum	Seoul, KOR
27 28	NEVES	IALA Capacity Building	Paris, FRA
31 02	WARD	HSSC Briefing	Plymouth, UK
31 02	HUET	HSSC Briefing	Plymouth, UK
NOVEMBER			
07 12	SHIPMAN	ABLOS 18	Valparaiso, CHL
14 18	PHARAOH	ISO TC211	Pretoria, RSA
15 03	WARD	Technical Visit	Kiribati, Vanuatu, Fiji
21 01	SHIPMAN	IMO Assembly	London, UK
21 28	MARATOS	IMO Assembly	London, UK
28 02	HUET	CSPCWG 8	Turku, FIN
DECEMBER			
05 09	NEVES	MACHC 12	St Kitts
08	MARATOS	IALA HQ inauguration	Paris, FRA

**INTERNATIONAL HYDROGRAPHIC
ORGANISATION
HYDROGRAPHIQUE INTERNATIONALE**



**ANNUAL REPORT
2011**

*RAPPORT ANNUEL
2ème PARTIE - FINANCES - PART 2*

Traditional and International Presentations
Présentations traditionnelle et internationale

Published by / Publié par le
BUREAU HYDROGRAPHIQUE INTERNATIONAL

MONACO

Foreword to the Finance Report for 2011

The Directing Committee is pleased to present the IHO Finance Report for the year 2011.

There are a number of points contained in this report that the Directing Committee would like to highlight.

1. The Auditor noted that the annual accounts show an overall surplus of 237,819 Euros (see table “Total Operating Statement”), made up as follows:

- a reduction in anticipated income of 1.8 K€. This reduction resulted from:
 - a slight increase in income from interest on bank accounts (10K€), but
 - a lower income from sales of publications (-12K€) due to the decision taken in 2009 to place most IHO publications on the IHO website and make them downloadable free of charge.
- an end of year surplus in the operating budget (221.7 K€), resulting mainly from underspending in support of the following:
 - personnel costs (77 K€),
 - technical assistance and long distance travel (45 K€),
 - publications (4K€),
 - telecommunications and office stationery (10K€), consultancy (26K€) and capital expenditure (28 K€).
- a net amount of 16 K€ being extraordinary income (from interest and exchange operations), and
- 1.5 K€ from the annual extra budget surplus (see page 12 of the traditional presentation).

2. The latest external actuarial calculation indicates a decrease in the estimated capital requirements of the Internal Retirement Fund (IRF), from 2,959,946 Euros to 2,893,108 Euros due to the death of one retiree. The IRF is deposited in bank accounts in Euros that have provided a much lower return than in previous years due to a decrease in global interest rates. Taking into consideration the decrease in liability, the IHO’s guarantee has decreased from 27,102 Euros to -122,138 Euros. As a result, the IRF pension payments for 2011 continued to be paid from the IRF financial availabilities.

3. In 2011 the Capacity Building Fund continued to provide direct support to training activities as well as support for attendance of participants at various Technical Workshops and Seminars, in accordance with the Capacity Building Program approved by Member States. In 2011 the fund received 254.7 K€ in external support from the Republic of Korea, which will be employed to better respond to various Capacity Building demands.

4. At the end of 2011, slightly over 89% of Member States' contributions had been received. This figure was about 2% higher than the previous year. At the end of the year three States remained in arrears, as was also the case in 2010.

5. The Directing Committee, in consultation with the Finance Committee Officers, proposes that the surplus of 237,619 Euros for 2011 be allocated as follows:

- 50,000 Euros to the Capacity Building Fund.
- 50,000 Euros to the Conferences Fund, to partly compensate for the reduction of 100,000 Euros as approved by the XVIIIth IHC for the next five-year budget, in favor of additional annual budget support to the Capacity Building Fund.
- 87,619 Euros to a Special Projects Fund to be established 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. The establishment of such a Special Projects Fund follows the discussion led by the USA at the Meeting of the Finance Committee the preceded the XVIIIth IHC and the subsequent discussions concerning technical and other support that took place at the IHC.
- 50,000 € to the IRF to help ensure the long term financial guaranty of the fund.

6. The Directing Committee is confident in the financial situation of the Organization and its ability to meet its obligations, and continues to closely monitor its financial activity.

Rapport financier annuel pour 2011

Avant-propos

Le Comité de direction a l'honneur de vous présenter le rapport financier de l'OHI pour l'année 2011. Il considère qu'il contient plusieurs points qui méritent de se trouver mis en lumière.

1. Le rapport du commissaire aux comptes indique un résultat annuel excédentaire de 237 819 Euros (se reporter au tableau « Compte de résultats »), et ce montant tient compte des éléments suivants :

- Une diminution par rapport aux recettes prévues de 1,8 K€ qui résulte des points suivants :
 - Une légère augmentation des revenus provenant des intérêts de comptes bancaires (10K€), mais
 - Des recettes provenant de ventes de publications en baisse (-12K€), ce qui s'explique par la décision prise en 2009 de mettre la plupart des publications de l'OHI sur le site WEB de l'OHI et de rendre leur téléchargement gratuit.
- Un excédent annuel de 221,7 K€, au titre du budget de fonctionnement, qui provient principalement d'une sous utilisation des fonds affectés :
 - aux coûts du personnel (77K€)
 - aux voyages au titre de l'assistance technique et aux longs déplacements (45K€),
 - aux publications (4K€),
 - aux dépenses de télécommunications et aux fournitures de bureau (10K€),
 - aux dépenses de consultant (26K€) ainsi qu'aux investissements (28 K€).
- Un montant net de 16 K€ provient également de ressources d'opérations exceptionnelles (intérêts et opérations de change), et
- De l'excédent budgétaire annuel à hauteur de 1,5 K€ (se reporter à la page 12 de la présentation traditionnelle)

2. Les résultats de la dernière étude actuarielle externe annuelle indiquent que le passif social du FRI (Fonds de retraite interne) régresse de 2 959 946 Euros à 2 893 108 Euros en raison de la disparition d'un retraité. Les fonds du FRI sont investis dans des comptes à terme bancaires en Euros, lesquels ont généré des revenus d'un niveau inférieur à ceux des années précédentes, en raison de la baisse des taux d'intérêts globaux. Cependant, en raison de la baisse du passif social, la garantie de l'OHI est passée de 27.102 Euros à -122,138 Euros. En

conséquence, le règlement des pensions de l'année 2011 a pu continuer à s'opérer à partir des disponibilités du FRI.

3. Durant l'année 2011, le fonds pour le renforcement des capacités a continué à apporter un soutien direct aux activités de formation, ainsi qu'à la présence de participants à différents ateliers et séminaires techniques, conformément au programme sur le renforcement des capacités approuvé par les Etats membres. Ce fonds a également reçu, en 2011, un soutien externe de la part de la République de Corée à hauteur de 254,7 K€, qui sera employé afin d'apporter une réponse plus appropriée aux différentes demandes émises en matière de renforcement des capacités.

4. A la fin de l'année 2011, le taux d'encaissement des contributions s'élève à un peu plus de 89%, soit un résultat supérieur d'environ 2% à celui de l'année précédente. Trois Etats présentent des arriérés, comme en 2010.

5. Après consultation du comité restreint de la Commission des finances, le comité de direction propose que l'excédent d'exploitation de 237 619€ au titre de l'année 2011, puisse être utilisé de la façon suivante :

- 50 000€ en faveur du fonds pour le renforcement des capacités (CBF).
- 50 000€ en faveur du fonds pour les conférences, afin de compenser partiellement la réduction de 100 000 € approuvée par la XVIIIème Conférence Hydrographique Internationale en faveur d'un soutien budgétaire additionnel au Fonds pour le Renforcement des Capacités.
- 87 619€ à destination d'un « Fonds pour les Projets Spéciaux », qui serait établi 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. L'établissement de ce « Fonds pour les Projets Spéciaux » suit une discussion initiée par les Etats-Unis durant la réunion de la Commission des Finances qui a précédé la XVIIIème CHI, et des discussions ultérieures concernant les soutiens techniques et divers qui ont eu lieu pendant la CHI.

6. Pour permettre de réduire la garantie financière à long terme en faveur du FRI (fonds de retraite interne), il est également proposé d'allouer une somme de 50 000 € à la trésorerie dédiée à la couverture de l'engagement de retraite de ce fonds.

7. Le Comité de direction reste confiant quant à la situation financière de l'Organisation, ainsi qu'en sa capacité à assumer ses obligations, et il continue à suivre de près son activité financière.

INTERNATIONAL PRESENTATION

PRESENTATION INTERNATIONALE

International Hydrographic Organisation - Organisation Hydrographique Internationale

Index des états financiers
Index to the financial statements

as of 31st December 2011 - au 31 décembre 2011

Pages

1	Compared global Income & Expenditure Charges et revenus comparés
2	Compared Balance sheets - Bilans comparés
3	Cash-flow statement - Etat des flux financiers
4 - 8	Notes to the financial statements Notes relatives aux états financiers
9	Detailed compared Income & Expenditure Détail des revenus et charges comparés
10	Schedule I : Detail of overdue contributions Détail des contributions échues
11	Schedule II : Creditors - Crédoiteurs
12	Schedule III : Budget report - Exécution budgétaire

International Hydrographic Organisation - Organisation Hydrographique Internationale
Compared Global Income and Expenditure
Charges et revenus comparés
as of 31st December 2011 - au 31 décembre 2011
(expressed in thousands Euros - exprimé en milliers d'Euros)

	2011	2010
<i>Revenus - Income</i>	2 888	2 881
<i>Charges opérationnelles - Operating costs</i>	-2 548	-2 428
Résultat opérationnel - Operating surplus	340	453
<i>Intérêts reçus - Interest receivable</i>	47	29
<i>Équipement de bureau - Office equipment</i>	-33	-34
<i>Opérations de change - Financial operations (currency exchange)</i>	0	8
<i>Dotations aux fonds dédiés - Transfer to dedicated funds</i>	-116	-136
Résultat annuel - Surplus for the year	Euros 238	320

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

	Capitaux permanents de l'OHI	Revaluation Reserve	Autres réserves (note 9)	Total
Montants en début d'année	2 645		1 634	4 279
Résultat de l'année - Surplus for the year	238	-	-	238
<u>Evolution des fonds dédiés - Evolution of dedicated funds:</u>				
- Dépensé à partir des fonds - Spent from dedicated funds	-	-	147	147
- Fonds de rénovation - Renovation fund		-	-	
- Fonds de déménagement des directeurs - Removal fund	-50	-	-	-50
- Fonds de conférence - Conference fund	-50	-	-	-50
- Fonds de Renforcement des Capacités - CB fund		-	-	
<u>Mouvements dans l'année - Movement in the year (provisions) :</u>				
- Reprise de provision Etats membres - Cancellation provision Member State				
- Variation provision du FRI - Changes in IRF requirements	-29	-	-	-29
- Transfert au capital de la réserve de réévaluation - Transfer to the capital of the Revaluation Reserve (of physical assets)	-		-	
- Variation du fond de réserve - Allocation to Emergency Reserve Fund	1	-	-	1
Montants en fin d'année	2 755	0,00	1 781	4 536

International Hydrographic Organisation - Organisation Hydrographique Internationale

Compared Balance Sheet

Bilans comparés

as of 31st December 2011 - au 31 décembre 2011

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

	<i>Notes</i>	<i>2011</i>	<i>2010</i>
Immobilisations - Fixed asset			
<i>Valeur nette des immobilisations - Net Tangible assets</i>	4	56	61
<i>Investissements financiers - Financial Investments</i>	5	0	0
Actif circulant - Current assets			
<i>Débiteurs - Debtors</i>	6	399	518
<i>Cash at bank & in hand :</i>			
<i>Disponibilités bancaires du BHI</i>	11	4 766	4 571
		<hr/>	<hr/>
		5 165	5 089
<i>Creditors - amounts falling due within 1 year</i>			
<i>Créditeurs - montant à moins d'1 an</i>	7	-686	-871
		<hr/>	<hr/>
Fond de roulement - Working capital		4 479	4 218
<i>Disponibilités bancaires du FRI</i>	8	3 458	3 380
Provision pour les retraites		<hr/>	<hr/>
Provision for retirement fund		-3 458	-3 380
<i>Actif net - Net assets</i>		Euros <hr/>	Euros <hr/>
		0	0
		<hr/>	<hr/>
		Euros <u>4 536</u>	Euros <u>4 278</u>
Réserves - Reserves			
<i>Capitaux permanents de l'OHI - Accumulated surplus</i>		2 755	2 644
<i>Autres réserves - Other reserves</i>	9-10	1 781	1 634
		<hr/>	<hr/>
		Euros <u>4 536</u>	Euros <u>4 278</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale

Cash Flow Statement

Etat de flux financiers

as of 31st December 2011 - au 31 décembre 2011

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

	<i>2011</i>	<i>2010</i>
Cash Flow opérationnel - from operating activities		
Résultat opérationnel de l'année - Surplus for the year	238	320
Adjustments for :		
Dépréciation des immobilisations - Depreciation	10	9
Cession d'immobilisations - Sale of fixed assets	0	0
Provision du FRI - Retirement fund provision	0	0
Variation des réserves - Reserve movements	0	0
Intérêts bancaires - Bank interest	-36	-15
Charges financières - Interest expense	<u>0</u>	<u>0</u>
	<u>-26</u>	<u>-6</u>
Surplus before working capital changes	212	314
Variation des débiteurs - Increase in trade and other receivables	119	66
Variation des créditeurs - Increase in trade payables	<u>-184</u>	<u>-246</u>
	<u>-65</u>	<u>-179</u>
Flux financier opérationnel - Cash generated from operations	147	135
Intérêts réglés - Interest paid	0	0
Variation du Fonds de retraite - Retirement fund adjustment	<u>-67</u>	<u>-177</u>
	<u>-67</u>	<u>-177</u>
<i>Flux financier opérationnel net - Net cash from operating activities</i>	81	-42
Flux financier des investissements		
Cash flows from investing activities		
Achats d'immobilisations - Purchase of fixed assets	-6	-19
Cessions d'immobilisations - Sale of fixed assets	0	0
Intérêts reçus - Interest received	<u>36</u>	<u>15</u>
	<u>30</u>	<u>-4</u>
<i>Flux net des opérations d'investissement</i>		
Net cash movement in investing activities	30	-4
Total des flux financiers - Net increase in cash	111	-46
Disponibilités au 1er janvier de l'année		
Cash at 1st January of the year	<u>8 130</u>	<u>8 176</u>
Disponibilités au 31 décembre de l'année		
Cash at 31st December of the year	Euros <u><u>8 241</u></u>	Euros <u><u>8 130</u></u>

International Hydrographic Organisation - Organisation Hydrographique Internationale

Notes to the Financial Statements

Notes relatives aux états financiers

as of 31st December 2011 - au 31 décembre 2011

(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).

(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). A 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 (voire 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

A 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 start 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

2011

2010

Charges de personnel - Personnel costs :

Comité de direction - Directing Committee	438	423
Salaires du personnel - Salaries to Staff Members	1 172	1 122
Cotisations aux régimes de retraite - Payment to retirement funds	325	313
Primes d'assurance - Medical insurance costs	77	79
Allocations au personnel - Allowances	14	17
Autres charges de personnel - Other staff expenses	27	22
Personnel temporaire - Temporary staff & secondment	0	0
Formation - Training	2	0
Euros	<u>2 055</u>	<u>1 976</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 - Directing Committee	3	3
Personnel de cat. A - Category A staff	5	5
Personnel des cat B & C - Support Staff (B & C)	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

	Mobilier & Instruments	Biblio- thèque	Total
Valeurs d'acquisition - Cost			
Au 1er janvier de l'année - At 1st January 2011	207	37	244
Acquisitions de l'année - Purchase for the year	6	0	6
Au 31 décembre de l'année - At 31st December 2011	<u>213</u>	<u>37</u>	<u>250</u>
Amortissements - Depreciation			
Au 1er janvier de l'année - At 1st January 2011	-183	0	-183
Amortissements de l'année - Depreciations for the year	-10	0	-10
Au 31 décembre de l'année - At 31st December 2011	<u>-194</u>	<u>0</u>	<u>-194</u>
Valeur nette - Net book value			
Au 31 décembre de l'année n-1 - At 31st December of previous year	Euros 24	37	61
Au 31 décembre de l'année n - At 31st December of current year	Euros <u>20</u>	<u>37</u>	<u>56</u>

5 Placements financiers - I.H.O Financial Investments

Sicav de Trésorerie - Cash investments	675
Autres placements - Any other holdings	0
Euros	<u>675</u>

6 Débiteurs - Debtors

	2011	2010
Contributions restant dues (nettes de provision) Overdue contributions less provision	Schedule 1 315	446
TVA récupérable - VAT recoverable	44	39
Avances au personnel et charges constatées d'avance <i>Prepayments and Staff advances</i>	40	33
Euros	<u>399</u>	<u>518</u>

7 Crédeurs - Creditors

	2011	2010
Contributions reçues en avance - Prepaid contributions	Schedule 2 607	694
Garantie au FRI - Guaranty to the IRF	-122	27
Crédeurs et charges à payer - Creditors and accruals	Schedule 2 201	150
Euros	<u>686</u>	<u>870</u>

<u>8 Engagements pour la retraite - Pension Commitments</u>	2011	2010
- Dépôts à terme du FRI - IRF Bank deposits	3 015	2 933
- Disponibilités du FRI - CMB Bank deposits (*)	565	420
	Euros <u>3 580</u>	<u>3 353</u>
- Garantie du BHI - IHB Guaranty	-122	27
- Intérêts à recevoir - Interests to be received	0	0
- Estimation de l'engagement de retraite du personnel Estimated net liabilities to Staff Members (FRI + CMB)	Euros <u>3 458</u>	<u>3 380</u>

(*) The premium corresponding to the fourth quarter has been paid in January 2012

(*) La cotisation du 4ème trimestre a été payée en janvier 2012

<u>9 Fonds dédiés (pour des opérations ultérieures)</u>	2011	2010
<u>Dedicated funds for future operations</u>		
- Organisation de conférences - Conference organisation	468	374
- Changement de directeurs - Directors' relocation	405	373
- Fonds d'impression - Printing equipment fund	74	74
- Fonds de rénovation - Renovation fund	92	89
- Fonds de renforcement des capacités - Capacity Building Fund	399	394
- Fonds de la GEBCO - Gebco Fund	48	41
- Fonds de bibliothèque ECDIS - Presentation Library fund	48	39
- Fonds Ablos - Ablos fund	15	17

10 Réserves - Reserves

- Fonds de réserve d'urgence - Emergency Reserve Fund	232	233
	Euros <u>1 781</u>	<u>1 634</u>

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

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	4 766	4 571
Moins - Less		
- Contributions de l'année suivante - Advanced contributions	-607	-694
- Valeur des fonds dédiés - Dedicated funds	-1 549	-1 401
	Euros <u>2 610</u>	<u>2 476</u>
- Garantie en faveur du FRI - Guaranty to the IRF	122	-27
Net available Cash i.e. - Trésorerie disponible	Euros <u>2 733</u>	<u>2 449</u>
<u>51 semaines de fonctionnement</u>		<u>46 weeks of operations</u>

Total du budget de l'année suivante (2012) - Total budget for 2012 :

2 785 (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) :

-696

Art.18 Operating Cash Reserve (3 months) :

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

-232

Art.19 Emergency Reserve Fund (1 month) :

Euros 1 804

Excédent de trésorerie disponible

12 Positions financières en devises - Foreign Exchange Holdings

2011

2010

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

9

32

- Positions en GBP - GBP Holdings

8

8

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

These holding 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

Personne visée : M. BAEK SOO KIM, 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. BAEK SOO KIM, 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

International Hydrographic Organisation - Organisation Hydrographique Internationale

Détail des revenus et charges comparés

Detailed compared Income and Expenditure

as of 31st December 2011 - au 31 décembre 2011

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

	<i>2011</i>	<i>2010</i>
Revenus - Income		
<i>Contributions des Etats Membres - from Member States</i>	2 721	2 717
<i>Imposition interne - Internal tax</i>	161	156
<i>Ventes de publications - Sales of publications</i>	0,1	0,3
<i>Subvention GEBCO - GEBCO Grant</i>	0	0
<i>Revenus exceptionnels - Exceptional income</i>	6	8
	<hr/>	<hr/>
	2 888	2 881
 Revenus financiers - Interest received		
<i>Intérêts des placements - bank interest</i>	36	15
<i>Profit sur avoirs monétaires - Profit on monetary funds</i>	10	4
<i>Intérêts sur contributions échues - Interest on overdue contributions</i>	1	10
	<hr/>	<hr/>
	47	29
 Charges opérationnelles - Operating costs		
<i>Charges de personnel - Personnel costs</i>	2 125	1 976
<i>Déplacements - Long Distance Travel</i>	185	231
<i>Entretien des locaux & équipements - Maintenance</i>	95	99
<i>Poste et télécommunications - Postage, telephone and facimile</i>	38	35
<i>Assistance technique - Technical assistance</i>	44	34
<i>Consultants - Consultancy</i>	12	7
<i>Autres publications - Other publications</i>	1	3
<i>Revue de l'OHI - I.H Review</i>	10	10
<i>Autres coûts opérationnels - Other operating costs</i>	12	13
<i>Fournitures de bureau - Office stationery</i>	9	7
<i>Relations publiques - Public relations</i>	15	10
<i>Charges exceptionnelles - Exceptional cost</i>	2	3
	<hr/>	<hr/>
	-2 548	-2 428
 Office equipment		
<i>Amortissement des immobilisations - Depreciation</i>	10	9
<i>Autres achats - Other purchase and repairs</i>	23	25
	<hr/>	<hr/>
	-33	-34
 Charges financières - Financial costs		
<i>Gain sur opérations de change - Gain on exchange operations</i>	0	-8
<i>Créances douteuses - Bad debts</i>	0	0
	<hr/>	<hr/>
	0	8
 Dotations aux fonds dédiés - Allocation to dedicated funds	-116	-136
 Résultat net annuel - Surplus for the year	Euros <u>238</u>	Euros <u>320</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale
Contributions échues - Overdue Contributions
as of 31st December 2011 - au 31 décembre 2011
(expressed in thousands Euros - exprimé en milliers d'Euros)

	2011	2010	2009	2008	Interest	Total
Belgium - Belgique	48					48
Croatia - Croatie	24					24
D.P.R. of Korea - Rép Démocratique de Corée	20					20
Ecuador - Equateur	6					6
Greece - Grèce	107					107
Iceland - Islande		12				12
Italy - Italie	17					17
Jamaica - Jamaïque	8					8
Mozambique - Mozambique	5					5
Oman Sultanate - Sultanat d'Oman	8	3				11
Papua New Guinea - Papouasie Nouvelle Guinée	12					12
Peru - Pérou	16					16
Serbia - Serbie	8	8			1,0	17
Sri Lanka	12					12
	0					0
	291	23	0	0	1,0	315

<i>Suspended IHO Member States</i>	Outstanding Contributions	Depreciations	Interests due	Balance
<i>Etats Membres de l'OHI suspendus</i>	Contributions arriérées	Dépréciations	Intérêts dus	Solde
Dominican Republic - République Dominicaine	6,3	-7,1	0,8	0,0
D.P.o f 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 2011 - au 31 décembre 2011

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

<u>Contributions reçues d'avance</u>	<i>Reçues en 2011 pour des prochaines contributions</i>	<i>Reçues en 2010 pour des prochaines contributions</i>
<i>Contributions received in advance</i>	<i>Received in 2011 for future contributions</i>	<i>Received in 2010 for future contributions</i>
Australia - Australie	36	36
Bangladesh	0	20
Brésil - Brazil	44	0
Cyprus - Chypre	92	92
Egypt - Egypte	24	0
Estonia - Estonie	16	16
Finland - Finlande	0	32
France	60	60
Iceland - Islande	12	0
Ireland - Irlande	12	12
Indonesia - Indonésie	0	44
Kuwait - Koweït	35	0
Latvia - Lettonie	16	16
Mexico - Mexique	28	28
Morocco - Maroc	0	32
Netherlands - Pays-Bas	56	56
New Zealand - Nouvelle Zélande	12	0
Pakistan	16	16
Poland - Pologne	12	12
Russia - Russie	11	13
Singapore - Singapour	0	108
South Africa - Afrique du Sud	16	0
Surinam - Suriname	8	8
Sweden - Suède	0	48
Thailand - Thaïlande	44	44
Turkey - Turquie	56	0
Venezuela	1	1
	Euros <u>607</u>	<u>694</u>

Créditeurs et charges à payer - Creditors and accruals

Plan de pensions - Pensions plan payments	115	74
Charges à payer - Accruals	64	73
Autres créditeurs - Other	23	2
	Euros <u>201</u>	<u>149</u>

International Hydrographic Organisation - Organisation Hydrographique Internationale
Exécution budgétaire - Budget Report
as of 31st December 2011 - au 31 décembre 2011
(expressed in thousands Euros - exprimé en milliers d'Euros)

	2011		
	Budget	Actual - Réel	Variance
Revenus - Income			
<i>Contributions des Etats Membres - Contributions from Members States</i>	2 721	2 721	0
<i>Imposition interne - Internal tax</i>	163	161	2
<i>Ventes de publications - Sales of publications</i>	2	0	2
<i>Intérêts bancaires - Bank interests</i>	25	46	-21
<i>Intérêts sur contributions échues - interests on overdue contributions</i>	0	1	-1
<i>Autres revenus (Subv GEBCO) - Other income (Gebco grant)</i>	8	0	8
	2 919	2 928	-10
Charges opérationnelles - Operating costs			
<i>Charges de personnel - Personnel costs</i>	2 202	2 125	77
<i>Déplacements - Long Distance Travel</i>	230	185	45
<i>Entretien - Maintenance</i>	101	95	6
<i>Postes et télécommunications - Postage, telephone and facsimile</i>	43	38	5
<i>Assistance technique - Technical assistance</i>	45	44	1
<i>Publications</i>	14	1	13
<i>Revue OHI - I.H Review</i>	12	10	2
<i>Consultants - Consultancy</i>	43	12	31
<i>Autres coûts opérationnels - Other operating costs</i>	14	12	2
<i>Fournitures de bureau - Office stationery</i>	8	9	-1
<i>Relations publiques - Public relations</i>	21	15	6
<i>Charges exceptionnelles - Exceptional costs</i>	1	2	-1
	2 734	2 548	186
Dépenses d'investissement - Capital costs expended			
<i>Amortissement - Depreciation</i>	20	10	10
<i>Autres achats - Other purchase and repairs</i>	47	23	24
	67	33	34
Charges financières - Financial costs	0	0	0
Fonds de retraite - Retirement Fund	0	0	0
	118	347	-230

TRADITIONAL PRESENTATION

PRESENTATION TRADITIONNELLE

Index au rapport financier 2011
Présentation Traditionnelle

Page :

- | | |
|---------------|--|
| 1 | Balance sheet 2011 - 2010
<i>Bilans comparatifs 2010 - 2009</i> |
| 2 | Budgetary Statement of Income
<i>Tableau budgétaire des revenus</i> |
| 3 - 4 | Budgetary Statement of Expenditure
<i>Tableau budgétaire des dépenses</i> |
| 5 | Extraordinary Income and Expenditure / Gains and losses on exchange operations
<i>Revenus et dépenses extraordinaires / Pertes et profits sur opérations de change</i> |
| 6-7 | Statement of current year Contributions
<i>Etat des contributions de l'année</i> |
| 8 | Overall Statement of Contributions
<i>Etat récapitulatif des contributions</i> |
| 9 - 11 | Distribution of Investments and Cash
<i>Tableaux de trésorerie</i> |
| 12 | Total Operating Statements
<i>Compte de résultat</i> |
| 13-15 | Various Funds of the IHB
<i>Fonds du BHI</i> |
| 16 | Reviewed Capacity Building Work Program
<i>Programme révisé des dépenses liées au Fonds de Renforcement des Capacités</i> |

BILANS COMPARÉS (au 31 Décembre 2011 et 2010)

ASSETS - ACTIF	EUR 2011	EUR 2010	LIABILITIES - PASSIF	EUR 2011	EUR 2010
I. TRESORERIE DES FONDS DE RETRAITE			I. ENGAGEMENTS DES FONDS DE RETRAITE		
. Trésorerie disponible (FRI)	3 015 246,38	2 932 843,50	. Fond de Retraite Interne (FRI)	987 896,90	1 084 174,86
. Garantie long terme du BHI (FRI)	3 015 246,38	2 932 843,50	. Provision pour couvrir les pensions du personnel (retraités et actifs relevant du FRI)	1 905 211,00	1 875 771,00
	-122 138,48	27 102,36			
	2 893 107,90	2 959 945,86	. Montant découlant de l'étude actuarielle		
. Trésorerie placée (Plans externes)	564 909,24	420 491,11	. Plans de pensions externes (ex ABN Amro)	604 409,23	452 112,64
. Prime trimestrielle à régler (Plans externes)	0,00	0,00			
II. DEBITEURS DIVERS			III. CRÉDITEURS DIVERS		
Prestations effectuées d'avance	1 993,83	803,09	Plans de pension personnalisés (NSM)	29 322,27	0,00
Factures non encaissées	28 217,66	25 810,82	Plans de pensions externes à payer	0,00	0,00
Avances au personnel	0,00	975,13	Retraite complémentaire A.M.R.R	45 713,54	42 787,13
Demande de remboursement de TVA	44 339,03	38 591,10	Charges à payer (factures, télécommunications, etc.)	63 957,23	73 293,65
Intérêts sur placements à recevoir	9 401,93	5 771,60	Salaires et notes de frais	3 224,97	0,00
	83 952,45	71 951,74	Provision pour contributions (EM suspendus)	16 982,59	16 982,59
			Créditeurs divers	0,00	1 897,04
III. CONTRIBUTIONS			Montants reçus pour la prochaine Conférence (stands)	19 509,09	0,00
Contributions pour l'année en cours	291 451,35	345 448,87	Garantie en faveur du FRI	-122 138,48	27 102,36
Contributions échues (années précédentes)	22 829,58	87 592,34			
Contributions (Etats membres suspendus)	15 244,78	15 244,78	III. FONDS DEBIES		
Intérêts restant dus sur contributions échues	3 042,95	14 936,60	Fonds d'organisation des conférences	467 524,97	373 810,68
	332 568,66	463 222,59	Fonds de démantèlement des directeurs et PA	404 921,82	373 230,15
			Fond d'impression des publications	73 792,73	73 792,73
IV. MOBILIER & EQUIPEMENTS			Fonds de rénovation	92 466,46	89 466,46
Amortissement des immobilisations	213 140,30	207 122,14	Fonds de renforcement des capacités	398 657,99	393 730,43
	-193 547,48	-183 160,50			
	56 256,81	60 625,63	Fonds pour la GEBCO	48 456,88	41 243,86
			Fonds "Presentation Library"	48 319,00	38 619,00
V. BIBLIOTHEQUE	36 663,99	36 663,99	Fonds de conférences Ablos	14 842,11	17 026,72
	56 256,81	60 625,63			
VI. TRESORERIE DISPONIBLE			IV. CONTRIBUTIONS RECUES EN AVANCE		
IHB - Comptes courants bancaires	298 224,23	473 444,52	Reçues en avance ou en excédent	607 226,40	693 435,74
IHB - Comptes de dépôt & placement monétaire	4 464 703,44	4 090 219,66			
Espèces en caisse	3 455,11	7 078,52	V. CAPITAUX PERMANENTS		
	4 766 382,78	4 570 742,70	Fond de réserve d'urgence	232 067,16	233 485,58
			Provisions pour risques (FRI + MS)	-1 922 193,59	-1 892 753,59
			Résultat opérationnel net de l'année en cours	237 818,55	319 637,18
			Capitaux nets permanents	4 439 189,02	4 218 133,42
	8 697 177,84	8 546 979,63			
				2 986 881,14	2 878 502,59
				8 697 177,84	8 546 979,63

I. INCOME - EUR

BUDGETARY STATEMENT FOR 2011
TABLEAU BUDGETAIRE POUR 2011

I. 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 (683 shares) Contributions de l'année (683 parts)		2 721 400,00			2 721 400,00	2 429 948,49 291 451,51	89,29% 10,71%		
B. Sales of publications Ventes de publications		1 500,00			1 500,00	84,92	5,66%	0,00	1 415,08
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		25 000,00			25 000,00	45 451,55	181,81%	20 451,55	0,00
E. Extraordinary income Subvention GEBCO reçue de Monaco		8 100,00			8 100,00	0,00	0,00%	0,00	8 100,00
F. Internal Tax Taxe interne		163 460,00			163 460,00	160 960,56	98,47%	0,00	2 499,44
Total :		2 919 460,00	0,00	0,00	2 919 460,00	2 927 897,03	100,29%	20 451,55	12 014,52
Contributions due for the previous years / Contributions précédentes perçues					433 041,21	402 242,67	93%	0,00	30 798,54

* **Total received in 2011 for all contributions :**
2 832 191,16 €

Total reçu en 2011 pour l'ensemble des contributions

** *Upon reception, money has been transferred to the Gebco fund.
Le montant reçu a été transféré au Fonds Gebco.*

BUREAU HYDROGRAPHIQUE INTERNATIONAL

II. EXPENDITURE - Year 2011

(EURO)

II. DEPENSES - Année 2011

(EURO)

CHAPTERS AND ITEMS CHAPITRES & ARTICLES	Amounts originally approved Montants prévus à l'origine	Modifications to original provisions Increase / Modifications aux prévisions originales En plus / En moins		Final provisions Prévisions finales	Expenditure achieved Dépenses payées		Estimated surplus or unallocated or unallocated Excédent/Deficit
		100,00 %					
I - PERSONNEL COSTS							
DEPENSES DE PERSONNEL							
a) Salaries - Directing Committee - Salaires du comité de direction	459 000,00			459 000,00	438 256,65	95,5	20 743,35
b) Salaries - Category A - Salaires personnel de catégorie A	589 500,00			589 500,00	577 333,69	97,9	12 166,31
- Translators - Salaires des traducteurs	134 700,00			134 700,00	133 043,77	98,8	1 656,23
- General Services (B & C) - Salaires des personnels (Cat B & C)	451 400,00	6 300,00		445 100,00	423 700,52	95,2	21 399,48
- Overtime - Heures supplémentaires	6 000,00	1 200,00		4 800,00	4 764,86	99,3	35,14
c) Annual Bonus - Gratifications	37 617,00			37 617,00	33 151,62	88,1	4 465,38
d) Payment to retirement schemes - Cotisations aux régimes de retraite	330 890,00			330 890,00	325 453,05	98,4	5 436,95
e) Insurances based on wages - Primes d'assurances assises sur les salaires	15 425,00			15 425,00	13 810,04	89,5	1 614,96
f) Medical (GAN premiums) - Primes d'assurance du GAN	69 638,00	1 200,00		68 438,00	62 710,91	91,6	5 727,09
g) Family Allowances - Allocations familiales	11 500,00	4 900,00		6 600,00	4 861,14	73,7	1 738,86
h) Education Grants - Allocations pour frais d'études	11 500,00	7 400,00		4 100,00	740,54	18,1	3 359,46
i) Medical claims paid - Dépenses médicales réglées	70 000,00	48 000,00		118 000,00	121 908,27	103,3	-3 908,27
Medical claims - refunds from GAN - Remboursements médicaux du GAN	(15 000,00)	-12 000,00		(27 000,00)	-52 389,10	194,0	25 389,10
j) Home rental - Allocations de logement	0,00	0,00		0,00	0,00	-	0,00
k) Home Leave - Congés dans les foyers	9 000,00	2 500,00		11 500,00	8 612,41	74,9	2 887,59
n) Miscellaneous Personnel Expenses - Autres dépenses de personnel	5 100,00	10 500,00	-5 000,00	20 600,00	27 257,06	132,3	-6 657,06
o) Salaries - Temporary staff - Personnel temporaire	6 250,00	5 000,00		1 250,00	0,00	0,0	1 250,00
p) Training - Formation	10 000,00	7 000,00		3 000,00	2 067,45	68,9	932,55
I. TOTAL CHAPTER - Total du chapitre	2 202 520,00	49 000,00	28 000,00	2 223 520,00	2 125 282,88	95,6	98 237,12
III - CURRENT OPERATING COSTS							
DEPENSES DE FONCTIONNEMENT							
<i>(Maintenance, communications, etc...)</i>							
a) Maintenance of building - Entretien des locaux	59 600,00	13 000,00		46 600,00	39 242,44	84,2	7 357,56
Multirisik insurance - Assurance multi-risques	2 200,00	300		2 500,00	2 493,93	99,8	6,07
Maintenance of IT equipments - Entretien de l'équipement informatique	39 200,00	13 000,00		52 200,00	53 256,25	102,0	-1 056,25
b) Office Stationery - Fournitures de bureau	8 500,00	6 000,00		14 500,00	8 953,74	61,7	5 546,26
c) Postage, telephone, telex, telefax - Télécommunications	43 000,00	1 000,00		42 000,00	37 508,66	89,3	4 491,34
d) Local Travel - Déplacements locaux	3 300,00			3 300,00	2 719,49	82,4	580,51
e) Bank Charges - Frais bancaires	6 000,00			6 000,00	4 577,65	76,3	1 422,35
f) Consultancy Expenses (others than auditors) - Dépenses de consultants	43 000,00	5 000,00		38 000,00	11 750,00	30,9	26 250,00
g) Auditors fees - Honoraires du commissaire aux comptes	4 300,00	100,00		4 400,00	4 400,00	100,0	0,00
h) Public Relations - Charges de relations publiques	21 000,00	6 600,00		14 400,00	14 915,58	103,6	-515,58
i) Miscellaneous Operating Expenses - Autres dépenses de fonctionnement	1 000,00	200,00		1 200,00	1 117,61	93,1	82,39

CHAPTERS AND ITEMS CHAPITRES & ARTICLES	Amounts originally approved Montants prévus à l'origine	Modifications to original provisions Increase / Modifications aux prévisions originales		Final provisions Prévisions finales	Expenditure achieved Dépenses payées		Estimated surplus or unallocated Excédent/Deficit
		Increase / Modifications aux prévisions originales	Decrease / Modifications aux prévisions originales		100,00 %	%	
<i>(Travel costs)</i>							
j) Capacity Building (Prog.2 only) - Déplacements (programme 2 - Renf. Capacités)	45 000,00			45 000,00	44 456,61	98,8	543,39
k) Long Distance Travel (all program except 2) - Déplacements internationaux	230 000,00			230 000,00	185 288,62	80,6	44 711,38
<i>(Publications costs)</i>							
l) I. H. Review - Revue hydrographique	12 000,00			12 000,00	10 000,00	83,3	2 000,00
m) Other publications - Autres publications	13 935,00		9 000,00	4 935,00	1 440,00	29,2	3 495,00
	532 035,00	19 600,00	34 600,00	517 035,00	422 120,58	81,6	94 914,42
III - TOTAL CHAPTER - Total du chapitre							
III - CAPITAL EXPENDITURE							
DEPENSES DE CAPITAL							
a) Purchase of IT equipments - Achats d'équipements informatiques	35 000,00			35 000,00	14 914,12	42,6	20 085,88
b) Purchase of furniture & other equipments - Autres achats (mobilier, etc ...)	11 000,00			11 000,00	6 476,92	58,9	4 523,08
c) Depreciation of fixed assets - Amortissement des actifs immobilisés	20 000,00		6 000,00	14 000,00	10 386,99	74,2	3 613,01
d) Purchase Publications - Achats de publications	1 273,00			1 273,00	982,72	77,2	290,28
	67 273,00	0,00	6 000,00	61 273,00	32 760,75	53,5	28 512,25
III. TOTAL CHAPTER - Total du chapitre	2 801 828,00	68 600,00	68 600,00	2 801 828,00	2 580 164,21	92,1	221 663,79
ANNUAL OPERATING COSTS I + II + III							

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	8 100,00	41 243,86	8 100,00	57 443,86	8 986,98	15,6
PRINTING FUND - Fonds d'impression des publications	0,00	73 792,73	0,00	73 792,73	0,00	0,0
RENOVATION FUND - Fonds de rénovation	3 000,00	89 466,46	0,00	92 466,46	0,00	0,0
I.H. CONFERENCE FUND - Fonds pour les Conférences	30 000,00	373 810,68	69 482,98	473 293,66	5 768,69	1,22
RELOCATION OF DIRECTORS FUND - Fonds pour le déménagement des directeurs	20 000,00	373 230,15	50 000,00	443 230,15	38 308,33	8,6
CAPACITY BUILDING FUND / IHO SUPPORT - CBF sur ressources budget OHI	55 000,00	176 283,43	0,00	231 283,43	186 131,77	80,5
CAPACITY BUILDING FUND / EXTERNAL SUPPORT - Ressources externes	0,00	220 004,59	257 592,24	477 596,83	124 090,50	26,0
TOTAL	116 100,00	1 347 831,90	385 175,22	1 849 107,12	363 286,27	1 485 820,85

Including balance brought forward on 1st January 2011 - Y compris solde reporté au 1er janvier de l'année 2011.

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>	1 305,14	
B. Other extraordinary income/expenditure <i>Autres revenus/dépenses exceptionnelles</i>	1 805,37	1 220,31
C. Administration fees from Japan CBC <i>Frais administratifs du projet CBC / Japon</i>	3 979,92	
	7 090,43	1 220,31

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>	329,54	
B. Losses on exchange : <i>Pertes sur opération de change</i>		13,77
<u>Valuation of holdings - Valorisation des avoirs</u>		
C. Gains on valuation : <i>Profits d'évaluation</i>	10 276,53	
D. Losses of valuation : <i>Pertes d'évaluation</i>		0,00
	10 606,07	13,77
Net gain on exchange operations : <i>Gain net sur opérations de change :</i>	0,00	10 592,30
	10 606,07	10 606,07

STATEMENT OF CURRENT YEAR CONTRIBUTIONS (Euros)

As of 30-Dec-11

ETAT DES CONTRIBUTIONS DE L'ANNEE (Euros)

A la date du 30 décembre 2011

States - Etats	%	Contributions	Received Reçus	Remaining due Restant dues
Contributions for the year :	2011	2 721 399,84	2 429 948,49	291 451,35
<i>Contributions de l'année en cours</i>				
ALGERIA Algérie	0,878	23 906,88	23 906,88	0,00
ARGENTINA Argentine	0,878	23 906,88	23 906,88	0,00
AUSTRALIA Australie	1,318	35 860,32	35 860,32	0,00
BAHREIN Bahrein	0,732	19 922,40	19 922,40	0,00
BANGLADESH Bengladesh	0,732	19 922,40	19 922,40	0,00
BELGIUM Belgique	1,757	47 813,76		47 813,76
BRAZIL Brésil	1,611	43 829,28	43 829,28	0,00
CANAD A Canada	1,757	47 813,76	47 813,76	0,00
CHILE Chili	0,878	23 906,88	23 906,88	0,00
CHINA Chine	3,953	107 580,96	107 580,96	0,00
COLOMBIA Colombie	0,439	11 953,44	11 953,44	0,00
CROATIA Croatie	0,878	23 906,88		23 906,88
CUBA Cuba	0,293	7 968,96	7 968,96	0,00
CYPRUS Chypre	3,367	91 643,04	91 643,04	0,00
DENMARK Danemark	2,343	63 751,68	63 751,68	0,00
D.P.R OF KOREA Rép. Démocratique de Corée	0,732	19 922,40		19 922,40
ECUADOR Equateur	0,732	19 922,40	13 463,77	6 458,63
EGYPT Egypte	0,878	23 906,88	23 906,88	0,00
ESTONIA Estonie	0,586	15 937,92	15 937,92	0,00
FEDERATION OF RUSSIA Fédération de Russie	2,343	63 751,68	63 751,68	0,00
FIJI Iles Fidji	0,293	7 968,96	7 968,96	0,00
FINLAND Finlande	1,171	31 875,84	31 875,84	0,00
FRANCE France	2,196	59 767,20	59 767,20	0,00
GERMANY Allemagne	3,075	83 674,08	83 674,08	0,00
GREECE Grèce	3,953	107 580,96		107 580,96
GUATEMALA Guatemala	0,293	7 968,96	7 968,96	0,00
ICELAND Islande	0,439	11 953,44	11 953,44	0,00
INDIA Inde	2,928	79 689,60	79 689,60	0,00
INDONESIA Indonésie	1,611	43 829,28	43 829,28	0,00
ISL REP OF IRAN Islam, Répub. d'Iran	1,318	35 860,32	35 860,32	0,00
IRELAND Irlande	0,439	11 953,44	11 953,44	0,00
ITALY Italie	2,782	75 705,12	58 274,00	17 431,12
JAMAICA Jamaïque	0,293	7 968,96		7 968,96
JAPAN Japon	2,928	79 689,60	79 689,60	0,00
KUWEIT Koweït	1,318	35 860,32	35 860,32	0,00
LATVIA Lettonie	0,586	15 937,92	15 937,92	0,00
MALAYSIA Malaisie	1,903	51 798,24	51 798,24	0,00
MAURITIUS Maurice	0,439	11 953,44	11 953,44	0,00
MEXICO Mexique	1,025	27 891,36	27 891,36	0,00
MONACO Monaco ***	0,000			
MOROCCO Maroc	0,586	15 937,92	15 937,92	0,00
MOZAMBIQUE Mozambique	0,293	7 968,96	3 383,04	4 585,92
MYANMAR Myanmar	0,732	19 922,40	19 922,40	0,00
NETHERLANDS Pays-Bas	2,050	55 782,72	55 782,72	0,00
NEW ZEALAND Nouvelle Zélande	0,439	11 953,44	11 953,44	0,00
NIGERIA Nigeria	0,439	11 953,44	11 953,44	0,00
NORWAY Norvège	3,221	87 658,56	87 658,56	0,00
OMAN SULTANATE Sultanat d'Oman	0,293	7 968,96		7 968,96
PAKISTAN Pakistan	0,586	15 937,92	15 937,92	0,00

PAPUA NEW GUINEA	Papouasie Nouvelle Guinée	0,439	11 953,44		11 953,44
PERU	Pérou	0,586	15 937,92		15 937,92
PHILIPPINES	Philippines	1,903	51 798,24	51 798,24	0,00
POLAND	Pologne	0,439	11 953,44	11 953,44	0,00
PORTUGAL	Portugal	1,025	27 891,36	27 891,36	0,00
QATAR	Qatar	0,732	19 922,40	19 922,40	0,00
SOUTH AFRICA	Afrique du Sud	0,586	15 937,92	15 937,92	0,00
REPUBLIC OF KOREA	République de Corée	3,075	83 674,08	83 674,08	0,00
ROMANIA	Roumanie	0,586	15 937,92	15 937,92	0,00
SAUDI ARABIA	Arabie Saoudite	1,171	31 875,84	31 875,84	0,00
SERBIA	Serbie	0,293	7 968,96		7 968,96
SINGAPORE	Singapour	3,953	107 580,96	107 580,96	0,00
SLOVENIA	Slovénie	0,293	7 968,96	7 968,96	0,00
SPAIN	Espagne	1,464	39 844,80	39 844,80	0,00
SRI LANKA	Sri Lanka	0,439	11 953,44		11 953,44
SURINAME	Suriname	0,293	7 968,96	7 968,96	0,00
SWEDEN	Suède	1,757	47 813,76	47 813,76	0,00
SYRIA	Syrie	0,732	19 922,40	19 922,40	0,00
THAILAND	Thaïlande	1,611	43 829,28	43 829,28	0,00
TONGA	Iles Tonga	0,293	7 968,96	7 968,96	0,00
TRINIDAD & TOBAGO	Trinité & Tobago	0,293	7 968,96	7 968,96	0,00
TUNISIA	Tunisie	0,586	15 937,92	15 937,92	0,00
TURKEY	Turquie	2,050	55 782,72	55 782,72	0,00
UKRAINE	Ukraine	1,171	31 875,84	31 875,84	0,00
UNITED ARAB EMIRATES	Emirats Arabes Unis	0,878	23 906,88	23 906,88	0,00
UNITED KINGDOM	Royaume-Uni	3,953	107 580,96	107 580,96	0,00
UNITED STATES OF AMERICA	Etats Unis d'Amérique	3,660	99 612,00	99 612,00	0,00
URUGUAY	Uruguay	0,293	7 968,96	7 968,96	0,00
VENEZUELA	Venezuela	0,732	19 922,40	19 922,40	0,00
			2 721 399,84	2 429 948,49	291 451,35

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

OVERALL STATEMENT OF CONTRIBUTIONS (Euros)
as of 30-Dec-11

SITUATION RECAPITULATIVE DES CONTRIBUTIONS (Euros)
A la date du 30 décembre 2011

States - Etats			Year	Contribution due	Received in 2011	Outstanding contribution
<i>Contributions for the year :</i>				291 451,35 €		
Contributions de l'année			2011	2 721 399,84	2 429 948,49	291 451,35
<i>Contributions for the previous years :</i>						
Contributions échues des années précédentes						
Still outstanding Member States						
ICELAND	Islande		2010	11 953,44		11 953,44
OMAN SULTANATE	Sultanat d'Oman,		2010	2 907,18		2 907,18
SERBIA	Serbie		2010	7 968,96		7 968,96
		A		22 829,58	0,00	22 829,58
Member States having settled their dues during this year						
ECUADOR	Equateur	may-august 2011	2010	19 798,81	19 798,81	0,00
GREECE	Grèce	janv.-11	2010	107 580,96	107 580,96	0,00
IRAN (Islam. Rep of)	Rép Islam, d'Iran	janv.-11	2010	35 860,32	35 860,32	0,00
PAPUA NEW GUINEA	Pap, Nlle Guinée	janv.-11	2010	11 953,44	11 953,44	0,00
PHILIPPINES	Philippines	september 2011	2009	6 435,20	6 435,20	0,00
PHILIPPINES	Philippines	september 2011	2010	51 798,24	51 798,24	0,00
QATAR	Qatar	févr.-11	2010	19 922,40	19 922,40	0,00
SAUDI ARABIA	Arabie Saoudite	avr.-11	2007	1 467,54	1 467,54	0,00
SAUDI ARABIA	Arabie Saoudite	avr.-11	2009	31 875,84	31 875,84	0,00
SAUDI ARABIA	Arabie Saoudite	avr.-11	2010	31 875,84	31 875,84	0,00
SRI LANKA	Sri Lanka	mars-11	2010	11 953,44	11 953,44	0,00
TONGA	Tonga	september 2011	2010	7 968,96	7 968,96	0,00
United Arab Emirates	Emirats Arabes Uni	févr.-11	2008	23 906,88	23 906,88	0,00
United Arab Emirates	Emirats Arabes Uni	févr.-11	2009	23 906,88	23 906,88	0,00
United Arab Emirates	Emirats Arabes Uni	févr.-11	2010	23 906,88	23 906,88	0,00
		B		390 412,82	390 412,82	0,00
		A+B		413 242,40	390 412,82	22 829,58

<i>Suspended Member States :</i>						
<i>Etats membres suspendus</i>						
Dominican Republic	République Dominicaine		1981	3 049,70	0,00	3 049,70
Dominican Republic	République Dominicaine		1982	3 353,92	0,00	3 353,92
Dem, Rep, of Congo	Rép Démocr, du Congo		1981	3 809,66	0,00	3 809,66
Dem, Rep, of Congo	Rép Démocr, du Congo		1982	5 031,51	0,00	5 031,51
				15 244,78	0,00	15 244,78

DISTRIBUTION OF CASH BY CURRENCIES AS OF 1st JANUARY 2011 AND AS OF 31 DECEMBER 2011

REPARTITION DES AVOIRS FINANCIERS PAR DEVISES DU 1ER JANVIER 2011 AU 31 DECEMBRE 2011

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 2011 / Au 1er janv 2011	U.s. dollars	Pound Sterling	E.U.R	Equivalent in EUR
Rates in EUR - Taux de change en EURO	1,436900	0,891000	1,000000	
- US Dollars	32 273,67			22 460,62
- Sterling		8 448,27		9 481,78
- EUROS			4 536 524,95	4 536 524,95
	32 273,67	8 448,27	4 536 524,95	4 568 467,36

on 31 December 2011 / Au 31 Dec 2011	U.s. dollars	Pound Sterling	E.U.R	Equivalent in EUR
Rates in EUR - Taux de change en EURO	1,294850	0,837830	1,000000	
- US Dollars	8 982,07			6 936,76
- Sterling		8 189,04		9 774,11
- EUROS			4 264 288,29	4 264 288,29
	8 982,07	8 189,04	4 264 288,29	4 280 999,16

Valuation at / Valorisation au cours du :	U.s. dollars	Pound Sterling	E.U.R	Equivalent in EUR
31st December EUR rate / 31 décembre	6 936,76	9 774,11	4 264 288,29	
1st Jan. EUR rate / 1er janvier	6 251,01	9 190,84	4 264 288,29	
Gains on holdings - Profits de valorisation	685,76	583,27	0,00	1 269,02
Losses on holdings - Pertes de valorisation	0,00	0,00	0,00	0,00

RETIREMENT FUNDS ASSETS (In Euros)
TRESORERIE DES FONDS DE RETRAITE (En Euros)
 As of 31 December 2011 - Au 31 Décembre 2011

Designation	E.U.R	Maturity date	Current performance
CURRENT ACCOUNTS			
1. HSBC Republic			
Monte Carlo (c/a)	250 317,62		
2. CMB			
Monte Carlo (c/a)	44 928,76		

Total C/A :	295 246,38		
DEPOSIT ACCOUNTS			
1. HSBC Republic			
Monte Carlo (d/a) - at 6 months	1 500 000,00	18/06/12	0,58%
Monte Carlo (d/a) - at 6 months	1 000 000,00	30/06/12	0,43%
2. CMB			
Monte Carlo (d/a) - at 6 months	180 000,00	22/12/11 - 22/06/12	1,29%
Monte Carlo (d/a) - at 3 months	40 000,00	22/12/11 - 22/03/12	1,05%

Total D/A :	2 720 000,00		
TOTAL I.R.F. ASSETS :	3 015 246,38		
CMB			
Monte Carlo (d/a) - External Pension Plans (d/a)	564 909,24	05/01/12 - 05/04/12	0,93%
TOTAL RETIREMENT ACCOUNTS :	3 580 155,62		

CASH IN BANK AND ON HAND AS OF 31 DECEMBER 2011
TRESORERIE DISPONIBLE DE L'OHU AU 31 DECEMBRE 2011

Designation	Rate as of 31st december 2011	U.S. dollars 1,29485	Pound Sterling 0,8378	EURO 1,0000	Equivalent in EUR
CURRENT ACCOUNTS					
1. HSBC Republic					
Monte Carlo (c/a)		6 549,27	8 145,04	141 609,65	141 609,65 €
Monte Carlo (c/a)					5 057,94 €
Monte Carlo (c/a)					9 721,59 €
2. COMPAGNIE MONEGASQUE DE BANQUE					
Monte Carlo (c/a)				106 451,43	106 451,43 €
3. SAFRA BANK					
Monte Carlo (c/a)		6 549,27	8 145,04	35 383,62	35 383,62 €
<i>Total Current Account :</i>					
				248 061,08	298 224,23 €
DEPOSIT ACCOUNTS					
1. HSBC Republic					
Monte Carlo 30.12.11 - 30.03.12 0.38%				1 200 000,00	1 200 000,00 €
2. CMB					
CMB Monaco court terme - Quaterly performance : 0.93669%					
Monte Carlo 08.08.11 - 08.02.12 1.38%				675 573,20	675 573,20 €
Monte Carlo 08.08.11 - 08.02.12 1.38%				812 069,88	812 069,88 €
Monte Carlo 22.12.11 - 22.06.12 1.29% (Korea)				650 065,21	650 065,21 €
Monte Carlo 19.01.12 - 19.04.12 0.77%				320 000,00	320 000,00 €
3. SAFRA BANK					
Monte Carlo 09.12.11 - 08.02.12 1.15%		0,00	0,00	450 000,00	450 000,00 €
<i>Total Deposit Account :</i>					
				4 014 703,44	4 464 703,44 €
PETTY CASH					
- in U.S. Dollars		2 432,80	44,00		1 878,83 €
- in U.K. Pounds					52,52 €
- in Euros				1 523,77	1 523,77 €
<i>Total Petty Cash :</i>					
		2 432,80	44,00	1 523,77	3 455,11 €
TOTAL :					
	In EUR	\$8 982,07	£8 189,04	€ 4 264 288,29	4 766 382,78 €
		€ 6 936,76	€ 9 774,11	€ 4 264 288,29	4 280 999,16 €
TOTAL I.H.O. ASSETS (RETIREMENT) :					
					3 580 155,62 €
TOTAL GENERAL :					
					8 346 538,40 €

TOTAL OPERATING STATEMENTS
Compte de résultats

	Budgeted	Actual	Surplus	Deficit
Budget Income - Revenus				
Contributions	2 721 400,00	2 721 400,00	0,00	0,00
Interest - <i>Intérêts</i>	25 000,00	35 175,02		10 175,02
Other extra resources - <i>Autres ressources extraordinaires</i>	173 060,00	161 045,48		-12 014,52
Total income - <i>Revenu total</i>	2 919 460,00	2 917 620,50	0,00	-1 839,50
Result on income - Excédent de recettes			-1 839,50	(A)

	Budgeted	Actual	Surplus	Deficit
Budget Expenditure - Dépenses				
Staff expenditure - <i>Dépenses de personnel</i>	-2 202 520,00	-2 125 282,88	77 237,12	
Current operating expenses - <i>Dépenses de gestion courante</i>	-532 035,00	-422 120,58	109 914,42	
Capital expenditure - <i>Dépenses de capital</i>	-67 273,00	-32 760,75	34 512,25	
Allocation to funds - <i>Dotations aux fonds</i>	-116 100,00	-116 100,00	0,00	
Total expenditure - <i>Dépenses totales</i>	-2 917 928,00	-2 696 264,21	221 663,79	0,00
Result on expenditure - Budget non dépensé			221 663,79	(B)

Result before extraordinary operations 219 824,29 (A + B)
Résultat avant opérations exceptionnelles

Extraordinary operations - Opérations exceptionnelles				
Interest on contributions - <i>Intérêts sur contributions échues</i>			1 305,14	
Extraordinary items - <i>Autres opérations</i>			4 564,98	
Exchange operations - <i>Opérations de change</i>			10 606,07	-13,77
Total extraordinary operations - <i>Total des opérations except.</i>			16 476,19	-13,77
Result on extraordinary operations - Résultat net opérations except.			16 462,42	(C)

Total Budget income - *Revenu total budgété* 2 919 460,00
Total Budget expenditure - *Dépenses totales budgétées* -2 917 928,00
Extra Budget Income: 1 532,00 (D)

Result after extra operations	237 818,71 €	(A + B + C+D)
<i>Résultat après opérations exceptionnelles</i>		

On part du principe que le budget des dépenses doit s'équilibrer avec le budget des recettes (résultat 0 normalement).

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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	373 810,68	
Budget Allocation 2011 - <i>Dotation budgétaire pour 2011</i>	30 000,00	
Support from 2010 result - <i>Soutien en provenance du résultat 2010</i>	50 000,00	
Extraordinary income (provision for interpreters) - <i>Extourne provision interprètes</i>	19 482,98	
Expenses for 2012 Conference - <i>Avances pour la Conférence 2012</i>	-5 768,69	
		467 524,97 €

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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	89 466,46	
Budget Allocation 2011 - <i>Dotation budgétaire pour 2011</i>	3 000,00	
		92 466,46 €

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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	373 230,15	
Budget Allocation 2011 - <i>Dotation budgétaire pour 2011</i>	20 000,00	
Support from 2010 result - <i>Soutien en provenance du résultat 2010</i>	50 000,00	
Expenditure - Dépenses	-38 308,33	
		404 921,82 €

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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	73 792,73	
Budget Allocation 2011 - <i>Dotation budgétaire pour 2011</i>	0,00	
		73 792,73 €

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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	17 026,72	
Expenses / Income - <i>Dépenses / Revenus</i>	-2 184,61	
		14 842,11 €

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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	41 243,86	
<i>Income - Revenus :</i>		
Budget Allocation 2011 - <i>Dotation budgétaire pour 2011</i>	8 100,00	
Subvention from Monaco - <i>Subvention reçue de la Principauté de Monaco</i>	8 100,00	
	16 200,00
<i>Expenses - Dépenses :</i>		
Participation paid to assist in GEBCO meeting - <i>Assistance financière à des participants</i>	8 986,98	
	8 986,98
Amount of fund on 31st December 2011 - <i>Montant du fonds en fin d'année (31/12/2011)</i>		<u>48 456,88 €</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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	38 619,00	
<i>Income - Revenus :</i>		
Sales of the publication "Presentation Library" - <i>Ventes de publications</i>	9 700,00	
	9 700,00
Amount of fund on 31st December 2011 - <i>Montant du fonds en fin d'année (31/12/2011)</i>		<u>48 319,00 €</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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	233 485,58	
Additional allowance to meet Art.19 requirements - <i>Allocation complémentaire pour satisfaire les dispositions de l'article 19 du règlement financier</i>	(1 418,42)	
	
Amount of fund on 31st December 2011 - <i>Montant du fonds en fin d'année (31/12/2011)</i>		<u>232 067,16 €</u>

INTERNAL RETIREMENT FUND - Fonds de retraite interne (FRI)

Amount of social liability on 1st January 2011 - <i>Montant de la dette sociale en début d'année</i>	2 959 945,86	
Cotisations received from staff - <i>Cotisations reçues (BHI et membres du personnel)</i>	21 659,46	
Interests received from Deposit Accounts - <i>Intérêts perçus par le fonds (D/A)</i>	25 564,27	
Pensions paid from IRF - <i>Pensions réglées par le fonds (FRI)</i>	(143 501,69)	
		2 863 667,90
Variation of liability during the year - <i>Variation annuelle de la dette sociale</i>		29 440,00
Amount of social liability on 31st December 2011 - <i>Montant de la dette sociale en fin d'année</i>		<u>2 893 107,90 €</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 2011 - <i>Montant du fonds en début d'année (01/01/2011)</i>	396 288,02	
<u>Income - Revenus:</u>		
IHO Budget Allocation 2011 - <i>Dotation budgétaire de l'OHI pour 2011</i>	55 000,00	
Support from the Republic of Korea - <i>Soutien reçu de la République de Corée</i>	254 699,23	
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>	2 893,01	
	<u>2 893,01</u>	708 880,26
<u>Expenses - Dépenses :</u>		
Activities supported by the Rep.of Korea - <i>Activités financées par la Rep. De Corée</i>	123 495,71	
Activities supported by IHO Capacity Building Fund - <i>Activités financées par le fonds de l'OHI</i>	185 592,61	
Bank charges and losses on exchange on operations in USDollars - IHO <i>Frais bancaires et pertes sur opération de change sur opérations en Dollars - BHI</i>	539,16	
Bank charges and losses on exchange on operations in USDollars - Korea <i>Frais bancaires et pertes sur opération de change sur opérations en Dollars - Corée</i>	594,79	
	<u>594,79</u>	
Amount of fund on 31st December 2011 - <i>Montant du fonds en fin d'année (31/12/2011)</i>		310 222,27
		<u><u>398 657,99 €</u></u>

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

REVIEWED CAPACITY BUILDING WORK PROGRAMME (Eur)

CBWP 2011 as proposed by CBC5 and included in IHOWP		Budget	Situation 30 December 2011	Spent up to 30 December 2011	(+) (-)
Task 3.4	Technical and Advisory Visits, Travel, subsistence and consultancy				
15221205	* SAIHC Follow up technical visits Tanzania, Kenya, Seychelles, Mozambique postponed for 2012	10 000,00	Namibia, Malawi, June 2011 - Madagascar July Angola September 2011	5 472,95	4 527,05
15221102	* EAIHC Visit to Democratic People Republic of Korea	4 000,00	No information		4 000,00
15222102	* MACHC visit to Costa Rica and Panama	10 000,00	Costa Rica coordinated for September	3 679,72	6 320,28
15221208	* SWPHC visit to Kiribati (plus Cook Islands postponed from 2010)	8 700,00	Cook Islands done in February, Kiribati added	973,00	7 727,00
15221208	* EAIHC follow up Missions to Gabon, Cameroon and Guinea Bissau	20 000,00	Cameroon in June, Gabon/Guinea Bissau 2012	1 054,04	18 945,96
15221202	* From 2010 Technical visit to Syria - mars 2011	6 300,00		1 008,77	5 291,23
Task 3.5	Technical Workshops, Seminars, Short Courses				
15222104	* Technical aspects of maritime boundaries, baselines and the extended continental shelf EAIHC (executed in 2010 and paid in 2011)	13 000,00	November 2010 in Thailand -	10 499,37	2 500,63
15222107	* EAIHC Data base and design management	19 000,00	Thailand 20 to 24 June 2011 -	16 068,25	2 931,75
15222112	* EAIHC Multi-beam survey and side scan sonar	14 985,00	Singapore 11-14 October 2011 -	9 406,51	5 578,49
15222111	* EAIHC ENC Production and QA	12 000,00	Indonesia 5 to 7 July 2011 -	11 808,25	191,75
15222110	* Workshop on Port and Shallow Water Surveys (SAIHC, NIOHC all countries)	25 000,00	South Africa - 21-25 November 2011 -	18 836,05	6 163,95
152221203	* MSI Regional Course (MACHC + SWAIHC+SEPHC)	25 200,00	Brazil 15-20 may 2011 -	20 512,21	4 687,79
15222106	* Hydrography Survey and Introduction to Chart Production (MACHC)	24 900,00	Program in Antigua, 30 May-10 June -	22 389,75	2 510,25
15222101	* Gulf of Honduras Hydrographic Activity Implementation Plan (MACHC)	14 500,00	Belize in February -	14 587,88	-87,88
15221204	* First module of Cat B Marine Cartography training course provided by UKHO	70 000,00	Guatemala and Honduras in May -	70 000,00	0,00
	* Phase 1 Skills Course (SAIHC)	26 000,00	7 March - 8 April - paid in June 2011 - Postponed for 2012		26 000,00
	* 2-weeks Regional Training Course on Hydrographic Survey and Introduction to Chart production (EAIHC, SAIHC, NIOHC)	0,00	Nil to CBFund - 4-15 April -		0,00
	* 2 weeks Regional Training Course on basis ENC and ENC Production	0,00	Nil to CBFund	0,00	0,00
	* 3rd Course on Hydrographic Data Processing and Marine Cartography	0,00	Nil to CBFund	0,00	0,00
	* Support to Chair or representative attending the PACMA meeting	3 000,00	New item approved		3 000,00
15221206	* Support training for Haiti	6 850,00	New item approved	2 938,30	3 911,70
15222109	* Support training for Haiti	56 000,00		33 049,44	22 950,56
15222108	* OMG-UNG Multibeam Training Course	63 000,00	Fremantle 31/10-05/11/2011 -	56 665,74	6 334,26
15222103	* UKHO Module 3 Cat B Cartographic program	70 000,00	Postponed for 2012	1 438,09	68 561,91
		502 435,00		300 388,32	202 046,68

**INTERNATIONAL
HYDROGRAPHIC BUREAU**

Registered Office
4, quai Antoine 1er
MONACO

YEAR ENDING 31 DECEMBER 2011

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 2011**



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 2011.

These annual accounts, closed by the Directing Committee, which reveal a net profit of € 237.818,55 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 2011 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 2011, as well as the operations and the result of the 12 month financial period, closed on that date.

Monaco, 16 march 2012
Auditor,



F. MOREL

**BUREAU HYDROGRAPHIQUE
INTERNATIONAL**

Siège Social
4, quai Antoine 1er
MONACO

EXERCICE SOCIAL CLOS LE 31 DECEMBRE 2011

RAPPORT DU COMMISSAIRE AUX COMPTES

Frank MOREL
57, rue Grimaldi
MONACO

**BUREAU HYDROGRAPHIQUE
INTERNATIONAL**

4, quai Antoine Ier
MONACO

**RAPPORT DU COMMISSAIRE AUX COMPTES
Exercice clos le 31 décembre 2011**



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 2011.

Ces comptes annuels, arrêtés par le Comité de Direction et qui font apparaître un profit net de 237.818,55 €, 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 2011. J'ai notamment vérifié la caisse et les valeurs disponibles ou négociables.



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 2011, ainsi que les opérations et le résultat de l'exercice de 12 mois, clos à cette date.

Monaco, le 16 mars 2012
Le Commissaire aux Comptes,

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.

F. MOREL