

**MINUTES OF THE 12<sup>TH</sup> SOUTHERN AFRICA AND ISLANDS HYDROGRAPHIC  
COMMISSION (SAIHC) CONFERENCE  
Dar-es-Salaam 22 - 23 September 2015**

***TUESDAY 22 SEPTEMBER (Day 1)***

***Agenda item 1: OPENING AND ADMINISTRATIVE ARRANGEMENTS***

Captain Abri Kampfer, the Chairman of SAIHC, started proceedings and welcomed all participants to the 12<sup>th</sup> SAIHC Conference.

This was followed by the opening address by the Honourable Angellah Jasmine Kairuki, Deputy Minister – Ministry of Lands, Housing and Human Settlements Development United Republic of Tanzania. She expressed a warm welcome to delegates at the 12<sup>th</sup> SAIHC Conference on behalf of the Tanzanian government and welcomed the efforts of SAIHC to promote hydrography in the region. She thanked the United Kingdom Hydrographic Office (UKHO) for collaborating with the Department of Surveys and Mapping in the arranging of the SAIHC Conference in Dar-es-Salaam. Appreciation was also expressed for the efforts of the International Hydrographic Organisation with regard to capacity building for Tanzania. (Speech attached as appendix).

**Address by IHB President Robert Ward**

Mr Ward thanked the Minister for her opening remarks. He also expressed his gratitude for the hosting of the 12<sup>TH</sup> SAIHC Conference in Dar-es-Salaam. He stressed the importance of SAIHC and elaborated more on the purpose of the Commission. A video was screened to explain the importance of hydrography in general.

Mr Ward highlighted the various spheres where hydrography plays a fundamental role. In closing he wished all members a fruitful SAIHC Conference.

***OFFICIAL GROUP PHOTOGRAPH***

The chairman requested all members to move outside to the chosen area where a group photograph was taken with the Minister.

***RECONVENING OF MEETING***

An introduction followed of all members present, including the representatives from industry. The observers from industry were thanked for their presence and continued support to the workings of SAIHC. The Chairman also thanked Mr Robert Ward for his presence and direct involvement in the affairs of SAIHC.

The chairman also announced the dinner to be hosted by the members from industry. He further extended his appreciation to the host country, as well as the UKHO for arrangements made in preparation for the meeting.

The chairman then presented an overview of important events which took place over the last year preceding the SAIHC Conference.

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

The chairman invited all participants to propose any supplementary item to be included in the agenda of the conference. No proposals were received and the draft agenda was accepted with no changes. UK proposed the acceptance of the agenda, seconded by Norway.

### **Agenda item 3: MATTERS ARISING FROM MINUTES OF 11<sup>th</sup> SAIHC MEETING**

Action Item 1: 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).

#### **Action Item 1**

Action Item 2: 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.

The chairman felt that not enough progress is achieved at this stage and that this matter must be revisited. **Action Item 2**

Action Item 3: Member States to provide updates to IHO C-55 as appropriate at least once a year.

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**

Action Item 4: Charting Member States requested to provide coastal bathymetric data to the IHO DCDB. Action Item 4

All shallow/ deep ocean bathymetric data (or at least, the metadata) 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. Action Item 5

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. Action Item 6

France and UK requested to provide GEF-Western Indian Ocean Marine Highway Project data to IHO-DCDB. (Completed).

Action Item 5: SAIHC Member States to provide survey data and report changes that may affect safety of navigation in their national waters in ample time to primary chart producer nations.

The Chair expressed his concerns on the matter of the primary chart producer 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 primary chart producers without delay. **Action Item 7.**

Action Item 6: SAIHC Chair to invite representation from IALA at all SAIHC Conferences. The IALA representative, Mr Jacques Manchard, attendance at the Conference was welcomed. Chair to invite IALA to attend the next SAIHC Conference. Action Item 8

Action Item 7: SAIHC Chair to invite representation by GEBCO at all SAIHC Conferences. The GEBCO representative, Mr Amon Kimeli, attendance at the Conference was welcomed. Chair to invite GEBCO to attend the next SAIHC Conference Action Item 9.

Action Item 8: SAIHC Member States who wish to obtain the IHO International Hydrographic Review to provide their contact details to IHB.  
**(Completed).**

Action Item 9: Progress approval of States applying for IHO membership and responses on the ratification of the Protocol of Amendments to the IHO Convention.  
The IHB President provided feedback on the progress within the IHO. In SAIHC Mozambique is the only Member State still outstanding. **Action Item 10.**

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

Action Item 11: Member States to identify suitable candidates for the two week IMO/IHO survey course to be held in Maputo 29 Sep – 10 Oct 2014.  
**(Completed).**

Action Item 12: Kenya to provide UKHO with information with a view to INT charting of the port of Lamu.  
UK confirmed that no information from Kenya was received. **Action Item 11.**

Action Item 13: 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.  
**(Completed).**

Action Item 14: Namibia to provide information to ZA on developments in Walvis Bay so that charts can be updated to reflect reclamation areas.  
**(Completed).**

Action Item 15: Member States who want technical/ capacity building assistance based on findings in their national IMO reports must inform the IHB of their needs.  
The President provided more clarity by explaining to delegates that the results of the IMO Mandatory Audits are not visible to the IHO or to IALA. The reports are provided to the inspected IMO coastal state only and it is up to them to then request specific support from IHO and IALA to address any deficiencies found with regard to hydrography and Aids to Navigation. SAIHC member states were thus urged to approach the IHO and IALA for assistance. **Action Item 12**

Action Item 16: Angola to 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.  
Both actions are outstanding and no report was received from Angola when these deficiencies will be addressed. **Action Item 13.**

Action Item 17: 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.  
Tanzania reported that the Indian Navy did two surveys, but no data is available. Tanzania was encouraged to continue with efforts to obtain the information to allow for the official charts to be updated with the latest available hydrographic data. **Action Item 14.**

Action Item 18: 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  
South Africa reported that three tide gauges in the SA network and one tide gauge in Namibia are connected via satellite transmitters to the Indian Ocean Tsunami Early Warning Centre. Fast data is supplied to JASL in Hawaii and the PSMSL in the United Kingdom. No other feedback was to be provided and the Chair requested that feedback be provided at the next Conference. **Action Item 15.**

Action Item 19: Member States are encouraged to note the information in M-2 and C-17. These IHO publications contain valuable information and regular updates occur. All were urged to visit the IHO website to download the latest versions. **Action Item 16.**

Action Item 20: Jeff Bryant UK to provide Chair with details of next host country for SAIHC XII. Very successful arrangements made by UK with close collaboration with Tanzania to allow for the hosting of SAIHC 12. **(Completed).**

Action Item 21: MZ and Angola to liaise with IALA for a technical visit. IALA reported that this action is still pending and that there are still room for one visit in 2015. All were reminded that the IALA Technical visits are to no cost of the recipient states and all were invited to approach IALA to request technical visits for 2016. **Action Item 17**

#### **Agenda item 4: FEEDBACK FROM OTHER IHO BODIES AFFECTING SAIHC**

##### **4.1. IHB Report**

The President of the IHB provided feedback on the workings of the IHB as follows:

Status of Approval of Amendments to the IHO Convention. It was noted that, as of August 2015, 42 of the required 48 approvals of the Protocol of Amendments to the IHO Convention had been reported by the Government of Monaco. Two additional approvals will be announced by the Government of Monaco in the near future. Mozambique was requested to progress ratification of the Protocol of Amendments to the IHO Convention and report any difficulties being encountered or assistance required. **Action Item 18**

Status of Membership of the IHO. IHO membership currently stands at 85. The current thresholds for IHO decisions are 42 when a simple majority is required and 55 when a two-third majority is needed. Not responding to a Circular Letter, which requires a vote is equivalent to voting NO. Four coastal States have applied to join the IHO and IHO Member States' representatives were requested to expedite wherever possible, the approval process for the applications of The Republic of the Congo, Malta, The Solomon Islands and Vanuatu to join IHO. **Action Item 19**

IHO GIS and Databases. The country information database was progressively upgraded to include additional administrative information and facilitate the maintenance of the Yearbook (IHO Publication P-5) and related lists posted on the IHO website. An Esri-based GIS solution is being implemented to develop further the regional information database. This will enable access to various layers of information through the IHO website and through various sophisticated cloud-based on-line GIS options. The IHO ENC Catalogue was transferred to this new environment and the transfer of the GIS coverage for Antarctica will follow next.

Work continued on developing a GIS database application to support C-55 - *Status of Hydrographic Surveying and Charting Worldwide* and the work of the IHO. In addition to the current composite indicators (percentage of areas adequately surveyed / requiring re-survey / not surveyed), the inclusion of CATZOC polygons would provide an initial geo-referenced quality layer as discussed at IRCC-4. In that perspective, the RENCs have been asked to seek the consent of their contributing members to provide CATZOC information to the IHB for inclusion in C-55. The Chair commented that at the recent IC-ENC Steering Committee meeting approval was provided by the members of IC-ENC to allow IC-ENC to provide the IHB with CATZOC information on their behalf. The President requested that SAIHC member states review entries in IHO Publications C-55 and P-5 (Year Book) at least annually. **Action Item 20**

INT Chart and ENC Production Coordination - Region H. Member States were encouraged to continue to provide updates to S-11, through South Africa as coordinator for INT Region H.

The status of the INT chart scheme for region H is contained in Edition 2.0.8 of S-11 Part B which was published in August 2015. There are 116 charts in the scheme, of which 87 have been published (75%).

IRCC7 agreed on a revised procedure for the review of new INT charts. In future, only charts from new INT producers will be reviewed. The principle purpose being to ensure that any new Producer Nation is following the relevant IHO standards and guidelines regarding INT charts. Information on the new experimental process for INT chart review. A CL was issued announcing the revised procedure. The CL also provides information on a workshop being organised in conjunction with NCWG2. The workshop will provide International Charting Coordinators with the latest information on the practical implementation of the INT chart scheme and will introduce the INTtoGIS tools, best practices, and lessons learned. Links have been provided to Member States' on-line chart catalogues from the IHO ENC coverage catalogue ([www.iho.int](http://www.iho.int) > ENC&ECDIS > ENC Availability > on-line catalogue).

5th Extraordinary International Hydrographic Conference (EIHC-5). EIHC-5 took place from 6 to 10 October in Monaco. 65 of the 82 Member States were represented, together with two pending Member States and 21 representatives from non-Member States. All six IHO Member States of the SAIHC were represented. The Conference acknowledged the need to consider novel ways to supplement hydrographic data gathering, especially in remote and unsurveyed areas. Methods include using satellite derived bathymetry and crowd-sourcing techniques.

Capacity Building Programme. The IHO capacity building programme reached a new level of achievement in 2014 with double the funds available for 2014 compared to 2013. This was a result of the ongoing financial support provided by the Nippon Foundation of Japan and the Republic of Korea, supplemented by a contribution from the IHO budget and in-kind support from Member States and from industry. The Directing Committee is continuing its campaign to find additional donor States and funding organizations. The SAIHC benefited from three activities under the IHO CB Work Programme since the last meeting:

- on-board training for personnel from Comoros and Madagascar aboard the French vessel *Beautemps-Beaupré* undertaken from June to August 2014
- a tides and water levels workshop led by the UKHO in Fish Hoek, South Africa in February 2015.
- an introduction to Hydrographic surveying in coordination with the IMO for Southern Africa in Maputo, Mozambique in September/October 2014

Crowd Sourced Bathymetry Programme. In accordance with Decision 8 of the EIHC-5, the IRCC established the Crowd-Sourced Bathymetry Working Group (CSBWG) to provide guidelines on the collection and use of crowd-sourced bathymetry. Member States are invited to nominate representatives to participate in the CSBWG. **Action Item 21**

IHO Outreach. The theme for World Hydrography Day 2015 concentrates on the fact that much of the world's seas, oceans and navigable waters remain unsurveyed. The theme for WHD-2015 was: "*Our seas and waterways - yet to be fully charted and explored*". The theme was intended to raise public awareness that, for example, there are higher resolution maps of the Moon, Mars and Venus than for many parts of our seas and coastal waters.

IHO Stakeholder Forum. Mention was made of the Stakeholders Forum that will be held during HSSC7. More details regarding logistics and other detail can be found on the IHO website.

International Hydrographic Review. The IHR provides an opportunity for Regional Hydrographic Commissions and Member States to publicise technical and other achievements in the region. An editorial board comprising a representative from each region was

established. The representative for the SAIHC is Captain Abri Kampfer (South Africa). Information regarding contact details and details regarding the current editor was provided. The members of SAIHC were requested to consider submitting paper for publication in the Review. **Action Item 22**

#### **4.2. Inter-Regional Coordination Committee (IRCC)**

The chairman provided an overview of the action items as discussed at the IHO-IRCC7 meeting held in Mexico in June 2015. Action items relevant to the SAIHC meeting are highlighted below.

IRCC7/01: Encourage the approval of pending applications for IHO membership. This will remain an action item resulting from this meeting as well.

IRCC7/02: Continue to engage pending applicants in their region to encourage the ratification of the IHO Convention.  
Recurring theme. MZ only member outstanding.

IRCC7/15: Provide material to the IHB to promote the achievements of IRCC bodies. The Chair invited SAIHC states to provide him with material or information highlighting SAIHC achievements.

IRCC7/26: report to IRCC8 on the status of the RHC procedures for selecting their representatives to the Council.  
SAIHC should take note of this requirement as it can be assumed that the Chair would be the logical representative, although in some cases it may be someone else. Consideration should be given to formalise this process by an inclusion in the SAIHC statutes. All to give this some thought for further discussion at the next SAIHC Conference. **Action Item 23**

IRCC7/33: Instruct the ICCWG Coordinators to investigate ways to improve communication across the regions and report back to IRCC.  
Within the SAIHC ICCWG there is regular communication between the INT Chart producers. There is however a challenge with communication between the Chart producers and the recipient coastal states. New information and available survey data should be made available to ensure that coastal states discharge their responsibilities as required by SOLAS. **Action Item 24.**

IRCC7/41: Consider incorporating hydrography in more comprehensive maritime projects as a way of raising funds from Donor agencies and to report progress to IRCC.  
Members to report on successes in this regard to the chairman in order for him to provide inputs to the IRCC. **Action Item 25**

IRCC7/42: Invite MSs to update C-55 annually including reports of “no changes”.  
The Chair reiterated the importance of C-55 as it is an important tool to identify capacity building requirements.

IRCC7/43: Provide access to the IHB to any of their relevant promotional material on CB and to consider using the posters displayed at the EIHC 5 CB exhibition.

IRCC7/44: Provide: a) an initial summary report on Technical Visits (TV) within two weeks of the visit; and b) full reports are expected within three months of completion of a TV.  
The Chair reported that all SAIHC Technical visits have complied with this requirement and all reports are available on the IHO website under the Capacity Building section.

IRCC7/48: Consider nominating regional representatives on the MSDIWG.

Several SAIHC members already participate in MSDIWG. The chairman emphasised the importance of this working group. The Chair expressed his appreciation to Mr John Pepper for the delivery of the MSDI Workshop the previous afternoon. It was well received and definitely raised the levels of understanding within SAIHC.

IRCC7/52: Continue supporting GEBCO regional projects and report back to IRCC.

The chairman invited members to provide examples of relevant reports.

IRCC7/53: Remind HOs of the standing request to provide GEBCO with access to existing shallow water bathymetric data, at whatever resolution is permissible by the country and to report progress to IRCC.

IRCC7/56: To provide comments on doc. WENDWG5-04B (Relevance of information overlay services and their status in the global IHO ENC programme) to IRCC.

IRCC7/62: Consider providing representatives of the IHO at the international meetings listed in doc. IRCC-10B on relations with stakeholders and to inform the IHB.

The chairman explained that the IHB has financial restrictions within the IHO budget and that it will not always be possible for the staff of the IHB to attend all meetings as per invitation.

The President reiterated the importance of the IRCC and the positive results of having the relevant meetings. He further congratulated the Chairman for his inputs and commitment to the IRCC.

### **4.3. CBSC**

The Chair indicated that progress and feedback on the SAIHC Capacity Building programme will be covered under another agenda item, but he took the opportunity to provide more clarity on the IHO Capacity Building Strategy. Limited funding is available and the demand outstrips the available resources. Priority is given to IHO Member States with regard to survey related training (phase two) and cartography related activities (phase three) and non-IHO Member States are limited to Maritime Safety related activities (phase 1). It does create a challenge for the Chair and the Capacity Building Coordinator to produce a credible capacity building programme for SAIHC when they are limited to Phase 1 activities. Member States were encouraged to approach their relevant Ministers in order to become full members of the IHO to get full benefit from the IHO Capacity Building programme.

### **4.4 WEND WG**

The chairman provided feedback regarding the WENDWG and made specific reference to the challenge dealing with ENC overlaps. A current investigation is underway by Singapore to determine the effects of overlaps on the functioning of ECDIS. The representative of Jeppesen and CIRM, stated that in areas of disputed territory there will always be overlaps that cannot be resolved and some guidelines will be required from the IHO on how industry should deal with the display of these ENC overlaps. He also provided two examples of how ECDIS may display ENC overlaps, but indicated that it differs between the various ECDIS. France also made use of the opportunity to provide examples of technical solutions in various regions to deal with overlap issues.

The President elaborated on the possible causes of ENC overlaps, as well as the importance of political will to find technical solutions when dealing with ENC overlaps.

## **Agenda item 5: SAIHC ACTIVITIES IN THE LIGHT OF THE IHO WORK PROGRAM**

### **5.1 MSI (NAVAREA VII Report)**

An overview of NAVAREA VII MSI operations was provided. Current challenges were highlighted, followed by suggestions on how to improve on MSI communications.

The UKHO inquired about the dissemination of MSI messages, which would be active for extended periods. It was explained that messages, which remain active for extended periods, will be cancelled and re-broadcast under new serial numbers. The chairman further elaborated on the dissemination of MSI messages and the inclusion of the relevant information in monthly Notices to Mariners (NTMs).

Malawi inquired about the provision of notices to locals at their rivers in terms of safety matters. The chairman suggested that the best way of dealing with these matters will be to place notes on the relevant local charts to this effect. The president of SAIHC also reiterated the importance of MSI, as well as guidelines in terms of dealing with MSI.

The representative of Jeppesen and CIRM enquired about the working of the S-124 working group and its future application. The chairman stated that the matter is considered and that the relevant matters will be addressed via the WWNWS working group.

### **5.2 CAPACITY BUILDING**

The SAIHC Capacity Building Coordinator, Mr Jeff Bryant, presented the strategic importance of the IHO in terms of capacity building and addressed the following:

1. What is capacity building?
2. The background of the capacity building program.
3. IHO capacity building strategy.
4. Three phases of capacity building.
5. Where one can obtain information on capacity building.

The representative of Seven Cs stated interest in providing assistance and indicate willingness to contribute more in terms of capacity building. The capacity building web page on the IHO website was displayed to indicate what information is available.

Mr Tim Lewis (UK) raised an enquiry regarding post-visit technical reports and recommendations in terms of timescales and follow-up action with the relevant nations. The chairman stated that the recipient country should take note of the recommendations contained in the report and, ideally, provides a progress report to the IHB within a year after a technical visit. He also reiterated that the success of a technical visit largely depends on the subsequent actions taken by the recipient country. The relevant progress reports can be provided directly to the IHB or via the Chair.

The President of IHB indicated that some Regional Commissions invite countries to report to the Commission in terms of progress made. This could also potentially provide guidance to other countries faced by similar conditions.

Kenya enquired further regarding other communications channels regarding capacity building. The chairman indicated that all relevant communications will be via the chairman and he provided assurance that all communications will be forwarded to the relevant entities. Comoros posed an enquiry regarding the hydrography training of non-IHO members. The chairman provided guidance in this regard and stated that the IHO capacity building strategy is that all Phase Two and Phase Three capacity building will only be provided to IHO Member States.



Mauritius offered to host the MSI Phase I Skills Course. The chairman expressed his gratitude and indicated that he will be sending letters of invitation to this effect in the near future. He also highlighted the importance of selecting the most suitable members to attend such courses. He reiterated the importance for members to forward all capacity building requirements as soon as possible to the Chair and the capacity building coordinator.

Mr Bryant proposed that, for 2017, a MSI specialist course be presented in the east coast region, as well as a 2-day hydrographic awareness seminar to precede the 2017 SAIHC meeting.

France enquired regarding a suggested course topic for African countries. Mr Bryant responded and stated that he believes that the IMO is planning a basic hydrography course for Anglophone nations in the first half of 2016 and a two-week field operator course for Francophone nations in the second half of 2016. A basic hydrography course is planned for 2017 for Portuguese speaking nations. The chairman expressed his appreciation for Mr Bryant's efforts in terms of capacity building in the region.

### **5.3 PRESENTATION OF NATIONAL REPORTS**

France, South Africa, Mauritius, Kenya, Norway, Malawi, United Kingdom, Tanzania and Comoros presented their national reports. The Chair presented Portugal and Mozambique national reports in the absence of a representative. No national reports were received from Seychelles, Madagascar and Angola and no representatives were present.

All reports are available on the SAIHC website.

#### **Matters arising from National Reports**

South Africa: Norway had an inquiry regarding potential challenges in terms of the collection of tidal data. The chairman elaborated on the South African experience on the application of radar tide gauges, its advantages, as well as successes obtained in the use of this type of tide gauge.

Kenya: It was reported that internal procedures were well underway to apply for IHO membership.

Mozambique: Changes took place at the Mozambican HO management of INAHINA. Mr. Simião **Munguambe**, a former Delegate at INAHINA's Beira Delegation, was recently appointed as new General Director of INAHINA, in replacement of Mr. Augusto **Bata**, who occupied the position for the last eight years. The new General Director was installed approximately two months ago. The UKHO provided inputs regarding the relevant training.

Tanzania: UK raised an inquiry regarding the provision of bathymetric data to allow for the updating of the charts of Tanzania and in particular those of the main harbours. **Action Item**

**26**

### **5.4 HYDROGRAPHIC SURVEY STATUS (C-55)**

The President IHB elaborated on the contents of C-55 and its purpose. He also highlighted the importance of C-55 as a valuable source in terms of capacity building. Members were urged to ensure that their information is correct. The UK enquired about CATZOG scores and its application in terms updating C-55. The chairman elaborated more and stated that during the recent IC-ENC steering committee meeting, the decision was made that IC-ENC can provide CATZOG information to the IHB as was requested by Circular Letter. He also stated that he believes that Primar would take similar action.

### **5.5 PROCEDURES IN RESPONSE TO MARITIME DISASTERS**

The chairman indicated that information regarding this is available on the IHO website. He also invited members to provide details regarding such disasters, as well as contact details of the relevant contact persons in their organisations dealing with maritime disasters by the end of October 2015.

## **5.6 SATELLITE DERIVED BATHYMETRY (SDB)**

Norway provided a presentation on this subject and presented examples of the application of LIDAR and SDB. The UKHO enquired about Norway's experiences in terms of SDB and its application in the armed forces. Mr Slotsvik elaborated that their navy is a customer making use of their products and they also enjoy the support of the armed forces.

France also presented more detail of SHOM's experience on this subject. Indication was provided of how SHOM was able to successfully conduct survey work by applying SDB in practice. The capabilities and limitations of SDB were also highlighted.

Malawi enquired about the application of satellite imagery and costs involved in terms of making use of SDB.

France provided some guidance and suggested that further discussion on this matter will continue out of session. Norway provided more detail in terms of accuracy and costs in the application of SDB.

## **6.1 MARINE / HYDROGRAPHIC SPATIAL DATA INFRASTRUCTURES (SDI)**

UK provided insight into the MSDI governance. Members were invited to understand their role in supporting marine and maritime economic activity. Members were further invited to adopt a data centric approach to operations and improve access to data and data sharing. Details were provided in terms of the availability of information on the website, as well as planned near future work group activities.

## **6.2 TOWARDS DATA CENTRICITY**

Insight was provided by the UK in terms of dealing with, as well as the validation of data.

The President IHB invited members to make use of their national hydrographic committees as a vehicle in order to position themselves as the national maritime geo-data organisation/authority. The chairman invited members to report on their own national Maritime Spatial data infrastructure experiences and also elaborated on South Africa's engagements in this field with the current process of creating South Africa's National Framework on Marine Spatial Planning.

## **7.1 FEEDBACK: IALA**

Mr Manchard expanded on the core functions of IALA. This included its purpose in dealing with Aids to Navigation (AtoN). He further focussed on the IALA master plan in terms of future business and indicated that much emphasis will be placed on AIS systems. Recent and current operations were highlighted. An open invitation was tendered in terms of countries needing assistance from IALA.

The President IHB expressed his gratitude for the collaboration and cooperation with IALA and highlighted the efficient and close relations between the secretariats of IALA and IHO. It was reiterated that members are welcome to invite IALA into their operations.

## **7.2 FEEDBACK: GEBCO**

Mr Kimeli provided feedback on behalf of GEBCO and provided an overview of the history of GEBCO, as well as more current operations. This included a description of the products available via GEBCO. He further expanded on the application of some of these products together with the conditions in terms of GEBCO training.

France further enquired regarding GEBCO training in terms of research organisations. GEBCO indicated that the relevant training is available to all, but could not elaborate regarding training for research organisations.

The President IHB provided more inputs regarding GEBCO's core functions and areas of expertise, as well as future business.

## **8.1 INDUSTRY PRESENTATION: CARIS**

Mr De Jongh briefed the meeting on operations at CARIS and elaborated on its current and future activities, as well as products and services available.

## **8.2 INDUSTRY PRESENTATION: SEVEN Cs**

Mr Roehlich provided details regarding the history of Seven Cs. He further elaborated on the core business focus of the organisation, as well as products and services provided.

## **8.3 INDUSTRY PRESENTATION: JEPPESEN**

Mr Bergmann elaborated on data integration and the speed of innovation. He provided examples of the development of products and data collection over the years, as well as the importance and application of E-navigation.

The President IHB enquired about the position of industry on the development of service delivery mechanisms and if it is their intention to lead the way. Mr Bergmann elaborated on the current operations, as well as the current restrictions in terms of licencing and the effect this has on the integration of data.

## **8.4 INDUSTRY PRESENTATION: C & C TECHNOLOGIES**

Ms Hornby, on behalf of the organising committee of HYDRO 2015, invited delegates and their relevant organisations to consider attending HYDRO 2015 from 23 to 25 November 2015 in Cape Town, South Africa. She highlighted some of the focus areas of C & C Technologies in terms of its core business, products and services.

## **8.5 INDUSTRY PRESENTATION: OCEANWISE**

Mr Pepper provided an overview of the formation, history, as well as the stakeholders of OceanWise. He also elaborated on the core interest and operations of the organisation.

## **9 OTHER BUSINESS: IHO COUNCIL OPERATIONS**

The President IHB provided insight into the operations of the establishment of the IHO Council, as well as the specifications of the Convention. This included the election of members, as well as the relevant restrictions. He suggested, as a way forward, that the chairman and the Commission consider the details over the following year in order to establish

the chosen methodology by the next SAIHC meeting. The President IHB highlighted the functions of the Council.

The chairman proposed that, in preparation to the next SAIHC conference, that some text will be prepared and circulated accordingly.

## **10 ELECTION OF CHAIRMAN AND VICE-CHAIRMAN**

There were no new nominations received and the chairman indicated his availability to stand again for election for another term. The UK proposed that the current chairman remain as chairman. This was seconded by Norway.

The chairman accepted nomination and agreed to continue as chairman of SAIHC for the next term.

In terms of the election of the vice-chairman position, the UK was nominated. The nomination was seconded by Norway and France and UK agreed to serve as Vice Chair for the next term.

## **11 OTHER BUSINESS**

The chairman indicated that an overview of INT Charts was not provided. He mentioned that most of the members present did participate in the ICCWG and that it was not necessary to repeat what was discussed during that meeting. However, the chairman elaborated on the successes of INT Chart production.

The chairman invited all SAIHC members to attend the next ICCWG meeting. France enquired regarding the working of the ICCWG and suggested that it should be noted that new INT Chart producers should provide the SAIHC ICCWG with new INT Charts iaw IRCC7 Decision 3. **Action Item 27**

Norway proposed that for the next SAIHC conference, an invitation will be forwarded to both regional ENC centres ie IC-ENC and Primar. The Chair concurred and indicated that invitations will be made to both to attend the next SAIHC Conference. **Action Item 28**

## **12 DATE AND VENUE FOR THE NEXT SAIHC CONFERENCE**

The chairman proposed that the next SAIHC conference be held in Cape Town, South Africa on 05 September 2016. This conference will be a co-hosting between South Africa and Norway. **Action Item 29**

The chairman thanked all members for their inputs, as well as the efforts of UK in arranging the Conference. He also extended his appreciation to Tanzania as the local host for the SAIHC conference.

The President IHB made closing remarks and highlighted the successes of the Conference and the relevant activities of SAIHC in general. He also extended his appreciation to industry for their participation, as well as to the UK for their generosity and support. Lastly, he expressed his appreciation to Tanzania for hosting the meeting and presented a token of appreciation from the IHB.

The chairman officially closed the meeting.

**12<sup>th</sup> Southern Africa and Islands Hydrographic Commission (SAIHC)**  
Dar-es-Salaam (22- 23 September 2015)

**AGENDA**

- 1. Opening and Administrative Arrangements**  
*Docs: SAIHC12-1A List of Documents*  
*SAIHC12-1B List of Participants*
- 2. Approval of Agenda**  
*Docs: SAIHC12-2A Agenda*
- 3. Matters arising from Minutes of 11<sup>th</sup> SAIHC Conference**  
*Docs: SAIHC12-3A Minutes of SAIHC11*  
*SAIHC12-3B 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: SAIHC12-5.3A National Report: France*  
*SAIHC12-5.3B National Report: South Africa*  
*SAIHC12-5.3C National Report: Portugal*  
*SAIHC12-5.3D National Report: Mauritius*  
*SAIHC12-5.3E National Report: Kenya*  
*SAIHC12-5.3F National Report: Mozambique*  
*SAIHC12-5.3G National Report: Malawi*  
*SAIHC12-5.3H National Report: Norway*  
*SAIHC12-5.3I National Report: Seychelles*  
*SAIHC12-5.3J National Report: Namibia*  
*SAIHC12-5.3K National Report: United Kingdom*  
*SAIHC12-5.3L National Report: Angola*  
*SAIHC12-5.3M National Report: Tanzania*  
*SAIHC12-5.3N National Report: Madagascar*  
*SAIHC12-5.3O National Report: Comoros*
  - 5.4 Hydrographic Survey status (C-55)
  - 5.5 Procedures in response to Marine Disasters
- 6. Marine / Hydrographic Spatial Data Infrastructures (SDI)**  
*SAIHC12-6A Towards Data Centricity (UK)*
- 7. Feedback (IALA & GEBCO)**
- 8. Industry Presentations**
- 9. Statutes of SAIHC**
- 10. Election of chairman and vice-chairman**
- 11. Any other Business**

12. **Date and venue of next Conference**
13. **Meeting Closure**

**ANNEXURE B**

**Southern Africa and Islands Hydrographic Commission (SAIHC)**  
12<sup>th</sup> Meeting – Dar-es-Salaam, 22 to 23 September 2015

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**12<sup>th</sup> SAIHC CONFERENCE ACTION ITEMS**

Serial No	Subject	Action	Remarks
<b>SAIHC CONVERENCE</b>			
1	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).	SAIHC Member States.	
2	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.	SAIHC Member States.	
3	Member States to provide updates to IHO C-55 as appropriate at least once a year.	SAIHC Member States.	
4	Charting Member States requested to provide coastal bathymetric data to the IHO DCDB.	SAIHC Member States.	
5	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.	SAIHC Member States.	
6	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.	Mozambique.	
7	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.	SAIHC Member States.	
8	SAIHC Chair to invite representation from IALA at all SAIHC Conferences.	SAIHC Chair.	
9	SAIHC Chair to invite representation by GEBCO at all SAIHC Conferences.	SAIHC Chair.	
10	Progress approval of States applying for IHO membership and responses on the ratification of the Protocol of Amendments to the IHO Convention.	Mozambique.	
11	Member States who want technical/ capacity building assistance based on findings in their national IMO reports must inform the IHB of their needs.	SAIHC Member States.	

12	Angola to 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.	Angola.	
13	Tanzania to obtain recent survey data from their naval authorities and provide this data to the UK as the INT chart producer for Tanzania.	Tanzania.	
14	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.	SAIHC Member States.	
15	Member States are encouraged to note the information in M-2 and C-17.	SAIHC Member States.	
16	MZ and Angola to liaise with IALA for a technical visit.	Mozambique. Angola.	
17	Mozambique was requested to progress ratification of the Protocol of Amendments to the IHO Convention and report any difficulties being encountered or assistance required.	Mozambique.	
18	Four coastal states have applied to join the IHO and IHO Member States' representatives were requested to expedite wherever possible, the approval process for the applications of The Republic of the Congo, Malta, The Solomon Islands and Vanuatu to join IHO.	SAIHC Member States.	
19	The President requested that SAIHC member states review entries in IHO Publications C-55 and P-5 (Year Book) at least annually.	SAIHC Member States.	
20	Member States are invited to nominate representatives to participate in the CSBWG.	SAIHC Member States.	
21	The members of SAIHC were requested to consider submitting paper for publication in the Review.	SAIHC Member States.	
22	<u>Council</u> seats. SAIHC should take note of this requirement as it can be assumed that the Chair would be the logical representative, although in some cases it may be someone else. Consideration should be given to formalise this process by an inclusion in the SAIHC statutes. All to give this some thought for further discussion at the next SAIHC Conference.	SAIHC Member States.	
23	New information and available survey data should be made available to ensure that coastal states discharge their responsibilities as required by SOLAS.	SAIHC Member States.	
24	Members to report on successes to the chairman to assist with inputs to the IRCC.	SAIHC Member States.	
25	Bathymetric data must be provided to allow for the updating of the charts of Tanzania and in particular those of the main harbours.	Tanzania.	

26	New INT Chart producers should provide the SAIHC ICCWG with new INT Charts iaw IRCC7 Decision 3.	SAIHC Member States.	
27	Norway proposed that for the next SAIHC conference, an invitation will be forwarded to both regional ENC centres ie IC-ENC and Primar. The Chair concurred and indicated that invitations will be made to both to attend the next SAIHC Conference.	SAIHC Chair.	
28	SAIHC 13 Conference to be held in Cape Town, South Africa on 05 September 2016. This conference will be a co-hosting between South Africa and Norway.	South Africa. Norway.	