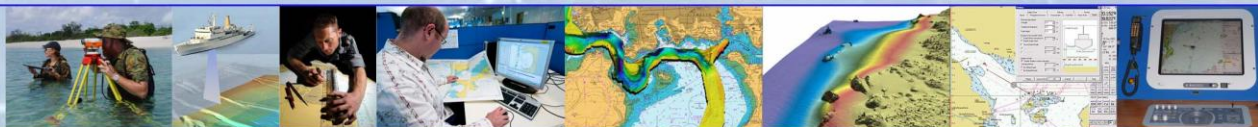




INTERNATIONAL HYDROGRAPHIC BULLETIN



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July - December 2011

REGIONAL HYDROGRAPHIC COMMISSIONS

8th MEETING OF SOUTHERN AFRICAN AND ISLANDS HYDROGRAPHIC COMMISSION (SAIHC)

Walvis Bay, Namibia 6-7 September

The 8th meeting of the SAIHC took place in Walvis Bay, Namibia on 6th and 7th September 2011, under the Chairmanship of Captain Abri Kampfer the Hydrographer of South Africa. Twenty-one delegates participated as full or Associate Members or Observers from the following countries: Angola, France, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Norway, Portugal, South Africa, United Kingdom and USA. The following international organizations were also represented: IALA, WIOMHP and IMO. The South African Maritime Safety Administration 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 on some of the important issues that the Organization had undertaken during the intersessional period, explaining the preparations for the IHC that will be held 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 as regards the development of Hydrographic Spatial Data Infrastructure (SDI). The Commission decided to have meetings every year and not every two years as is currently the case, in order to monitor more closely the various developments at national and international levels. Presentations were provided by the representatives of IALA and WIOMHP.

Captain Abri Kampfer was re-elected as Chairman. The next meeting will take place in Mauritius in September 2012.



12TH MEETING OF MESO-AMERICAN AND CARIBBEAN SEA HYDROGRAPHIC COMMISSION

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

The 12th MACHC Meeting 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, Honorable Dr. Denzil Douglas. The IHB was represented by Captain Alberto Costa Neves.

Twelve MACHC Members (Brazil, Colombia, Cuba, France, Guatemala, Jamaica, Mexico, Netherlands, Suriname, UK, USA and Venezuela) were represented at the meeting. The following Associated Members also attended 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 Is., Costa Rica, Dominica, Grenada, Montserrat, organizations (CLIA, IBCCA, IMO, PAIGH, RTCM) and companies (Caris, Celebrity Cruises, ESRI, Fugro, Hypack, Jeppesen, Kongsberg, Pelydryn).

More than 60 participants discussed the main issues of the region, including capacity building actions and plans, the coordination of ENC's 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, NGOs 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.

IHO TECHNICAL ASSESSMENT VISIT

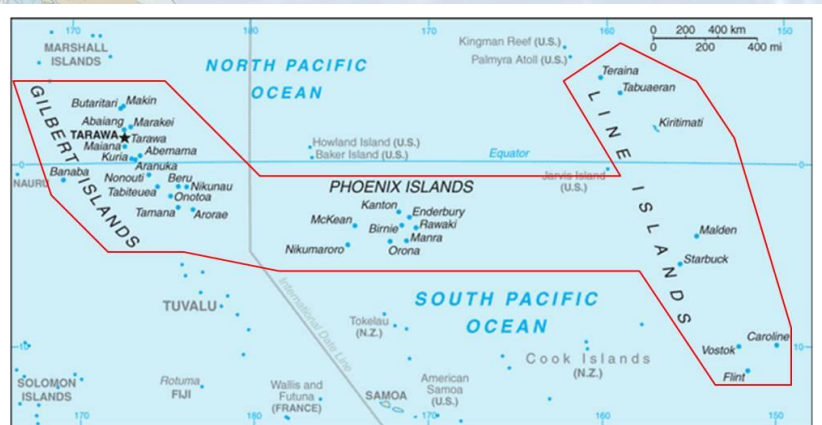
Tarawa, Kiribati, 17-24 November



Mr Wilson explains the principles of hydrographic surveying to the Chart Stakeholders

Director Robert Ward and Mr Bob Wilson, from the United Kingdom Hydrographic Office (UKHO) carried out a hydrographic awareness and technical assessment visit to Kiribati from 17 to 24 November 2011 as part of the IHO Capacity Building Programme.

The Republic of Kiribati consists of 33 islands in three island groups and the isolated island of Banaba, dispersed over 1.3 million square miles. Kiribati has a total population of just over 100,000 people and is totally reliant on maritime trade both internationally and interisland for the import and distribution of goods, fuel and food upon which it depends. It is likely to be the first country to be totally submerged if sea level rises eventuate as predicted.



Islands forming the Republic of Kiribati

There has been no significant level of hydrographic input to any charts covering Kiribati since the mid 1960's. Most charts rely on surveys from a much earlier date – some from the 19th century. Today, the charts need urgent revision if they are to remain in circulation. The visiting team concluded that the situation regarding charting in Kiribati was very serious, especially considering the absolute dependence that Kiribati has on maritime transport to provide vital goods, including foodstuffs, fuel, building materials and vehicles to the country.

During the visit, several stakeholder meetings were organised. In addition, briefings were provided to the Heads of various government departments. As a result, a local campaign will begin immediately to collect relevant new information to be passed to the established charting authority (UKHO). The visiting team also identified a number of sources of hitherto unpublished bathymetric information collected by regional scientific organisations and overseas military agencies that could assist in the remediation of some of the existing charts covering Kiribati. The state of hydrography and nautical charting will also be a high priority for discussion at Cabinet level in the government.

A full report and the recommendations of the visiting team will be passed to the Kiribati authorities and subsequently posted on the IHO website early in 2012.

16TH MEETING OF THE BALTIC SEA HYDROGRAPHIC COMMISSION (BSHC) Norrköping, Sweden, 20-21 September

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 UKHO took part as an 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. The 17th BSHC Conference will take place in Helsinki, Finland, in September 2012.

Further details and the papers for the meeting are available on the IHO website.

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

1. The 2nd meeting of the ARHC took place in Copenhagen, Denmark on 28-29 September 2011, under the Chairmanship of Dr Savithri Narayanan, the Dominion Hydrographer of Canada. Twenty-eight delegates participated representing Canada, Denmark, Finland, Iceland, Norway, Russia Federation and USA. Vice Admiral Alexandros Maratos represented the Bureau. A one-day Conference was organized on 27 September where the navigational issues concerning the Arctic region and the Arctic Hydrography were examined.



2. 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 routing 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.
3. Mr Svend Eskildsen, the Director of the Danish Maritime Safety Administration (DaMSA), became the new Chair. The next meeting will take place in October 2012 in Norway.

IHO VISIT TO VANUATU

Port Vila, Vanuatu, 28 November – 3 December

Director Robert Ward and Mr Bob Wilson, seconded from the United Kingdom Hydrographic Office (UKHO), carried out a hydrographic awareness and technical assessment visit to Vanuatu from 28 November to 3 December as part of the IHO Capacity Building Programme.



Vanuatu lies within the South West Pacific Hydrographic Commission (SWPHC) and comprises about 40 mountainous islands and numerous islets, rocks and shoals, forming an irregular Y-shape. The 13 major islands of the group are primarily of volcanic origin, with a number of active volcanoes, and in the main are fringed with coral reefs. The island of Tanna contains one of the world's most accessible active volcanoes. Tourism from cruise ships is an expanding market in Vanuatu but is being hampered significantly by poor or out of date charting.

The visit began with a symposium at which the various stakeholder groups were represented, particularly the maritime sector, coastal patrol and police, and the ministries of lands and survey, and foreign affairs. In addition, briefings were given to the Heads of various government departments. The Vanuatu Department of Lands and Survey, led by the acting Surveyor-General, organised and hosted the visit with the assistance of the staff of the Australian High Commission in Vanuatu. The IHO technical visit coincided with an operational visit by two surveying ships from the Royal Australian Navy. The crews of these ships carried out a number of surveys in the harbour of Port Vila that will contribute to the improvement of the chart of that area.

Subsequent discussion groups and individual visits to various government departments resulted in the development of a proposed action plan that will be forwarded to the Vanuatu authorities for their further consideration. At the same time, an assessment of the state of nautical charting in Vanuatu and a proposed chart remediation programme was developed. Several new sources of hydrographic data were discovered during the visit. At the same time, a local campaign will begin immediately to collect additional new information to be passed to the established charting authority (UKHO).

As a result of the visit, the Department of Lands and Survey will assume the role of first point of contact for hydrography in Vanuatu. In the longer term, and depending on the establishment of a Vanuatu Maritime Safety Agency, responsibility for hydrography may then be transferred to that organisation. If this happens it would follow the organisational model recently adopted in the neighbouring countries of Papua New Guinea and the Solomon Islands.



COMMITTEES / SUB-COMMITTEES / COMMISSIONS

GEBCO SUB-COMMITTEE ON UNDERSEA FEATURE NAMES (SCUFN)

24th Meeting, Beijing, China, 12-16 September

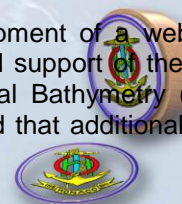
The 24th meeting of SCUFN was hosted and organized by the National Marine Data and Information Service (NMDIS) of China. The meeting was held in Beijing under the chairmanship of Dr Hans Werner SCHENKE from the Alfred-Wegener-Institut für Polar und Meeresforschung (AWI – Germany). There were 30 participants, including 10 of the 12 SCUFN members (from Argentina, Brazil, China, Germany, Japan, Rep of Korea, New Zealand, Pakistan, Russia, and USA). The meeting welcomed Prof. LIN Shaohua (China – IOC side) as a new member. The meeting also took note of the absence of Cdr. Harvinder AVTAR (India – IHO side) at two consecutive meetings and who, according to the SCUFN Terms of Reference, is regretfully considered to have resigned from the Sub-Committee. The main issues discussed at the meeting are summarized below.

- The sub-committee examined 139 names or name proposals from Ecuador (9 in SE Pacific), Germany (10 mainly in SE Pacific), joint Belgium and Netherlands (1 in S part of the North Sea), Brazil (9 in SW Atlantic), China (8 in Pacific), Russia (12 in Arctic and Pacific), Japan (36 in NW Pacific), Korea (6 in W Pacific), USA (4 in N Atlantic, N Pacific and Gulf of Mexico), New Zealand (11 in SW Pacific) and GEBCO Gazetteer Reserve Section (33). In total, the Sub-Committee recommended the acceptance of 97 new undersea feature names for inclusion in the GEBCO Gazetteer.

TWENTY FOURTH MEETING OF THE GEBCO SUB-COMMITTEE ON UNDERSEA FEATURE NAMES (SCUFN)



- The meeting noted with satisfaction the significant progress made in the development of a web-based map interface and on-line database for the GEBCO Gazetteer, thanks to the efforts and support of the US National Geophysical Data Center (NGDC) and the co-located IHO Data Centre for Digital Bathymetry (DCDB). The project leader (Ms. Lisa TAYLOR, SCUFN Vice-Chair and DCDB Director) reported that additional funds would however be required to complete the work.



- The meeting discussed the results of a comprehensive review of the definitions of all generic terms in IHO-IOC publication B-6 *Standardization of Undersea Feature Names* that had been conducted by a SCUFN working group led by Dr Hyun-Chul HAN (Rep. of Korea). A final list of undersea feature terms and definitions was agreed for submission to the GEBCO Guiding Committee.
- In order to facilitate the drafting of name proposals for SCUFN consideration, a new SCUFN working group was created to draw up guidelines on how to prepare such proposals. It will be led by Cdr. Ana Angelica ALBERONI (Brazil).

WORLD-WIDE NAVIGATIONAL WARNING SERVICE SUB-COMMITTEE

IHB, Monaco, 13-16 September

The third meeting of the WWNWS Sub-Committee was held at the IHB in Monaco, from 13 – 16 September 2011. The meeting was attended by 27 delegates from 17 IHO Member States, the International Hydrographic Bureau (IHB), the International Maritime Organization (IMO), the World Meteorological Organization (WMO), and Inmarsat Global Ltd. The delegates included representatives of 12 NAVAREA Co-ordinators, 1 Sub-Area Co-ordinator and 4 National Co-ordinators.



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

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 a 100% consistency of guidance and terminology used across all documents. Further work on this will be undertaken 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 assessments from all twenty-one NAVAREAs. Reports were also received from the International Maritime Organization (IMO), the Chairman of the IMO NAVTEX Panel, the IMO SafetyNET Panel, the World Meteorological Organization (WMO) and Inmarsat Global Ltd all of whom attended the meeting.



WWNWS3 Meeting in progress

The meeting received updated information on the delivery of the MSI training courses. Since the last meeting courses had been delivered in Australia for the SWPHC and Brazil for the MACHC, SEPHC and SWAtHC. A further course is planned for 2012.

The full report of the meeting (when finalized) and all meeting documents are available from the IHO web site at: http://www.iho.int/mtg_docs/com_wg/CPRNW/WWNWS3/WWNWS3.htm

GEBCO MEETINGS

La Jolla, San Diego, USA, 3-7 October

A series of GEBCO meetings were held at the Scripps Institution of Oceanography in La Jolla, San Diego, USA from 3 – 7 October 2011:

- 3 and 5 October: Joint Technical Sub-Committee on Ocean Mapping (TSCOM) and interim Sub-Committee on Regional Undersea Mapping (iSCRUM) meeting;
- 4 October: GEBCO Science Day;
- 6 October: GEBCO-Nippon Foundation Programme Management meeting and task group meetings; and
- 7 October: GEBCO Guiding Committee (GGC).

TSCOM and iSCRUM

The GEBCO Technical Sub-Committee on Ocean Mapping (TSCOM) and the interim Sub-Committee on Regional Undersea Mapping (iSCRUM) held a joint meeting between the 3rd and 5th of September 2011. The meeting was chaired by Dr. Walter SMITH and Dr. Martin JAKOBSSON, and included reports and presentations on the status of hydrographic surveying and nautical charting in Antarctica and mapping activities of the International Bathymetric Charts (IBC) projects. Reports on the following IBC regions were provided; the East Pacific (IBCEP), the Southern Ocean (IBCSO), the Arctic Ocean (IBCAO) and the Caribbean Sea and the Gulf of Mexico (IBCCA). Breakout groups were convened to discuss issues concerning; the Antarctic and Arctic mapping activities, and a new Indian Ocean mapping initiative. Other important topics discussed included the GEBCO Cookbook, Gridding techniques, Metadata and the creation of a GEBCO Common Data Store.

Science Day

For the sixth consecutive year, GEBCO organized a “Bathymetric Science Day” which took place on the on the 4th of September and was opened by Dr Tony Haymet the Director of Scripps Institution of Oceanography. Science day featured presentations on; quality control for multi-beam echo sounders, the European bathymetric database and digital elevation model (EMODNET) initiative, the effect of the Reunion Plumehead on Indo-Atlantic tectonics in the late Cretaceous and early Cenozoic periods, the history of NOAA Scripps collaboration in Pacific ocean mapping, a portrait of the scientist Marie Tharp, GEBCO-related activities in the high-Arctic (Summer 2011), improvements in global marine gravity using re-tracked CryoSat data, hydrographic survey activities in tsunami-damaged harbours of Japan, GEBCO Undersea Feature Names Gazetteer enhancements and bathymetry in the Cloud with GIS. These presentations can be downloaded from the GEBCO web site at:

http://www.gebco.net/about_us/meetings_and_minutes/gebco_science_day_2011/

The TSCOM, iSCRUM and Science Day meetings were well attended by members from the IOC and IHO, and Stephen Shipman and Tony Pharaoh represented the International Hydrographic Bureau.

GGC



Mr A Pharaoh and the prototype GEBCO Globe

With the exception of Italy, who had sent their apologies, all IHO members of the Guiding Committee were present. The GGC noted a vacancy for an IOC member and following discussion agreed to make a proposal to IOC for a replacement. The GGC received reports from its Sub-Committees and endorsed the work which they had undertaken. The GGC also received reports from key personnel performing functions on behalf of GEBCO and from the IHB on IHO activities since the previous meeting.

The GGC reviewed the prototype Globe produced by the Chinese company DongXin Globe. It was agreed that the colours and general presentation were very good but further work was required regarding the display of the undersea feature names from the GEBCO Gazetteer before any production models were made.

Martin Jakobsson and Robert Andersen were working on this matter with the company.

The GGC finalised its work programme for the period 2013 – 2017 which would be forwarded to the Chairman of the Inter-Regional Coordination Committee (IRCC) for inclusion in his input to the Work Programme to be reviewed at the XVIIIth IHC in April 2012. The GGC also finalised the draft ToR for the proposed new Sub-Committee on Regional Undersea Mapping (SCRUM) which will be circulated to Member States and IOC for adoption.

The GGC considered the latest draft of a revised IHO publication on “Guidelines for Ocean Mapping” (B-7) prepared by the IHB. A few sections still required input and it was hoped that these could be completed quickly in order for it to be circulated to IHO Member States and to the IOC for adoption in early 2012.



Shin Tani (Japan) addressing the GGC

IHO HYDROGRAPHIC COMMISSION ON ANTARCTICA (HCA) 11th Meeting, Hobart, Australia, 5-7 October

The 11th Meeting of the Hydrographic Commission on Antarctica (HCA) took place in Hobart, Tasmania, Australia, 5-7 October 2011, organized by the Australian Hydrographic Service (AHS) with the support of the Australian Antarctic Division (AAD). The meeting was chaired by Commodore Rod NAIRN, AHS Director and HCA Vice-Chairman, in the absence of the Chairman, Captain Hugo GORZIGLIA, who was unable to attend. Ing en chef Michel Huet attended as HCA secretary and IHB representative.

Dr. Tony FLEMING, AAD Director, 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, Korea (Rep. of), New Zealand, Norway, South Africa, Spain, United Kingdom, USA, Uruguay and Venezuela), five observer organizations / projects (COMNAP, IAATO, IALA, GEBCO and 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 any representatives nor any reports from IMO, IOC and the AT Secretariat.

Two ad hoc sub working groups were set up 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.

Following a kind invitation from the *Servicio de Oceanografía, Hidrografía y Meteorología de la Armada (SOHMA)* of Uruguay, the Commission decided to hold the 12th HCA meeting in that country (Montevideo or Punta Del Este) in the week commencing 8 October 2012.

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 2011. 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.

The full report of the meeting will be published on the IHO website early in 2012.



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

The 18th ABLOS Meeting was held at the offices of the Servicio Hidrográfico y Oceanográfico de la Armada de Chile (SHOA) on 9 and 10 November 2011. The WG 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.



**Captain Patricio Carrasco opening the
18th ABLOS Business Meeting**

The Chairman welcomed Dr Neils Andersen (Denmark) and Dr Sobar Sutisna (Indonesia) who will become IAG members of ABLOS 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 and the possibility of holding it alongside the GEBCO meetings, scheduled on 25 October, is being investigated. An Organizing Committee was established to oversee the preparations with further information being announced by IHB CL and on the ABLOS page of the IHO web site.

The 19th ABLOS Meeting will be held in Monaco in conjunction with the 7th ABLOS Conference.



WORKING GROUPS

S-100 PORTRAYAL MEETING

UKHO, Taunton, 27 – 29 September

The TSMAD Working Group convened a focus working group meeting to progress the work on S-100 portrayal. The meeting was chaired by Mr. Barrie Greenslade (UKHO) and included participant from the UKHO and the following stakeholder organizations; CARIS, Furuno, GeoMod, Jeppesen, SevenCs and Transas. Mr. David Acland, (chairman of the IHO Standardization of Nautical Publications Working Group - SNPWG), and Mr. Jonathan Pritchard (chairman of the Data Protection Scheme Working Group - DPSWG) also participated in the meeting. The IHB was represented by the TSMAD secretary Tony Pharaoh.

The main topics that were discussed included; the portrayal registry development work, suitable graphical formats for portraying feature symbols, the development of machine and human readable portrayal catalogues, the encapsulation of complex conditional rules in a portrayal catalogue and the development of a scripting language for generating machine readable portrayal catalogues.

1st MEETING OF THE IHO WORLDWIDE ENC DATABASE WORKING GROUP (WEND WG)

Wollongong, Australia, 13-14 October

The inaugural meeting of the WEND Working Group took place at the Australian Hydrographic Office in Wollongong on 13 and 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.

The full report of the meeting will be posted on the IHO website early in 2012.

IHO DATA QUALITY WORKING GROUP (DQWG) **5th Meeting, Monaco, 15-18 November**

The 5th meeting of the IHO Data Quality Working Group (DQWG) was held at the IHB on 15-18 November 2011. 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. Attendees included representatives of the HOs of Canada, Finland, Netherlands, Sweden and the United Kingdom, plus the IHB and an expert contributor from Jeppesen Marine. The meeting was chaired by Mr. Chris Howlett (UK).



DQWG -5, IHB, Monaco 15 - 18 November 2011

The meeting reviewed the results of a questionnaire to mariners, which was produced by DQWG to investigate the mariners' perception of current methods of representing data quality in nautical charts (IHO CL 23/2011 refers). Over 600 responses were received. Examination of the results revealed *inter alia* that large proportions of ENC users are not using the CATZOC information; that the additional S-57 DQ indicator attributes are not understood and not used; and that a majority of mariners state that they have not received enough training on data quality issues. As a result, DQWG has made a number of recommendations to bring in new possibilities for implementation into ECDIS systems, including that all encoded data quality information must be discoverable; that temporal degradation of data should be encoded; that new representation methods should be able to accommodate inputs such as dynamic tides, under keel allowance and vessel specific parameters; that visualisation should take advantage of the mariner's preference for an on-demand colour overlay; and that any representation method should be accompanied by an appropriate education strategy.

A significant part of the meeting was dedicated to reviewing and finalizing an S-101 data quality model and drafting the data quality section of S-101, the future S-100 based ENC product specification, in view of their submission to TSMAD.

It was reported that the University of Southern Mississippi (USM, USA) has accepted to take part in the development of a fully quality attributed ENC test data set, based on the S-101 data quality section. This work is planned for 2012.

The 6th meeting of DQWG will be held in the second half of July 2012, at a venue to be determined.

IHO CHART STANDARDIZATION AND PAPER CHART WORKING GROUP (CSPCWG)

8th Meeting, 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 2011. This WG 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 twenty-six 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 (UKHO).



The meeting reviewed and discussed a number of proposals relating to chart content / specifications, that included the following topics for which new or amended specifications will be prepared:

- 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 comprehensive revision of S-4 which started in 2004 is now in its last phase and should be completed in 2012/2013. An update on progress with the current revision of S-4 - Section B-300 *Topography* was provided and discussed. Same with the development of a US Combined Paper Chart and ECDIS Chart No.1, and a UK INT1-like publication but describing S-52 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).

The 9th meeting of CSPCWG has been planned in Pusan, Rep. of Korea, in the week commencing 12 November 2012.



OTHER BODIES

ISO/TC 211 WORKING GROUP AND PLENARY MEETINGS

32nd Meeting Delft, Netherlands, 23-27 May and
33rd Meeting Pretoria, South Africa, 14 - 18 November

The International Organization for Standardization's Technical Committee 211 (ISO/TC 211) is responsible for the development of the 1900 series of standards for geospatial information. The IHO is a liaison member of the ISOTC211 committee and participates in its standards development activities. These standards have been 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.

Mr. Anthony Pharaoh attended the 32nd and 33rd working group and plenary meetings that took place in Delft, Netherlands and Pretoria, South Africa during 2011. The following new work items were approved for inclusion in the programme of work: Reference model for ubiquitous public access; Calibration and validation of remote sensing imagery sensors for optical sensors; Ontology framework for geographic information, Rules for developing ontologies in the Web Ontology Language (OWL); Rules for application schemas (revision of ISO 19109:2005) and Services (revision of ISO 19119:2005).

Further information on ISO/TC211 standards and specifications under development is available from the TC211 web site at <http://www.isotc211.org/>, and all published standards are available from the ISO web site at; http://www.iso.org/iso/iso_catalogue/catalogue_tc/catalogue_tc_browse.htm?commid=54904&published=on&include_sc=true

ISO/TC211 also has an outreach plan which aims to promote the awareness, adoption, and advocacy of ISO/TC 211 standards. Further information on these activities is available from the ISO/TC211 web site.

INFORMAL TECHNICAL MEETING OF ECDIS STAKEHOLDERS

London, UK, 7-8 September

The IHB was represented by Captain WARD at an informal technical meeting of ECDIS stakeholders held in London on 7 and 8 September. The meeting followed on from a similar meeting held in February in Monaco hosted by the IHB to discuss short-term measures and coordination that can be taken to address various shortcomings identified in ECDIS equipment being used at sea, especially in relation to chart data presentation and performance. The meeting was co-organised by UK representatives from the Hydrographic Office and the Maritime Administration. Invited participants included 23 leading experts from IHO Member States, ECDIS manufacturers, type-approval laboratories, training establishments, mariners' professional and industry bodies, and maritime administrations.

The meeting discussed in detail the range of technical issues and ways to overcome them. In many cases, proposals for amendments to the relevant IHO standards will be proposed. In other cases, a combination of actions will be required both by the various stakeholder groups represented at the meeting and others. The meeting considered the IHO's ENC/ECDIS Data Presentation and Performance Check to be released in the month following the meeting and provided valuable observations and input.

The meeting drew up an agreed list of current ECDIS anomalies that require further action, as well as identifying several workaround solutions for seafarers until such time as the relevant ECDIS operating software can be upgraded where necessary.

It was agreed that a further meeting be held in Monaco at the IHB in January 2012. At that meeting the results and feedback from the IHO Data Portrayal Check will be reviewed, preparations made for an input to the next meeting of the IMO Maritime Safety Committee and consideration will be given as to how to establish the group on a more formal basis so that it will be recognised as an appropriate source of information and advice on ECDIS operational issues by significant stakeholders such as the IMO, IHO and seafarers.



IALA E-NAVIGATION COMMITTEE

Paris, France, 26-30 September

Director Robert WARD represented the IHO as an Observer at the 10th meeting of the International Association of Aids to Navigation and Lighthouse Authorities (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 the opportunity to 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.

MARINE ELECTRONIC HIGHWAY DEMONSTRATION PROJECT

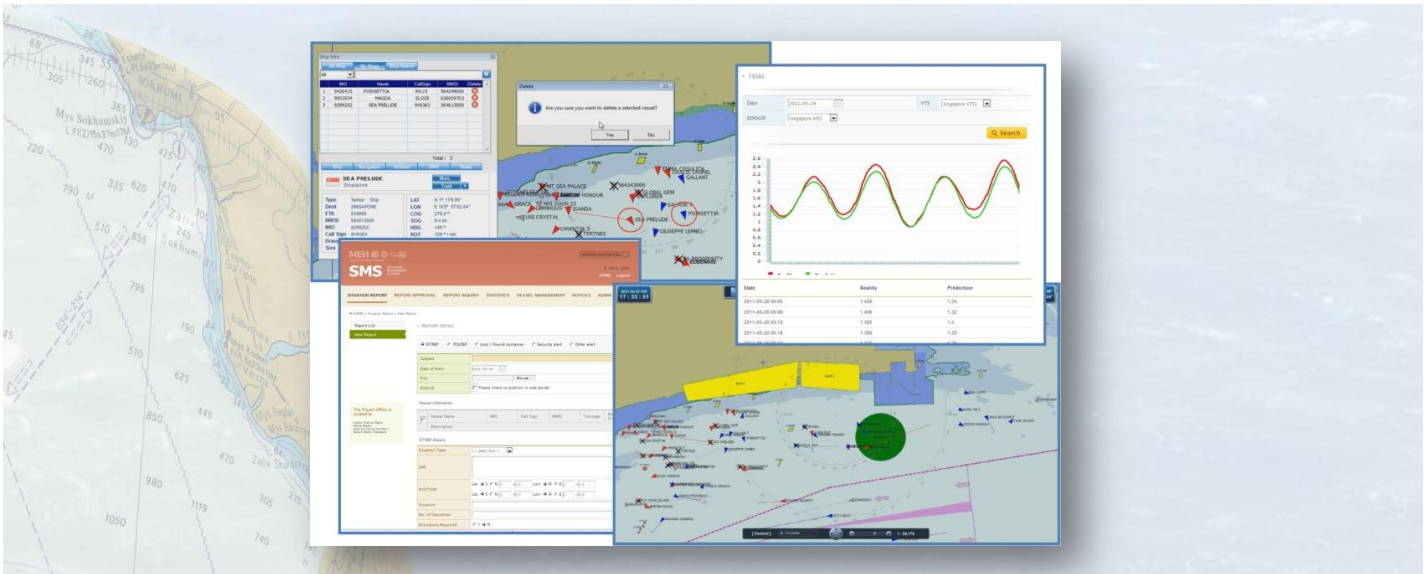
4th Steering Committee Meeting
Kuala Lumpur, Malaysia, 5-7 October

The Straits of Malacca and Singapore Marine Electronic Highway Demonstration Project (MEHDP) will provide a practical demonstration of the potential for digital information networks to provide environmental and related information in real time to both mariners transiting the Straits as well as other agencies and interested parties. The MEHDP pre-dates most other maritime digital data initiatives including the IMO's e-Navigation concept. There are obvious parallels with the e-Navigation concept, though the MEHDP has concentrated primarily on access to environmental rather than safety of navigation data.

US\$8.3 million of the project costs have been provided by the World Bank Global Environment Facility (GEF) and the International Bank for Reconstruction and Development (IBRD), US\$2.7 million by the three littoral States and US\$0.85 million from a grant by the Republic of Korea through the Ministry of Land, Transport and Maritime Affairs – mainly for information technology infrastructure.

The project is now in the final stages of establishing a unified data centre, based in Batam, Indonesia, that will provide mariners and various shore-side authorities with access in real time to environmental and related information about the Straits of Malacca and Singapore. During the demonstration phase access will be primarily via the internet but in the longer term it is envisaged that other forms of data transfer will also be available.





a selection of the web pages that will be available on the MEHDP website, including - AIS information, real tide versus predicted tide, and environmentally sensitive areas

The 4th meeting of the Project Steering Committee (PSC) of the MEHDP took place in Kuala Lumpur on 5-7 October. About 40 delegates attended the meeting, representing the three Coastal States directly involved – Indonesia, Malaysia and Singapore, together with representatives from the IHO, Japan, the Republic of Korea, the World Bank, the International Council of Shipping (ICS), the Nippon Maritime Centre, the Maritime Institute of Malaysia, and the Malaysian Shipping Association. Director Robert Ward represented the IHO.

The main tasks of the 4th meeting of the MEHDP PSC were to review progress on the establishment of the data centre in Batam, ensuring the availability of the various data sets to be provided by the littoral States, the arrangements for practical demonstrations in ships in early 2012 – the final year of the project, and how the MEHDP could be enhanced and made into a permanent service in the future including collaboration with e-Navigation developments occurring in various other parts of the world.

UN GLOBAL FORUM ON GLOBAL GEOSPATIAL INFORMATION MANAGEMENT & 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) establish a UN Committee of Experts on Global Geospatial Information Management (GGIM). The GGIM held its first meeting 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. Director Ward represented the IHO.

It was agreed that this 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 Standards Organization (ISO). At the conclusion of the forum, the *Seoul Declaration* was agreed, that:

- expressed support for the initiative of the UN to foster geospatial information management among UN Member States, international organizations, and the private sector, and in this regard:

- to take actions to foster and strengthen national, regional and global cooperation with the aim of developing an interconnected global community of practice on geospatial information under the umbrella of the United Nations;
- to devise effective processes for jointly and collaboratively promoting common frameworks and standards, as well as harmonized definitions and methods for the treatment of national geospatial data in order to enhance geospatial information management at the national, regional and global level;
- to share experiences in policy-making, supporting legislation, and funding strategies, to encourage and develop best practices in geospatial information management (ie, collection, storage, maintenance and dissemination) at all levels, including integration of spatial data with thematic data from other sources, and to facilitate and promote capacity development in the developing countries.



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

The aims and ambitions of the GGIM are entirely in line with the established objectives and the ongoing achievements of the IHO regarding standardisation and ease of access and interoperability of geospatial data, capacity building for those States where improvements are required, and progress towards the establishment of robust spatial data infrastructures that include the maritime domain. In the nautical charting domain, the IHO and its Member State organisations can be seen as being in advance of the global objectives of the UN-GGIM in many ways.

The next meeting of the GGIM will take place at UN Headquarters in New York from 13 to 15 August 2012. The next GGIM global forum will be held in Dohar, Qatar in early December 2012.

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

The 5th Meeting of the Officers from the IHO, IMO, IOC, WMO and IALA, responsible for Capacity Building matters, met at the IALA Headquarters. IAEA could not be present at this time. A representative from FIG (Fédération Internationale des Géomètres) attended as an observer. This 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.



IMO ASSEMBLY 27

London, UK, 21-30 November

The 27th session of the IMO Assembly was held at the IMO Headquarters in London from 21 to 30 November 2011. The IHO was represented by the President and PAH.

Welcoming addresses were made by Admiral Mitropoulos, IMO Secretary-General, Mr Mike Penning, United Kingdom Parliamentary Under-Secretary of State at the Department of Transport, and His Excellency Ambassador Georg Boomgaarden of Germany, the outgoing President of the 26th Assembly. His Excellency Ambassador Eduardo Medina-Mora of Mexico was elected President of the 27th Assembly.

The Assembly established two Committees to consider 1) Administrative, Financial, Legal and Technical Cooperation Matters and 2) Technical Matters. Matters relating to the Maritime Safety Committee (MSC) were considered by Committee 2 and their decisions were subsequently approved by the Plenary. The reports of the 87th, 88th and 89th sessions of the Maritime Safety Committee were approved.

The Assembly adopted resolution A.1051(27) on the IMO/WMO Worldwide Met-Ocean Information and Warning Service Guidance Document. This resolution complements 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, 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 4 years from 1 January 2012. The Assembly also unanimously adopted a resolution thanking the outgoing Secretary-General, Mr. Admiral Efthimios E. Mitropoulos of Greece for his longstanding service to the IMO, the last 8 years of which were 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

London, UK, 21-30 November

The second Annual ECDIS Revolution Conference and Exhibition, organised jointly by Quaynote Communications and Da Gama – Navigation Management, was held in London on 23- 24 November 2012. Steve Shipman, PAH, 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. Further information on the Conference is available from their web site <http://www.ecdisrevolution.org/>.

CONFERENCES / SEMINARS / WORKSHOPS

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.

BRINGING LAND AND SEA TOGETHER (BLAST) CONFERENCE

Ostend, Belgium, 22 September 2011

The 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 International Maritime Organization.

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 on S100 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 Tony Pharaoh (IHB) and Thomas Richardson who provided a presentation on the S-100 standard. Further information is available from the BLAST web site at <http://www.blast-project.eu>

VISITS TO IHB

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

A course leader and seven students attending a 9-month course, funded by the NIPPON Foundation, at ITLoS in Hamburg, Germany, visited the IHB on Tuesday 15 November 2011 where they received 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 will visit other intergovernmental organizations in Europe.

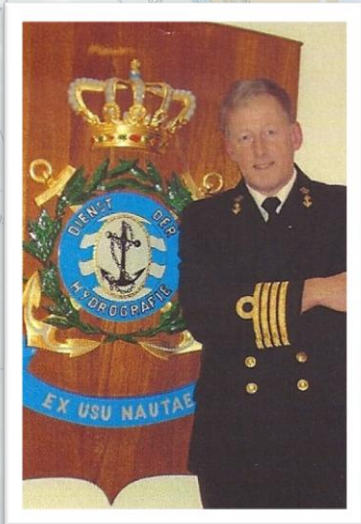
The course leader came from Chile and the students were from: Angola; France, Jamaica, Panama, Senegal, Tonga and Vietnam.



NEW HYDROGRAPHERS

NEW HYDROGRAPHER OF THE ROYAL NETHERLANDS NAVY

From September 2011



Captain Peter Kortenoeven was born in the village of Zwammerdam on the first 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 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 in the Netherlands he took command of the frigate HNLMS Bloys van Treslong and subsequently commanded HNLMS Van Nes which took part in 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 Netherland 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 headquarter in Brussels as maritime planner where he focused on NATO's Counter Piracy Operations. As of 1st September 2011 he is 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 April 11th, 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.

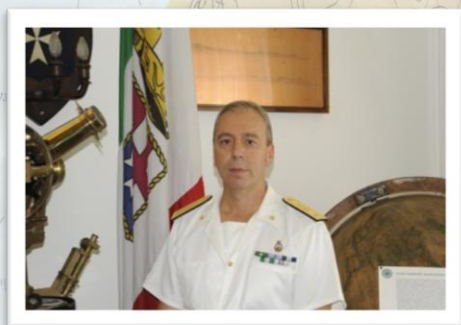
He served on VARIOUS the Brazilian Navy ships, being Commanding Officer of Auxiliar Ship GASTÃO MOUTINHO and Frigate DODSWORTH. His shore billets include the Head of South East Naval Ships Group, Port Authority of São Paulo, the Sea Studies Institute ALMIRANTE PAULO MOREIRA, and the Directorate of Civil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

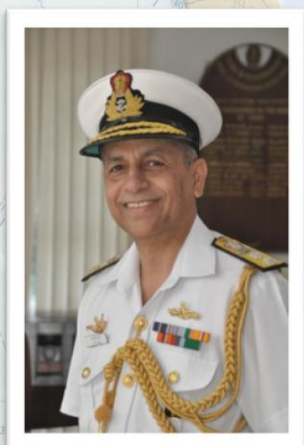


- After High School, he joined the Livorno Naval Academy of the Italian Navy in 1974 and graduated in 1978. Following graduation from the Naval Academy, he served as an Artillery and Missile Officer and then as Chief Artillery Officer on board warships.
- After completing the Naval Staff College for 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 SK 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.



INFORMATION OF INTEREST

WEDDING OF HIS SERENE HIGHNESS PRINCE ALBERT II OF MONACO & MISS CHARLENE WITTSTOCK

Monaco, 2 July 2011

On 2 July Vice Admiral Alexandros MARATOS, President IHB, 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*).

MEMORANDUM OF UNDERSTANDING (MoU) BETWEEN THE REPUBLIC OF KOREA AND THE IHO ON SUPPORT OF THE IHO CAPACITY BUILDING

The president of the Directing Committee Vice-Admiral Alexandros Maratos visited the Republic of Korea 16-18 May and with the Minister of Land, Transport and Maritime Affairs (MLTMA) signed an MoU, under which the MLTMA of the Republic of Korea will make financial contributions to the IHO Capacity Fund. The contributions will be used to help developing countries to improve their abilities to comply with international standards relating to hydrographic surveying, oceanographic observation, nautical charts and electronic navigational chart production. During his staying in Korea, Vice-Admiral Alexandros Maratos was received by the Minister of Foreign Affairs and had the opportunity to visit the Korean Oceanographic and Hydrographic Administration (KHOA) and meet with its Director General Mr. Joo Bin IM and Staff and been informed of its objectives, responsibilities and the hydrographic and charting activities.

VISIT TO UNITED KINGDOM HYDROGRAPHIC OFFICE UK, 19 October

Captain Gorziglia (IHB Director) and Mr Yamao (Seconded Professional Assistant at the IHB) visited the United Kingdom Hydrographic Office (UKHO) on 19 October 2011, to brief the trainees, who were attending the Japan Capacity Building Project funded by the Nippon Foundation, about the IHO and the importance of Hydrography. The visiting team also included Mr. Kanazawa from the Japan Hydrographic Association.



The course started on 5 September 2011 and the first module finished on 7 October. The three five-week modules will finish on 16 December 2011.

Capt. Gorziglia had an open and frank exchange of views with the 6 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. Following this exchange of views, Capt. Gorziglia gave a presentation that covered the areas of influence of Hydrography and the responsibilities of Governments as regards 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.



NATIONAL DAY OF MONACO 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 Mireille Mollet (France) was awarded a long service medal in recognition of many years of loyal service at the I.H. Bureau. She received a bronze medal for 20 years' service at a ceremony held at the Oceanographic Museum of Monaco. Our warm congratulations to Mireille !



PREVIOUS EVENTS

JAPAN CAPACITY BUILDING PROJECT 5th Coordination Meeting IHB, Monaco, 9 February

The 5th Co-ordination Meeting of the participants in the Japan Capacity Building Project was held on 9 February at the IHB, Monaco, under the chairmanship of Dr Nishida.

The Agenda included the assessment of the overall progress of the Project and lessons learned from the 2nd Course.

The UKHO made a presentation on the evaluation of the last training course, including the selection process and the difficulties some trainees had in the language of the course. As of networking aspect, the UKHO introduced that the trainees of the first courses and the second course had got a close relationship between them and inside them. The first trainees gave welcoming messages to the second course by a presentation file, a video and messages. The second course trainees are also keeping touch to each other by social networking website via Internet.

The UKHO acknowledged the visit by the IHB, Captain Gorziglia and Mr Nakabayashi, to motivate the trainees. They are also looking forward to receiving someone from Nippon Foundation to visit the training course to motivate and share and exchange the idea.

The JHA informed that this project is planned to manage 4 courses (from 2009 to 2012). The meeting agreed to keep making the effort to continue the project after that.

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

Following the ECDIS anomalies meeting (15-16 February 2011), 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 persons were in attendance, plus two via telephone conference. The main purpose of this event was to discuss issues concerning the implementation of the current edition 1.1 of S-63 and gather input/feedback to guide a new edition.

It resulted that the extent to which the current edition of S-63 has been implemented is not clear. Although inclusion of S-63 in the IEC 61174 standard (ECDIS testing) has led to a good level of compliance post 2009, there is still a significant number of older systems which may not implement the full requirements of S-63 edition 1.1. A survey was designed by DPSWG and IHB, and all accredited data servers and ECDIS manufacturers were consulted with the aim of establishing a fuller picture of S-63 compliance across all implementers. However, early results of the survey have been disappointing, and DPSWG and IHB were to follow up scheme participants for answers. The results of this effort will feed joint RENC discussions and assist data servers and other stakeholders in their own migration to a full implementation of S-63 edition 1.1.

A "wish list" of requirements for a future version of S-63 was compiled. This touched on many areas of ENC authentication and distribution and provided valuable guidance for when a new version approaches the drafting stage.



13th MEETING OF THE STANDARDIZATION OF NAUTICAL PUBLICATIONS WORKING GROUP (SNPWG)

NHS, Norway, Stavanger, 4-8 April

The Norwegian Hydrographic Service hosted the 13th SNPWG meeting at the Victoria hotel (Stavanger) during the first week of April. The meeting was chaired by David Acland (UKHO), and members from the following Member States participated in the meeting; Denmark, Estonia, Finland, France, Germany, Japan (JHOD) Japan (JHA), Norway, UK, USA (NOAA) and USA (NGA). Members 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 modeling of nautical publications information, the development of a product specification for marine protected areas, relevant activities being undertaken within the BLAST¹ 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 (Arne Ofstad), the MAREANO seabed mapping program (Hanne Hodnesdal) and High resolution tidal models (Birgit Kjoss Lyng). An excursion on the school ship M/S Gann followed by a visit to the Kvitsoy Island Vessel Traffic Management centre, provided members with a unique opportunity to see some of the beautiful Norwegian scenery, and to gain an insight into the complexities of monitoring and directing maritime traffic in the region.



Participants of the 13th SNPWG



¹ Bringing Land and Sea Together (BLAST)

JAPAN CAPACITY BUILDING PROJECT 6th COORDINATION MEETING IHB, Monaco, 18-19 April

The 6th Co-ordination Meeting of the Japan Capacity Building Project was held on 18 and 19 April, 2011, at the International Hydrographic Bureau (IHB), Monaco mainly to examine the result of the 2nd course held in 2010 and to select the applicants to the 3rd course of the project, which will be held from 5th September to 16th of December, 2011.

The participants were Dr. NISHIDA, and Mr. KANAZAWA from Japan Hydrographic Association (JHA), Mr. WESTCOTT and Mr. BRYANT from United Kingdom Hydrographic Office (UKHO), Captain GORZIGLIA (IHB director) and MR. YAMAO (Seconded Professional Assistant at the IHB).

Under the chairmanship of Captain GORZIGLIA, the discussion went on as follows;

The report of the evaluation of the 2nd course and some other agenda items were discussed and trainee to the 3rd course was selected under the chairmanship of Captain GORZIGLIA. The discussion was summarized as follows;

The report of the evaluation of the 2nd course, was introduced from UKHO. Participants found it very motivating to learn that all students that attended the second course are in fact applying the knowledge they got at their institutions. Participants recognized the importance of the answer to the questionnaire to improve the delivery of the program as well as to assess the selection procedure and considerations made in that process.

As the Selection Board, participants selected the applicants from Bangladesh, Indonesia, Mexico, Oman, Pakistan and Philippines for the 3rd course from 22 candidates from 19 countries.

IHB and JHA expressed their thought about visiting UKHO training center after the end of 1st module of 3rd course. UKHO proposed to hold the alumni meeting of 1st to 3rd course in Taunton during the period of 4th course in 2012 to share the alumni's experience.

Participants made a discussion about the future plan of this project and confirmed the need to keep talking about this issue.

The 7th coordination meeting will be held in Taunton on 6 and 7 February 2012 to examine the result of the 3rd course and to organize the 4th version of the course. The 8th coordination meeting will be held in Monaco on 19 and 20 April, 2012 to select the participants of the 4th course.

PORT MANAGEMENT ASSOCIATION OF WEST AND CENTRAL AFRICA (PMAWCA) Ghana, Accra, 27 April – 6 May

The IHO was invited to attend the 34th Annual Council Meeting of the PMAWCA to take place in Accra, Ghana, from 27th April to 06th may 2011.

Unfortunately due to early commitments, the Chair of the Eastern Atlantic Hydrographic Commission could not participate. Nevertheless a goodwill address was provided for the Opening Ceremony of the event, highlighting the importance of developing hydrographic capabilities in the region.



25TH INTERNATIONAL CARTOGRAPHIC CONFERENCE

France, Paris, 3-8 July

SHOM² participated in the 25th International Cartographic Conference which was held at the *Palais des Congrès* in Paris from 3-8 July 2011. This event - organized by the French Committee of Cartography³ in partnership with SHOM, IGN⁴, IRD⁵, the BRGM⁶ and BNF⁷ - had not been held in France since 1961.

It brought together around 1700 experts in cartography and geomatics (speakers, attendees, exhibitors...) from 104 countries. Some of the participants travelled to Brest on 1st July to visit 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 dynamicⁱ », “Two centuries of cartography in marine sedimentologyⁱⁱ”, as well as a presentation by Mr. 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 presented its perception of nautical cartography in the Adriatic Sea.

SHOM's stand particularly 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 in this category was awarded to SHOM for nautical chart n° 7546 INT 7120 of the Port of Djibouti published end 2010, and one of the 220 original charts produced by SHOM on the coasts of Africa.

The Litto3D® programme was also awarded the first prize of the jury in the category « digital products ». Jointly produced by the IGN for the land part and by SHOM for the offshore part, Litto3D® is a three-dimensional modeling of the shoreline providing continuity between the land and the marine environment, obtained by using the most recent airborne laser technology. This accurate data of “aerial bathymetry” is the basis of the geographical coastal reference system which targets multiple applications: protection of ecosystems, risk prevention, regional development, exploiting natural resources, scientific studies ...

ⁱ by Olivier Parvillers

ⁱⁱ by Thierry Garlan

² Service hydrographique et océanographique de la Marine

³ Comité français de cartographie

⁴ Institut géographique national (French national geographical institute)

⁵ Institut de recherche pour le développement (Development research institute)

⁶ Bureau de recherches géologiques et minières (Geological and mining research bureau)

⁷ Bibliothèque nationale de France (French National Library)

