

**MINUTES OF THE 9TH SOUTHERN AFRICA AND ISLANDS HYDROGRAPHIC COMMISSION
(SAIHC) CONFERENCE
Wolmar, Flic en Flac, Mauritius – 18 - 19 September 2012**

DRAFT

Note: Paragraph numbering corresponds to Agenda Item numbering (Annex A), and not necessarily to the order in which matters were discussed.

TUESDAY 18 SEPTEMBER (Day 1)

Agenda item 1: OPENING AND ADMINISTRATIVE ARRANGEMENTS

At 09:05, the Chairman of SAIHC, Captain Abri Kampfer, started proceedings and welcomed all participants to the Republic of Mauritius. The members of industry were especially welcomed and thanked for their support and willingness to provide conference bags and to host the ice-breaker function the Monday evening. Special thanks were given to Mauritius, Mr Abdool Oozeer the Vice Chairman and the Senior Chief Executive of the Ministry of Housing and Lands, for hosting the meeting. He announced that the meeting would officially be opened at 10:15 by The Honourable Dr A.T. Kasenally, Minister of Housing and Lands. He introduced Robert Ward, the newly elected President of the International Hydrographic Bureau (IHB) and made mention that he is in particular pleased that the President is prepared to take SAIHC under his direction.

The Chairman made reference to the administration arrangements and discussed the SAIHC9 work programme. He also informed the meeting that there were some INT charting issues that needed discussion and that the first SAIHC INT Chart Coordination meeting would be held on Tuesday afternoon. Reference was made to the List of Documents which was made available on the International Hydrographic Organization (IHO) website prior to the meeting. The list of participants is attached as **Annexure B**.

Agenda item 2: APPROVAL OF THE AGENDA (Annexure A)

The agenda was accepted and unanimously approved with the following change: *Item 4 – 4.1 and 4.2 Feedback from the IRCC and the IHB*, would be swapped around. One additional document entitled “*Collection of Ocean Bathymetry*” had been added.

Agenda item 3: MATTERS ARISING FROM MINUTES OF 8th SAIHC MEETING

Status/Review of Action List from the 8th SAIHC Meeting in Walvis Bay, Namibia. The Chairman reviewed the Status of Actions. Ongoing items will be reflected as such in the revised SAIHC9 List of Actions Table.

Opening Ceremony

At 10:15 the opening of the 9th Conference of the Southern Africa and Islands Hydrographic Commission was called to session by the following distinguished speakers:

Welcome Address by Mrs Sewah K. Doorgakant
Principal Assistant Secretary, Ministry of Housing and Lands

Mrs Doorgakant expressed a warm welcome to all present at the opening ceremony of the 9th SAIHC Conference. Becoming the 76th Member State of the IHO in 2005, Mauritius automatically became a member of SAIHC and an associate member of NIOHC. She expressed that without hydrography there are no doubt risks of marine accidents, loss of life, no port or offshore infrastructural development and a lack of economic opportunities. The importance of hydrography

just cannot be ignored! It's the pillar of the local economy with its flourishing tourism given the increasing number of cruise ships to Port Louis. Fisheries are another sector that benefits providing an important input for habitat and species management. It provides for considerable economic value in assisting the management and exploitation of natural marine resources. Mauritius is signatory to the IMO SOLAS Convention and has national and international responsibilities to provide safety of navigation in its EEZ. These are only a few benefits of hydrography, no doubt by joining the hydrographic family; Mauritius will be benefiting a lot. In closing, she made reference to the presence of the fourth recipient of the Alexander Dalrymple Award, Captain Abri Kampfer, the present Chairman of SAIHC. Captain Kampfer was then invited to address the Conference.

Address by Captain (SAN) Abri Kampfer
Chairman, SAIHC

Captain Kampfer, after his introductory protocol, emphasized the aims of the Commission:

- To promote technical co-operation in the domain of hydrographic surveying, marine cartography and nautical information within the Region.
- To examine the implications, in its area of interest, of matters of general interest with which the IHO is concerned, avoiding any interference with the prerogatives of the IHB and of any other Commissions set up by the IHO.
- To stimulate all countries within the Region to widen hydrographic activity in the area and to encourage them to seek technical advice and assistance from the IHB in establishing and strengthening their hydrographic capabilities in order to promote safe navigation and create an environment within which economic development may take place.
- To facilitate the exchange of information concerning surveys, research or scientific and technical developments, to aid in the planning and organisation of hydrographic activities in the widest sense of the term, but without interference in the national responsibilities of each Hydrographic Office.
- To carry out certain studies as an IHO Working Group when considered appropriate.
- To encourage Members and Associate Members forming the Commission to participate, of their own free will, on all possible occasions, whether in the form of advice or of assistance, in those hydrographic programmes requiring concerted effort.

He mentioned that over the two days available, an agenda will be followed with discussion items very pertinent to the Region and in support of the above aims.

Mrs Doorgakant thanked Captain Kampfer and mentioned that the President of the IHO, Captain Robert Ward, was present and invited him to address the Conference.

Address by Mr. Robert Ward
President, International Hydrographic Bureau (IHB)

In his address President Ward emphasized the importance of hydrography to all maritime activities indicating that although hydrography's main objective is to support safety at sea and the protection of the marine environment, its importance to many other sectors has been recognized and accepted. The tsunami disasters in the Indian Ocean and Japan have shown that hydrographic data and information have a vital role to play not only for preparing tsunami warnings but also for

research, simulation and coastal protection purposes. The cooperation with other international organizations and maritime stakeholders is very essential. There can be no doubt that the significance of hydrography in safety at sea, global trade, the environment, our living standards and maritime security is important and forever increasing. The IHO and its Member States HO's will continue their efforts to better serve the national, regional and global needs and requirements for new, better and more accurate hydrographic products.

Mrs Doorgakant thanked the President and made mention that hydrography is one of the responsibilities of the Ministry of Housing and Lands. She mentioned that assistance from the IHO, SAIHC and friendly countries like Japan, France and India are acknowledged by the Ministry and a Hydrographic Unit has been established by the Ministry. Dr the Honourable Abu Kasenally, the Minister of Housing and Lands has always shown much interest in Hydrography. She invited the Minister to address the forum and declare the Conference open.

Address and Opening of the Conference by
Dr. The Honourable A.T. Kasenally, GOSK, FRCS Ed.

The Honourable Minister Dr. Abu Kasenally, during his introductory protocol and opening address, extended a warm welcome to all distinguished delegates, members, associated members of SAIHC and also to delegates from observer countries and international organizations. It is the intention only to highlight the most striking aspects of the Minister's opening address.

The Minister mentioned that Mauritius has an EEZ of 2.65 million km² of which 396 000 km² is managed jointly by Mauritius and Seychelles. Being signatory to the IMO-SOLAS Convention, Mauritius has national and international responsibilities to provide safety of navigation in its EEZ. Navigational charts in respect of Mauritian waters were until recently based on dated surveys with indeed a need to update them for the safety of navigation. Furthermore, hydrographic and bathymetric surveys allow Mauritius to enhance their coastal zone management, marine resource exploitation, marine boundary delimitation, marine defence and security and disaster management. Mauritius has as yet no capacity and expertise to produce charts, so assistance and the cooperation from other friendly Member States to fulfil this obligation is thus sought.

The main achievements of SAIHC so far have been the agreements reached to improve surveying and charting in the region with focus on capacity building. One of the important benefits of Hydrography is an efficient and safe maritime transport control. More than 80% of international trade in the world is carried by sea. Geographically, Mauritius is positioned in a strategic point where the development of maritime trade can be exploited and expanded.

The Minister acknowledged the contribution of the IHO, SAIHC and friendly countries like Japan, France and India which had imparted training and knowledge to officers of his Ministry. This had resulted in the setting-up of a dedicated Hydrographic Unit. Further assistance for the provision of relevant expertise and capacity building to reinforce this unit is required. This will pave the way to being self reliant in the field of hydrography. He noted that the IHO Technical Visit Team, under the leadership of the Chairman of SAIHC, Captain Abri Kampfner, is of the view that there are many hydrographic assets at the disposal of the Government of Mauritius and that there was a need to coordinate national resources to meet national and international needs and responsibilities through the establishment of a National Hydrographic Consultative Group.

Moreover, he expressed confidence that following the IHO technical team visit they will also obtain some benefits and support in terms of technical assistance, training and education so as to further strengthen their Hydrographic Unit. "Hydrography, underpinning the blue economy", the proposed theme for World Hydrography Day 2013, is a most welcoming idea.

In closing, the Minister said it was a real pleasure for Mauritius to host the 9thSAIHC Conference. Mauritius has assumed the position of Vice Chair since September 2009 and will remain focussed

in their endeavours and responsibilities towards achieving the goals and objectives of the Commission. The 9th SAIHC Conference was declared open and participants were wished fruitful deliberations during the two days.

SAIHC9 - OFFICIAL GROUP PHOTOGRAPH

Meeting proceedings reconvened at 11:15.

Agenda item 4: FEEDBACK FROM OTHER IHO BODIES AFFECTING SAIHC

4.1. Inter-Regional Coordination Committee (IRCC)

The Chairman informed the meeting that he represents the needs of SAIHC members at IRCC meetings which are one of two major committees of the IHO. He attended IRCC4 in Singapore from 7-8 June 2012 and highlighted some listed actions arising from this meeting with many affecting RHCs. In particular, RHCs are encouraged to invite GEBCO / Bathymetric Regional Project Chairs to attend RHC meetings with the aim at strengthening collaboration with a priority on improving high resolution shallow water bathymetry at the regional level. **(Action Item 15)**.

4.2. IHB Report

The President of the IHB briefly explained the structure of the IHB, based in Monaco, which carries out the secretariat activities of the organization and referred to the new Directing Committee that assumed office on 1 September 2012. Details of the allocation of duties and responsibilities have been promulgated in IHO CL 77 dated 6 August 2012. In summary, Director Mustafa Iptes will oversee the IHO Programme 3 concerning regional cooperation and capacity building and Director Gilles Bessero will oversee Programme 2, the IHO technical programme. The President will be the IHO Directing Committee representative in the SAIHC Region. He made mention that Mr David Wyatt joined the IHB in April as an Assistant Director and replaced Mr Stephen Shipman who has retired.

The President provided the Status of Approval of Amendments to the IHO Convention and mentioned that by August 2012 only 36 of the required 48 approvals to the Protocol of Amendments to the IHO Convention had been received. All IHO Member States of the SAIHC had responded except Mozambique. **(Action Item 4)**. He also provided the Status of Approval of new Member States of the IHO and made mention that Haiti, Vietnam, Brunei Darussalam and Georgia had applied for membership and provided the voting status of IHO Member States. A listing of IHO Member States of the SAIHC Region that had not as yet indicated their positive support was provided. **(Action Item 5)**. The IHB President added that the benefits from new IHO membership is that the contributions received will mostly go towards capacity building.

A brief mention was made to INT Chart and ENC coordination in Region H and that South Africa as Coordinator continued to provide regular updates to IHO S-11 and that five new INT charts had been accepted for inclusion in S-11 and one chart for deletion. CL 51/2012 dated 18 May reminded Member States to provide their ENCs to the IHB in accordance with IHO General Regulation 19 in order to enable the IHB to maintain an authoritative and up to date reference collection of ENCs and also to create a global information catalogue. A listing of responses was provided and ENC Producer States that have not yet responded were requested to do so as soon as possible. SAIHC Members States that have not yet responded are requested to take the necessary action. **(Action Item 6)**.

Under the subject of IHO Publicity, the President announced the proposed theme for World Hydrography Day 2013 as: *"Hydrography, supporting the blue economy"* and the

opportunity to use the theme to raise awareness of the importance and the benefits of hydrography. The International Hydrographic Review (IHR) was also mentioned which provides an ideal opportunity for Member States to publicise technical and other achievements in the Region. The IHR representative for the SAIHC Region is the Chairman, Captain Abri Kampfer.

Under Capacity Building (CB) the President stated that the CB programme over the next five years is forecast to be considerably lower than in the past five years and that the IHO and the RHCs will need to explore alternative mechanisms to fulfil their requirements and that the commercial sector can provide mutual benefits. This can happen in the form of industry representatives attending RHC meetings as observers and included participation and the provision of equipment and instructors in technical workshops and training.

4.3. Capacity Building Sub-Committee (CBSC)

The Chairman informed the members that the 2012 IHO Capacity Building Work Programme allowed for the provision of support for the delivery and attendance of a Phase 1 Skills Training Course with the objective of giving participants a highly practical introduction to the assessment and promulgation of navigational significant information. It will be held at Fish Hoek, South Africa from 26-30 November 2012 and he reminded members that the course will be presented in English.

Member States in the SAIHC Region are once again reminded to provide their capacity building inputs by the end of February each year in accordance to CB procedures. **(Action Item 2).**

Agenda item 5: SAIHC ACTIVITIES IN THE LIGHT OF THE IHO WORK PROGRAMME

5.1. IHO S-11 Region H

Mr Malcolm Nelson (ZA) gave a presentation covering the charting progress made in charting Region H with reference to the INT Chart Catalogue, IHO S-11. He referred to the 20-year existence of the INT charting scheme since its adoption in Lisbon, Portugal in 1992. Specific attention was made to progress made in the past year and areas which still needed attention since the 8th SAIHC meeting. The following points of interest were mentioned:

- a. INT chart production by the UKHO, in charting agreement with Portugal, has progressed on the Angolan coast north of Namibia adjoining the South African and Region G international chart schemes. Along the east coast of South Africa chart **INT 7550** had been published and **INT 7560** compilation had been completed but still required a final check. Good progress has been made by UK along the east coast of Mozambique with chart **INT 7670** now published.
- b. To date very little information has been received with regard to the progress of charting Lake Victoria. Tanzania responded that some surveys had been carried out in the northern part of the Lake.

The charting scheme for Lake Malawi had not been updated. Malawi responded that more charts had been published as reflected in their national report.

- c. Emphasis was placed on the importance of IHO reference documents to be used in compliance with IHO INT charting standards. Member States were once again encouraged to comply with these standards.

- d. The following charts have been IHO adopted and accepted into the INT charting scheme. Norway produced a new edition of their national chart of Bouvetoya Island No 516 as chart **INT 2656**. France is to adjust the geographical limits of INT 7722, Approaches to Tamatave (Toamasina) Harbour, the main harbour on the east coast of Madagascar. New hydrographic surveys by SHOM and increasing harbour developments realized the need for creating a new large scale chart and thus allocating an INT number to national chart No 7683 as **INT 7723**. South Africa is to produce national chart SAN 2003 Marion and Prince Edward Islands (ZA Territory), as a stand alone chart **INT 7745**. The Australian Hydrographic Service (AHS), the charting authority for Heard and McDonald Islands, have agreed to produce their national chart Aus 605 as **INT 7746**.
- e. Due to substantial changes within Walvis Bay Harbour and its approaches, South Africa have produced two new charts **INT 2612** (SAN 1004) and **INT 2613** (SAN 1005). The existing harbour and approach chart SAN 1001-INT 2611 was permanently withdrawn.

NAVAREA VII Self Assessment

Mr Malcolm Nelson (ZA) gave a presentation on Maritime Safety Information (MSI). He emphasised the need for MSI, especially in the Great Rift Valley Lakes region. Mention was made of the geographical area identified as a new Sub-Area NAVAREA VIIA as a division of NAVAREA VII for the region and the responsibility of the concerned governments to implement MSI. Mention was made of the reduced NAVTEX coverage along the west coast due to the NAVTEX station of Namibia being non-operational. He also pointed out that presently there is no NAVTEX coverage in the Mozambique Channel with a possibility that a NAVTEX station would be established at the Seychelles, but that this would still not cover the full extend of the Channel. Member States were once again encouraged to become more GMDSS compliant.

ENC Production Status

The UK provided a short presentation on the ENC coverage within Region H. ENC coverage is similar to that of INT paper chart coverage and this is mainly due to the sterling efforts of the SAIHC Member States with charting responsibilities. Deficiencies in charting coverage will only be improved through modern surveys as the lack of data is the main inhibitor.

UK expressed concern that, although the Region enjoys full ENC coverage, there is a mismatch of ENC cells produced by the UK and France. UK explained that this is a global rather than a regional problem and recommended that this matter be referred to WEND to seek a solution. **(Action Item 18)**.

5.2 Bilateral and Regional cooperation agreements, projects and Regional Capacity Building Management Plan

SAIHC Capacity Building Management Plan.

The SAIHC Capacity Building co-ordinator, Mr Jeff Bryant (UK) gave an overview of the capacity building requirements and the courses available. He created a spreadsheet for each country to consider exactly the requirements they needed and provide their input. **(Action Item 16)**.

Industry Presentations and INT Chart Co-ordinating Committee Meeting

At 15:20 the meeting was adjourned and an Industry presentations session was chaired by Mr Ephan Potgieter, Underwater Surveys, in the following sequence:

Fugro: Lidar Surveying and Distance Learning.

QPS – “QPS, Modern Hydrogeomatics Survey Software Solutions”

CARIS – CoastMap IO – “TopoBathy Database in Mozambique”

C&C technologies – “Latest Technical advances in Autonomous Surface Vehicles”

At the same time, the members of the INT Chart Coordinating Committee met for discussions in an adjoining boardroom.

The Agenda and the minutes of this meeting are attached as **Annexure D**.

The events ended at 17:15 and all delegates were invited to visit the Bagatelle Shopping Mall from 18:00 – 21:00 at their leisure.

WEDNESDAY 19 SEPTEMBER (Day 2)

5.3. Presentation of National Reports

The Chairman requested, due to time constraints, that all MS only highlight the most important issues as all National Reports, with the exception of Comoros and Seychelles, were provided and are available on the IHO website as meeting documents.

- a. **France.** Director of SHOM, Admiral Bruno Frachon, presented the national report of France. It was mentioned specifically that from time to time SHOM only learns by accident of surveys performed by private companies or other Hydrographic Services in its area of charting responsibility. It is in the interest of International Maritime Community that survey results should automatically be communicated to the IHO recognised charting authority. Consideration should be given to include in all survey contracts awarded to private survey companies that hydrographic data pertinent to safety of navigation be made available to the IHO recognised charting authority.
- b. **South Africa.** Participation in the SAIHC Capacity Building Programme has included the hosting and conduct of a Port and Shallow Water Survey Course and participation in Technical Visits to Seychelles and Mauritius. A Phase 1 Skills and Chart Awareness Course will be hosted in November 2012 and participation is also planned for Technical Visits to Tanzania and Kenya.
- c. **Portugal.** The Portuguese HO (IHPT) has produced two ENC cells (usage band 2) corresponding to two small scale INT charts of the Mozambique and Angolan coasts. Five medium scale 1:350 000 INT charts are planned to be published in 2013 along the coast of Angola in co-production with the UKHO ie INT 2814, 2550, 2560, 2570 and 2580.

An IHO-CB advisory visit is planned for Mozambique in October and Angola in November 2012.

The Director of INAHINA (Mozambique HO) visited IHPT in 2009 in accordance with their Bilateral Agreement. A collaboration program was established which included nine action items to be realized within a three year term (2010 – 2012) in support of INAHINA’s hydrographic capabilities. However, due to financial constraints some of

the action items could not be achieved. A Bilateral Agreement between IHPT and Angola is under preparation.

- d. **Mauritius**. In addition to the written report available to the meeting it was specifically mentioned that India indicated that a hydrographic officer and some sailors may be made available to assist in the initial reinforcement and capacity building of the Hydrographic Unit to allow for minor survey requirements of various stakeholders to be undertaken along with on the job survey training.
- e. **Kenya**. The UKHO is the primary charting authority for Kenya and therefore administers the production update and distribution of charts. The availability of charts locally is a challenge as there is no local UK distribution agency. It was requested that UKHO advise how to address this problem. **(Action Item 20)**. In addition to training requirements it was mentioned that assistance be obtained for tide gauge installation and the calibration and set to work of the newly acquired survey launch. **(Action Item 21)**.

Kenya expressed their intention to become an IHO Member State. Assistance was requested with the procedure in applying for IHO Membership. **(Action Item 19)**.

- f. **Mozambique**. The continuing assistance by Norway was acknowledged.
- g. **Malawi**. Successes have been registered by the Malawi Hydrographic Unit ,however a lot more remains to be done in order to produce modern navigational charts, revising the Lake Malawi Pilot and their hydrographic survey capability. There is a need to invest in human resources and infrastructure development.
- h. **Norway**. It was reported that the Institute for Marine Research, Norway, conducted surveys with research vessel Dr Fridthof Nansen on the African west coast in 2011 and 2012. Bouvetoya Island, INT 2656 was published in 2011.
- i. **Seychelles**. All regretted the absence of Seychelles at the meeting. A National Report was not submitted. The chairman made mention of the very successful Technical visit conducted to Seychelles during the previous week and that one of the outcomes of the visit was the re-establishment of the National Hydrographic Committee under the leadership of the Seychelles Maritime Safety Authority.
- j. **Namibia**. The hydrographic development for coastal waters is outstanding and currently close cooperation is maintained with the Hydrographic Office of South Africa. The Namibian Port Authority (NAMPORT) has focussed on port hydrography with a significant investment in hydrographic survey equipment, survey software and craft. Namibia has participated in all SAIHC capacity building initiatives and future capacity building requirements are considered to be assistance for creation of a prioritized national survey plan and assistance with appraisal of contract surveys.
- k. **United Kingdom**. The UK is committed to the bilateral arrangements which it has developed in cooperation with other international government hydrographic authorities, covering a range of topics, including the use of copyright data and other forms of cooperation. UKHO can contribute to project management of hydrographic surveys and has a post dedicated to the phased development of new international survey activity and capability. It acts as the initial point of contact for UKHO involvement in direct overseas surveying schemes, including UK Overseas Territories and involvement in Regional Hydrographic Commission initiatives.
- l. **Angola**. Some insight was provided on upcoming projects and current studies

underway. Close cooperation is maintained with the Portuguese Hydrographic Service, INAHINA, Norway and several private companies.

- m. **Tanzania.** A National Hydrographic Committee has been established with eleven institutions participating. Tanzania Port Authority Hydrographic Unit has conducted surveys in several sea and lake ports. Investment has been made in hydrographic survey equipment that includes a new multi-beam echo sounder with all related software. Future projects include the expansion of Dar-es-Salaam port, Mtwara port and construction of new ports at Mbegani and Mwambani. Due to changes in technology and weather uncertainties caused by global factors, Tanzania requires capacity building in related maritime disciplines and Maritime infrastructure development. The lack of local availability of nautical charts is also seen as a challenge.
- n. **Madagascar.** Mr Rahaingoalison conducted a presentation on capacity building requirements for Madagascar for 2012 and 2013 highlighting survey and cartographic software, survey craft and hydrographic training as specific requirements. The presentation also provided feedback on capacity building already received since 2008 and a proposal for a regional training centre in Mahajanga.
- o. **Comoros.** A national report was not submitted and verbal feedback was not provided.

5.4. Hydrographic Charting and Survey Status (C-55)

The IHB President gave feedback on the current status of C-55. He encouraged all MS to check their respective details in IHO Special Publication C-55 on the IHO website and provide updates of their charting and survey status. More specifically, he went through a listing of all Member States identifying the latest status available at the IHB and requested feedback. He stressed the importance of the information and remarked that all MS should strive to provide an update at least once a year. He also reminded all members that the reference number to this IHO publication is C-55 and not the old number, S-55.

(Action Item 11).

5.5. Procedures in response to Marine Disasters

With reference to IHO Circular Letter 73/2012 dated 20 July 2012. The IHB President reminded Member States that the XVIIIth International Hydrographic Conference agreed to amend Resolution 1/2005 as amended – *IHO Response to Disasters*, Section 1 – *Introduction* and Section 2 a) – *Procedures and Guidelines by Coastal States* which includes the *-key elements of Contingency Plans*. The IHB had circulated an improved edited text as an Annex to this CL and Member States were requested to provide comments to the IHB by 20 August 2012. On this date the IHB intends to update Resolution 1/2005 in the IHO publication M-3. Member States are encouraged to peruse this document and provide comment. **(Action Item 17).**

The Chairman indicated that an emergency point of contact list for Marine Disaster Management responders needs to be compiled for SAIHC. **(Action Item 3).**

5.6. Collection of Ocean Bathymetry in the SAIHC Area

Mr Anthony Pharaoh, IHB Assistant Director, gave a most interesting presentation on the Collection of Deep Ocean Bathymetry. IHO Resolution 3 was amended in 2008 in order that *“ALL bathymetric data collected should be forwarded by HOs to the IHO Data Centre*

for *Digital bathymetry (IHO-DCDB)*". **(Action Item 12)**. The two major achievements of the IHO in this regard are:

- The development and adoption of standards on a global basis as prescribed in IHO publications S-4, S-11 and S-57 which is unparalleled when compared to national or international land mapping organizations.
- The worldwide collection of deep ocean bathymetric data on small scale charts and the establishment of a common/open repository of ocean soundings.

Some most interesting elements were highlighted.

- Satellite altimetry indicates that there are many uncharted seamounts greater than 3km tall.
- It is estimated that more than 90% of all seamounts greater than 1km in height are unobserved by either ship sounding or satellite altimetry. The number is estimated to be more than 100 000 seamounts.
- Most seamounts less than 2km tall are uncharted. Discovery of new seamounts were made as recently as 2011, the largest rising more than 4480 metres from the seafloor using some tools like the SCRIPPS Seamount Discovery Tool to help guide vessels to locate ocean seamounts.

Agenda item 6: Marine/Hydrographic Spatial Data Infrastructure (SDI)

Mr Noralf Slotsvik provided a presentation on the MAREANO Programme with Norwegian waters as a model.

The Marine Spatial Data Infrastructure (MSDI) is a concept of an SDI that encompasses marine geographic and business information. This would typically include seabed topography (bathymetry), geology, marine infrastructure (eg wrecks, offshore installations, pipelines and submarine cables), administrative and legal boundaries, areas of conservation and marine habitats and oceanography.

Reference publication, IHO C-17 Edition 1.1 dated February 2011, Spatial Data Infrastructures "The Marine Dimension", is available as guidance for Hydrographic Offices.

Agenda item 7: Feedback from Related Bodies

7.1 Feedback on the West Indian Ocean Marine Highway Development and Coastal and Marine Pollution Prevention Project (WIOMHP)

RAdm (JG)(Ret) Neil Guy gave a presentation covering this project by providing an introduction and background. He stated that the project was designed specifically to improve services to shipping, to assist with the prevention of maritime disasters and the resultant damage to the environment and also to develop mechanisms and competency in the Region to combat pollution should such an event take place.

Information on the Implementation Phase was provided, *inter alia*;

Based on the support for the Project from the regional States and industry, the survey of the 'route' through the Mozambique Channel was completed by SHOM in July 2010. It included additional routes to the port of Mahajanga (Madagascar) and the data was made available to various charting authorities to update charts and ENC's of the Region.

The status of charting in major ports and the safety in and around the ports were assessed and where necessary hydrographic surveys were completed.

Aids to Navigation (AtoN) were assessed and assistance offered.

Six Automatic Information Systems (AIS) base stations are being installed in the Project area.

Oil Spill Contingency Plans have been updated and training in oil-spill response has been undertaken and a Co-ordination Centre has been planned.

Training courses in various maritime safety disciplines have been organised.

In conclusion he stated that the proposed 'recommended route' is not obligatory and is not meant as an imposition on international trade. He especially thanked France and the UKHO for their support in this project and stated that it will reach finalization in December 2012.

7.2 The International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA)

RAdm(Ret) Jean-Charles Leclair provided some insight regarding the introduction of the IALA World Wide Academy (WWA). IHB Letter dated 2 April 2012 addressed the following RHC Chairmen:

East Asia Hydrographic Commission (EAHC)

East Atlantic Hydrographic Commission (EAHC)

Meso American and Caribbean Hydrographic Commission (MACHC)

North Indian Ocean Hydrographic Commission (NIOHC)

ROPME Sea Area Hydrographic Commission (RSAHC)

Southern Africa and Islands Hydrographic Commission (SAIHC)

South West Pacific Hydrographic Commission (SWPHC)

The letter stated that following the last annual coordination meeting the IHB had with other international organizations such as IMO, IOC, IALA and WMO, the IHB has had discussions with IALA on capacity building. On 9 March 2012, the IHB Director responsible for capacity building (CB) matters met with IALA representatives. One conclusion agreed at the meeting was that enhancing a closer relationship at a regional level should be explored, particularly in areas where IHO and IALA would benefit from a joint approach. The IHB is of the opinion that the implementation of this initiative should be with the Chairman of each RHC, who can consider inviting IALA to attend RHC meetings to give a briefing and discuss any initiative for joint activities. **(Action Item 13).**

RAdm Leclair stated that there is close liaison maintained between the IHO and IALA. In late 2011, the IALA Council decided to set up the independently funded IALA WWA which commenced operations in January 2012. One role of the Academy is to develop a series of internationally accredited Model Courses on the management and operation of aids to navigation including specific subjects such as Vessel Traffic Services (VTS). In common with IHO objectives, the Board of the IALA WWA stressed that a key role for the Academy

is Capacity Building. The Board of the IALA WWA has drawn up a Master Plan which sets out its strategy for both the short (current year) and medium (following three year) terms. At a meeting with the IHO in March 2012, it was agreed that it would be appropriate to adopt the system established by the IHO and develop a Capacity Building model which grouped both IALA Member and potential Member States into regions. One country in each region will be identified as the lead Member State.

As Dean of the IALA WWA, he suggested that it might be mutually beneficial if the Academy could be represented at RHC meetings if invited by the Chair of each RHC. This would provide the opportunity for the IALA WWA to gain an understanding of regional needs so that safety of navigation issues is addressed on a common front.

7.3 General Bathymetric Chart of the Oceans (GEBCO)

The Chairman expressed his regret that Dr Rochelle Wigley could not attend the meeting. He requested that Mr Anthony Pharaoh, IHO Assistant Director, present a presentation on her behalf providing a brief background of GEBCO and the Nippon Foundation.

GEBCO is a largely volunteer driven organisation that operates under the auspices of the IHO and the Intergovernmental Oceanographic Commission (IOC) of UNESCO. It aims to provide the most authoritative, publicly available bathymetric datasets for the world oceans and evaluates and authorizes undersea feature names for use on its products.

The Nippon Foundation, established in 1962, is a non-profit organisation. Many of its efforts focus on supporting and developing maritime shipping lanes. It funded the regional Indian Ocean Bathymetric Project and supported capacity building to thirteen Indian Ocean coastal States. Member States are requested to assist GEBCO by providing bathymetric data that can be used in many other ocean projects. **(See also Agenda Item 5.6, Action Item 12).**

7.4 Feedback on the 3rd Group on Safety of Navigation and Marine Environment Protection Meeting (SAGNEP3)

The Chairman of SAGNEP, Capt Karl Otto, South African Maritime Safety Authority (SAMSA) Executive Head of the Centre for Sea Watch and Response (CSWR), provided feedback reflecting on the important outcomes of the 3rd SAGNEP Meeting held in Cape Town, South Africa in May 2012. SAIHC was represented at the meeting by the Chairman, Captain Kampfer.

Arising out of the need for regional cooperation in hydrography and aids to navigation, during the 1995 Maputo Conference on Hydrography and Aids to Navigation, two groups, the Southern African ad hoc Regional Cooperation Group *SAGNEP* and *SAIHC* were formed. The latter is the formal regional body within the IHO whereas *SAGNEP* receives the support of IALA, the IOC and the IMO.

As both parties have the interest of safety of navigation at heart, the opinion was expressed that *SAIHC* and *SAGNEP* meetings may benefit from being held back-to-back in future.

Agenda item 8: Statutes of SAIHC

Angola is the only country still required to sign the statutes. **(Action Item 1).**

The Chairman stated that the *SAIHC* Statutes had been amended to reflect annual meetings, as well as that the venues for the meetings are amended to allow for the *SAIHC* meetings to be held outside of the *SAIHC* region.

Malawi identified a spelling error of the word 'Statutes' on the front cover. The Chairman responded by saying that the typographical error will be corrected without it being reflected as an amendment.

Agenda item 9: Election of Chairman and Vice-Chairman

Mauritius proposed that the status quo be maintained with South Africa as the Chair and Mauritius as Vice Chair. Mozambique supported the proposal. Captain Abri Kampfer was therefore re-elected as Chairman with Mr Abdool Oozeer of Mauritius as Vice-Chairman.

Agenda item 10: Any other Business

There was no other business for discussion.

Agenda item 11: Date and Location of the next Conference

Portugal confirmed their readiness to host the 10th SAIHC Conference in Lisbon, Portugal on 18-19 September 2013. **(Action Item 22)**. Mauritius indicated a willingness to host the 11th SAIHC Conference in 2014, but this will be confirmed at the 10th SAIHC Conference. **(Action Item 23)**. The President of the IHB reminded the members to take note of the IHO Extraordinary Conference that will be held in Monaco in October 2014.

Agenda item 12: Closure

Before closing the Conference, the Chairman reviewed a tentative summary of the Action Items, confirming that additional actions will be added for later revision and confirmation of attendees. **(Annexure C)**.

The Chairman thanked all participants for their attendance and inputs at the meeting and formally declared the meeting closed at 17:00. All delegates were invited to the final event of the 9th SAIHC Conference, a formal dinner hosted by the Minister of Housing and Lands at the Domaine Anna restaurant, Flic en Flac in Wolmar.

AGENDA

9th IHO-SAIHC Conference Wolmar, Flic en Flac, Mauritius: 18 – 19 September 2012

1. **Opening and Administrative Arrangements**
Docs: SAIHC9-1A List of Documents
SAIHC9-1B List of Participants
2. **Approval of Agenda**
Doc: SAIHC9-2A Agenda
3. **Matters arising from Minutes of 8th SAIHC Conference**
Docs: SAIHC9-3A Minutes of SAIHC8
SAIHC9-3B Status / Review of Actions List
4. **Feedback from other IHO bodies affecting SAIHC**
 - 4.1 IRCC
Doc: SAIHC9-4.1 List of Actions and Tasks Agreed at IRRC 4
 - 4.2: IHB
Doc: SAIHC9-4.2 IHB Report
 - 4.3 CBSC
Doc: SAIHC9-4.3 SAIHC Phase1 Skills Course 2012
5. **SAIHC Activities in the light of the IHO Work Program**
 - 5.1 INT chart scheme for Region H and NAVAREA VII Self Assessment:
 Progress made since last meeting; actual Charting Status; ENC production status; new requirements and modifications proposed to the scheme.
Docs: SAIHC9-5.1A S-11 Region H (Presentation)
SAIHC9-5.1B NAVAREA VII Self Assessment (Presentation)
SAIHC9-5.1C ENC Production Status (Presentation)
 - 5.2 Bilateral and Regional Cooperation Agreements, Projects and Regional Capacity Building Management Plan. CBSC Technical Visits and Regional Projects.
Docs: SAIHC9-5.2A SAIHC Capacity Building Management Plan
SAIHC9-5.2B IHO CBSC: Approvals of Candidate Bids from SAIHC
 - 5.3 Presentation of National Reports: Hydrographic surveying, nautical charting, nautical publications and information status.
Docs: SAIHC9-5.3A National Report: France
SAIHC9-5.3B National Report: South Africa
SAIHC9-5.3C National Report: Portugal
SAIHC9-5.3D National Report: Mauritius
SAIHC9-5.3E National Report: Kenya
SAIHC9-5.3F National Report: Mozambique
SAIHC9-5.3G National Report: Malawi
SAIHC9-5.3H National Report: Norway
SAIHC9-5.3I National Report: Seychelles

SAIHC9-5.3J *National Report: Namibia*
 SAIHC9-5.3K *National Report: United Kingdom*
 SAIHC9-5.3L *National Report: Angola*
 SAIHC9-5.3M *National Report: Tanzania*
 SAIHC9-5.3N *National Report: Madagascar*
 SAIHC9-5.3O *National Report: Comoros*

5.4 Hydrographic Survey status (C-55)

Doc: SAIHC9-5.4 C-55 INT Region H

5.5 Procedures in response to Marine Disasters

Doc: SAIHC9-5.5 CL73- IHO Response to Disasters
 SAIHC9-5.6 Collection of Ocean Bathymetry in SAIHC Area

6. Marine / Hydrographic Spatial Data Infrastructures (SDI)

Presentation: MAREANO Programme

7. Feedback: Related Bodies

7.1 WIOMHCCP

Doc: SAIHC9-7.1 IMO Proposal

7.2 IALA

Doc: SAIHC9-7.2 IALA World Wide Academy

7.3 GEBCO

7.4 SAGNEP

Doc: SAIHC9-7.4 SAGNEP3 May 2012_Report

8. Statutes of SAIHC

Doc: SAIHC9-8A SAIHC Statutes Rev 4

9. Election of Chairman and Vice-Chairman

10. Any other Business

Feedback on the Regional Cooperation Group on Safety of Navigation and Marine Environmental Protection (SAGNEP)

11. Date and Venue of next Conference

12. Closure

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9th SAIHC CONFERENCE ACTION ITEMS

Serial No	Subject	Action	Status
1	Signing of Statutes. Angola confirmed Statutes will be signed and will fax page to Chairman.	Angola	
2	Countries in the SAIHC region to provide capacity building inputs by end of February each year in accordance with CB procedures. (Note: Urgent requirements can be forwarded at any time or brought to SAIHC meetings).	Chairman, Angola, Comoros, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, South Africa, Tanzania	
3	IHO Response to Marine Disasters. All are to ensure that emergency contact details are provided and kept up to date. Contact list needs to be compiled. Ref: IHO CL 73/2012 dated 20 July 2012.	Chairman. Angola, Comoros, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, South Africa, Tanzania	
4	Implement action to accelerate the process of ratification of the Protocol of Amendments to the IHO Convention.	Mozambique	
5	Encourage the approval of pending applications of States for IHO membership. Haiti Viet Nam Brunei Darussalam Georgia	Mauritius Mozambique Norway South Africa UK France Portugal	
6	Responses required to IHO ENC Reference Collection and ENC Availability Catalogue. Ref: IHO CL 51/2012 dated 18 May 2012.	All	
7	Reminder to all Member States. All survey data to be forwarded to relevant INT charting authorities.	Angola, Comoros, Kenya, Malawi, Mauritius Mozambique, Seychelles, Namibia, Tanzania	
8	Mozambique to supply survey data to Malawi. Mozambique has provided Malawi with some charts but has not yet received feedback. Malawi to reciprocate. (Data exchange).	Mozambique Malawi	
9	Capacity Building. Malawi to ensure to request a technical expert to assist with getting survey system up and running once R.V. TIMBA is	Malawi & Norway in partnership to progress.	

	operational. Norway Hyd Service has paid Malawi a visit in this regard.		
10	SAIHC Member States and Associate MS to respond to IALA Questionnaire.	Comoros Mozambique Namibia	
11	Member States to provide updates to IHO C-55 as appropriate at least once a year.	All	
12	All deep ocean bathymetric data collected to be forwarded by HOs to the IHO Data Centre for Digital Bathymetry (IHO-DCDB).	All HOs	
13	RHC Chairman to consider inviting IALA to attend RHC meetings to give a briefing and discuss any initiatives for joint activities.	Chairman	
15	RHC Chairman to consider inviting GEBCO/Bathymetric Regional Project Chairs to RHC meetings with the aim of improving high resolution shallow water bathymetry at the regional level.	Chairman	
16	Capacity Building requirement spreadsheet. Member States are requested to deliver their input.	All	
17	Proposed amendment to Resolution 1 of 2005 dealing with Response to Disasters. Member States are to provide comment on the revised text to Annex.	All	
18	Mismatch of ENC coverage within Region H. Matter to be referred to WEND.	UK	
19	Kenya requested assistance with the procedure in applying for IHO membership.	IHB / Kenya	Done - information provided 9/12
20	Kenya inquired about the availability of charts locally as there is no local UK distribution agency. UK was requested to investigate.	UK	
21	Kenya is to raise capacity building assistance.	Kenya	
22	Coordination of Arrangements of 10 th SAIHC Conference to be held in Lisbon on 18-19 September 2013.	Chairman/Portugal	
23	Confirmation of hosting of 11 th SAIHC Conference in 2014.	Mauritius	

Action Items resulting from the INT Chart Coordinating Committee Meeting

1	INAHINA (Mozambique) is to remove the INT number from their chart of Beira.	Mozambique	
2	INAHINA (Mozambique) is to remove the INT number from their chart of Maputo.	Mozambique	
3	Mauritius is to arrange the 1 st INT Chart Producer meeting as soon as convenient	Mauritius	

Annexure D

SAIHC 9 - INT Chart Coordinating Committee Meeting (Mauritius - 18 September 2012)

Agenda

1. Mozambique INT Charting.
2. Mauritius INT Charting – Chart block numbers for Region J.
3. Portugal Concerns – Producer of INT 7666.
4. Australian national chart Aus 605.

SAIHC9 – Minutes of the INT Chart Coordinating Committee Meeting (Mauritius - Tuesday 18 September 2012)

The INT Chart Coordination Committee Meeting took place on the 18th September during the 9th SAIHC meeting in Mauritius. The meeting was chaired by Captain Abri Kampfer.

The following members were present: Captain Abri Kampfer, VAdm Bruno Frachon, Mr Humberto Mutevuie, Cdr Fernando Freitas Artilheiro, Mr Malcolm Nelson, Ms Catherine Tunks, Mr Jeffrey Bryant, Dr Paul Canham, Mrs Doorgakant, Mr Seebun and Mr Rohit Rathish.

Observers: IHO President Robert Ward and IHO Assistant Director Anthony Pharaoh.

Captain Abri Kampfer thanked members for attending the meeting and stated that there are four issues that needed to be addressed:

Issue 1. The publication of Mozambique INT Chart covering Beira.

Mr Nelson reported that it was brought to his attention that Mozambique had given their national chart for Beira the same INT chart number as the chart INT 7632 produced by UK. Ms Tunks expressed concern about the limits of the chart which excluded part of the main entrance channel. She stated that UK would be happy for Mozambique to be the producer nation of this INT chart but that it should conform to INT chart specifications. Furthermore, she recommended that all INT charts should be circulated to other SAIHC INT Chart producer members for comment before being published. Mr Humberto Mutevuie thanked the UK for their comments and said that the limits were based on their national chart limits but that they would look into revising the chart so that it meets INT chart specifications. Captain Kampfer congratulated Mozambique on the excellent progress that they had made and for their very good cooperation.

Action Item 1: Mozambique will remove the INT chart number for the present. The UK and Portugal will work with Mozambique to convert their chart so that it will comply with the IHO INT chart specifications. MZ will then be assigned as the producer nation for this chart.

Issue 2. The production of Mozambique INT charts covering Maputo. Captain Kampfer noted that he had received a query about the Mozambique chart covering Maputo. This chart has been given the same INT chart number as the one produced by the UKHO. Ms Tunks again stated that the UK would be happy for Mozambique to become the producer nation for this chart however it needs to be changed in order to meet the IHO INT chart specifications.

Action Item 2: Mozambique will remove the INT chart number for the present. UK and Portugal will work with Mozambique to convert the chart so that it complies with the IHO INT chart specifications.

Issue 3. Mauritius INT charting action.

Captain Kampfer reported that India should be congratulated on carrying out extensive surveys around the Seychelles and Mauritius to improve the safety of navigation in these areas. This has resulted in the production of a number of national charts by India. India has requested INT chart numbers for some of these charts however there are already INT charts covering many of these areas and this would contravene the INT charts specifications. Captain Kampfer noted that this would result in significant duplication of work and would be confusing for chart users. President Robert Ward stated that IHO members should work together for the benefit of the mariner and should endeavor to ensure that the best possible data is made available for the production of INT charts. Mauritius stated that they support India's production of INT charts. Captain Kampfer reiterated that India should be commended for their efforts but stressed that any decisions relating to the production of INT charts within an INT charting region, in this case Region H, can only be made by the RHC INT chart coordinating committee for that region. Having duplicate INT charts produced by different producers within a region, defeated the benefits of the INT chart concept. He stated that, although there is a cooperative agreement between India and Mauritius, the INT chart scheme is an internationally agreed scheme and should follow the IHO regulations. There is however nothing preventing the charts produced by India from being adopted as national charts.

Mr Bryant noted that the best way forward appeared to be for India and UK, the producer of existing INT charts in the area, to discuss the production of these charts and to come to an agreement that could then be considered by the INT Chart Coordinating Committee if required. The current situation is not benefiting the international mariner. President Robert Ward commented that, following the general principals of UNCLOS and the long standing practice of the IHO Member States, when a nation undertakes surveys on behalf of another nation, the data is made available without restriction to the host nation. Mauritius requested more time to discuss this issue with the representative from India.

Issue 4. Portugal expressed concerns about INT 7666. Cdr Fernando Freitas Artilheiro reported that Portugal was initially the producer of INT 7666 in the IHO S-11 Catalogue and that production was changed to PT/GB without notice. He clarified that this comment does not represent an issue and the actual allocation of this INT chart production to PT/GB is in line with the production of other INT charts from Mozambique, therefore the S-11 should remain as it is. Furthermore, he recommended the involvement of Mozambique in the co-production of this chart.

Concerning the Australian chart Aus 605, Captain Kampfer confirmed that he had been in contact with Australia and they had confirmed that the chart **INT 7746** is in their production plan and may be available before the end of the year.

**SAIHC9 – Minutes of the INT Chart Coordinating Committee Meeting
Memorandum of Understanding (MOD)
(Wednesday 19 September 2012)**

SAIHC has taken note of Mauritius' official request for India to be recognized as the official INT producer nation and publisher of navigational charts of Mauritian waters. SAIHC is aware of the Memorandum of Understanding (MOU) entered into between Mauritius and India in 2005 for cooperation in the field of hydrography.

After discussions it was agreed that this would require a transition period of a minimum of one year according to experts in this regard. It was therefore been proposed and agreed that a transition monitoring panel be set up comprising of Mauritius, INHO, UKHO, IHB and SAIHC to that effect to ensure that the transition is effected in a smooth manner and with the least delay.

It was suggested that a first meeting be held as soon as possible under the leadership of Mauritius. It is understood that this agreement is without prejudice to the sovereign rights of Mauritius.

Action Item 3: Mauritius to arrange the first meeting as soon as convenient