

**MINUTES OF THE 11TH SOUTHERN AFRICA AND ISLANDS HYDROGRAPHIC
COMMISSION (SAIHC) CONFERENCE
Maputo 12 - 13 August 2014**

TUESDAY 12 AUGUST (Day 1)

Agenda item 1: OPENING AND ADMINISTRATIVE ARRANGEMENTS

At 0935, Captain Abri Kampfer, the Chair of SAIHC, started proceedings and welcomed all participants to the 11th SAIHC Conference. The members of industry were thanked for their presence and continued support to the workings of SAIHC. He thanked INAHINA for hosting this Conference in Maputo. He also thanked Mr Robert Ward, President of the International Hydrographic Bureau (IHB) for his presence and direct involvement in the affairs of SAIHC. Special thanks were given to Mr Justin Hornby (Jeppesen) and Mr Richard Hill (QPS) for sponsorship of the ice-breaker function on Monday evening and to Mr Charles De Jongh (Caris), Mr Øystein Aasbø (Kongsberg) and Mr Barry Vine (Horizon Geoscience) for sponsoring of the dinner function. Lastly, he welcomed the good turnout of INAHINA representatives.

The Chair informed the Conference of the administrative arrangements and thanked the Industry sponsors for their generous contribution of conference bags and corporate items. The list of participants is attached as **Annexure B**.

Welcome Address Mrs Manuela Roberto

Deputy Minister of Transport and Communication

Honourable deputy minister Ms Manuela Roberto expressed a warm welcome to delegates at the 11th SAIHC Conference on behalf of the Mozambique government and welcomed the efforts of SAIHC to promote hydrography in the region. She thanked Captain Abri Kampfer, the SAIHC Chair, for his tireless support which he has rendered to Mozambique.

She informed delegates that Mozambique is working diligently, with the allocation of available resources, to assure safety and security of ships visiting Mozambique ports and waters thereby fulfilling their duty to contribute to Mozambique's national development and global navigation in general.

The acquisition of new survey vessels and the provision of resources into hydrography in her country illustrate Mozambique's commitment to achieving these aims.

In closing she wished all delegates a successful meeting and a good visit to Mozambique.

Address by President Robert Ward

International Hydrographic Bureau (IHB)

President Robert Ward thanked INAHINA on behalf of the IHB for hosting the meeting here in Maputo. He explained the purpose and importance of the hydrographic regions to co-ordinate the various identified function and roles. He had recently represented the IHO at the fourth session of the United Nations Committee of Experts on Global Geospatial Information Management (UN GGIM) and noted that this forum is still heavy biased towards terrestrial geo data but noted also that, unlike the IHO, there are relatively few global standards driving their work. He urged the hydrographic offices to start taking ownership as managers and curators of their national maritime spatial data (particularly bathymetry) and for serving their communities with more than just the provision of national nautical charts, because if they fail to do so other

organizations may start collecting and curating the data and it could become increasingly difficult for a national hydrographic office to justify its existence.

He outlined the revised IHO capacity building strategy which is supported by a new capacity building database from which strategic decisions can be taken based on statistics and the results of previous capacity building initiatives, such as future funding of capacity building requests. This could mean that Member States who do not implement capacity building training effectively may not be provided with future capacity building training in preference to those countries who do.

Although the IHO provides many guidelines and doctrine it does not implement it. This is the role of countries in regional hydrographic commissions to implement these aspects such as capacity building, training activities, promulgation of nautical information, charting, surveys, technical co-operation to name a few. The time has come for hydrographic offices and organizations to apply their minds to their roles and abilities to collect, supply and utilize hydrographic information.

SAIHC10 - OFFICIAL GROUP PHOTOGRAPH

Meeting proceedings reconvened after the group photograph.

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

The Chair requested all participants of the Conference to propose any additional topics to be discussed at the Conference. No proposals were received and the published agenda was accepted with no changes. UK proposed the acceptance of the agenda and this was seconded by Mauritius.

Agenda item 3: MATTERS ARISING FROM MINUTES OF 10th SAIHC MEETING

3.1. Countries in the SAIHC region to provide capacity building inputs.

Countries in the SAIHC region to provide capacity building inputs by end of February each year. **(Action Item 1).**

3.2. IHO Response to Marine Disasters. Member States are to ensure that emergency contact details are provided and kept up to date.

The Chair and IHB President emphasised the importance of this list of contact numbers. The Chair will place the list of contact numbers for SAIHC members on the IHO website and members are urged to ensure the details are correct. **(Action Item 2).**

3.3. Malawi to provide Norway with a list of requirements with regards to the survey vessel R.V. TIMBA that will assist with getting survey system up and running once R.V. TIMBA is operational.

Mr Michael Mzunzu (Malawi) confirmed that a request made to Norway which was asking for assistance after the survey vessel had been commissioned and had provided Norway with list which included software updates. Norway responded to say a letter of request was received but it embraced a new requirement. The supply of a list concerning the upgrades and vessel fix list needs to be included as a new request. Chair closed this item as it is a bilateral issue.

3.4. Member States to provide updates to IHO C-55 as appropriate at least once a year.

Mr Anthony Pharaoh (IHB) gave a status report on C-55 which is in the process of being transferred to a GIS environment so that data can be better utilised. The use of a web-based input form will simplify the process of data uploading and to improve analysing of data. Until this has been implemented and advertised to all HOs they should continue with the existing process for submissions.

The President also expressed his concern that Member States' representatives at IMO meetings are not always aware of or informed about MSI issues related to hydrography in their countries. He encouraged the Member States to make contact with their IMO representatives and inform of any MSI deficiencies.

The Chair requested member States of SAIHC to take note of the importance of C-55 and to provide their inputs whenever changes occur to ensure that the data remains relevant. **(Action Item 3)**.

3.6. Member States responsible for charting required to send coastal data to IHO

The Chair requested Member States involved in charting within the SAIHC region (specifically UK, Portugal and France) to provide the IHO data centre for digital bathymetry (DCDB) with relevant bathymetric data. **(Action Item 4)**. This action arises from a request by Mr Anthony Pharaoh for such data to enable the improvement of building of grids for various purposes such as tsunami modelling, coastal environment modelling etc. More information and software needed to "harvest" such data is available on the IHO website.

3.12. All shallow and deep ocean bathymetric data collected to be forwarded by HOs to the IHO Data Centre for Digital Bathymetry (IHO-DCDB).

The Chair asked Member States to provide a report on this item concerning the acquisition of shallow and deep water bathymetric data from private organizations /entities. No feedback from the floor. The Chair encouraged those Member States present to continue to source such data. IHB informed the meeting that IHO is constantly striving to promote this activity. Attendees were informed of the data held in the IHO data centre for digital bathymetry and were referred to the IHO website for more information.

Dr Neil Guy (SAMSA) informed the meeting that data collected by SHOM as part of the GEF-Western Indian Ocean Marine Highway Project should be provided to the IHB by the recipient States in the region. France and UK requested to provide any data received to the IHB. **(See Action Item 4)**.

Underwater Surveys stated that some data collected in Mozambique is held by the surveying companies but this cannot be provided for charting purposes without the permission of the contracting agency or organization. MZ to seek the permission of the data owners to obtain the data and to forward this data to the relevant Primary Charting Authority as well as include it in their own chart products where applicable. **(See Action Item 4)**

Mr Jeffrey Bryant (UK) informed the Conference that UK recognises satellite derived bathymetry (SDB) as a potential source for data for improving charting products and is currently assessing its uncertainty, limitations and reliability. Until the assessment is complete, UK will not use SDB in their products.

The Chair expressed his concerns on the matter of the INT chart producing nations not being informed about changes that occurred in the waters for which they have a charting responsibility and the high risk on safety to navigation that this poses. The Chair requested that Member States communicate with their national ports or maritime authorities to help with identifying changes and new survey information and make this information available to the INT chart producers without delay **(Action Item 5)**.

- 3.13. RHC Chair to consider inviting IALA to attend RHC meetings to give a briefing and discuss any initiatives for joint activities.

IALA attendance at this meeting is welcomed. Chair to invite IALA to attend the next SAIHC Conference. **(Action Item 6)**.

- 3.14. RHC Chair to consider inviting GEBCO/ Bathymetric Regional Project Chair to RHC meetings with the aim of improving high resolution shallow water bathymetry at the regional level.

GEBCO attendance at this meeting is welcomed. Chair to invite GEBCO to attend the next SAIHC Conference. **(Action Item 7)**.

- 3.19. Kenya inquired about the availability of charts locally as there is no local UK distribution agency. UK was requested to investigate.

UK (Jeff Bryant) reported that procedures for becoming an agency for BA charts are on the UKHO website. Kenya's issue was not to become a distributor, but to obtain these charts more readily. UK recommended this be dealt with by means of a bilateral arrangement between UK and Kenya. Item closed.

Agenda item 4: FEEDBACK FROM OTHER IHO BODIES AFFECTING SAIHC

4.1. IHB Report

The President of the IHB stated that the IHB had received no requests directly for a free copy of the publication "International Hydrographic Review",. Action item on Member States to submit their requests to Mr Pharaoh at the IHB **(Action Item 8)**

He then outlined the topics for discussion at EIHC-5 (the 5th Extraordinary International Hydrographic Conference) to be held in Monaco in October 2014.

The IHO is close to achieving a two-thirds majority of approvals to the proposed changes to the IHO Convention. Mozambique's response is still outstanding and will be delayed due to pending elections in Mozambique. Should this positive majority vote be achieved from the IHO Member States, the body will meet in three year cycles with the first Assembly (previously IHO Conference) taking place in 2017.

The IHB President added that under the terms of the current Convention Member States applying to join the IHO need the two thirds approval of the existing Member States, however under the revised Convention this requirement will no longer exist if the country is a member of the United Nations, which simplifies the process of becoming a member of IHO. MZ and Mauritius should still consider providing their approval for Vietnam, Brunei Darussalam and Georgia to join the IHO. The injection of additional funds from these potential Member States will, should their membership be

approved, assist greatly with capacity building initiatives so members of this Commission are encouraged to take this into account when submitting their votes.

The Chair requested Mauritius and Mozambique to follow up on the status of the progress of approval on new Member States of the IHO. **(Action Item 9)**.

The meeting was also informed about the report from the IHO's Staff Regulations Working Group and its recommendations. Member States will be invited to provide an opinion on the report and its recommendations. He also highlighted the expectation of having a draft resolution tabled seeking IHO guidance which will allow HOs and the IHO collectively to gain better access to private hydrographic data.

The President mentioned the focus of IHO will be on establishing a global bathymetric reference dataset (which is the same focal point for GEBCO as well). He also explained the potential of using SDB (satellite derived bathymetry) and CSB (crowd-sourced bathymetry) as a reference database not specifically for charting.

World Hydrography Day for 2015 will embrace a theme to announce a new 10-year plan for GEBCO and the emergence of Crowd-Sourced Bathymetry and Satellite Derived Bathymetry data acquisition.

4.2. Inter-Regional Coordination Committee (IRCC)

The Chair informed the meeting on the outcomes of the Action Items of the IRCC meeting held in May 2014 in Paris. The President of the IHB provided additional comments as follows:

IRCC6/06 and 07: The President thanked the Chair for the annual report on SAIHC, stating that the SAIHC is singularly the only one of all the Commissions to have provided all the required inputs required by the IHO. The high attendance of States in the region to SAIHC and the high percentage of charting achieved (currently 75%) are good indicators that SAIHC is performing well as a regional body. The presence of a GEBCO representative at this meeting should contribute to promoting the identification of, exchange of and improving on the gathering of high resolution shallow water bathymetry at the regional level. The role of the fishing industry as a means of gathering such data should not be ignored.

IRCC17: The potential to use vessels to crowd-source data is a valuable resource for gathering bathymetry especially using fishing industry vessels. This form of data gathering is taking place in Norway, Canada and Asia and the data quality is proving valuable for use in non-navigational hydrographic products.

IRCC19: Statutes of the European Union Networking Working Group may limit membership to European Member States only. This will require a clarification of whether FR may represent SAIHC on this WG. Chair to respond to FR thanking them for offering to represent SAIHC at this forum.

IRCC28: Category A survey training is funded by the Republic of Korea and cartographer training is funded by the NIPPON Foundation. Difficulty has been experienced in finding candidates with a good command of English and relevant qualification levels. Member States to take note of these requirements and encourage their candidates to get the relevant qualification levels well in advance of the course application dates.

IRCC46: Member States are encouraged to use the risk assessment methodology developed by New Zealand to establish hydrographic survey priorities. The Chair said that it was in the countries' capability to carry out such an assessment themselves to

determine where surveys are needed. The President drew Member States attention to a presentation of this methodology at the forthcoming IHO Extra-ordinary Conference.

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

5.1 INTERNATIONAL CHARTING CO-ORDINATION

The Chair reminded SAIHC members of the need to communicate changes in their national waters that impact on safety of navigation and affect published INT charts (e.g. port developments) and to provide ample warning and the necessary data to the INT chart producers. **(See Action 5)**

Jeff Bryant informed the meeting about a publication produced by the UKHO covering a code of practice for ports and harbours for the supply of information that charting authorities need and the format in which this information should be provided to maintain the charts and associated hydrographic products. UKHO is happy to make copies of this publication available to any coastal State that would like a copy.

The Chair encouraged SAIHC Member States to have representation on the SAIHC INT Chart Coordinating Committee that had its 3rd meeting on 11 August and provide data in support of the products in this region. The support of Member States will enable the Phase 1 of this charting scheme to be completed for the benefit of all mariners and chart users.

The IHB President outlined the IHO Resolutions pertaining to this responsibility as a Member State of the IHO.

NAVAREA VII

The Chair gave a presentation on Maritime Safety Information (MSI) and the current status in NAVAREA VII.

The Chair requested the members of SAIHC to identify suitable person(s) to deal with the implementation of MSI in their country.

The IHB President also emphasised that the provision of MSI is a SOLAS obligation and that the IHO should make IMO aware where problems exist. IHO Member States should make their national delegates to IMO aware of MSI and relevant hydrographic issues and deficiencies in their respective areas.

Member States in the NAVAREA VII area are encouraged to provide MSI information to the NAVAREA VII Co-ordinator without delay.

Member State members who have done the MSI course are encouraged to undertake the Phase 1 Chart Skills Course as well, since they usually follow each other.

Chair to provide MSI updates to C55 to the IHB. **(Action Item 10).**

5.2 REGIONAL CAPACITY BUILDING PROGRAMME

Mr Jeffrey Bryant (UK) presented the current status of capacity building, which embraces the following phases:

- Phase 1: MSI Development.
- Phase 2: Survey Capability.

Phase 3: Production of charts and publications.

He then briefed the meeting on the following capacity building that has taken place to date and the planned training in the SAIHC region, this being:

- Chart Production Training Course for INAHINA conducted in Maputo 23-27 Sep 13 (delivered by Brazil in Portuguese language).
- A phase one MSI Skills Course, which took place in Fish Hoek, South Africa from 16-18 Dec 13.

Mr Bryant then outlined the proposed courses that need to be considered in the 2014 – 2017 Plan. Information was provided on an Introduction to hydrographic survey course to be conducted in 2014. The chairman informed the meeting that a tidal course had been prepared and is available for implementation. A tidal and water levels workshop will be provided in South Africa in early 2015.

In 2015 it was planned to provide:

- A 5-day Phase 1 Skills Course to Assess Data.
- A 5-day Workshop on Technical Aspects of Maritime Boundaries and baselines; and
- 'On-the-job' hydrographic survey training.

Mauritius volunteered to host these events in Mauritius. It was agreed that Mauritius host the 5-day Phase 1 Skills Course. The Chair requested all members of SAIHC to respond to SAIHC Circular Letter 3 (dealing with the hosting and attendance on courses) and to nominate suitable candidates for the forthcoming survey course to be held in Mozambique (**Action Item 11**).

He encouraged SAIHC members to host capacity building events as the host country may, within reason, get additional places on the course that they are hosting. The UK indicated that they can provide training in many cases and assist with logistics for these courses but seek a host country from Member States. The following areas of training have been identified:

- Tidal theory and a tidal level workshop.
- 'On the job' hydrographic survey training.
- Basic Hydrographic course and nautical charting.

The survey training course which was provided on board a French survey vessel was limited to Madagascar and Comores because of logistic issues.

The Chair asked Mr Bryant to convey his thanks and gratitude to the UK Hydrographer for providing the former's services to SAIHC.

5.3 PRESENTATION OF NATIONAL REPORTS

Angola, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Norway, Portugal, South Africa, Tanzania and the United Kingdom presented their national reports. The Chair presented France and Kenya national reports in the absence of a representative.

No national reports were received from Comoros and Seychelles.

All reports are available on the SAIHC website.

Matters arising from National Reports

France:

FR will be conducting many surveys in this region (Mayotte, Comoros, Nosy Be, Madagascar). Their active involvement is noted and appreciated. The production of paper nautical charts and ENC's in the area, the provision of survey training are also other indicators of their involvement in the SAIHC region.

Kenya:

Meeting informed of the establishment of two new hydrographic offices in Kenya. Surveys in Lamu area have been carried out by the Indian Navy. Kenya to provide UKHO with information to assist with INT charting of this port. **(Action Item 12)**.

The need to resolve tidal issues in Kenya should be addressed once a course on tides has been arranged. ZA is willing to assist Kenya with advice on survey boats.

Kenya's application to join the IHO is with their Minister of Foreign Affairs.

Mozambique

Arising from their national report, it was decided that once MZ has its multibeam systems installed on their survey boats, they apply for technical assistance to assist them with the use of this equipment for surveying.

Fruitful discussions on INT navigational charts for Mozambique have taken place recently with ZA and the UK. ENC production remains a priority.

The buoy tender vessel has been very active in Mozambican waters and harbours with buoy maintenance. MZ to provide ZA with a report on the status of buoyage in their region to enable a review of NAVAREA VII messages in force. **(Action Item 13)**.

Namibia

The meeting was informed that Namibia is in the process of including their Navy in their discussions before submitting their proposal for full IHB membership.

Two tide gauges operating in Namibia; one in Walvis Bay and the other in Luderitz. Major port expansion project is being undertaken in Walvis Bay at present in the south of the harbour. Tendering processes now in place to develop a new channel and quays in the northern part of the harbour. Namibia requested to provide information to ZA as a matter of urgency so that charts can be updated to reflect this reclamation **(Action Item 14)**.

UK

UK provided an insight with paper examples of their new product, *Port Approach Guides or PAGS*.

Malawi

Underwater Surveys informed Malawi that they have done extensive survey work and this data is available through the Malawi Government.

IHB President stated that Member States who want technical or capacity building assistance based on findings and recommendations in their national IMO reports must inform the IHB of their needs as the IHO does not have direct access to these IMO reports **(Action Item 15)**.

Angola

Angola requested to provide all new survey data and other essential information to PT so that the existing charts can be updated.

Angola requested to provide ZA with MSI related information so that NAVAREA VII messages can be kept up to date with minimum delay (**Action Item 16**).

Tanzania

Tanzania urged to obtain recent survey data from their naval authorities and to provide this data to the UK as the INT chart producer nation so that the INT and national charts can be updated accordingly. (**Action Item 17**).

Madagascar

Madagascar reiterated that the best strategy for effective hydrographic capacity development is not to be “observers” but to participate actively in on-the-job training with adequate equipment.

5.4 PROCEDURES IN RESPONSE TO MARINE DISASTERS

SAIHC members were encouraged by the IHB President to identify ways to improve the IOC Tsunami Program in the region and to support the proposal of France to extend the framework of IHO Resolution 1/2005 to include the provision of real time or near real-time tidal data to assist with the prevention of tsunami disasters and alert systems for tsunamis.

Neil Guy informed the meeting on the current status of the regional co-ordination centre for oil spills in the SAIHC region covering the East Coast of the continent and the implementation of six AIS base stations.

Jean-Charles Leclair of IALA informed the meeting on the current status of the establishment of bases of refuge for vessels.

Members were reminded to continue with efforts to provide information with regard to early warning of tsunami events and to establish whether their network is available to gather near/ real time tidal data and to report to SAIHC. (**Action Item 18**).

5.5 SATELLITE DERIVED BATHYMETRY (SDB)

UK is carrying out an assessment on the unreliability factor of this type of data and until a decision is reached such data will not be used in their products.

Agenda item 6: NEW ITEMS**6.1 MARINE/ HYDROGRAPHIC SPATIAL DATA INFRASTRUCTURES (HSDI) (MSDI)**

Norway provided a briefing on the components, processes and distribution aspects of SDI in order to add value to the end user. Such data must be based on good standards, policies and governance and make use of information systems such as the internet in order for this data to have value to the end user.

IHB stated that the emergence of SDI - and particularly MSDI, is of great significance to HO's. Hydrographic services of States can raise their profile in this field and the opportunity to achieve this should not be missed. Failure to do so will diminish the hydrographic services of nations.

Attention is drawn to publications M-2 and C-17 for further information on this subject.

(Action Item 19) Member States are encouraged to access these publications on the IHO website.

6.2 CROWD SOURCED BATHYMETRY

Jeff Bryrant UK briefed the meeting on the current methodology and processes being used to obtain data by means of the crowd-sourcing concept. Trials conducted by US have proved that this method of data acquisition is worthwhile and its use can be applied to serve many needs, including providing background data to plan surveys, carry out tidal prediction analysis, environmental sensing, vessel diagnostic and assist in evaluating current charting. UKHO has done an assessment of this type of data acquisition method and provided positive feedback on its potential.

6.3 GEBCO

Dr Rochelle Wigley gave a briefing on the role of GEBCO, its products and uses. The GEBCO program also provides a Post Graduate academic training in this field.

IHB commented on the problem of lack of bathymetric data and ways of improving this deficiency. The use of existing, type-approved echo sounder and GMDSS positioning equipment can allow many vessels to play a greater role in the acquisition of bathymetric data than hitherto. This data can be placed in the DCDB and made available to all those interested in making use of it. Data logger hardware is being trialled in the Mediterranean by the IHB.

Agenda Item 8: TOPICS FOR DISCUSSION AT EIHC5

Member States were again reminded of the next Extra Ordinary International Hydrographic Conference to be held in Monaco in October 2014. The topics for discussion were highlighted. Specific topics need to be discussed and IHO Member States can also provide inputs on issues that they would like to be addressed. It is the intention to inform Member States on relevant issues that will include crowd-sourced data, satellite derived bathymetry and the significance of MSDI to national hydrographic organizations. He encouraged members to consider the inclusion of relevant role players in national governments in their delegations to the Conference as it will enlighten them in the field of hydrography.

Agenda item 9: STATUTES OF SAIHC

No amendments were proposed.

Agenda Item 10: Election of Chair and Vice-Chair

UK proposed the re-election of the current Chair and the proposal was supported by Mauritius and unanimously agreed by all Member States present. Captain Abri Kampffer (South Africa) was therefore re-elected as Chair. MZ proposed Mr Abdool Oozeer (Mauritius) as Vice-Chair, which was also unanimously accepted.

Agenda item 11: ANY MATTERS ARISING

The President of the IHB outlined important documents that Member States should pay attention to. These are C-13, C-16, C-17, C-51 and M-2 which can be downloaded from the IHO website at http://www.iho.int/srv1/index.php?option=com_content&view=article&id=448&Itemid=345.

Agenda item 12: Date and Location of the next Conference

Mauritius indicated their willingness to host the next SAIHC Conference and UK offered to organise the meeting but required a country in the region to act as host, noting that priority should be given to Member States which had not yet hosted the Conference. Priority was given to the UK to determine a country yet to be decided. The meeting agreed on scheduling the next SAIHC Conference from 23 - 25 September 2015. **(Action Item 20)**.

Agenda item 13: Closure

The Chair thanked all participants for their attendance and inputs at the meeting and formally declared the meeting closed at 17:40 on 13 August. All delegates were invited to the final event of the 11th SAIHC Conference, a formal dinner hosted by Horizon Geoscience, Caris and Kongsberg.

OBSERVER AND INDUSTRY PRESENTATIONS

Presentations were provided for the benefit of the attendees during the course of the Conference by:

QPS: Mr Richard Hill

Caris: Mr Charles de Jongh

Kongsberg: Mr Oystein Aasbo

GEBCO; Dr Rochelle Wigley

IALA: Mr Jean-Charles Leclair

From the resulting discussions, MZ and Angola were advised to apply to IALA for a technical visit. **(Action Item 21)**.

Horizon Geoscience: Mr Barry Vine

AGENDA

11TH IHO-SAIHC Conference MAPUTO: 12 – 13 AUGUST 2014

1. Opening and Administrative Arrangements

Docs: SAIHC11-1A List of Documents

SAIHC11-1B List of Participants

2. Approval of Agenda

Docs: SAIHC11-2A Agenda

3. Matters arising from Minutes of 10th SAIHC Conference

Docs: SAIHC11-3A Minutes of SAIHC10

SAIHC11-3B Status / Review of Actions List

4. Feedback from other IHO bodies affecting SAIHC

4.1 IHB

4.2: IRCC

4.3 CBSC

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.

5.2 Bilateral and Regional Cooperation Agreements, Projects and Regional Capacity Building Management Plan. CBSC Technical Visits and Regional Projects

5.3 Presentation of National Reports: Hydrographic surveying, nautical charting, nautical publications and information status.

Docs: SAIHC11-5.3A National Report: France

SAIHC11-5.3B National Report: South Africa

SAIHC11-5.3C National Report: Portugal

SAIHC11-5.3D National Report: Mauritius

<i>SAIHC11-5.3E</i>	<i>National Report: Kenya</i>
<i>SAIHC11-5.3F</i>	<i>National Report: Mozambique</i>
<i>SAIHC11-5.3G</i>	<i>National Report: Malawi</i>
<i>SAIHC11-5.3H</i>	<i>National Report: Norway</i>
<i>SAIHC11-5.3I</i>	<i>National Report: Seychelles</i>
<i>SAIHC11-5.3J</i>	<i>National Report: Namibia</i>
<i>SAIHC11-5.3K</i>	<i>National Report: United Kingdom</i>
<i>SAIHC11-5.3L</i>	<i>National Report: Angola</i>
<i>SAIHC11-5.3M</i>	<i>National Report: Tanzania</i>
<i>SAIHC11-5.3N</i>	<i>National Report: Madagascar</i>
<i>SAIHC11-5.3O</i>	<i>National Report: Comoros</i>

- 5.4 Hydrographic Survey status (C-55)
- 5.5 Procedures in response to Marine Disasters
- 6. Marine / Hydrographic Spatial Data Infrastructures (SDI)**
- 7. Feedback (IALA & GEBCO)**
- 8. Statutes of SAIHC**
- 9. Election of chairman and vice-chairman**
- 10. Any other Business**
- 11. Date and venue of next Conference**
- 12. Closure**

ANNEXURE B**LIST OF PARTICIPANTS: 11TH IHO-SAIHC Conference**

Delegation	Name	Phone Number	Fax Number	Address	E-mail Address
IHB	Robert WARD (IHB President)	+377 93 10 81 01	+377 93 10 81 40	International Hydrographic Bureau 4,quai Antoine 1 er B.P. 445 MC 98011 MONACO CEDEX PRINCIPAUTE DE MONACO	pres@iho.int
	Anthony PHARAOH	+377 93 10 81 08			addt@iho.int
Angola	Salustiano P.F. Ferreira Manuel Narciso	+244 923 897 032 +244 923 562 943		IHSMA – Instituto de Hydrografia e de Sinalização Marítima de Angola Rua Rainha Ginga No 74, 4ºAndar	orfeu-salu@yahoo.com.br narciso.narc@yahoo.com.br
Madagascar	Nivo Ratovoarison	+261 341 122 921			nivoratovoarisonyahoo.com
Malawi	Michael Mzunzu	+265 175 25 81	+265 175 2581	Surveys Department P/B B525 Lilongwe3	mzunzumtt@malawi.net
Mauritius	Vinod Seebun	+230 579 288 46	+230 454 6320	Ministry of Housing and Lands Ebene Tower Ebene – Mauritius	vseebun@mail.gov.mu
Mozambique	Augusto Bata Humberto Mutevuie Herminio Chavango Célia Magaia	+258 823 048 639 +258 841 664 044 +258 82 796 3700 +258 828 909 020	+258 214 301 85	Instituto Nacional de Hidrografia e Navegação Av. Karl Max 153 Maputo	augustobata@yahoo.com.br hmutevuie@yahoo.com.br hchavango@yahoo.com.br
Namibia	Mark Eiman	+264 81 146 19 86	+264 64 208 2382	Namibian Ports Authority No 17 Rikumbi Kandanga Road PO Box 361, Walvis Bay, Namibia	mark@namport.com.na
Norway	Noralf Slotsvik	+47 41 66 55 04	+47 518 587 01	Norweigen Hydrographic Service PO Box 60 N- 4001 Stavanger	noralf.slotsvik@statkart.no

Delegation	Name	Phone Number	Fax Number	Address	E-mail Address
Portugal	Leonel Pereira Manteigas	+35 121 094 3055	+35 121 094 3299	Instituto Hidrografico Rua das Trinas, 49 1249-093 Lisboa	pereira.manteigas@hidrografico.pt
South Africa	Abri Kampfer Sidney Osborne P. Khosa	+27 21 787 2412 +27 21 787 2231	+27 21 787 2233	Hydrographic Office, SA Navy, Private Bag X 1 Tokai, 7966	hydrosan@iafrica.com
Tanzania	Robert Paul Rweyemamu	+255 753 832 878	+255 212 4576		robertpaul145@yahoo.com
UK	Jeffrey Bryant Catherine Tunks (Cathy)	+44 1823 33 7900 ext 3821 ext 4133	+44 1823 284 077	UK Hydrographic Office, Admiralty Way Taunton TAI 2DN	jeff.bryant@ukho.gov.uk cathy.tunks@ukho.gov.uk navwarnings@btconnect.com
IALA	Jean-Charles Leclair	+33 134 517 001	+33 134 518 205	104 Allee des Bruyeres Port d'Alon 83270 St Cyr/Mer	jean-charles.leclair@iala-aism.org
GEBCO	Rochelle Wigley	+1 603767 6894			rochelle@ccom.unh.edu
FUGRO	Don Ventura	+1 228 365 0906	+1 858 925 5308		dventura@fugro.com
Horizon Surveys	Barry Vine	+971 50 481 1473			b.vine@horizon-geoscience.com
Jeppesen	Justin Hornby	+27 21 782 0274 +27 82 411 0465		PO Box 30760 Tokai, 7966	justin.hornby@jeppesen.com
Kongsberg	Øystein Aasbø	+47 932 319 986			Oystein.aasbo@km.kongsberg.com
Underwater Surveys	Ephan Potgieter	+27 21 709 6000 +27 835 568 166	+27 21 788 5302	Unit 2, Southerncross Village Capricorn Park Muizenberg	Ep@underwatersurveys.com

Delegation	Name	Phone Number	Fax Number	Address	E-mail Address
CARIS	Charles De Jongh	+31 413 296 010	+31 413 296 012	Mgr. Van Oorschotstraat 13 PO Box 47 5473 ZG Heeswijk The Netherlands	charles.de.jongh@caris.nl
QPS	Richard Hill	+31 30 694 1200			hill@qps.nl
SAMSA	Neil Guy	+27 21 715 7008	+27 21 715 7008	10 Farmside , Homestead Avenue Bergvleit 7945	nguy@zsd.co.za
INAHINA	Calisto Amosse Cid Cambule Felix Pelembe João Junior Munguambe Flora Marapusse Clara Come Suzana Tembe Laura Chirindja Enoque Macia Costa Banzee Simião Munguambe Lucas António Susana Cav Jozje Escn				

11th SAIHC CONFERENCE ACTION ITEMS

Serial No	Subject	Action	Status
1	<i>Countries in the SAIHC region to provide capacity building inputs by end of February each year in accordance with capacity building procedures. (Note: Urgent requirements can be forwarded at any time or brought to SAIHC meetings).</i>	<i>SAIHC Member States</i>	
2	<i>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 and displayed on SAIHC website</i>	<i>SAIHC Member States</i>	
3	<i>Member States to provide updates to IHO C-55 as appropriate at least once a year.</i>	<i>SAIHC Member States</i>	
4	<p><i>Charting Member States requested to provide coastal bathymetric data to the IHO DCDB.</i></p> <p><i>All shallow/ deep ocean bathymetric data collected to be forwarded by HOs to the IHO Data Centre for Digital Bathymetry (IHO-DCDB). Feedback to be provided on progress at next SAIHC Conference.</i></p> <p><i>MZ to source and seek the permission of commercial companies to obtain contracted survey data and forward this data to Primary charting authorities as well as include it in their chart products where applicable.</i></p> <p><i>France and UK requested to provide GEF-Western Indian Ocean Marine Highway Project data to IHB.</i></p>	<p style="text-align: center;"><i>France, UK, Portugal, South Africa</i></p> <p style="text-align: center;"><i>SAIHC Member States</i></p> <p style="text-align: center;"><i>MZ</i></p> <p style="text-align: center;"><i>France, UK</i></p>	
5	<i>SAIHC Member States to provide survey data and report changes that may affect safety of navigation in their national waters in ample time to INT Chart producer nations.</i>	<i>SAIHC Member States</i>	
6	<i>SAIHC Chair to invite representation from IALA at all SAIHC Conferences.</i>	<i>SAIHC Chair</i>	
7	<i>SAIHC Chair to invite representation by GEBCO at all SAIHC Conferences.</i>	<i>SAIHC Chair</i>	
8	<i>SAIHC Member States who wish to obtain the IHO International Hydrographic Review to provide their contact details to IHB.</i>	<i>SAIHC Member States</i>	
9	<i>Progress approval of States applying for IHO membership and responses on the ratification of the Protocol of Amendments to the IHO Convention.</i>	<i>Mauritius MZ</i>	
10	<i>Chair to provide the IHB with updates to C55.</i>	<i>Chair</i>	

11	<i>Member States to identify suitable candidates for the two week IMO/IHO survey course to be held in Maputo 29 Sep – 10 Oct 2014.</i>	SAIHC Member States	
12	<i>Kenya to provide UKHO with information with a view to INT charting of the port of Lamu.</i>	Chair	
13	<i>MZ to provide ZA with a report on the status of buoyage in their region to enable a review of NAVAREA VII messages in force</i>	MZ	
14	<i>Namibia to provide information to ZA on developments in Walvis Bay so that charts can be updated to reflect reclamation areas.</i>	Namibia	
15	<i>Member States who want technical/ capacity building assistance based on findings in their national IMO reports must inform the IHB of their needs</i>	Malawi SAIHC Member States	
16	<i>Angola provide all new survey and other essential data to PT so that the existing charts can be updated. Angola also to provide ZA with MSI related information so that NAVAREA VII messages and be keep up to date with minimum delay.</i>	Angola	
17	<i>Tanzania urged to obtain recent survey data from their naval authorities and provide this data to the UK as the INT chart producer for Tanzania.</i>	Tanzania	
18	<i>Establish what network systems Member States have available to gather near/ real time data, in order to aid tsunami measurement and provide feedback at next Conference.</i>	SAIHC Member States	Ongoing
19	<i>Member States encouraged to note the information in M-2 and C-17.</i>	SAIHC Member States	
20	<i>Jeff Bryant UK to provide Chair with details of next host country for SAIHC XII</i>	UK	
21	<i>MZ and Angola to liaise with IALA for a technical visit.</i>	MZ Angola	