

INTERNATIONAL HYDROGRAPHIC
ORGANIZATION



ORGANISATION HYDROGRAPHIQUE
INTERNATIONALE

Inter-Regional Coordination Committee
Comité de coordination inter-régional

ANNUAL REPORT 2011
RAPPORT ANNUEL 2011



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0. Introduction

The International Hydrographic Organization (IHO) established the Inter Regional Coordination Committee (IRCC) 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 (ref. CL 81/2010). The following sections are organized according to the elements of the Programme.

1. Co-operation with Member States (Element 3.1)

1.1. Third IRCC meeting (Task 3.1.0)

The third IRCC meeting (IRCC3) was held in Niteroi (Brazil) on 26-27 May 2011, as arranged by the Diretoria de Hidrografia e Navegação (Directorate of Hydrography and Navigation) (ref. CL 12/2011). The meeting was attended by the Chairs or Representatives from all Regional Hydrographic Commissions (RHCs), relevant Committees, Sub Committees, except IBSC¹ and WNWNS-SC², and other bodies as well as delegates from eight individual IHO Member States (MSs) and one NGIO accredited to the IHO.

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 18th International Hydrographic Conference.

The final minutes of IRCC3, together with all documents referred to at the meeting, are posted in the IRCC section of the IHO website (ref. CL 53/2011). The most significant points discussed at the meeting are summarized below.

(i) 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 signals from 20 MSs 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 (i.e. a minimum of 48 notifications before 23 January 2012) and decided to invite the IHB to produce a reminder to MSs and also to request the Monaco Government to pursue this matter via diplomatic channels.

¹ IBSC: International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers.

² WNWNS-SC: Worldwide Navigational Warning Service Subcommittee/

(ii) 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. The related actions require the active participation of the RHCs.

(iii) 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 / 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.

(iv) Preparation of the IRCC contribution to the 18th 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.

(v) 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).

Regarding the IHO Stakeholders' Forum, the Committee recognized the importance of ECDIS related issues and recommended to centre relations with stakeholders on them. It agreed that it was too premature 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.

The action list agreed at IRCC3 is attached in Annex with an update on the status as of 31 December 2011.

1.2. Regional Hydrographic Commissions (Tasks 3.1.1 to 3.1.12)

All the meetings of the Regional Hydrographic Commissions planned in the Programme took place:

- Arctic Regional Hydrographic Commission (ARHC): 2nd Meeting - Copenhagen, Denmark (28-29 September 2011)

The meeting discussed the formalization of INT Chart area 'N' and appointed Norway as INT Chart Coordinator for the area. It was agreed to exchange technology applications and experiences including standards allowing more rapid collection and utility of Arctic hydrography on nautical charts and to monitor Arctic hydrography developments such as those initialized by the Arctic Council (Marine Spatial Data Infrastructure) and TSMAD (development of polar projections suitable for ENC application). The development of a prototype design of an Arctic Mariners Routing Guide was discussed. Finland and Iceland

were accepted as observers.

- Baltic Sea Hydrographic Commission (BSHC): 16th Meeting - Norrköping, Sweden (20-21 September 2011)
The meeting reviewed progress in the coordination of INT Chart and ENC coverage and the implementation of the Baltic Sea re-survey scheme and discussed the development of a Baltic Sea Maritime Spatial Data Infrastructure. It considered preparing an addendum to the current 2002 draft Edition 4 of the IHO S-23 Part 2 concerning the Baltic Sea.
- East Asia Hydrographic Commission (EAHC): 5th Coordinating Meeting - Yogyakarta, Indonesia (27-28 January 2011)
The meeting reviewed and updated the strategies and plans of the Commission and initiated the Training Road Map.
The EAHC ENC Task Group met twice (Yogyakarta, Indonesia, 26 January 2011; Beijing, China, 12-13 July 2011) to progress issues related with ENC overlaps, gaps and data harmonization in the region. The EAHC Ad hoc Discussion Group (ADG) was formed to explore the short and long term training needs and other relevant activities of MSs. This new group held its first meeting in Incheon, Republic of Korea (28-29 April 2011). The short and long term training needs were further addressed and the Modular Training Approach was developed at the 1st meeting of the EAHC Capacity Building Committee held in Beijing, China (14-15 July 2011).
- Meso American and Caribbean Hydrographic Commission (MACHC): 12th Meeting - Basseterre, St.Kitts & Nevis (6-9 December 2011)
The Commission reviewed progress in INT chart and ENC coverage and the Capacity Building management plan. It hosted Industry and Stakeholder days, prior and during the meeting, which aided discussions and contributed to the establishment of the Marine Economic Infrastructure Programme WG (MEIP-WG) to support the Spatial Data Infrastructure (SDI) activities of the MACHC. The MACHC International Charting and Coordination WG (MACICCWG) was also established.
- Mediterranean and Black Seas Hydrographic Commission (MBSHC): 17th Meeting Athens, Greece (1-3 June 2011)
The meeting discussed in details the progress of production of INT Charts and ENCs, 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.
- Nordic Hydrographic Commission (NHC): 55th Meeting - Stavanger, Norway (5-6 April 2011)
The Commission examined various technical issues of interest to all participants and discussed the progress of work of the Nordic Chart Production Expert Group and of the Nordic Data Quality WG. The results of the workshop on the validation of multibeam data, various regional projects and the general trends and policy within the area of nautical charting and hydrographic surveying were considered also.
- North Indian Ocean Hydrographic Commission (NIOHC): 11th Meeting - New Delhi, India (1-2 March 2011)
The meeting discussed issues concerning the production of ENCs and INT charts, the promulgation of MSI, the MSDI developments and CB needs.
- ROPME Sea Area Hydrographic Commission (RSAHC): 4th Meeting - Muscat, Oman (21-22 March 2011)
The Commission reviewed the CB requirements and the status of INT charts in the Region. It decided to establish a RSAHC International Charting Co-ordination Working Group (RSAICCWG).
- Southern Africa and Islands Hydrographic Commission (SAIHC): 8th Meeting - Walvis

Bay, Namibia (6-7 September 2011)

The meeting reviewed progress in INT chart and ENC coverage and discussed the implementation of the commission capacity building management plan.

- South East Pacific Hydrographic Commission (SEPHC): 10th Meeting - Valparaíso, Chile (4-6 April 2011)

The participants shared their experience in multibeam surveys, spatial data management and ENC production as well as in the response to tsunamigenic events. The Commission decided to develop a regional work programme and to set up a mechanism to improve coordination and follow up of agreed actions.

- South West Atlantic Hydrographic Commission (SWAtHC): 5th Meeting - Arraial do Cabo, Brazil (24-25 March 2011)

The commission discussed the harmonization of INT Charts and ENCs in bordering areas and reviewed its interaction with other IHO organs.

- US /Canada Hydrographic Commission (USCHC): 34th Meeting - Tampa, Florida, USA (25 April 2011)

The meeting reviewed the results of the Transboundary ENC Pilot Project on the Pacific Coast to resolve ENC overlap. A stakeholder communication plan was approved to coincide with the initial release of Transboundary ENCs scheduled for December 2011. The next steps and timeline for completing collaborative scheming of ENCs in all United States-Canada Transboundary waters were discussed. The meeting agreed a joint position on the boundaries with the Arctic Regional Hydrographic Commission. A Memorandum of Arrangement between the Office of Coast Survey, NOAA and the Canadian Hydrographic Service was agreed to provide a framework for the operation of the USCHC concerning coordination of relevant hydrographic operations, achievement of maximum compatibility of marine charts and related navigational publications, and provide for exchanges of experts, intellectual property rights, and other matters.

The meeting reports or the lists of conclusions and actions are or will be made available on the relevant sections of the IHO web site.

1.3. Hydrographic Commission on Antarctica (Task 3.1.13)

An HCA presentation was made to the 22nd Annual Meeting of IAATO in Hobart, Australia in May 2011. IAATO participants were informed on the progress made in INT Charts and ENC production and availability.

The 11th Meeting of the Hydrographic Commission on Antarctica (HCA11) took place in Hobart, Tasmania, Australia, from 5 to 7 October 2011. The commission reviewed the status of survey and INT charting and ENC scheme and production plans in the region and discussed relations with other organizations concerned by Antarctic issues. It endorsed a Strategic Statement which builds on the HCA Statutes to provide a clear direction for the Commission for the next 5 years. The minutes of the meeting will be posted on the IHO web site after their approval.

1.4. Completion of adequate ENC coverage (Tasks 3.1.14)

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

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 are now only six States, and Antarctica, where five or more ENCs remain 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 have yet to produce ENCs that match the coverage provided by paper charts of those same ports.

The issue of overlapping data remains particularly difficult in those sea areas where geopolitical issues hamper swift resolution.

1.5. Industry participation in RHC meetings (Task 3.1.15)

Representatives of the hydrographic industrial 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 the ECDIS Stakeholders' Forum. A joint HSSC-IRCC proposal to the 18th IHC on an action plan regarding outreach to IHO Stakeholders was agreed.

2. Increase participation by non-Member States (Element 3.2)

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

- BSHC: 1/1 (1 non-Member State out of 1 in the Region)
- EAHC: 1/4
- MACHC: 11/14
- MBSHC: 2/7
- NIOHC: 0/8
- RSAHC: 0/1
- SAIHC: 5/7
- SWAtHC: 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 Instrument 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)	1	1 / 52

3. Capacity building management (Element 3.3)

The Capacity Building Sub-Committee (CBSC) held its 9th meeting (task 3.3.1) in Niteroi, Brazil, from 23 to 25 May 2011, just before IRCC3. All the CBSC tasks in Element 3.3 (tasks 3.3.2 to 3.3.6) were addressed. The report of the meeting is available on the IHO web site (ref. CL 51/2011).

The 5th Joint IHO/IOC/IMO/IALA/WMO Capacity Building Meeting took place in Saint-Germain-en-Laye, France, on 27 and 28 October 2011.

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 2011 (task 3.3.7). The report of the meeting is available on the IHO web site.

The Board reviewed the status of 9 courses and granted recognition or re-recognition to 4 and conditional or limited recognition to 3. It decided to start work on restructuring the Standards, beginning with S-5 with the separation of Cat A and Cat B competency requirements in 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 submission process.

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

The 11th edition (2010) of S-5 and the 3rd edition (2010) of S-8 were published in January 2011 (ref. CL 72/2010). A revision of S-5 (11th Edition, version 11.0.1) was published in May 2011.

4. Capacity building assessment (Element 3.4)

4.1. Technical and advisory visits (Tasks 3.4.1 to 3.4.5)

The following table summarizes the implementation of the 2011 work programme.

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	

4.2. 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.

5. Capacity Building Provision (Element 3.5)

5.1. Raise awareness on the importance of hydrography (Task 3.5.1)

As a result of a SWPHC's initiative a MoU between the IHO and the Secretariat of Pacific Community (SPC) was signed in April 2011 (ref. CL 16 & 35/2011). This MoU acknowledges the importance of hydrography and nautical charting and brings it to the attention of many regional governments at the most senior levels for the first time.

5.2. Technical workshops, seminars, short courses (Task 3.5.2)

The following table summarizes the implementation of the 2011 work programme.

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). (MACHC)	Done (ref. CL 14 & 29/2011)	With Nippon Foundation funding.
	(SWPHC)	Hydrography and nautical cartography training for Haiti - Done.	New item approved by CBSC. ROK contribution to CB Fund.
	(SWPHC)	Support to Chair or representative attending the PACMA Meeting	New item approved by CBSC. ROK contribution to CB Fund.
	(Open call)	57 th Multibeam Sonar Training Course	New item approved by CBSC. ROK contribution to CB Fund. (ref. CL 59 & 63/2011)

5.3. Hydrographic and Nautical Cartography Courses (Task 3.5.3)

The courses delivered in 2011 are listed in the table of § 5.2.

5.4. On the job training (Task 3.5.4)

Nothing to report.

5.5. Marine/Maritime projects (Task 3.5.5)

CBSC and IHB continued to monitor the capacity building aspects of on-going projects (Malacca Straits, Western Indian Ocean).

5.6. Bilateral agreements (Task 3.5.6)

The following bilateral arrangements were reported in 2011 by IHO Member States:

- 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.

6. Coordination of global surveying and charting (Element 3.6)

6.1. WEND Working Group (Task 3.6.1)

The 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 WG recommended the implementation of a structured approach to tackling the issue of ENC gaps and overlaps. It also considered the way forward for RENC-to-RENC cooperation and the need to make RENC membership more attractive. A new WEND Task Force was set up to handle detailed policy work.

6.2. Coordination of ENC schemes, consistency and quality (Task 3.6.2)

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 (EAthC)	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.

6.3. Publication C-55: status of hydrographic surveying and nautical charting worldwide (Task 3.6.3)

The efforts to complete C-55 and to keep data updated were continued. The following Member States have updated their data 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 have also updated their data: Israel, Lithuania.

The publication is available on the IHO web site updated to 27 September 2011.

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

6.4. Maintenance of INT chart schemes and improvement of availability of the INT chart series (Task 3.6.4)

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

7. Maritime Safety Information (Element 3.7)

The Worldwide Navigational Warning Service Sub-Committee (WWNWS-SC) held its 3rd meeting in Monaco, from 13 to 16 September 2011. The tasks in Element 3.7 (tasks 3.7.2 to 3.7.4) were addressed. The report of the meeting is available on the IHO web site (ref. CL 61/2011).

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

The IMO NAVTEX Manual reviewed in 2010 was approved by COMSAR15 in March 2011, adopted by MSC89 in May 2011 and issued as MSC.1/Circ.1403 to enter into force on 1st January 2013.

8. Ocean Mapping Programme (Element 3.8)

The IOC-IHO GEBCO Guiding Committee (GGC) held its 28th meeting in San Diego, USA, on 7 October 2011 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 2011). 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 2011. 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 perpetuate the interim Sub-Committee on Regional Undersea Mapping (SCRUM) and submitted the Terms of Reference for approval from both IHO and IOC (ref. CL 72/2011).

A new version of the IHO-IOC GEBCO Gazetteer of Undersea Feature Names (B-8) dated March 2011 is available on both the IHO and GEBCO web sites. The revision of publication B-7 "GEBCO Guidelines" is continuing.

Annex
IRCC3 Action List
(Status updated as of 31 December 2011)

No	ACTION	RESP.	DEADLINE	STATUS
IRCC03/01	Implement actions to accelerate the process of ratification of the Protocol of Amendments to the IHO Convention in order to meet the end of 2011 deadline.	RHCs	Permanent. Report IRCC Chair 01 October 2011	On going. 33 notifications reported (see CL 01/2012/Rev.1 of 5 Jan. 2012). Status reports from BSHC, EAthC, MACHC, MBSHC, NIOHC, NSHC, SAIHC and SEPHC.
IRCC03/02	Encourage the approval of pending applications for IHO membership.	RHCs	Permanent. Report IRCC Chair 01 October 2011	On going. One approval still missing for the application of Montenegro. Four approvals missing for the application of Haiti. Status reports from MACHC, MBSHC and SAIHC: no indication of new approvals underway. Application of Viet Nam announced by LC 76/2011 of 2 Dec. 2011.
IRCC03/03	Contact pending applicants in their region to encourage the ratification of the IHO Convention.	EAthC with UK and France support and MBSHC with Turkey support.	Permanent. Report IRCC Chair 01 October 2011	On going. Status report from EAthC and MBSHC: pending applicants contacted but no response so far.
IRCC03/04	Contact suspended Member States in their region to encourage their re-insertion in IHO.	EAthC and MACHC	Permanent. Report IRCC Chair 01 October 2011	On going. Status report from EAthC and MACHC: suspended MSs contacted but no response so far.

No	ACTION	RESP.	DEADLINE	STATUS
IRCC03/05	Request Monaco Government to send a Diplomatic Note to governments of MSs that have not yet ratified the Protocol of Amendments to the IHO Convention in order to reiterate the importance of meeting the end of 2011 deadline.	IHB	As soon as possible	Done. CL 58/2011 of 14 Sept 2011.
IRCC03/06	Remind applicants and suspended States of the procedures to reclaim or obtain IHO membership, through Monaco Government, informing RHCs involved.	IHB	As soon as possible	On going.
IRCC03/07	Nominate a representative to the IHR Editorial Board and report to the IHB.	ARHC, EAHC, MBSHC, RSAHC, USCHC, SWAtHC	30 December 2011	On going. ARHC: Canada MBSHC: Turkey
IRCC03/08	Resolve the definition of the southern borders of the ARHC and associated INT Chart scheme in conjunction with neighbouring RHCs.	ARHC	Next ARHC conference	On going. ARHC2 DECISION: ARHC has agreed to adopt the area defined by the Arctic NAVAREAS XVII – XXI with the exception of the area between Greenland and Norway which will be defined as area north of the 69°N parallel. ARHC2 ACTION: Norway to take the necessary steps to formalize the establishment of an INT Chart Region ‘N’ coincident with the ARHC; including informing IHB of the details that require adjustment.

No	ACTION	RESP.	DEADLINE	STATUS
IRCC03/09	UK to lead the design of a framework for C-55 development by correspondence.	UK(lead), CBSC, RSAHC, SAIHC, EAHC, MBSHC, MACHC, NIOHC, SWPHC, BSHC.	Report IRCC Chair 31 July 2011	On going. Discussion paper submitted to correspondence group (last edition: 21 Nov. 2011).
IRCC03/10	Provide as an example the MACHC action plan to other RHCs for consideration in promoting intersessional continuity.	MACHC	31 July 2011	On going.
IRCC03/11	Incorporate in the periodic evaluation of the availability of ENC submitted to IMO (NAV) consideration on the impact of poor bathymetric data availability, datum mis-adjustment problem, and other relevant factors.	IHB in connection with WENDWG	In time for NAV58	On going.
IRCC03/12	Ensure the timely provision of the appropriate documentation that justify expenses associated to CB projects, and to demand refund, if needed, not later than one month after the event has finalized.	RHC	Permanent	On going.
IRCC03/13	Report to the WENDWG Chair on the implementation of each item of the WEND Principles and on the validity of coverage and overlap analysis submitted by the WENDWG	RHCs	30 June 2011	Done. WEND-WG/Letter 3-2011 of 16 June 2011. Discussed at WEND-WG1 (13-14 Oct. 2011).
IRCC03/14	Prepare and circulate to RHCs Chairs and IRCC Chair a draft report on the implementation of the WEND Principles, including feed back from industry. The Report shall also consider: a) the USCHC trans-boundary project as a technical solution for handling boundary issues in ENC production and b) MACHC procedure under development for checking the performance of a cross section of regional ENCs on an ECDIS in operational conditions.	WENDWG	01 October 2011	Done. WEND-WG/Letter 4-2011 of 3 Aug. 2011. Discussed at WEND-WG1 (13-14 Oct. 2011).
IRCC03/15	Provide to the WENDWG Chair and IRCC Chair comments on the draft report on implementation of the WEND Principles.	RHCs	15 October 2011	Done. Draft WEND WG Report to the 18th IHC submitted 03 Nov. 2011

No	ACTION	RESP.	DEADLINE	STATUS
IRCC03/16	Submit to the IHB the IRCC report for consideration by the XVIII IHC.	Chair	01 November 2011	On going. Draft WEND WG Report to the 18th IHC submitted 03 Nov. 2011. WEND WG PRO2 to be finalized.
IRCC03/17	Invite GEBCO Guiding Committee / Bathymetric Regional Project Chairs to attend corresponding RHCs meetings, aiming at strengthening collaboration with a priority on improving high resolution shallow water bathymetry at the regional level.	RHCs / GEBCO	Permanent	On going.
IRCC03/18	Update the report to IRCC Chair on the implementation of the guidance for the preparation and maintenance of International chart schemes (CL 23/2010 of 3 March 2010).	RHCs	01 October 2011	On going. Status report from ARHC, BSHC, MACHC, MBSHC, NIOHC, SAIHC and SEPHC.
IRCC03/19	Report to IRCC4 on: a) their experience in dealing with marine disasters in relation with IHO guidelines (TR 1/2005), b) strategies to involve non-IHO MSs in RHC's activities.	RHCs	IRCC4	On going.
IRCC03/20	Submit the amended draft of IHO Resolution 2/2007 to MSs for approval, based on IRCC3-04.1C.	IHB	30 June 2011	Done. See IHO CL 37/2011 and 50/2011.
IRCC03/21	Inform HSSC on IRCC views on the way forward in interacting with stakeholders and submit a report to the XVIII IHC.	IRCC Chair	20 September and 01 November 2011	Done. Doc. HSSC3-08A e-mail of 19 Nov. 2011 from IRCC Chair PRO IRCC-2.

No	ACTION	RESP.	DEADLINE	STATUS
IRCC03/22	Provide IRCC Chair input for the preparation of the 2012 IHO WP complementing Annex B to IRCC3-06.2 as appropriate. IRCC Chair to provide input to IHB.	IRCC Members IRCC Chair	30 June 2011 Mid July 2011	Done. e-mail of 2 July 2011 from IRCC Chair. IHO CL 45/2011 of 29 July 2011. e-mail of 31 Aug. 2011 from IRCC Chair. e-mail of 22 Sept. 2011 from IRCC Chair to IHB; additional element by e-mail of 23 and 24 Sept. 2011. IHO CL 60/2011 of 28 Sept. 2011. IHO CL 77/2011 of 02 Dec. 2011.
IRCC03/23	Provide IRCC Chair with proposals to be included in the 2013-2017 IHO WP and Budget.	IRCC Members	01 October 2011	On going. IHB Letter of 8 July 2011. e-mail of 31 Aug. 2011 from IRCC Chair. e-mail of 02 Nov. 2011 from IRCC Chair (v0). e-mail of 19 Nov. 2011 from IRCC Chair. e-mail of 10 Dec. 2011 from IRCC Chair (v1).
IRCC03/24	Consider the appropriate level of participation in the RIO + 20 process, in line with the IHO strategic directions.	IHB with SWAtHC	30 December 2011	On going.