



2009

JANUARY TO MAY BULLETIN

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REGIONAL HYDROGRAPHIC COMMISSIONS

9th NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION (NIOHC) MEETING

Port Victoria, Seychelles, 25-26 February 2009

The 9th Meeting of the North Indian Ocean Hydrographic Commission (NIOHC) took place in Port Victoria of Seychelles, on the 25 and 26 of February, under the Chairmanship of Admiral RAO, the Chief Hydrographer to the Government of India. Representatives from Saudi Arabia, Oman, Mauritius, Thailand, Pakistan, Bangladesh, Norway, UK, USA, Seychelles, India, France and the Intergovernmental Oceanographic Commission participated. Vice-Admiral MARATOS represented the IHB. In his opening remarks, VAdm MARATOS highlighted the importance of the RHCs in the work and activities of the Organization and the obligation of coastal States, under Regulation 9 of Chapter V of SOLAS. He also referred to main issues that have taken place during the intersessional period and especially to the topics concerning the cooperation with other international organization and especially IMO, IOC, IALA and WMO. He briefly presented the actions that have already taken place for the preparation of the 4th EIHC and the status of approving the Protocol of Amendments to the IHO Convention and the acceptance of new States.

The Commission examined various important issues. The national disaster plans and the need of closer cooperation, the status of hydrographic surveying, nautical charting and the promulgation of MSI, the coverage of the area with ENCs, the Capacity Building requirements, were some of the issues discussed. France presented a paper on the hydrographic and cartographic support to the international anti-piracy naval forces operating outside the Somalia coast. VAdm MARATOS presented a paper on the need for the States to provide data for the shallow water bathymetry in order to improve the IHO/IOC GEBCO Grid, as it had been requested with CL 36/2006.

During his staying in Seychelles, VAdm MARATOS, together with the Chairman of the Commission RAdm RAO, were received by Mr. Joseph BELMONT, the Vice-President of the Republic of Seychelles, Mr. Joseph NOURRICE, the Principal Secretary, and Mr. Joel MORGAN, the Minister for Environment, Natural Resources and Transport. In all these meetings VAdm MARATOS was briefly explained the importance of hydrography, the obligation of coastal States for the provision of hydrographic services under SOLAS and the benefits for Seychelles to become full member of the Organization.

It was decided the 10th Meeting of the NIOHC to take place in Bangladesh, early February 2010, under the Chairmanship of RAdm RAO.

9th MEETING OF THE SOUTH WEST PACIFIC HYDROGRAPHIC COMMISSION (SWPHC)
Port Moresby, Papua New Guinea, 9-11 March 2009

The 9th meeting of the South West Pacific Hydrographic Commission (SWPHC) took place in Port Moresby from 9 to 11 March 2009, under the Chairmanship of Ingénieur général Gilles BESSERO (France). The meeting was organized and hosted by the National Maritime Safety Agency (NMSA) of Papua New Guinea. Seven of the eight Member States were represented at this meeting, plus observers from Cook Islands, Kiribati and Solomon Islands and several survey industry representatives from the region. In total, 17 delegates were in attendance. The IHB was represented by Captain WARD.



The first day was dedicated to a technical workshop whose objective was to raise awareness of the benefits of hydrography in the South West Pacific region and to stress national obligations to provide hydrographic services under SOLAS Regulations. One of the aims of the IHO and the SWPHC is to assist developing Island States in the region to establish an in-country capability to provide at least updated hydrographic information to a charting authority as part of meeting their SOLAS obligations. This goes hand in hand with seeking firm government commitment to support these capabilities.

At the meeting national reports and IHO activities were reviewed, especially those of the International Hydrographic Bureau, the IHO Strategic Plan Working Group and the IHO Hydrographic Services and Standards Committee. The participants discussed various topics of interest to the region and in particular they referred to the progress of surveying operations, the coverage and technical details of Electronic Navigational charts (ENCs), the developments with INT charts, and the coordination of Maritime Safety Information (MSI).

Capacity Building for the region was discussed at length and several actions were identified and prioritized based on work done in the technical workshop held on the first day of the meeting. As a result, a number of Capacity Building proposals will be presented to the next meeting of the IHO Capacity Building Sub-Committee.

France agreed to continue to chair the Commission for the next two-year term, with New Zealand continuing to serve as Vice-Chair.

Following a kind invitation from the Solomon Islands, the Commission decided to hold its 10th meeting in Honiara in late 2010.

3rd MEETING OF THE SOUTH WEST ATLANTIC HYDROGRAPHIC COMMISSION (SWAtHC)

Montevideo, Uruguay, 26 – 27 March 2009

The Third Meeting of the South West Atlantic Hydrographic Commission was held at the "Servicio de Oceanografía, Hidrografía y Meteorología de la Armada" (SOHMA) in Montevideo, Uruguay from 26 to 27 March 2009. The Hydrographers of Argentina, Brazil and Uruguay were present, along with the Hydrographers of Bolivia, Chile, Paraguay, the IHB and hydrographic industry representatives who attended as Observers.

Captain Pereyra, Hydrographer of Uruguay and Chairman of the Commission, welcomed the participants and expressed his satisfaction at having all the Commission Members present at the meeting. He also thanked all the Observers for having accepted the invitation and said how pleased he was that Uruguay was hosting this event.

Captain Gorziglia, IHB Director, made a presentation highlighting the main topics dealt with by the IHO since the last meeting of the Commission. He particularly highlighted those matters which will be discussed at the forthcoming Extraordinary Hydrographic Conference in June 2009, and the Regional Hydrographic Commissions' responsibilities as indicated in the IHO WP for 2008-2012.

The Commission examined the actions agreed at the last meeting and confirmed that all the tasks had been completed in a very cooperative manner.

The Commission then examined the National Reports submitted by its members and several proposals related to the work of the IHO and its bodies. These proposals and associated decisions were briefly as follows:

a) The SWAtHC Planning Committee was tasked to:

- Examine whether some symbols proposed by Brazil could be accepted for application to "Hidrovia";
- Study the applicability of the BSHC ENC scheming model within the SWAtHC.
- Study and propose the recommended period required for adapting and applying S-100, once approved.
- Study the possibility of adopting a common procedure to ensure consistency between paper charts and ENCs.
- Study how the SWAtHC could contribute to the IHR.
- Study the feasibility and merit of preparing joint standardized Nautical Publications.

b) The SWAtHC Hydrographic Offices to:

- Conduct a detailed verification of possible inconsistencies between paper charts and ENCs and implement mechanisms to warn users when inconsistencies have been detected.
- Widely disseminate the IMO Guideline for Transition from Paper Chart to ECDIS.
- Periodically review the content of the back-up paper chart catalogue posted on the IHO web site.

c) SWAtHC Member States to approve the Reports of the HCIWWG, ISPWG and MSDIWG submitted to the 4th EIHC.

d) SWAtHC Chairman to:

- Represent the Commission at the IRCC1 highlighting in his report that Bolivia and Paraguay have been accepted as associate members of the Commission; the efforts in CB and the advancement in ENC production.
- Update and confirm to the CBSC the present and future regional needs in terms of capacity building.

e) Argentina and Brazil to join efforts in ensuring MSI transmission through SafetyNET.

f) Argentina to assume the Chair of the SWAtHC and to organize SWAtHC4 in the last week of March or first week of April 2010.

Considering the requests made by the Director of Hydrography and Navigation of the Paraguayan Navy and the Director of the National Naval Hydrographic Service of Bolivia to become Associate Members of the SWAtHC, the Commission unanimously decided to accept their requests and to initiate the integration procedure. A copy of the Statutes was provided to each Director in order to facilitate the formalities with their national authorities.

The representatives from Bolivia and Paraguay gave a presentation on the status of hydrography in their respective countries. Both indicated that inland water hydrographic surveys were of vital importance to their economies which essentially depended on shipping. The Hydrographer of Chile offered a complete presentation on SHOA's experience with the Print-on-Demand procedure, which has resulted in some economies and a better service to end-users.

Before closing the meeting, three hydrographic companies – Cledirsa-SevenCs, Jeppesen, and L3 - provided presentations on the latest developments in their respective areas.

The Hydrographers of Argentina and Brazil, together with Captain Gorziglia (IHB Director), were received by the CNO of the Uruguayan Navy. During the visit the Navy's role in contributing to national development and integration through the provision of hydrographic, cartographic and safety of navigation information, products and services was particularly highlighted.



Group photo of all participants at SOHMA entrance.

The Hydrographer of Paraguay and Captain GORZIGLIA



53rd MEETING OF THE NORDIC HYDROGRAPHIC COMMISSION (NHC)

Helsinki, Finland, 21-23 April 2009

The 53rd Meeting of the Nordic Hydrographic Commission was hosted by the Finnish hydrographic Office at their premises in Helsinki, between 21 and 23 April 2009. The meeting was chaired by Mr Jukka VARONEN from Finland. All RHC Members were represented: Denmark, Finland, Iceland, Norway and Sweden. Captain WARD represented the IHB as an observer.

The meeting reviewed hydrographic progress in the region and various developments affecting the region and agreed on a number of actions. These are described in the records of the meeting posted on the IHO website at: www.iho.int → *committees & WGs* → *RHCs*. Notable discussion points included: the status of approval of the Protocol of amendments to the IHO Convention and new IHO Member States; issues to be discussed at the forthcoming 4EIHC and IRCC-1 meetings; the Nordic contribution to the HSSC data Quality Working Group; the provision of guidance to the Nordic Working Groups dealing with production of charts, exchanging digital information, validation of multibeam data and distribution of information on nautical publications; the WEND concept and ENC distribution; and progressing various hydrographic related issues raised in the National Reports.

Iceland will now chair the Nordic RHC until the 54th meeting in Iceland between 13-15 April 2010.



Participants of the NHC 53rd Meeting, in Helsinki, Finland, 21 - 23 April 2009.

WORKING GROUPS

WORKING GROUP ON THE PREPARATION OF A CAPACITY BUILDING TRAINING COURSE

UKHO, 20 February 2009

At its 15th Meeting in 2008, ABLOS established a WG with the task of preparing a Capacity Building training course, which could be offered to the IHO Capacity Building Committee. The WG met at the UK Hydrographic Office (UKHO), under the chairmanship of Mr. Chris CARLETON, Head of the Law of the Sea Division, at UKHO, on Friday 20 February.

An outline programme for possible boundary and delimitation training was prepared and potential lecturers identified. The proposal once finalised will go to ABLOS for approval and onward submission to the CBC. The provision of courses will depend on both the CB requirements and the availability of lecturers.

S-52 REVISION MEETING

IHB, Monaco, 26-27 March 2009

An *ad hoc* group of the IHO Digital Information Portrayal Working Group (DIPWG) met at the IHB, on 26-27 March 2009, to undertake a revision of IHO Publication S-52: “*Specifications for Chart Content and Display Aspects of ECDIS*”. CHRIS-20 (Niterói, Brazil, November 2008) directed DIPWG to “undertake a revision of S-52, including all annexes” in order to take account of the adoption by IMO in December 2006 of revised *Performance Standards for ECDIS* and the transfer of S-52 Appendix 3 *Glossary of ECDIS-related* to the IHO Hydrographic Dictionary S-32, and with a view to simplifying S-52. The group identified all operational specifications of the existing S-52 (main part) which were moved to the IMO PS for ECDIS and undertook to develop a single document incorporating the existing Appendix 2 of S-52 *ECDIS Colours & Symbols Specifications* and the remaining specifications of S-52 on chart content. The resulting document, entitled *S-52: Specifications for Chart Content and Display Aspects of ECDIS* and which will focus on ECDIS portrayal aspects, will be submitted to the Hydrographic Services and Standards Committee (HSSC) at its inaugural meeting in Singapore in October 2009. The *IHO Presentation Library for ECDIS* will become an annex to the revised S-52. The group did not touch Appendix 1 *Guidance on Updating the ENC*, as the newly formed ENC Updating Working Group (EUWG) has been tasked to review this document.



TIDAL AND WATER LEVEL WORKING GROUP (TWLWG)

1st Meeting, Rio de Janeiro, Brazil, 30 March – 1st April 2009.

The 1st meeting of the TWLWG was held in Niteroi, Rio de Janeiro, Brazil from 30 March to 1 April 2009. Representatives from Australia, Brazil, Canada, Chile, Finland, France, Norway, Portugal, Spain, UK, USA, Venezuela and the IHB attended the meeting. Mr Dan Pillich, Expert Contributor, and CDR Marcel CAVALCANTE, IOC/GLOSS observer also attended.

Captain Luiz TORRES, on behalf of Admiral Palmer FONSECA, the Brazilian Director of Hydrography and Navigation, opened the meeting. He commented on the valuable assistance on tidal matters that Brazil had received from WG Member States following Brazil's first attendance at the former Tidal Committee meeting in Canada in 2007. Mr Stephen GILL (USA) welcomed delegates to his first meeting as Chair.

Topics discussed included: A standard for digital tide tables; Capacity Building; water level issues in non-tidal areas such as the Baltic; and the dynamic application of tides in ECDIS. The meeting report and all papers and presentations are available from the TWLWG section of the IHO web site.

The meeting included a visit to Isla Fiscal, the former headquarters of the Brazilian Directorate of Hydrography and Navigation, now a museum, and the home of the Brazilian primary tide gauge.

The meeting unanimously elected Mme Lucia PINEAU-GUILLOU (France) as the Vice-Chair and it was agreed that, pending formal agreement from Norway, the 2nd meeting would be held in Stavanger, Norway, in April 2010.



7th MEETING OF THE IHO DATA PROTECTION SCHEME WORKING GROUP (DPSWG)

IHB, Monaco, 31 March & 1 April 2009

The IHO Data Protection Scheme Working Group (DPSWG), which is in charge of developing and maintaining the IHO standard S-63 *IHO Data Protection Scheme*, held its 7th meeting at the IHB, Monaco on 31 March and 1 April 2009. The meeting was chaired by Mr Jonathan Pritchard (UKHO) and was attended by 11 representatives from the IHO and the private sector, including two participants via telephone conference.

The meeting aimed at reviewing the implementation of S-63 edition 1.1 since its publication in early 2008 and at identifying the problems encountered by S-63 users, whether as Data Servers or OEMs. The IHB reported that, as of March 2009, 119 OEMs and 22 Data Servers have received S-63 accreditation from the IHB acting as S-63 Scheme Administrator. Most of the OEMs are ECDIS/ECS manufacturers and/or software developers. Data Servers include private companies, HOs and RENCs. It was realized that not all S-63 users had implemented edition 1.1, i.e. a number of them were still using the previous edition 1.0 which created compatibility problems between Data Servers

and OEMs having different implementations of S-63. It was agreed that the IHB would contact all S-63 users, urging those who have not yet moved to edition 1.1 to do so as soon as possible.

As a result of the above review, a list of proposed amendments to S-63 edition 1.1 was agreed, based on experience gained since its publication. It is planned to incorporate these changes in a revised edition 1.1.1 of S-63 to be published later in the year 2009. The meeting also considered the potential areas of improvement for S-63, which will result from the publication of S-100 and S-101.



Participants in the 7th DPSWG Meeting, including two via telephone conference (inset)

3rd MEETING OF THE IHO MARINE SPATIAL DATA INFRASTRUCTURE WORKING GROUP (MSDIWG)

IHB, Monaco, 2-3 April 2009

The 3rd meeting of the IHO Marine Spatial Data Infrastructure Working Group (MSDIWG) took place at the IHB on 2-3 April 2009. The meeting was chaired by Mr. John Pepper (UKHO) and 10 persons were in attendance, including one via telephone conference, representing the HOs of Australia, Finland, France, Germany, Norway, UK, USA-NOAA and the IHB.

The main purpose of this meeting was to review and complete Guidelines for HOs on MSDI, a draft of which had been prepared by the Chairman in advance of the meeting. These guidelines will be organized into 3 parts, i.e.

- Part I - *All about SDI*, providing general information on SDI/MSDI;
- Part II - *Getting Ready for SDI*, explaining the role, benefits, challenges, etc. for HOs;
- Part III - *SDI – Making it Happen!* detailing the requirements and processes to be followed by HOs to contribute to, or develop an SDI/MSDI.

An improved version of the guidelines was completed during the meeting. Following its further refinement by correspondence, this document will be submitted to the 4th Extraordinary International Hydrographic Conference in Monaco in June 2009. It is planned to eventually make it an IHO special publication.

The meeting also discussed an MSDI Capacity Building plan and an MSDI Stakeholders Involvement plan. These two documents will be completed by correspondence.



Participants in the 3rd MSDI Meeting, including one via telephone conference (inset)

9th MEETING OF THE WORKING GROUP ON THE SAFETY OF NAVIGATION IN THE BLACK AND AZOV SEAS (BASWG)

Constanta, Romania, 23 and 24 April 2009.

The 9th Meeting of the Black and Azov Seas Working Group (BASWG) took place in Constanta, Romania, between 23 and 24 April 2009, under the Chairmanship of Rear Admiral Mustafa IPTES, the Director of the Turkish Hydrographic Office. Representatives from the HOs of Romania, Ukraine, Turkey and Bulgaria participated. The NAVAREA III Coordinator for the Mediterranean and Black Seas, Commander AGUILAR from Spain, participated as an Observer. VAdm Alexandros MARATOS, representing the Bureau, also participated as an Observer.



Firstly, the meeting considered and finalised the ToR and RoP of the WG. The Chair was tasked to pass them to the MBSHC Chair in order to be considered for approval during the next meeting of the MBSHC. The WG considered the status of the INT charts and ENCs productions and discussed issues of interest that will accelerate the procedures for the production. Cooperation agreements, promulgation of MSI in the area, the establishment of a sub-region of NAVAREA III under the responsibility of the Turkish HO, the update of S-55 and Capacity Building and training were some of

the issues that were considered in detail. VAdm MARATOS provided an analysis of the developments and progress for the 4th EIHC.

It was decided that the next meeting will take place in Istanbul in 2010. The exact dates will be decided early next year.

DIGITAL INFORMATION PORTRAYAL WORKING GROUP (DIPWG)
First Meeting, Ottawa, Canada, 4-8 May 2009
[held jointly with the 18th TSMAD Meeting]

The first meeting of the IHO Digital Information Portrayal Working Group (DIPWG) [Formerly, CSMWG – Colours & Symbols Maintenance WG] was hosted by the Canadian Hydrographic Service at Camsell Hall, Ministry of Natural Resources, Ottawa, on 4-8 May 2009. This meeting was held jointly with the 18th TSMAD Meeting, with Mr. Colby HARMON (USA-NOAA) chairing DIPWG-1 and Mr. Barrie GREENSLADE (UKHO) chairing TSMAD-18. The 40 attendees from HOs, the private sector and the IHB were welcomed by the Canadian Hydrographer, Dr Savithri NARAYANAN. The main DIPWG points are summarized below.

A progress report was presented on the development, under contract to the IHB, of the S-100 portrayal model. Based on ISO 19117, the model is being populated in an XML format from the current IHO Presentation Library. This will result in the S-100 portrayal register. The meeting approved the work accomplished to date and agreed that contract work be continued so as to include S-101 portrayal. Translation into XML of the existing Conditional Symbology Procedures (CSPs), carried out under contract to USA-NOAA, was also presented.

Symbology for AIS-equipped Aids to Navigation (AtoNs) and virtual AIS was discussed, based on IALA and IMO/MSC86 papers. The meeting acknowledged that IHB would suggest at MSC86 that the usefulness and applications of virtual AIS be clarified, and that any charting implication be referred to the IHO.



A draft revised S-52, incorporating all components of the existing S-52 into one single document, also taking into consideration the latest issues of the IMO performance standards for ECDIS and the IEC ECDIS test standard (IEC 61174), was presented and approved by the meeting.

Following a proposal from Sweden, there was discussion on text placement on ECDIS, and on whether clutter reduction / improved legibility can better be achieved through encoding cartographic attributes, or additional portrayal rules. Another Swedish proposal relating to ENC cell loading strategy depending on display scale and to be implemented when zooming in/out, was agreed upon in principle.

A “deferred” amendment of the current IHO Presentation Library for ECDIS, i.e. Edition 3.4 – January 2008, containing corrections to minor deficiencies identified by DIPWG and TSMAD, was discussed and agreed. It will enter into force when the next edition of the PL is published.

Discussions at the joint meeting pertaining to TSMAD are reported on separately.

The next joint DIPWG-TSMAD meeting is scheduled to be held in Rostock, Germany, in May 2010.

COMMITTEES / SUB-COMMITTEES / COMMISSIONS

IMO COMSAR 13

IMO Headquarters, London, 19-23 January 2009.

The 13th session of the IMO COMSAR Sub-Committee was held at the IMO HQ in London from 19 – 23 January 2009. The President, PA(H) and the Chairman of CPRNW represented the IHO. The Co-ordinators from NAVAREA I (UK), II (France), III (Spain), IV (USA), IX (Pakistan), XII (USA), XVII and XVIII (Canada) and XIX (Norway) were present.

The Sub-Committee reviewed the report of the CG established at COMSAR 12 on extending the WWNWS to Arctic waters. The report was accepted and the CG re-established with new ToR in order to guide and assist the 5 new Arctic NAVAREAS to reach Operational Status in 2011.

The Sub-Committee considered submissions by the IHO and approved a draft revised Joint IMO/IHO/WMO Manual on Maritime Safety Information which will now go to MSC 86 for adoption and to the issue of a revised COMSAR Circular regarding the details of NAVAREA Co-ordinators. The Sub-Committee noted the IHO report on the outcome of CPRNW10.

The IMO Navtex Co-ordinating Panel, chaired by Commander Tim Sewell of the UKHO, met on Thursday lunchtime during COMSAR.

Members of the CPRNW WG (France, Greece, UK, USA, Inmarsat, WMO and IHB) reviewing the WWNWS documentation, set up at CPRNW7 in 2005 met in the week following COMSAR. The meeting completed the draft revision of the International SafetyNET Manual which will now be considered at PRNW1 in August 2009 prior to submission to IHO and WMO Member States for agreement and subsequent submission to COMSAR.



JAPAN CAPACITY BUILDING PROJECT
1ST COORDINATION MEETING
IHB, Monaco, 11 February 2009

The 1st Co-ordination Meeting of the participants in the Japan Capacity Building Project was held on 11 February at the IHB, Monaco, under the chairmanship of Captain GORZIGLIA (IHB Director). The following representatives were present:

Japan Hydrographic Association

Dr. Hideo NISHIDA
Mr. Teruo KANAZAWA

Japan Hydrographic and Oceanographic Department

Mr. Tomotaka ITO

United Kingdom Hydrographic Office

Mr. Peter WESTCOTT
Mr. Jeff BRYANT

International Hydrographic Bureau

Captain Hugo GORZIGLIA
Captain Federico BERMEJO
Mr. Shigeru NAKABAYASHI

Captain GORZIGLIA, IHB Director and CBC Chairman, opened the meeting and welcomed the participants. He stressed that the concept of Capacity Building was not limited to training, but was far-reaching. Therefore he hoped that the Japan CB Project would draw attention to the IHO's important role in coordinating and fostering Capacity Building and that also the project would help to raise awareness of the importance of nautical cartography for the national development of coastal States.

The Agenda was adopted unanimously.

Background Information

The Chairman explained that the present project was the result of a previous project which had been discussed between the Nippon Foundation and the JHOD. The project was not endorsed, for various reasons, but resulted in a Memorandum of Understanding between the IHB and the NF, which originated the present project, in which the IHB is participating. The development of the project includes holding Co-ordination Meetings with all interested parties and this was the first of such meetings.

Dr. NISHIDA (JHA) also provided some background information, mainly outlining the project. He raised the point that the area of application of the project was not limited to Asia. He confirmed that the project included one year of preparation and four full years of training.

Training Schedule, Content Programs, Pre-requisites

Mr. WESTCOTT presented the training course to be offered. He confirmed to the Secretary of the IAB (Capt. BERMEJO) that this course was an already existing programme "Hydrographic Data Processing and Marine Cartography" run periodically by the UKHO and that it had been recognized at Category B level in 2005 by the FIG-IHO-ICA International Advisory Board on Standards of Competence for Hydrographers and Nautical Cartographers. The intention was to organize a special course for the selected candidates, depending on the final number of students selected.

The course consists of three modules: Hydrographic Data Processing, Marine Cartography and Electronic Navigational Charts. The three modules, for the first time, will all be run at the UKHO in Taunton. He also noted that applicants must have a good standard of English, both spoken and written, in particular technical English. Applicants should also have a good mathematics and geography background.

It was agreed that it was very important that the Circular Letter, announcing the course, should stress the entry requirements as well as a commitment from employers that the future graduates will work in the hydrographic field.

The course dates were agreed as starting on 7 September 2009 to end on 18 December 2009. The participants also agreed that certain administrative details, such as the financial aspects, would be discussed between the UKHO and the JHA following the meeting.

The Chairman was invited to make an inspection visit to Taunton, during the course, to monitor the development of the course and to talk with the students and teachers.

Work Program for 2009 and Administrative Procedures

Taking into account the time required to obtain visas and to attend to other administrative details, the following calendar was adopted:

- 13 February 2009. IHB to issue a Circular Letter calling for nominations.
- 17 April 2009: Deadline for receipt of applications
- 22 April 2009: Meeting to select candidates
- 24 April 2009: Communication of selection process

In line with this calendar, the participants agreed that two meetings should be held per year. The meeting to select the candidates will be held in Monaco and the results will be communicated to the interested parties no later than 24 April.

Following an invitation from Dr. NISHIDA, the 2nd Co-ordination meeting will be held in Tokyo in February 2010 and will include the evaluation of the training provided in 2009 (Final Report of the course) and the draft work program for 2010. The UKHO noted that they make evaluation reports for every course and that therefore the report of this course could be ready two weeks before the meeting.

Dr. NISHIDA proposed that a courtesy call could be made to the President of the Nippon Foundation and that a meeting with the NF representatives could also be organized on this occasion.

The Circular Letter announcing the course was prepared by the IHB and endorsed by the participants.

The 1st Co-ordination meeting adjourned at 15:00 on 11 February 2009.

WESTERN INDIAN OCEAN GEF-MARINE HIGHWAY AND COASTAL AND MARINE CONTAMINATION PREVENTION PROJECT

Johannesburg, South Africa, 11-12 February 2009

The first meeting of the Project Steering Committee (PSC) of the official launching of the Western Indian Ocean GEF-Marine Highway and Coastal and Marine Contamination Prevention Project, took place in Johannesburg, South Africa on 11th and 12th February 2009. Representatives from the following beneficiary countries participated in the meeting: Mozambique, Mauritius, La Reunion, Seychelles, Tanzania, Comoros and South Africa. Also representatives from the IMO, IALA, WB, Indian Ocean Commission, Norway, UKHO and France/SHOM. Vice Admiral A. MARATOS represented the Organization. The meeting was coordinated by the consultant, Rear Admiral Neil GUY.

During the first day the beneficiary countries presented their activities and needs in data gathering, production of charts and promulgation of MSI. Vice Admiral A. MARATOS reported briefly on the definition of hydrography, hydrographic responsibilities and the coastal states' obligation to provide hydrographic services and the Capacity Building program of the IHO. The second day was devoted to two working groups. One that considered issues referring to the maritime safety of the project and the second one to the environment and the prevention of pollution. The first group discussed the needs and requirements for the execution of hydrographic surveys, production of charts, promulgation of MSI and requirements for Capacity Building support and technical assistance. The SHOM representative reported on the surveys that had already been undertaken in the Madagascar Channel, as a result of a bilateral agreement between France and Madagascar. There was also discussion on how these data will become available for the project and how France will continue supporting the surveying activities. The UKHO representative has agreed to examine the needs for the production of ENCs, based on already existing charts and the new data, that will be collected. It was also decided which ports of the beneficiary countries would be surveyed under the terms of the Project. The consultant will finalize the report of the meeting and will pass it to the participants for approval.

The CEO of the South Africa Maritime Safety Administration, Commander Tsietsi MOKHELE, in closing the meeting, referred to the multiple benefits that the beneficiary countries would get from this project, urging all of them to participate and contribute very actively. He pronounced the official launching of the Project.

On 9th February Vice Admiral A. MARATOS visited the Hydrographic Office of South Africa in Cape Town and he was briefed on its activities by the Director, Captain Abri KAMPFER. He was also able to visit the Hydrographic vessel PROTEA and was briefed by the Commanding Officer on her mission and activities. Vice Admiral A. MARATOS also had the opportunity to meet with the Flag Officer of the

Naval Base in Cape Town, Rear Admiral HIGGS and other high ranking Officers and discussed the importance of hydrography and how the South African Navy responded and supported national, regional and global hydrographic needs and requirements.



CIRM TECHNICAL MEETING 2009
Bilbao, Spain, 20-21 April 2009

The Comité International Radio-Maritime (CIRM) held its Spring Technical Meeting at the Bilbao Exhibition Centre in Bilbao, Spain, home of a futuristic Guggenheim Museum, from 20 – 21 April 2009. The IHO was represented by Steve SHIPMAN, (Professional Assistant – Hydrography).

The meeting was attended by 65 representatives of industry in the Maritime Radio field, including ECDIS manufacturers, and representatives of the International Mobile Satellite Organization (IMSO), the Radio Technical Commission on Maritime Services (RTCM), Inmarsat and the UK Hydrographic Office. The IHO made a presentation on the revised committee structure of IHO and the status of S100 and S101 developments.

During the meeting CIRM decided to establish an e-navigation working group in order to ensure that equipment manufacturers were able to provide appropriate input to the e-nav debate within IMO.





Guggenheim Museum, Bilbao, Spain

7th IHO CAPACITY BUILDING SUB-COMMITTEE MEETING
Seoul, Republic of Korea, 11-13 May 2009.

The 7th meeting of the IHO CBSC was held in Seoul, Republic of Korea, from 11 to 13 May 2009, under the chairmanship of Capt. Hugo GORZIGLIA (IHB Director). All Members were present, except the representative from Mexico who could not attend due to very special circumstances. A representative from Peru participated as an Observer in order to gain experience as he might soon also represent the South East Pacific Hydrographic Commission.

The Chairman provided an overview of the activities undertaken since the last meeting in 2008 highlighting the main matters that required special attention by the Sub-Committee during the sessions. The following main topics were considered by the Committee:

- Review of the Action List agreed, confirming that all matters were properly covered during the period;
- Discussion on the management of the IHO Capacity Building effort, mainly on the procedures and the management of the CB Fund;
- Discussion on the efforts in the field of CB Assessment, with emphasis on the technical visits paid in the period. S-55 progress;
- Discussion on the activities associated with CB Provision, with emphasis on the experience gained in running courses and workshops, and the importance of assessing the effectiveness of these events;
- The accomplishment of the 2008 CB WP was examined, adopting decisions with regard to non-executed activities. Also the 2009 WP was reviewed and adjusted accordingly and the 2010 CBWP was agreed, after having examined the CB 5 year WP and the new/updated requests made by different RHCs;
- The Sub-Committee updated the Management Plan and decided to establish a WG to develop a database that should help the decision-making process and keep a good record of the projects supported by the CB Fund;
- The Sub-Committee also reviewed three procedures and adopted the necessary changes in order to improve them. These procedures will enter into force for the next set of requests for support that the Sub-Committee might receive.

The Chairman reminded the Committee of the new IHO structure that entered into force on 1st January 2009. In order to comply with the new Terms of Reference, the Sub-Committee elected Mr. Janis KRASTINS (Latvia) and Cdr. Brian CONNOR (USA) as the new Chairman and Vice-Chairman, respectively. The CBSC Members emphasized that it was understood that the IHB would continue providing secretarial support, as well as the direct support of the Director in charge of CB issues.

Captain GORZIGLIA, IHB Director, assured the Sub-Committee that support would be provided to the newly elected officers to achieve the Sub-Committee's objectives.

The USA representative offered to host CBSC8 in New Orleans. The Sub-Committee gratefully accepted the invitation to hold the 8th meeting in New Orleans, USA, in May or early June 2010, on dates to be determined.

Finally, the Sub-Committee thanked the Republic of Korea's representative, and NORI in particular, for having provided such excellent facilities and outstanding organization and support to ensure a successful meeting.



Mr. Ye Jong Woo, Director General NORI, with CBSC Members at the 7th CBSC Meeting. Seoul, Republic of Korea – 11 May 2009.



CBSC Members at the opening of the 7th Meeting. Seoul, Republic of Korea – 11 May 2009.

CONFERENCES / SEMINARS

GEOMATICA 2009

Seminar on MARINE SPATIAL DATA INFRASTRUCTURES (MSDI)

Havana, Cuba, 9-12 February 2009



Capt WARD addressing GEOMATICA 2009

The 6th International Congress of Geomatics - **GEOMATICA 2009** - took place on 10-12 February 2009, in Havana, Cuba, under the general theme “New Technologies: Development and Sovereignty”, with the IHO as the co-sponsoring international organization. There were around 200 participants from 20 countries. Most of the presentations given at GEOMATICA 2009 dealt with Spatial Data Infrastructures (SDI) and geospatial standards and included a keynote presentation by Capt Robert WARD, IHB Director, on *S-100 – The New Hydrographic Geospatial Standard for Marine Data and Information*. During the conference, several “panel discussion” sessions took place on geomatics-related subjects, including a session on Marine SDIs, as a follow-on from the Marine SDI Seminar held on 9 February (see below), where the benefits of contributing to a MSDI/SDI, and the barriers to overcome, were discussed.

As part of GEOMATICA 2009, 10 workshops/seminars were held before and after the conference. This included a Marine SDI Seminar on 9 February, jointly organised by the IHB and the Cuban HO and chaired by Capt WARD. Participants were

welcomed by Col. Eloy ALUM ORTIZ, Director of the Cuban HO. The Seminar aimed at promoting the concept of Marine Spatial Data Infrastructures in Latin America and the Caribbean region, and underpinning the development of best practice in the creation of marine components of National Spatial Data Infrastructures (NSDI). It addressed the various aspects of marine SDIs, including global, regional and national initiatives, and land-sea data integration issues. All presentations given at the seminar, as well as the outcomes, are available on the IHO website (MSDIWG page).

EUROPEAN UNION (EU) – KICK OFF CONFERENCE ON MARITIME SPATIAL PLANNING (MSP)

Brussels, Belgium, 26 February 2009

The EU DG Fisheries and Maritime Affairs, as part of its work on Maritime Spatial Planning, is organising a series of four workshops in 2009. The first workshop entitled “Kick Off Conference” was held in Brussels, Belgium, on 26 February. The IHB was represented by Lt Cdr SHIPMAN (PAH). The keynote address was by Mr Joe BORG, EU Commissioner for Maritime Affairs and Fisheries. Numerous presentations were made by representatives of government and fishing, energy, environmental and shipping organisations. Some 120 delegates attended. The meeting focussed on experiences gained by States and Regions in developing MSPs and in particular looked at the sometimes conflicting requirements for shipping, energy extraction and sustainable biodiversity.

Follow on workshops will be held in Italy (April), Azores (July) and Sweden (September). The Azores meeting will be focussing on the “Knowledge Base” with the September meeting preparing some conclusions for input into the development of MSP within the EU.

**HYDROGRAPHIC CONFERENCE ORGANIZED BY
THE ROYAL NAVY OF OMAN**

Muscat, Oman, 15 – 18 March 2009

The Royal Navy of Oman and the Hydrographic Office of Oman held a Hydrographic Conference in Muscat, from 15 to 18 March 2009, the theme of which was : “Hydrography and its Role in Maritime Safety and National Development”. More than 300 delegates from various States participated in the Conference, including representatives from the UKHO, NOAA, the HO of Qatar. The Under Secretary of State for Ports and Maritime Affairs, the Chief of the Armed Forces of Oman and the Chiefs of Navy, Air force and Army, together with other officials, participated in the Conference. Vice Admiral Alexandros MARATOS was the key note speaker of this event. There were many papers of hydrographic interest that were presented. Admiral MARATOS had the opportunity to visit high level officials of Oman and discuss with them the importance of Hydrography. Omani officials will consider holding this event every two years where hydrographic issues, specifically pertaining to this region, will be examined.

A very interesting exhibition was also held alongside the Conference with the participation of many companies specialized in the production of hydrographic and cartographic instruments, software and provision of hydrographic services. Survey vessels from the USA and Pakistan visited Muscat during the Conference and they organized special events for the benefit of the participants.



INFORMATION OF INTEREST

INTERNATIONAL BATHYMETRIC CHART OF THE CARIBBEAN SEA AND THE GULF OF MEXICO (IBCCA)

10th Meeting, Havana, Cuba, 13 February 2009

The 10th IBCCA Meeting was held at the *Palacio de Convenciones* in Havana, Cuba, on 13 February, immediately after the Geomatica 2009 Conference. IBCCA is an IOC-sponsored project, with IHO participation through volunteering HOs, aimed at producing complete coverage of the Caribbean Sea and Gulf of Mexico with 1:1 million bathymetric maps and an equivalent digital database. The meeting was chaired by Capt Esteban URIBE ALZATE (Colombia) and attended by representatives from Colombia, Costa Rica, Cuba, the IOC Secretariat and the IHB.

The meeting reviewed the progress made with each of the 16 bathymetric maps of the Project. Of these, 4 maps have already been printed (Resp: USA and Mexico); the other 12 maps are at various stages of compilation / publication. A digital bathymetric database for the IBCCA area is maintained by INEGI, Mexico, as the Chief Editor. The IHB representative stressed that all IBCCA digital bathymetric data at 1:1 million should be sent to the IHO Data Centre for Digital Bathymetry (DCDB – Boulder, Co, USA). It was agreed that Print-on-Demand would be the rule for disseminating printed versions of IBCCA maps. The idea of establishing an IBCCA website (www.ibcca.org), at the initiative of Colombia (CIOH), was supported.

Mexico (INEGI) and Colombia (CIOH) were confirmed as IBCCA Chief Editor and Chair, respectively. The next IBCCA meeting is scheduled to take place in Costa Rica in 2010.



XXXIInd ANTARCTIC TREATY CONSULTATIVE MEETING (ATCM)

Baltimore, USA, 06 - 17 April 2009.

The Antarctic Treaty Consultative Meetings are held annually to discuss matters related to the management of the Antarctic Treaty area and to further develop the Antarctic Treaty System. Around 250 persons representing 38 countries, together with 10 international organizations, were present to report and to consider 53 Working Papers (WP) and 111 Information Papers (IP) submitted by various countries and international organizations, together with 9 documents submitted by the AT Secretariat.

This XXXIInd ATCM was special as it coincided with the 50th Anniversary of the Antarctic Treaty. Due to this reason, the Opening Ceremony included a Joint Antarctic Treaty /Arctic Council event that took place at the U.S. Department of State, Washington DC on 6th April 2009. Mr. R. Tucker SCULLY was elected as Chair of the XXXIInd ATCM.

The Opening Address was given by The Honourable Hillary RODHAM CLINTON, Secretary of State of United States, followed by Remarks by His Excellency Jonas GAHR STORE, Minister of Foreign Affairs of Norway, Chairman of the Arctic Council and Dr. John P. HOLDREN, Assistant to the President for Science and Technology and Director, Office of Science and Technology Policy Executive Office of the President of the United States. The message contained in all presentations highlighted the importance of the Antarctic and its relation with the Arctic, both key elements of climate change. The importance of joint, cooperative and collaborative research as well as responsible management of Antarctica was emphasized, tightening up environmental regulations both to protect tourists and the environment.

After the opening ceremony, a ministerial discussion took place on the International Polar Year accomplishments and future polar science priorities. Several dignitaries and Ministers of different countries were present, including HSH Prince Albert II of Monaco. The discussions highlighted global warming, climate change, environmental protection, tourism regulation and control, a collective scientific approach, action plans for a sustainable environment, maritime transport, safe routes, reliable charts and coordinated SAR service.

Governmental authorities present adopted the International Polar Year Declaration and following the Antarctic Treaty 50th Anniversary Commemoration, also adopted the 50th Antarctic Treaty Anniversary Declaration. In the afternoon the IPY 2007-2008 celebration took place at the National Academy of Sciences. Opening remarks were made by the President of the National Academy of Sciences and by the Director of the National Science Foundation, followed by six key scientific presentations. These events culminated with a reception offered by the Department of State and the Smithsonian Institution in the Ocean Hall of the Smithsonian Museum of Natural History.

The IHO was represented by Captain GORZIGLIA from 06-10 April. The IHO representative was invited to participate in all these major events, despite IHO's Observer status to the ATCM. This is mentioned as an indication of the special consideration IHO has within the Antarctic Treaty System. The meeting continued at the Baltimore Convention Center, Baltimore, Maryland.

The following documents submitted are of interest to the IHO and can be consulted – as well as all others - on the AT Secretariat web page.

- a) IP 78 "COMNAP's 20 years: a new constitution and a new way of working to continue supporting science and the Antarctic Treaty system", submitted by COMNAP.
- b) IP 105 "COMNAP Report to ATCM XXXII" submitted by COMNAP.
- c) IP 33 rev.1 "Report of the International Association of Antarctica Tour Operators 2008-2009", submitted by IAATO.
- d) IP 16 "Report by the International Hydrographic Organization (IHO) on Cooperation in Hydrographic Surveying and Charting of Antarctic Waters", submitted by IHO.
- e) WP 47 "Towards Improved Search and Rescue Coordination and Response in the Antarctic", submitted by COMNAP.
- f) IP 34 "Managing Antarctic Vessels – Avoiding Future Disasters", submitted by ASOC.
- g) IP 60 "On spot technical assistance: Availability of hydrographic experts for vessels of opportunity collecting hydrographic data, by the Uruguayan Antarctic Program in the Antarctic Peninsula Area during next austral summers", submitted by Uruguay.
- h) SP 7 rev.1 "Measures on operational matters", submitted by ATS.
- i) IP 99 "The new Brazilian vessel", submitted by Brazil.
- j) IP 86 rev.1 "IAATO Overview of Antarctic Tourism: 2008-2009 Antarctic Season and Preliminary Estimates for 2009-2010 Antarctic Season", submitted by IAATO.

- k) WP 10 “Strategic Vision of Antarctic Tourism for the Next Decade”, submitted by UK.
- l) IP 53 “Key Elements of a Strategic Vision for Antarctic Tourism”, submitted by ASOC.
- m) WP 30 “Antarctic Treaty Meeting of Experts on the Management of Ship-borne Tourism in the Antarctic Treaty Area”, submitted by New Zealand.
- n) IP 17 rev.1 “Proposal for submission to the International Maritime Organisation”, submitted by Norway.

During the discussion of WP 30, the proposal made by New Zealand was approved to host an Antarctic Treaty Meeting of Experts on the Management of Ship-borne Tourism, from 09 to 11 December 2009 in Wellington to consider: trends in ship-borne tourism in the Antarctic Treaty area over the past 10 years, including maritime incident and future projections; Maritime Safety in the Antarctic Treaty Area; Protection of the Antarctic Environment and the cooperation between the ATCM, IMO and IHO. An invitation will be extended to the IHO as IHO’s contribution to the discussion is considered crucial. Risk exists and regulatory measures are needed.

During the ATCM a very productive meeting was held with Mr. José RETAMALES, Chair of COMNAP; Mr. Antoine GUICHARD, COMNAP Executive Secretary and Mr. Albert LLUBERAS, principal contact on Training within COMNAP. The theme and purpose of the Seminar that IHO/HCA will organize during the next COMNAP Council meeting in Punta Arenas , Chile, in the first week August 2009 were decided.

Also, discussions took place with representatives from IAATO, Mr. Steve WELLMEIER and Mrs. Kim CROSBIE, Head of Delegation and Representative of IAATO, respectively, and on that occasion IAATO confirmed their interest in the seminar IHO/HCA is planning to hold in 2010 at IAATO’s Annual Meeting.

It was decided to hold the XXXIIIrd ATCM in Uruguay, from 03-14 May 2010. The XXXIIInd ATCM decided to invite the IHO to report at the XXXIIIrd meeting. The Draft Agenda of this meeting has the IHO reporting in plenary on the first day of the meeting.



*Captain GORZIGLIA at the XXXIIInd ATCM, Baltimore, USA
April 2009.*

In conclusion, it may be noted that the Seminar organized at the XXXIst ATCM has increased the visibility of IHO and the work of HCA in coordinating the hydro-cartographic effort in Antarctica; the relationship with COMNAP and IAATO constitutes an IHO strength that is contributing to accomplish the IHO/HCA task; the IHO Antarctic activity is very well recognized and appreciated by ATCM and the incorporation of new HCA members was emphasized as a sign of better understanding and interest in enhance hydrography in Antarctica.

Finally, consideration shall be given to the preparation of the seminars for COMNAP and IAATO audiences, in August 2009 and 2010, respectively.

**GLOBAL SEA LEVEL OBSERVING SYSTEM GROUP OF EXPERTS
11th MEETING (GLOSS GE-XI)**

IOC Headquarters, Paris, 13 – 15 May 2009.

The GE XI meeting was held at the Intergovernmental Oceanographic Commission's (IOC) headquarters in Paris from 13 – 15 May 2009. The IHB and TWLWG were represented by Steve SHIPMAN (PAH). The meeting was preceded by a two day workshop on "Precision Observations of Vertical Land Motion at Tide Gauges". The meeting was attended by over 50 delegates from some 30 countries. The Hydrographic Offices of Brazil, Canada, Ecuador, France, Norway, Portugal and the USA (NOAA) were represented.

The workshop brought sea-level and geodetic experts together to discuss some of the issues affecting the use of GNSS in the vicinity of tide gauges for use in monitoring of sea level change. The meeting was opened by Mr. Ehrlich DESA, Deputy Executive Secretary, on behalf of Dr. Patricio BERNAL, the Executive Secretary of IOC. The full details of the meeting together with all papers and presentations are available from the GLOSS web site: www.ioc-goos.org/glossgexi.

One very clear message that came through throughout the meeting was the vital role that tide gauge information provided for the study of both historical and the forecast of future sea-level rise and climate change. The Permanent Service for Mean Sea Level (PSMSL) maintains an archive of tidal information which is used extensively by academic and scientific communities for such research. It is of concern that over the last 10 years the number of tide gauge records being input to the PSMSL archive has reduced! PSMSL were also aware that some historical data sets going back over many years existed but were not in the archive. This historical data is equally essential for the improvement of future forecasts. Any offices with data are urged to contact Dr. Svetlana JEVREJEVA at the PSMSL (sveta@pol.ac.uk). For details of the activities of, and data available from, the PSMSL please visit their web site www.pol.ac.uk/psmsl/.

PAH provided a presentation reporting on the changes to the IHO Committee Structure in general and the transformation from the Tidal Committee to the Tidal and Water Level Working Group in particular. He also thanked the GLOSS Group of Experts for continuing to provide a representative to the TWLWG meetings.



NEW HYDROGRAPHERS



NEW PRESIDENT OF THE GERMAN FEDERAL AND MARITIME HYDROGRAPHIC AGENCY

As from October 2008

Monika BREUCH-MORITZ, born in 1953 in Andernach, Germany, followed meteorology studies under Prof. H. FLOHN at Rheinische Friedrich-Wilhelms-Universität in Bonn from 1971 to 1976. She participated in an international meteorological/oceanographic experiment on board the research vessel "Planet".

In 1977, began a traineeship at the German Meteorological Service; from 1979, began work at the Agrometeorological Research and Advisory Office Weihenstephan at Freising. In 1989, transferred to the Federal Ministry of Transport, Building and Housing, later Federal Ministry of Transport, Building and Urban Affairs, the "Weather Service" section; responsible, inter alia, for various committees of the European Centre for

Medium Range Weather Forecasts (ECMWF) in Reading, UK. Member of the German delegation preparing for attendance at the second World Climate Conference and IPCC.

From 1993 to 1995, was Deputy Head of Section Z14 "Organisation"; from 1995, was Head of Section "Maritime Environmental Protection, Waterways Police, Port State Control and Sea Pilotage", which included responsibility for the Federal Maritime and Hydrographic Agency of Germany. From 2007, was Head of Section "Climate Change and Environmental Policy in Maritime Shipping", focussing on the further development of environmental regulations in shipping, especially the introduction of stricter emission limits in maritime transport and climate protection.

President of the Federal Maritime and Hydrographic Agency as from October 2008.

NEW HYDROGRAPHER OF INDONESIA

First Admiral Sugeng SUPRIYANTO



First Admiral Sugeng SUPRIYANTO was born in Bandung, West Java, on December 20th 1956 and has two children. He graduated from the Indonesian Naval Academy in 1980. His first assignment was aboard KRI SAM – 341 Eastern Fleet Command as Surface Warfare Officer Assistant.

In 1995 he joined the Indonesian Hydro – Oceanographic Service as Commander of Baruna Jaya III Hydro – Oceanographic Research vessel, and from May 1999 to August 2002 he was the Head of the Chart Division. In 2002, he was appointed Commander of the Hydrographic Vessels Survey Unit. After attending the Indonesian Military Command and Staff College, he was promoted to the post of Deputy Chief Hydrographer until

2007. In April 2007 he became Commander of the Sea Security Group of Eastern Fleet.

Finally, in December 2008, he returned to the Indonesian Hydrographic Office as Chief Hydrographer until now and is responsible for all Meteorological, Hydro – Oceanographic and charting issues for whole Indonesian area. As Chief Hydrographer, his main duties include the negotiation of new and revised bilateral cooperation arrangements with foreign Hydrographic Offices.

He also works together with hydrographic offices in other countries and attends Hydrographic Society meetings, with all IHO and EAHC Members to share and discuss ENC topics.



NEW HYDROGRAPHER OF THE CHILEAN HYDROGRAPHIC SERVICE

Captain Mariano Eduardo ROJAS BUSTOS

Captain Mariano ROJAS BUSTOS was born in Valparaíso, Chile, on 27 July 1961 and, after studying in various schools in Viña del Mar, Ecuador and Punta Arenas, he joined the Naval Academy “Arturo Prat” in 1976. He graduated from the Academy in December 1982 with the rank of Ensign.

Specialized as a Staff and Navigation Officer, he is a qualified military engineer, specialized in Navigation, and is a qualified instructor in Navigation.

For more than fourteen years, he served onboard various units such as: the Destroyer “Portales”, the Transporter “Piloto Pardo”, the Submarine mother ship “Angamos”, the Destroyer “Almirante Latorre” and the landing craft “Valdivia”; he was

second-in-Command of the training ship “Esmeralda”, Commander of the Fleet Tug “Galvarino” and of the oceanographic ship “Vidal Gormaz”. He has undertaken in many piloting commissions onboard foreign units in the southern channels.

Amongst his shore postings, in addition to various courses, the following should be highlighted: his work as Head of Studies and Head of the Training Section of the Operations School, Executive Assistant to the Commander in Chief of the First Naval Zone, Tactical Naval Training Centre, Head of the Executive Department, Deputy Director of the Naval Academy “Arturo Prat” and Head of the Education Directorate of the Navy.

On 17 December 2008, he took up his duties as Director of the Hydrographic and Oceanographic Service (SHOA) of the Chilean Navy.



NEW HYDROGRAPHER OF ECUADOR

Captain Manuel Patricio GOYES ARROYO

ACADEMIC PROFILE

- Graduated, with distinction, from the US Naval War College;
- Master in Oceanography, with specialization in Marine Geophysics, University of Texas;
- Master of the Institute of Diplomacy in International Organizations, State University of Guayaquil, where he was awarded the Prize “Contenta”;
- Graduate in Naval Sciences of the Naval University “Comandante Rafael Morán Valverde”;
- Graduate in Continental Security and Defence, Interamerican Defence College, in “International Business Administration”, University of Georgetown;
- Graduate in High Administration of Oil Negotiations, Central University of Ecuador.

PROFESSIONAL EXPERIENCE

- Director of the Oceanographic Institute of the Navy (currently);
- Member of the Second Expedition of Ecuador to the Antarctic;
- Commander of the Research Vessel “ORION”;
- Deputy Manager of the Directorate of Maritime Affairs;
- Regional Director of the Merchant Navy of the Guayas;
- Captain of the Guayaquil Port;
- Defence Attaché representing Ecuador in London;
- Permanent Representative of Ecuador at the International Maritime Organization; in this period he obtained for Ecuador the statement of Galapagos as a particularly sensitive marine area;
- Member of the Board of Directors of the Maritime University of Malmö;
- Executive Vice-President of “Petroecuador”;

- Representative of Ecuador in specialized negotiations and conferences: encoding of Part XI of the United Nations Convention on the Law of the Sea;
- International Authority of the undersea bottoms;
- Scientific Committee for Antarctic Research;
- System of the Antarctic Treaty;
- Ecuador-Peru Border Commission.

PUBLICATIONS

- Monograph: “Estado actual de la Minería oceánica y su relación con el nuevo Derecho del Mar, Perspectivas Nacionales (Aguena, 1992)” (*Present Status of the Oceanic Mining and its relationship with the new Law of the Sea, National Perspectives*);
- Monograph: “Análisis histórico y diplomático del Diferendo limítrofe Ecuador-Perú, Impases subsistentes (Aguena, 1997)” (*Historical and diplomatic analysis of the bordering disagreement Ecuador-Peru, subsisting dead-ends*);
- Thesis: “It is time for Ecuador to sign the Law of the Sea Treaty” (US Naval War College, 1993);
- “La Delimitación Marítima en los Países del Sistema Interamericano y su relación con la Seguridad Internacional (Interamerican Defense College, 1999)” (*Maritime delimitation in the interamerican system’s countries and its relationship with the International Security*).

CHAIRS

- International Maritime Law and Geopolitics at the Naval War College and at the Institute of Diplomacy of the State University of Guayaquil;
- Guest Lecturer at the Diplomatic Academy and the Simón Bolívar University.



NEW HYDROGRAPHER OF THE HYDROGRAPHIC SERVICE OF PERU

Rear Admiral Guillermo Adolfo HASEMBANK ROTTA
Director of Hydrography and Navigation

Born in 1961 in Lima, Peru, he studied at the San Agustín College and, after completing his studies, he joined the Navy on 28 February 1977, graduating on 01 January 1982, with the rank of Ensign.

He is qualified in Hydrography and has completed the Staff Basic Course, the Command and Staff Course and the Naval War Course at the Naval War College and the Advanced Course of Intelligence.

He served on board the following ships: B.A.P. Quiñones, B.A.P. Salaverry, BIC Humboldt, BAP Aguirre. He was second pilot on the B.A.P. Melo and then Commander of the BAP Palacios.

He has also held the posts of Head of the Physical Oceanographic Division and Head of the Academic Department of the Directorate of Hydrography and Navigation, which is part of the Ministry of Fisheries; he was the officer-in-charge of the fishing training vessel “IBARAKI”(transferred from Japan to Peru), Head of the Environment Department of the Directorate of Hydrography and Navigation, Head of the Computer Science Office, at the Directorate of Maritime Affairs, Head of the Contracts Department at the General Directorate of Supplies/Equipment, Officer of the Personnel Division at the Policy, Strategy and Supervisory Department of the General Staff of the Navy, Head of the 1st Section of the Staff of the fourth Naval Zone and FT-100, Head of Logistics at the Naval War College, Head of the Secretariat of the Budget, Plans and Programmes (PPP) Office and Head of the Logistics Standardization Office at the Ministry of Defence, Head of the Executive Department at the Training Directorate, Deputy Director of the Navy’s General Directorate of Training and of the Directorate of Hydrography and Navigation, Executive Director of the Navy’s General Directorate of Supplies/Equipment and Head of the Sub Unit responsible for the Supplies/Equipment.

On 1st January 2009, he was promoted to the rank of Rear Admiral and was appointed Director of Hydrography and Navigation.



NEW HYDROGRAPHER OF GREECE Commodore Demetrios PALIATSOS

Commodore Demetrios PALIATSOS was born in Piraeus in the 9th of February 1957. In 1975 succeeded and entered the Hellenic Naval Academy and in 1979 he graduated as an Ensign.

As a Junior Officer he served as a Navigation and Communication Officer on board the destroyer SFENDONI and the submarine AMFITRITI, and as a weapons officer on board the submarine OCEANOS. Later on, he attended the Naval School of Monterey U.S. for 2,5 years, where he got his M.D. in Acoustic Engineering, before returning in active duty and stationed on board the

MIAOULIS destroyer as a weapons officer, in 1989.

In 1991 he was stationed as an Executive Officer on board the destroyers APOSTOLIS and NEARCHOS. In 1993 he was stationed as Commanding Officer on board the ERMIS (a counter intelligence ship) of the Hellenic Navy. Later he was given the chance to work for two (2) years as an Acoustic Engineer (his major) in the Submarine Updating Program, which took place in the Saimis naval base. Afterwards he joined the Naval School of War. During 1996 he was stationed in the Navy's Headquarters and specifically in the Operations Department where he served for 5 years.

In 2001 he was called to serve as Commanding Officer for the second time in his career, this time on board the destroyer FORMION. He has also served for a short period of time in the Naval Training Command, before he was stationed in Naples in 2003 as a Branch Chief in J3 Division of JFC Naples. In January 2005 he was sent to the Headquarters of CC MAR Naples, where he served as Director of Operations and Training. In September 2005 he was called back and stationed commander of PALASKAS Training Centre where he served for 2.5 years.

In March 2008 he was Promoted (named) Commodore and was stationed commander of the Aegean Naval Command in Piraeus.

Since March 2009, he is Director of the Hellenic Navy Hydrographic Service.

He has been decorated with the following medals:

- Golden Cross of the order of Honour
- Golden Cross of the order of the Phoenix
- Medal of Military Excellence B class
- Medal of Excellent Command

He is married and has two (2) children.



DIRECTOR GENERAL OF NATIONAL HYDROGRAPHIC CENTER, ROYAL MALAYSIAN NAVY

Captain Zaa'im bin HASAN RMN
(from 24 March 2009)

Captain Zaa'im bin HASAN, RMN was appointed as Director General of the National Hydrographic Center, Royal Malaysian Navy, on 24th March 2009.

He was born in Bagan Datoh, Perak, Malaysia, on 7 July 1960. He Joined the Royal Malaysian Navy in 1981 and was commissioned in 1983. He has attended numerous military and hydrographic courses, including a Command Staff Course at the Malaysian Armed Forces Staff College, a Basic Hydrographic Course in USA, Marine

Cartographic Courses in Canada and Japan, Advance Hydrographic Course at the University of Technology Malaysia and was awarded a Master of Science (MSc.) by the Malaysian National University.

He has held various posts in the Navy including: Commanding Officer of KD MUTIARA, KTD PENYU, Staff Officer Hydrography, Director of Hydrography Department in NHC and also member of the Malaysian Lighthouse and Aid to Navigation Authority.

IHB VISITS

SECOND VISIT TO HAITI

27-30 January 2009

The Minister of Foreign Affairs of Haiti and Chairman of the Association of Caribbean States (ACS) invited the IHO to give a presentation at the 14th Session of the Ministers' Council of the ACS.

The ACS is an intergovernmental international organization aiming at concerted actions toward advancement in cultural, economic, social, scientific and technical matters in the Caribbean Region, and has 25 Member States and 3 Associate Members. The structure of the ACS comprises the President of the Council of Ministers, a Secretary General and 6 Committees: Transport, Natural Hazards, Commerce Development, Sustainable Tourism, Budget and Administration and Special Funds. After having carefully considered the invitation and the details of the ACS, the IHB Directing Committee designated Captain GORZIGLIA to represent the IHO at the Ministers' Council.

Advantage was taken of this second trip to Haiti to have a meeting with the Maritime and Navigation Service of Haiti (SEMANAH) in order to discuss the recommendations made, as a result of the Technical Visit paid by the IHB in October 2008.

Meeting with SEMANAH

The Meeting with SEMANAH and the National Port Authority included :

- a) General discussion of the situation following after the Technical Visit.
- b) Review of the progress made with regard to the recommendations contained in the Technical Report.
- c) Discussion on existing opportunities to progress the implementation of the recommendations.
- d) Identification of follow-up actions for Haiti and the IHB.

The reaction of the Authorities in Haiti to the Technical Report was very good and a meeting of their experts was convened by the MOFA and various actions were agreed. One of these actions was the submission of a proposal to the Parliament to establish the Hydrographic and Oceanographic Service of Haiti (SHOH). This was discussed within the frame of the SEMANAH budget for 2009 and it was strongly supported by this governing body. This is very positive news.

At this stage SEMANAH is in the process of identifying the technical personnel who should begin training. The IHB provided SEMANAH with complete information on the various opportunities they could benefit from, such as training in Marine Safety Information with the NAVAREA IV Coordinator (USA); Technical Visits for the Project Leader to a couple of Hydrographic Offices to receive in situ training and experience that would greatly benefit the development of the project to establish a Hydrographic and Oceanographic Service in Haiti (Chile and Cuba); Basic Practical Hydrographic Training Course to be given by IHO's Regional Hydrographic Commission for the Meso American and Caribbean Sea (MACHC) in Venezuela; a Category B Hydrographic Training Course in India and a Nautical Cartographic Training Course in the United Kingdom Hydrographic Office (UKHO) and also a Chart Production and ENC Training Course in Brazil under IHO MACHC; the last two courses require previous knowledge in the field of cartography.

The Director General of SEMANAH thanked the IHO for the good support that Haiti has received, and confirmed that the development of hydrographic capabilities - including the establishment of the SHOH - were high priorities for Haiti and are, therefore, strongly supported by the various governmental bodies.

Participation in the 14th Council of Ministers of the ACS.

The President of the Council gave the floor to the IHO representative under the agenda item "Dialogue on Cooperation". The Presentation covered its objective; general concepts of Hydrography and its applications; the international scenario related to Hydrography; the Hydrographic situation in the Caribbean Sea; the International Hydrographic Organization, and was completed with a set of conclusions.

During the presentation it was emphasized that ACS can play an important role in the region to foster hydrographic development by inviting / encouraging its Members to establish national hydrographic authorities and coordination bodies where they do not exist, to take advantage of the Capacity Building opportunities offered by the IHO and join and actively participate in the work of the MACHC. Also, ACS can play a very important role in supporting regional projects aiming at developing hydrographic capabilities based on the real needs and priorities of its Members.

Finally it was suggested that a Memorandum of Understanding could be established between IHO and ACS, if it is considered that such a mechanism could help joint initiatives.

The Council of Ministers and their delegations, that in total were over 100 persons, well received the IHO message concerning the need to work closer to improve the level of hydrographic, nautical cartography and marine safety information in the Caribbean Sea.

In brief, this was a very successful visit where the objectives were fully met. On one side, it was clear that the Haitian Authorities were fully aware of their responsibility with regard to the implementation of initiatives suggested by the IHB, and on the other side, the presentation at the ACS helped to raise awareness of the importance hydrography plays in the development of the Caribbean Region and how crucial it is to work together to improve the existing situation in the region.

VISITS TO IHB

VISITORS TO THE IHB

January 2009

Simon WINCHESTER – Author.

Captain WARD hosted the best-selling author Simon WINCHESTER (www.simonwinchester.com), who visited the IHB on 19 January. Mr. WINCHESTER is carrying out research for a new book about the history of the Atlantic and is particularly interested to include the work of the IHO. Simon WINCHESTER has written books on a wide range of subjects including Krakatoa, the recording of the scientific discoveries of China, and The Pacific. The book is due to be published in late 2010.

US Consul-General to France.

The Honourable Ms. Kathleen A. RILEY, US Consul-General based in Marseille, paid her first visit to the IHB on 23 January. Ms. RILEY took over her current position in the middle of 2008, having previously represented the US in Morocco, Haiti, Egypt, Israel and most recently in Saudi Arabia. Captain GORZIGLIA and Captain Ward provided Ms Riley with a comprehensive briefing on the IHO.



The Hon. Kathleen RILEY signs the IHB Visitors' Book.

CNO Albania.

The Chief of the Albanian Navy, Captain Kristaq GERVENI, accompanied by the Hydrographer of Albania, Commander Gezim KOCI, visited the IHB on 26 January. Albania is actively considering applying for membership of the IHO. Admiral MARATOS and Captain WARD provided a detailed brief on the IHO and discussed the benefits both of membership of the IHO and active involvement in the Mediterranean and Black Seas regional hydrographic commission.



Captain GERVENI and Admiral MARATOS exchange gifts.



PRESIDENT OF BSH VISITS BUREAU February 2009

In February 2009 Mrs. Monika BREUCH MORITZ paid her first visit to the IHB since taking over as the President of Bundesamt für Seeschifffahrt und Hydrographie (BSH) from Professor Doctor Peter EHLERS. Mrs. MORITZ was accompanied by the new Director of Nautical Publications, Dr Mathias JONAS, who recently succeeded Herr Horst HECHT. The Directing Committee briefed the President of BSH on all current issues facing the IHO.

The New President of BSH (Germany) signs the IHB Visitors' Book

VISIT OF A DELEGATION OF UNITED ARAB EMIRATES

IHB, Monaco, 27 April 2009

On Monday 27th April 2009, the IHB received the visit of a delegation from the United Arab Emirates composed by Mr. Saleh Saad AL HUBAIL, Head of the Military Survey Department (MSD); Dr. Adel KH. AL SHAMSI, Head of Hydrographic and Geodetic Section of MSD; Mr Sulaiman AL- SHAMSI, Head of Cartographic section of MSD and Mr. Khalid AL MELHI , Head of Photogrammetry Department of MSD. Delegates were welcomed by the IHB DC.

The objective of the visit was to inform the IHB on an ongoing project aimed at establishing hydro-cartographic capabilities in the UAE and to explore means by which the IHO could advise the UEA to establish a Hydrographic Office. Following a general discussion the delegation was provided with a detailed presentation of the IHO. Special emphasis was made on the obligations a coastal state has with relation to the provision of hydrographic services and marine safety information. During the course of the presentation a very detailed discussion took place on different matters including technical aspects. It was highlighted the importance for the UAE to participate in the IHO activities, mainly the coming 4th EIHC and the 3rd ROPME Sea Area Commission Meeting, both events to take place in Monaco next June.

The meeting lasted nearly three hours and almost all concerns and demand of information raised by the visitors were satisfied. Closing the event, the Director of the Military Survey Department presented the IHB with the crest of his institution.



Left to right : Mr. Khalid AL MELHI, Capt. GORZIGLIA, Mr. Saleh Saad AL HUBAIL, Capt. WARD, Dr. Adel KH. AL SHAMSI and Mr Sulaiman AL- SHAMSI

**GEOSPATIALLY ENABLED DATABASE AND WEB-BASED INTERFACE FOR THE
GEBCO UNDERSEA FEATURE NAME GAZETTEER
IHB, Monaco, 13-15 May 2009.**

Mr. John CARTWRIGHT, a GIS expert at the US National Geophysical Data Center (NGDC), visited the IHB on 13-15 May to demonstrate a prototype of a geospatially enabled database and Web-based interface for the GEBCO Gazetteer of undersea feature names, and to discuss changes and further enhancements to the gazetteer database and interface. This application has been developed at the NGDC – where the IHO Data Centre for Digital Bathymetry (DCDB) is co-located – in collaboration with the British Oceanographic Data Centre (BODC).



The Gazetteer management custom software, which has been in use to date at the IHB to maintain the GEBCO Gazetteer, was developed about 10 years ago by a Monaco-based computer company, which has since closed down. As a result, resolving any problems encountered in using the program has proved challenging. This matter was discussed at SCUFN meetings and the NGDC expert and SCUFN member, Ms. Lisa TAYLOR, kindly accepted to coordinate the development of this web-based interface. The advantages of reformatting the GEBCO Gazetteer into a geospatially enabled database include:

- Enhanced display and search options in various products, e.g. GDA, GIS systems, web-based interactive maps, and KML files (Google Earth);
- Enhanced data base management capability.

The aim of Mr. CARTWRIGHT's visit to the IHB was to ensure that everyone involved understands the way the system works, allowing for any needed clarification, providing the time for the generation of new ideas for database and interface enhancements (e.g., on-line proposal submission that would directly populate the database), and facilitating productive cooperation on the project in the future.

SCUFN has recommended that the IHB stops maintaining the existing Gazetteer database, when the new database and interface are operational, as maintaining both databases would be complicated, mainly due to having to ensure that both databases are identical involving extra work of transferring the data back and forth. The new Web-based Gazetteer should be operational around mid-2009.