



**MINUTES OF THE 15TH SOUTHERN AFRICAN AND ISLANDS
HYDROGRAPHIC COMMISSION (SAIHC) CONFERENCE
Eden Island, Seychelles
28-30 August 2018**

1. OFFICIAL OPENING CEREMONY

The formal opening of the 15th Southern African and Islands Hydrographic Commission (SAIHC) Conference took place on Tuesday 28th August 2018. The SAIHC Conference was preceded by a one-day Seminar on Raising Awareness of Hydrography, on Monday 27th August 2018. The report for the Seminar - Report on a SAIHC Seminar on Raising Awareness of Hydrography, is available on the IHO website.

1.1. Opening Remarks by the Chairman

Rear Admiral Tim Lowe, Chair of SAIHC, started proceedings and welcomed the Minister of Tourism, Civil Aviation, Ports and Marine, Director Kampfer, and all SAIHC colleagues to the 15th SAIHC Conference. He thanked SMSA for kindly hosting the 15th SAIHC Conference in such a stunning venue, in the beautiful location of the Seychelles, and remarked how fitting the location was, as Seychelles was one of the newest members of the IHO. He also thanked the UK High Commissioner, Caron Rohsler, for a wonderful reception, the previous evening. He expressed his honour and delight in welcoming Hon. Minister Didier Dogley, Minister of Tourism, Civil Aviation, Ports and Marine, to officially open the 15th SAIHC Conference.

The Chair highlighted the aim of the Commission, to cooperate and further develop the domain of hydrographic surveying, marine cartography, and nautical information, in a very busy maritime region. *'As we sit at the dawn of the UN Decade of Ocean Science for Sustainable Development (2021 - 2030), our understanding and utilization of marine and maritime domains could not be more important.'* He stated that Seychelles as a maritime nation sets the scene for this important meeting, as we strive to work together with other nations to establish and strengthen our hydrographic capability within the region to promote safe navigation, and to support the mariner and all marine users with their maritime and marine data needs.

On behalf of all SAIHC Members and Associate Members, the chair thanked the Minister for agreeing to open the SAIHC Conference, and for allowing the Conference to be held in Seychelles, and handed over to the Minister for his official opening address.

1.2. Official Opening Address by Chief Guest

Hon. Minister Didier Dogley, Minister of Tourism, Civil Aviation, Ports and Marine, welcomed everyone present to the Seychelles, and affirmed what a pleasure and privilege it was for Seychelles to host the Seminar on Raising Awareness of Hydrography and the 15th SAIHC Conference. He stated that the Government of Seychelles deeply appreciates the efforts of the participants in attending the Seminar and Conference.

The Minister reflected that the ocean is an integral part of our livelihood, and highlighted the importance of shipping trade, and hydrography to support this. He explained that Tourism and Fisheries were the two most important pillars of the economy for Seychelles, which are a major contribution to the Seychelles GDP.

With an Exclusive Economic Zone of 1.37million square km and the development of the Seychelles Blue Economy, the Minister highlighted the importance of updated charts and maritime safety. He added that as an island nation they are actively raising awareness of hydrography, as an investment in their economy.

He mentioned that Seychelles first attended an RHC in 1995, and attended the first SAIHC Conference in August 1996. He was proud that at SAIHC14, Seychelles was represented by a female colleague for the first time.

The Minister highlighted that due to their strategic location in the region, Seychelles was associated with a number of Hydrographic Committees, and more importantly their long time partner UKHO.

He acknowledged that Seychelles had joined the IHO in December 2017, and also set up their National Hydrographic Committee in 2017, to look at all hydrographic aspects and setting national charting and surveying priorities. He looked forward to collaborating with IHO, UKHO and other regional committees.

The Minister then wished everyone a successful meeting and declared the SAIHC15 Conference officially open.

1.3. Presentation of memento to Chief Guest

The Chair thanked the Minister for his wise words, presenting a gift of a small framed African print. The chart of Africa published in 1627, was prepared by Petrus Bertius (1565-1629), a Flemish theologian, historian, geographer and cartographer.

The IHO Director warmly welcomed Seychelles as the 88th IHO Member, and presented the Minister with an IHO tie, and thanked Seychelles for hosting the SAIHC15.

The Minister confirmed that it was a pleasure for Seychelles to join SAIHC as a full Member, and the IHO. The Minister presented the Chair with a few small mementos from Seychelles.

2. ADMINISTRATIVE ARRANGEMENTS

The Chair welcomed the Vice-Chair, Captain Theo Stokes, South Africa, via a live video link. A brief introduction from the participants was provided for the benefit of participants not present at the Hydrographic Awareness Seminar.

On behalf of all SAIHC participants, the Chair gave his sincere condolences to SMSA for the sad loss of Captain Grandcourt over the weekend whilst carrying out rescue operation work at sea, and to four men still missing from an island supply vessel in a separate incident. He proposed that a one-minute silence was held as a mark of respect later in the meeting.

The Chair commented on how delighted he was to see so many people at SAIHC15, and acknowledged that the Seychelles location and the Hydrographic Awareness Seminar had successfully increased attendance.

He emphasised that it was not just about the next three days, but about maintaining SAIHC and our Commission goals and those of the IHO, over the next year and beyond.

He gave thanks to the High Commissioner for a fantastic reception, and then thanked AML Oceanographic and Kongsberg Maritime for kindly offering to host the Conference dinner.

The Chair mentioned the forthcoming 2nd IHO Council meeting, and encouraged SAIHC participants to provide their thoughts on any points which needed to be reflected. He highlighted the need for strong communication outside of the meeting, to support the SAIHC region to move forward from a hydrographic perspective.

He recognised that it had been a very busy year for the Commission, with Seychelles joining the IHO in December 2017, and becoming a full Member to SAIHC. The Statutes were also amended to enable nations outside of the region, who contribute to hydrography in the region, to be considered for Associate Membership, the Chair was delighted that India were endorsed as Associate Member at SAIHC14, and able to attend SAIHC15.

The Chair acknowledged the generosity and support of the IHO Capacity Building fund with the Hydrographic Awareness Seminar, which had helped to resolve the issue of low attendance.

He encouraged all to maintain the Marine Disasters database with their contact details.

The Chair highlighted the success with ICCWG in maintaining INT Chart catalogue and working hard to generate a similar scheme with ENC's. He mentioned C-55, which had been actively reviewed, and alongside the SAIHC ENC scheme provides an indicator of surveying and charting capability for prioritisation.

He encouraged all to contribute and actively engage in the Conference, as he believed that everyone had important information and contributions to make, and emphasised the importance of this opportunity for us all.

2.1. Opening remarks by Hosts

On behalf of the Seychelles, Veronique Nibourette, welcomed delegates, saying that it was an honour and pleasure as a new IHO member to host SAIHC15.

2.2. Opening remarks by IHO Director

The IHO Director stated that it was a great honour to represent the IHO at the 15th SAIHC Conference. He confirmed that RHCs are an important element of hydrographic activities which are established for coordination and cooperation in a specific region. He added that the spirit of RHCs are technical, cooperative and collaborative in nature.

The IHO Director added that RHC meetings continue to increase in importance as they play an increasingly active role in the overall planning, execution and assessment of the IHO Work Programme, as it relates to their regions and to the development of the IHO Strategic Plan.

The IHO Director confirmed that the IHO depends on the active participation from all Member States, and requested that all SAIHC participants continue to participate, host and also support the IHO meetings and events as much as possible, in particular SAIHC.

The IHO Director highlighted the following key points:

- IHO Outreach and raising awareness
- Capacity Building
- Increasing IHO membership especially for Significant IMO Flag States.
- MSDI and provision of geo-data

- S-100 implementation and development
- Supporting implementation of e-Navigation
- Crowd-Sourced Bathymetry, data gathering and data maximizing.

The IHO Director highlighted the presence of the Minister at the Official Opening Ceremony, as a clear indication of the commitment of the Government of Seychelles to hydrography. He was delighted to formally announce Seychelles as the 88th IHO Member State.

The IHO Director thanked SMSA for organizing the event, and all those that had been involved in the detailed preparation of this Conference. He wished everyone a very successful meeting.

3. APPROVAL OF AGENDA

Doc: SAIHC15-3

The Chair confirmed that a paper copy of the latest version of the Agenda v4.0 had been provided to all participants.

The UK proposed that a guest speaker from Seychelles, on MSDI Marine Spatial Planning, join the MSDI discussion. The Chair commented that this was a great opportunity to have a practical example of Marine Spatial Planning and the link to MSDI.

The chair then invited any additional comments or suggestions on the Agenda.

The agenda was agreed.

4. APPROVAL OF 14TH SAIHC MINUTES

Doc: SAIHC15-4

The Chair confirmed that the Minutes of the 14th SAIHC meeting had been distributed, and that a number of minor amendments from IHO Director Kampfer had been incorporated. He asked if there were any comments on the draft minutes, and if the contents were a true reflection of the previous meeting. With no comments, the Chair thanked the SAIHC secretariat for a good set of minutes, and confirmed that the Minutes of the 14th SAIHC were approved.

5. REVIEW OF 14TH SAIHC ACTIONS

Doc: SAIHC15-5

The Chair reviewed the Actions from the 14th SAIHC meeting.

New Action items appear in red throughout the relevant Agenda Items, and are consolidated in table form in Annex A - SAIHC Actions and Annex B - ICCWG Actions. Decisions appear in blue throughout the document.

No	Action	Action By	Remarks
SAIHC 14 - 1	Forward Revision 6 to the SAIHC Statutes to IHO Secretariat.	SAIHC Secretariat	Complete

The Chair confirmed that Revision 6 to the SAIHC Statutes had been sent to the IHO Secretariat, along with the SAIHC14 Draft Minutes, on 5th December 2017, and is available on the SAIHC website.

Decision 1: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 2	SAIHC Chair to write a letter to India formally welcoming them as an Associate Member of SAIHC.	SAIHC Chair	Complete

The Chair confirmed that he had sent a letter to India formally welcoming them as an Associate Member on the 11th December 2017, and had received a response from India, accepting Associate Membership on the 9th January 2018.

Decision 2: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 3	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	Ongoing

The Chair confirmed that no bids were received by the SAIHC CB Coordinator, so the activities already recorded in the SAIHC CB Plan for 2018-2020 were submitted. He then encouraged SAIHC Member States to identify their needs and provide them to the CB Coordinator, to develop capacity within the SAIHC region.

Decision 3: Action Ongoing, renumbered to SAIHC15 Action 1 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 4	Charting Member States requested to provide coastal bathymetric data and 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	To be discussed under Agenda Item 15.2

Decision 4: Action Ongoing, renumbered to SAIHC15 Action 2 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 5	Countries with PCA responsibility to offer assistance to nations preparing for the IMO audit process.	PCA	To be discussed under 15.1

Decision 5: Action Ongoing, renumbered to SAIHC15 Action 3 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 6	Invite Members which are preparing for or have undertaken the IMO audit process to consider requesting support to meet items that have been raised within the audit, and also to share best practice.	SAIHC Member States	To be discussed under 15.1

Decision 6: Action Ongoing, renumbered to SAIHC15 Action 4 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 7	CB Coordinator to incorporate the topic of the IMO audit process for Members within the 1-day Hydrographic Awareness Seminar, preceding SAIHC 15.	CB Coordinator	Complete

The Chair confirmed that this action was complete, as the topic of the IMO audit process had been incorporated in the Hydrographic Awareness Seminar, held on the 27th August 2018.

The CB Coordinator thanked Capt. Dallas Laryea, IMO, for leading the discussion on the IMO audit process, which he described as a really useful session, especially learning from Members who had already had the IMO audit.

Decision 7: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 8	<i>SAIHC Chair to contact Angola to see what stage they are at with regard to supporting a technical mission from IALA.</i>	SAIHC Chair	Closed

The Chair confirmed that he had written to Angola on the 9th February 2018, however he had not received a response.

Jacques Manchard, IALA, confirmed that he had received information on an invitation letter from Angola requesting a Technical and High-Level Visit by the IHO for the beginning of October 2018, IALA had also been invited to make proposals; a mission will be organized with the IHO Director for a harmonised visit between IHO and IALA.

Decision 8: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 9	<i>The members of SAIHC were requested to consider submitting papers for publication in the Review.</i>	SAIHC Member States	Standing Item

The Chair highlighted the IH Review as a great opportunity to showcase what we do, both individually and as a Commission.

Decision 9: Action Standing Item, renumbered to SAIHC15 Action 5 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 10	<i>SAIHC Chair to write to IHO Secretariat to commission a review of the relevance and purpose of the IH Review.</i>	SAIHC Chair	Closed

Following a proposal from Norway at SAIHC14, the Chair confirmed that he had written a letter to the Secretary General, Mathias Jonas, to commission a review of the relevance and purpose of the IH Review. The Secretary General responded on the 1st February 2018, to confirm that the subject is already being addressed within internal Secretariat discussions on how IHO outreach could be better adapted to the digital age. The IHO Director confirmed that feedback was in the IHO Secretariat report.

Decision 10: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 11	<i>SAIHC Chair to be the representative on the IHR Editorial Board.</i>	SAIHC Chair and IHO Secretariat	Complete

The Chair confirmed that he had taken on the SAIHC representative role on the IHR Editorial Board; Ian Halls had confirmed the change in February 2017.

Decision 11: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 12	<i>SAIHC Member States to provide new information and available survey data, and report changes that may affect safety of navigation in their national waters in ample time to INT Chart producer nations, to ensure that their responsibilities as required by SOLAS are met.</i>	SAIHC Member States	Standing Item

The Chair confirmed that this was an ongoing item, and commented that PCA and INT Chart producing nations welcomed information from Member States as soon as possible to ensure the data held in various navigational products is as up-to-date and SOLAS compliant.

Decision 12: Action Ongoing, combined with 6th ICCWG Action 9 and renumbered to SAIHC15 Action 6 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 13	<i>Include GEBCO, IALA, and RENCs as Observers to SAIHC in the Statutes.</i>	SAIHC Chair	Complete

Decision 13: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 14	<i>Mauritius is to submit a paper on their progress to the IHO Secretariat for the IHO Review and a shorter review for the Hydro International Conference.</i>	Mauritius India	Complete

Mauritius confirmed that they had submitted an article on the needs for hydrographic services in Mauritius, which will form the basis for a policy paper. The Chair was unsighted on this article and took an action to confirm receipt and the date of publication for the article submitted by Mauritius.

Decision 14: Action Complete.

Action SAIHC 15 - 1, renumbered to Action 9 in Annex A: IH Review Editorial Board to confirm receipt and date of publication for the article submitted on Hydrographic Services in Mauritius. Deadline: October 2018.*

***Post meeting note:** The Chair contacted the IH Review Editorial Board on the 3rd October 2018. The IH Review Editorial Board confirmed receipt of the article on Hydrographic Services in Mauritius, which is due for publication in the November 2018 edition.

No	Action	Action By	Remarks
SAIHC 14 - 15	<i>SAIHC Chair to include the Standing Agenda Item for States that are not yet MS of the IHO to provide an update on intentions to join IHO in their National Report, to include any impediments or issues preventing membership.</i>	SAIHC Chair	Open

The Chair confirmed that this action item had been incorporated into the Agenda, and referred to SAIHC Letter No. 5/2018 - 15th SAIHC Agenda Explanatory Note, he added that this action remained open and would be covered later in the Agenda.

Decision 15: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 16	<i>SAIHC CB Coordinator to identify e-learning topics for SAIHC and report back to IRCC10.</i>	CB Coordinator	Complete

The CB Coordinator confirmed that the French would soon have an English language version of their MSI e-learning course, and this should be provided to SAIHC Members when available.

He also mentioned IMarESTs distance learning package, an Introduction to Hydrographic Governance, and encouraged everyone that needed to, to register with IMarEST.

Decision 16: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 17	SAIHC Chair to write to MS that pulled out of SAIHC 14 at the last minute, to ascertain if there were any common reasons.	SAIHC Chair	Closed

The Chair confirmed that he had written to relevant Member States but no feedback was received. Given the level of attendance this year, he proposed that this action could be closed.

The CB Coordinator confirmed that there was nearly 100% attendance this year, and confirmed that he had put in a bid for a Hydrographic awareness Seminar to precede SAIHC16, and hoped for an equally good attendance next year.

Malawi commented that it was not just financial circumstances which impeded some attendance, and highlighted the issue with VISA/access requirements, which he had experienced when travelling to La Réunion for SAIHC14 last year, and requested a way forward.

The Chair thanked Malawi for his comments, and suggested making the VISA/access requirements available as early as possible with the invitation letters, to enable the process to be covered.

Mauritius commented that Mauritius does not grant waiver or derogation on VISA requirements except for Member States of regional organisations such as COMESA and SADC organizations. Malawi, being a Member State of both COMESA and SADC, does not require a VISA to enter Mauritius.

Decision 17: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 18	PCA nations to encourage Associate Members to attend SAIHC meetings.	PCA	Complete

Decision 18: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 19	NAVAREA VII Coordinator, to draw the attention of Associate Members not present at SAIHC 14 to the MSI Self-Assessment presentation.	NAVAREA VII Coordinator	Open – raise under Agenda Item 14

Captain Theo Stokes confirmed that South Africa had sent a letter regarding the MSI Self-Assessment, unfortunately there had been no acknowledgment of receipt from the Associate Members.

The Chair requested the Associate Members which were not present at SAIHC14 to confirm receipt of the letter and provide an update, and suggested raising under the MSI Agenda Item.

Decision 19: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 20	CB plan, plan how we move Annex A forward, the assessment of capability.	CB Coordinator	Complete

The CB Coordinator confirmed that this action would be covered under the Capacity Building Agenda Item.

Decision 20: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 21	Namibia to consider requesting an IHO high level Technical Visit.	Namibia	Closed

Namibia confirmed that they will follow up on this action following SAIHC15 by looking into the benefits. The Chair recommended IHO M-2 - The Need for National Hydrographic Services, and confirmed that this action was now closed as it had been taken as an action internally.

Decision 21: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 22	IHO Secretariat to consider improving awareness of how to join IHO on the IHO website.	IHO Secretariat	Closed

The Chair commented on the banner displayed on the Home Page of the IHO website on “HOW TO JOIN THE IHO TO BECOME A MEMBER STATE”, and thanked the IHO Director for a very quick turnaround. He highlighted that this improvement was a direct result of SAIHC influence.

Decision 22: Action Closed.

No	Action	Action By	Remarks
SAIHC 14 - 23	SAIHC MS and CB Coordinator to consider how SAIHC could best support new members to IHO and help them build capacity to stand on their own as HOs; to produce a membership pack.	SAIHC Member States and CB Coordinator	Closed

The Chair confirmed that he had received some feedback from IHO Secretariat which was supportive, however advised against a standard pack, and instead recommended that the CB Coordinator proposed an action for each new IHO Member State. The Chair suggested, as a minimum, a Technical Visit to define the national development plan based on IHO M-2, and the CB Strategy for the wider IHO, and if one exists, the CB Strategy for the RHC.

The IHO Secretariat also mentioned the importance of encouraging applications for the higher end Cat A and Cat B courses available to the full Member States, which help build capacity.

The CB Coordinator suggested adding the recommendation from the IHO Secretariat to the CBSC Agenda, and this was agreed.

Decision 23: Action Closed.

Action SAIHC 15 - 2, renumbered to Action 10 in Annex A: IHO Secretariat recommendation on new membership pack to be included on CBSC agenda. Deadline: September 2018.

No	Action	Action By	Remarks
SAIHC 14 - 24	MS and Associate Members unable to attend the SAIHC meeting to render a National Report.	All	Complete

The Chair confirmed that this action would be covered later in the Agenda. He added that due to commitments as Chair of the Arctic Regional Hydrographic Commission, Norway, were unable to

attend SAIHC15, however a National Report had been provided and was available on the IHO website.

Decision 24: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 25	All MS and associated PCA to check relevant C-55 data and update as required. All MS to check relevant P-5 entries, informing IHO Secretariat when either/or are complete.	SAIHC Member States and PCA	Ongoing – Member States to confirm by end of SAIHC15

The Chair asked all Member States to review and update their relevant P-5 entries which were made available during the meeting, and sign them even if changes were not required; for return to the IHO Director before the end of the meeting, for the IHO Secretariat to update P-5.

Decision 25: Action Ongoing, renumbered to SAIHC15 Action 7 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 26	IHO Secretariat to look at process for online updates for C-55 inputs by Members.	IHO Secretariat	Complete – covered in IHO Secretariat Report

Decision 26: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 27	Marine Disaster details, action on MS to review and if necessary update the contact details on the Marine Disaster spreadsheet, and to provide an alternative point of contact (if applicable) informing SAIHC Chair when complete.	SAIHC Member States and SAIHC Chair	Open – covered in Agenda Item 17

Decision 10: Action Ongoing, renumbered to SAIHC15 Action 8 in Annex A.

No	Action	Action By	Remarks
SAIHC 14 - 28	To reflect the requested actions of CL50/2017 (CATZOC) in SAIHC and ICCWG agendas.	SAIHC Chair and ICCWG Chair	Complete - covered in Agenda Item 9

Decision 28: Action Complete.

No	Action	Action By	Remarks
SAIHC 14 - 29	SAIHC Chair to write formally to request Seychelles to host next meeting.	SAIHC Chair	Complete

Decision 29: Action Complete.

6. SAIHC STATUTES

6.1. SAIHC Membership

The Chair confirmed that the SAIHC Statutes had been updated to include the flag for India, and noted the requirement for the Statutes to be signed by India, as the new Associate Member, and Seychelles, as a full Member, which he hoped would be dealt with under the Any Other Business Agenda Item.

He then asked for any proposals for amendments to the SAIHC Statutes to be incorporated for the next meeting. There were no comments.

6.2. IHO Membership and MS Intentions

Unfortunately, Captain Valmont was unavailable to provide a verbal report on Seychelles experience of becoming a Member of the IHO and full Member to SAIHC, due to a number of recent incidents in Seychelles.

The Chair asked the non-IHO Members to state their intent and thoughts on IHO membership, to enable SAIHC to provide the appropriate support, where possible.

Angola are hoping that the high-level visit by IHO and IALA will convince the Angolan Government to join the IHO.

Comoros are still awaiting a response from the higher echelons of the Government.

Kenya has a National Hydrographic Committee and joining the IHO is a standing agenda item. They are working on a national strategy as a result of the recent IMSAS audit. High-level technical visit requested.

Madagascar has a number of Ministries in the maritime space and a 'bottom up' push is underway to persuade one of the Ministries to join the IHO.

Malawi will use the re-commissioning of their survey ship to prove the value of hydrography to their Government. A National Hydrographic Committee is in place (but meets infrequently) and there is a national contribution of US\$90k per annum to hydrography.

Namibia needs to raise awareness to prove the value of hydrography to the higher echelons of the Namibian Government.

Tanzania still has some major challenges but the process is ongoing.

The CB Coordinator showed the composition of IHO membership for the SAIHC region, and the Chair highlighted the benefits of being an IHO Member, with the Cat A and Cat B courses, and the Phase 2 and 3 CB efforts, which were significant and far outweigh the annual membership costs. He stated that attendance on the NIPPON funded CAT B course was around £28K, and therefore one place on this course would cover the membership.

7. IHO MATTERS

7.1. IHO Secretariat Report

The IHO Director presented an overview of the IHO Secretariat Report, which is available on the IHO website - SAIHC15-7.1. The presentation covered the following key topics:

- Revised IHO Convention
- Regional States not yet Members of the IHO
- INT Chart and ENC Production Coordination - Region H
- Maritime Safety Information Services

- IHO Data Centre for Digital Bathymetry (DCDB)
- Seabed 2030
- IHO GIS and Databases
- P-5 Yearbook and C-55
- 2nd Meeting of the IHO Council
- Publicity and Outreach - World Hydrography Day and IH Review
- Actions requested of SAIHC

The IHO Director made a plea to SAIHC Member States to update P-5 and C-55. He confirmed that there would be an investigation into a complete digital revamp for the IH Review; more details would be provided at the Council Meeting.

The Chair reviewed the Actions requested of SAIHC from the IHO Secretariat Report and urged the SAIHC Member States to read the detailed report on the IHO website. There were no comments or questions from the SAIHC participants.

7.2. 1st Council Report

The Chair presented an overview of the following key topics from the 1st Council Report, which is available on the IHO website - SAIHC15-7.2, and in IHO Circular Letter 55/2017.

- Operational control of the two subsidiary bodies, HSSC and IRCC, with regard to their routine approval process. The HSSC and IRCC Chairs were to continue to go directly out to Members with proposals for approval and report back, which gained endorsement at the 1st Council Meeting.
- Amendments to the ToRs for the two subsidiary bodies, HSSC and IRCC, would be prepared for endorsement at the 3rd Council meeting, prior to submission to the 2nd Assembly in 2020.
- Strategic Plan Review Working Group (SPRWG) established with ToRs, and comprises Bruno FRACHON (France) as Chair, Shigeru NAKABAYASHI (Japan) as Vice-Chair and Douglas BRUNT (Canada) as Secretary, and a lot of work has been done in preparation for the 2nd Council Meeting.
- Updating of documents to reflect the revised IHO convention have been endorsed.
- An issue which has been raised a number of times is the amount of Capacity Building support within IHO Secretariat. The Secretary General proposed to look internally to address the issue, and this has been achieved at no extra cost.
- IRCC were tasked by the 1st Council Meeting to consider the scope of CSBWG and Norway was encouraged to provide a proposal on the contribution of sounding data extracted from ENC to the IHO DCDB in support of the Seabed 2030 initiative.
- The key priorities for the 2018 Work Programme were endorsed.

The Chair confirmed that the next Council Meeting was 9th - 11th October 2018.

There were no comments from the SAIHC participants.

7.3. IRCC10 Report

The IHO Director provided a presentation on the outcomes of IRCC10, which is available on the IHO website - SAIHC15.16.

The Chair guided the SAIHC participants to the IRCC10 page of the IHO website for the amended proposals to IHO Resolution 2/1997 and stressed the importance of SAIHC forming a view on the proposed amendments, which outline the responsibilities and relationships between IHO and the RHCs. He confirmed that any thoughts and comments would need to be fed back to IRCC by October 2018.

The Chair commented that the first document on the IRCC10 page of the IHO website was a basic update of IHO Resolution 2/1997 for the revised convention.

The second document contains more substantial changes and is to be reviewed by SAIHC.

7.4. WENDWG Report

UK presented the WENDWG report on behalf of South Africa. This covered the IRCC10 recommendation to RHCs on the “one-year clock” for resolving overlapping ENC and a piece on improving CATZOCs. The presentation is available on the IHO website - SAIHC15-7.4.

The SAIHC Chair requested comments on IHO Resolution 1/2018 - Elimination of Overlapping ENC Data in Areas of Demonstrable Risk to the Safety of Navigation. There were no comments from the SAIHC participants.

7.5. HSSC10 Report

The IHO Director provided a presentation on the HSSC10 Report, which is available on the IHO website - SAIHC15-7.5. The key priorities defined by HSSC were:

- Develop an S-100 Interoperability Specification.
- Develop S-121 Product Specification for Maritime Limits and Boundaries.
- Develop all the components needed to make S-101 a reality.
- Consolidation and clarification of standards in relation to ECDIS/ENC.
- Prepare Edition 6.0.0 of S-44.
- Consider data quality aspects in an appropriate and harmonised way for all S-100 based Product Specifications.
- Develop initial guidance on definition and harmonisation of Maritime Service Portfolios.

The Chair highlighted the importance of developing a reliable XML exchange of NMs and highlighted the workshop which will be held in Genoa, in October 2018.

7.6. IHO Year Book P-5

This topic was discussed under the IHO Secretariat Report.

7.7. Status of Hydrographic Surveying and Nautical Charting Worldwide C-55

This topic was discussed under the IHO Secretariat Report.

7.8. Marine Spatial Data Infrastructure (MSDI)

The Chair introduced the MSDI session, and asked whether SAIHC could utilize the potential of MSDI to enable a technology leap for the SAIHC region, as MSDI can provide a huge amount of information and data for the marine maritime user. Looking to exploit and develop Blue Economies, he suggested that this could be a way to raise awareness of the value of hydrography, and questioned whether under an MSDI construct SAIHC might move forward and deliver more for the region.

The IHO Director then played the 4-minute IHO MSDI Video, produced by KHOA, on YouTube. The Chair thanked the IHO Director for the presentation, adding that it showed a full implementation of MSDI.

The UK provided an MSDI presentation, which is available on the IHO website - SAIHC15-7.8A, developed to enable the SAIHC participants to consider the creation of an MSDI for the SAIHC region. The presentation provided a brief overview of MSDI and the potential benefits.

UK highlighted the stark reality of a phrase recently heard: “No shipping/No shopping”.

UK highlighted The Nature Conservancy (TNC) element of the Seychelles Marine Spatial Plan as a stark example of where MSDI is needed in Seychelles.

Helena Sims, Project Manager at Seychelles Marine Spatial Plan, provided a presentation on Marine Spatial Planning, which is available on the IHO website - SAIHC15-7.8B.

Helena encouraged the SAIHC participants to visit the Seychelles Marine Spatial Planning website: www.seymsp.com.

The Chair thanked Helena, and asked whether the identification of significant data gaps, is allowing prioritisation of data collection effort as a nation to fill those gaps, and whether this was a useful tool. Helena replied that one of the most useful outputs of the MSP which they had not foreseen, was the data repository, and the identification of data gaps. She clarified that agreements were set up as the framework was developed for the initiative, and one agreement was that the MSP would not be responsible for the creation of new bathymetric data, however Helena explained that she sits on the majority of committees and is able to advise on priorities to close the gaps identified.

India asked how the MSP data was prioritized in such a large EEZ. Helena confirmed that modelling software was used initially, the outputs only informed the zoning design, and so the modelling was enhanced to provide 30% by area and species representation from the database, to balance the requirements of biodiversity. The different users were also considered, and sometimes a compatibility matrix would be used to consider the different conflicting activities, currently 45 recorded, to ensure economic and business certainty. She confirmed that this was a bottom up approach.

Mauritius asked about data sharing, Helena confirmed that each NGO had a different data sharing agreement.

Malawi requested more information on how to begin such an initiative. Helena explained that it was vital to define the Governance framework for the Marine Spatial Planning initiative at the beginning of the project, and define the scope, and then work with the Governance framework, and the stakeholder's data sharing agreements. She confirmed that TNC facilitates on behalf of the Seychelles Government; it does not own the data.

The Chair stressed the importance of the Governance, and that the benefits were for the nation, and thanked Helena for making such a useful contribution at short notice.

Tim Lewis, UK, introduced the question ‘What could SAIHC MSDI achieve?’ and identified the following benefits:

1. Improved communication between stakeholders.
2. Greater access to, and visibility of spatial data
3. Brings varied maritime stakeholders together.
4. Improved Management Information, leading to:
 - a. Reduced duplication of effort.
 - b. Increased efficiency.
5. Visual and statistical prioritisation of data collection requirements.
6. Reduced manual processing.

7. Help Member States to deliver on their obligations.
8. Supports and possibly exceeds C-55 expectations.

The chair acknowledged the recommendations for the RHCs from IRCC10 on MSDI, with assigning an MSDI ambassador and taking forward MSDI, and hoped for a fruitful discussion.

France highlighted a further benefit of MSDI as the visibility of the contributing organisations and entities, as a management layer. He commented that a regional initiative could raise the visibility of SAIHC as a Commission.

Kenya suggested another key benefit of MSDI was in mitigating conflict of use in maritime space.

The Chair asked the SAIHC Member States if they were supportive of a regional MSDI.

Mauritius commented that each Member State should have an MSDI before developing a regional MSDI.

The Chair agreed, however he suggested that helping each other to set up a regional MSDI, may help nations to develop their own MSDI process and infrastructure. He recommended following other RHCs by establishing a committee within SAIHC to develop the MSDI concept.

UK was supportive and there were no objections.

The Chair recommended developing a set of MSDI TORs.

France suggested having precise short term goals, such as:

- To have a better understanding of the data nations are willing to share at different levels.
- To investigate standardization of the data.
- A way of changing useful information for SAIHC region, such as MSI information, to provide a mechanism to get information from the users.

The Chair volunteered the UK to provide the lead on producing a basic draft set of ToRs, and recommended a drafting group, and referenced EAHC, NSHC, and BSHC.

Malawi reminded the SAIHC participants of the Regional Centre for Mapping of Resources for Development (RCMRD) in Nairobi, Kenya who perform a similar function, and highlighted that nations in the region should also be involved in the drafting group for an MSDI in the SAIHC region. The Chair fully agreed.

Decision: Set up a small MSDI committee within SAIHC; membership to consist of full SAIHC Members as a minimum and Associate Members are welcome.

Action SAIHC 15 - 3, renumbered to Action 11 in Annex A: UK to develop regional MSDI ToRs, and distribute with Minutes, for endorsement from SAIHC Member States. Membership: All full Members as a minimum and any Associate Members welcome. Deadline: 30 September 2018.

Action SAIHC 15 - 4, renumbered to Action 12 in Annex A: Subject to the ToRs for the newly established MSDI working group, the working group to report progress and recommendations for MSDI activity at SAIHC16. Deadline: SAIHC16.

8. 7TH SAIHC INT CHART COORDINATION WORKING GROUP (ICCWG) MEETING

REPORT FOR 7th SAIHC INT CHART COORDINATION WORKING GROUP MEETING

Eden Island, Seychelles

28th August 2018

Docs: ICCWG7-1 - Agenda

ICCWG7-2 - Minutes of ICCWG6

ICCWG7-3 - Actions of ICCWG6

Membership: France, Mozambique, Mauritius, Norway, Seychelles, South Africa and United Kingdom.

Associate Members: Angola, India, Kenya, Malawi, Madagascar, Tanzania, Portugal, Comoros, Namibia.

1. Introduction

The 7th SAIHC ICCWG meeting was conducted by the chair remotely via a web link. This is first attempt using this method and the meeting was largely presented successfully. Tim Lewis from the UK provided support to the proceedings by managing the feedback to the chair.

2. Actions arising from Minutes of 6th ICCWG Meeting

Serial No	Subject	Action	Remarks
1	Resend S-11 region H table for all MS to update.	ICC-Coordinator	Item closed.
2	MS to update S-11 Region H table	SAIHC Member States	Item closed.
3	Allocate new INT number 77397 to India for IN 2527 (replaces existing INT 7737 (Mauritius))	ICC-Coordinator	Item closed.
4	ICC-WG Coordinator to contact Russia and Australia to resolve ENC overlap	ICC-Coordinator	The ICCWG Coordinator had contacted the countries by formal letter on 12 February 2018 and has had no response to date. Ongoing.
5	Provide link to ENC portal demonstrator to MS	IHO Secretariat	Link provided by IHO Secretariat. Item closed.

6	Define minimum meta data required to support trial ENC scheme	ICC-Coordinator	IHO Secretariat had informed the ICCWG Coordinator that regular inputs and updates were received from MS. The trial ENC Portal has yet to be updated to reflect the information. Ongoing.
7	Define scheme (building on portal demonstrator) from Mozambique to northern limit of SAIHC	ICC-Coordinator	28 Dec 2018
8	Suggested trial teleconference	ICC-Coordinator	There is a trial teleconference planned for 30 November 2018 coordinated by UK and South Africa with MS. The agenda for this teleconference is still to be decided. 30 Nov 2018
9	In the case where another organisation conducts a survey on behalf of the coastal state, it is important to make the survey data available to the Primary Charting Authority in order to update charts for the area. The modalities of data sharing to be resolved bilaterally.	SAIHC Member States	Ongoing.
10	Copies of all new INT products must be made available to the ICCWG.	India	Completed at last ICCWG meeting, UKHO confirmed receiving Mauritius charts from IHO. Item closed.
11	INT 7582 – is to be removed from S11 and the chart is to become INT 7583 (new INT number). A copy of this chart needs to be circulated to the members for comment and will be pending until this is done.	SAIHC Member States	INT 7582 removed from S-11. New chart INT 7583 has been added to S-11 (national number still to be decided) Mozambique and Portugal still in discussions and work

			is progressing. Ongoing.
12	INT 7631 – this is related to Action Items 3 and 6 with ongoing discussions between UK, MZ and PT. New survey data is awaited and this will affect buoyage's and chart limits (which still need to be confirmed). Proposed completion date is end of 2017.	UK Portugal Mozambique	Mozambique reported that survey data should be ready by September 2018. Ongoing.
13	INT 7632 - ongoing discussions between UK, MZ and PT regarding new charting limits.	UK Portugal Mozambique	As above for action 12
14	INT 7645 – the Scheme has been proposed and is in process. As soon as the limits have been established they are to be forwarded to the chairman for inclusion in S11.	PT/MZ South Africa	Portugal reported that data had been exchanged. Ongoing.
15	INT 7671 - The UK request a new chart for the Port of Mtwara, Tanzania- Harbour chart and Approaches Chart. UK is to supply limits to the chair for inclusion in S11.	UK South Africa	UK provided an update. INT limits are in S11 and the chart is planned to be published in October 2018. UK brought a paper copy of chart for members to view. Closed.

3. Actions arising from Minutes of 7th ICCWG Meeting

No.	Agenda Item	Action	Action By	Deadline
1	SAIHC 8 - ICCWG 3.4	Member States to feedback comments on how CATZOC is to be used to DQWG.	Member States	14 Nov 2018
2	SAIHC 8 - ICCWG 7.1	UK, Tanzania, Kenya, and India to meet outside plenary to identify, discuss and resolve ENC requirements to provide the latest data in a carriage compliant product for the Mariner and report back to ICCWG coordinator.	UK, Tanzania, Kenya, India	28 Nov 2018
3	SAIHC 8 - ICCWG 7.2	PCA to discuss with Kenya and Tanzania ENC priorities and create a plan for ENC scheme.	UK, Kenya, Tanzania	28 Dec 2018
4	SAIHC8 – ICCWG 3.2	India to confirm when overlaps with GB ENCs have been removed in Seychelles, Tanzania and Mozambique	India/UK	Ongoing

4. WEND-WG8 Actions discussed at meeting

No.	Action	Remarks
WENDWG8/04	The WENDWG agreed that the one-year “clock” should start once the overlapping issues, starting with potential “highest” risk cases, have been reported to the ENC Producers, the management of these cases to be implemented by the RHCs, keeping the WENDWG informed and report to IRCC, as appropriate.	France commented that discussions regarding the criteria for starting the 1 year clock needed to be discussed and agreed.
WENDWG8/08	RHCs and ICCWG encouraged to make use of the Last Release of the PRIMAR Overlap Checker and to comment back on functionality and available options. WENDWG Chair to include this topic in its report to IRCC-10	WENDWG-9 IRCC-10

The SAIHC Chair stated that these would be covered in more detail during WENDWG agenda item.

5. Elimination of overlapping ENC data

The ICCWG Chair discussed IHO CL 19/2018 to highlight the importance of eliminating ENC overlaps in areas of demonstrable risk to the safety of navigation within the Region.

6. ENC Overlaps within the Region

Emphasis was placed on the importance of removing overlapping data in region. The UK had resolved the existing overlap with South Africa. The overlap between Russia and Australia has yet to be resolved.

The UK confirmed that they had held discussions with India to come to an agreement on removing overlaps within the region. The limits for ENC clipping have been agreed upon and this action is being progressed. India agreed to inform ICCWG Chair when complete.

7. IC-ENC Overlap Report

The ICCWG Chair stated that WENDWG7 action item 4 had reference to the IC-ENC Overlap Report and highlighted that the WENDWG had endorsed the IC-ENC overlapping policy as a first step to identify navigationally significant overlaps.

The SAIHC ICCWG Chair then had a brief discussion on the IC-ENC Overlap Report making use of examples and encouraged MS to make use of the IC-ENC Overlap Report as a mechanism to eliminate overlapping ENC data in areas of demonstrable risk to the safety of navigation.

Chair confirmed that UK had resolved the overlap with South Africa. The overlap between Russia and Australia has yet to be resolved.

8. PRIMAR Overlap Checker

The SAIHC ICCWG Chair then had a brief discussion on the PRIMAR OVERLAP CHECKER using examples and encouraged MS to make use of this as a tool to eliminate Overlapping ENC data in areas of demonstrable risk to the safety of navigation.

A Circular Letter is to be sent out to MS requesting feedback on the benefits of using the IC-ENC Overlap Report and the PRIMAR Overlap Checker, highlighting the positives and negatives.

9. Doc: IHO CL 50/17: Requirement to provide meaningful CATZOC information in ENCs

The SAIHC ICCWG Chair briefly highlighted pertinent points from the document.

UK provided an overview of the CATZOC policy and confirmed that in 2005 started to capture full value CATZOC cells without using category U. In 2010 the UK had a project to update category U values that were outstanding. Following the letter from the IHO the UK has recently conducted another review of category U values and has replaced the last few category U values. UK policy is to not have unassessed values if possible.

10. Editorial Amendments to SAIHC ICCWG ToR

The SAIHC ICCWG Terms of Reference has been updated with input from the IHO Secretariat and uploaded to the IHO website to reflect the new IHO Secretariat construct. References to the former CSPCWG (Chart Standardization and Paper Chart Working Group) have been amended to read NCWG (Nautical Cartography Working Group). Various sections in paragraphs containing information which is no longer relevant, were also removed.

There were no comments received regarding the SAIHC ICCWG ToRs.

11. S-4 Edition 4.8.0 (Draft) and new edition of INT 1

James Timmins from the UK explained that he had recently taken on NCWG secretarial role and provided a short summary of the main changes included in Draft S4 Ed 4.8.0. and also provided a brief update on the changes included in the new edition of INT 1 planned for publication.

12. S11 - Region H Chart Scheme (Status of INT Charting)

James Timmins UK, provided a draft scheme of the ENC coverage for Tanzania and Kenya. This was to support the action on MS to provide input to ICCWG Chair on ENC Scheme (Action ICCWG6-7 refers). A number slides were presented showing the draft ENC scheme.

India highlighted that suggested limits would lead to duplication and wasted effort as India have already made ENCs in some of these areas. They highlighted that they have gathered modern recent data that was better for the mariner. The Chair noted the concerns and agreed action needed for UK, TZ, KE and IN to discuss charting schemes that used the best data for the mariner and met the requirements of port state control carriage requirements.

Chair requested comments from Kenya and Tanzania – Kenya reported that they were aware of Manda Bay proposal but were not aware of the other recommendations so could not comment on priority.

Chair requested action for UK as PCA to hold discussions with Kenya and Tanzania to agree ENC scheme and priorities.

13. INTToGIS ENC Portal

The IHO Director referred to the INTToGIS portal and encouraged members to view it and make use of its functionality to identify coverage gaps. Malawi requested further explanation of INTToGIS as some members were not familiar with it. Chair agreed and requested action for UK to demonstrate INTToGIS during a coffee break.

9. IHO CIRCULAR LETTER 50/2017 - Requirement to provide meaningful CATZOC information in ENCs

This was discussed within the ICCWG meeting.

10. INDUSTRY PRESENTATIONS

10.1. AML Oceanographic

Mr David Wilson, Regional Sales Manager, AML Oceanographic, provided a presentation entitled Importance of SV for Hydrographic Seabed Mapping, which is available on the IHO website - SAIHC15-10.1. The presentation reviewed the various methods of taking sound velocity profiles and offered the AML Oceanographic solution - the MVP or moving vessel profile.

10.2. Kongsberg Maritime

Mr Øystein Aasbø, Area Sales Manager - Subsea, Kongsberg Maritime, provided a presentation, which is available on the IHO website - SAIHC15-10.2. The main focus of the presentation was 'Extra Detections' which gave up to nine additional pings and could identify masts and similar thin structures. Regional news - Angola will shortly take delivery of their state of the art Fishery Research vessel.

11. NATIONAL REPORTS

11.1. Members

A. France

The French Hydrographer, Bruno Frachon provided a presentation, which is available on the IHO website - SAIHC15-11.1.A.

There will be a SHOM hydrographic survey deployment to the Indian Ocean in 2019 which will include surveying in Madagascar, pending diplomatic approvals from Madagascar.

There was also a focus on the SHOM MSDI where much of their data is publicly available for free.

B. Mauritius

Mr Seeboruth provided a presentation, which is available on the IHO website - SAIHC15-11.1.B.

Mauritius offered to host the next SAIHC meeting and the 2019 IHO funded SAIHC MSI training course.

C. Mozambique

The Director General of INAHINA provided a presentation, which is available on the IHO website - SAIHC15-11.1.C.

Another body, INAMAR, is responsible for MSI, MSDI and GMDSS but there is close liaison between them.

Mozambique offered to host the SAIHC17 meeting in 2020.

D. Norway (unable to attend)

The Chair encouraged the SAIHC participants to read the Norway National report, which is available on the IHO website - SAIHC15-11.1.D.

E. Republic of South Africa

Captain Theo Stokes, SANHO Hydrographer highlighted sections of their national report, which is available on the IHO website - SAIHC15-11.1.E, via a live video link.

The Chair asked when SV Protea's replacement will be in service; this was confirmed as 2022.

F. Seychelles

Mr Samuel King of the SCG provided a presentation, which is available on the IHO website - SAIHC15-11.1.F.

Mr King lamented that the size of the SCG Hydrographic Office was very small, 4 in number, but were well trained; for example, Mr King is a CAT A surveyor (trained in Goa).

He also highlighted that the profession of hydrographic surveyor was unheard of on the island.

The Chair directed Mr King to some of the publicity resources available on the IHO website, three videos produced by the Italian HO, which covered this subject matter.

G. United Kingdom

UK provided a presentation, which is available on the IHO website - SAIHC15-11.1.G.

There were no questions or comments.

11.2. Associate Members

H. Angola

Mr Manuel Narciso of the IHSMA highlighted sections of their national report, which is available on the IHO website - SAIHC15-11.2.H.

It was clear that the Angolan Government was taking their provision of hydrographic services very seriously with major financial investment in buoy tenders, survey boats and state of the art kit. Joining the IHO and IALA will be part of this process.

The Chair asked which was the one thing that the SAIHC could do to support IHSMA. Angola confirmed that it was training.

The IHO Director asked whether a national point of contact for MSI had been appointed and if so could this information be relayed to the NAVAREA VII Coordinator. Angola confirmed Angola Telecom, but no name was forthcoming.

I. Comoros

Mr Zouboudou Halifa provided a presentation, which is available on the IHO website - SAIHC15-11.2.I.

The IHO Director requested clarity on whether Comoros were requesting a High level or Technical visit in their national report. The last recorded technical visit in the SAIHC CB Plan was 2011 and on checking this proved to be a very comprehensive assessment, some 32 pages, conducted by a highly qualified SHOM team.

J. India

Captain Mathew of the INHO provided a presentation, which is available on the IHO website - SAIHC15-11.2.J.

The ENC workshops (six weeks) planned for 2019 will focus on Sri Lanka and Myanmar.

Kenya asked whether the survey data collected in their waters by the Indian Navy could be provided to the Government of Kenya. India confirmed yes, and asked that Kenya defined the format required.

K. Kenya

Ms Lucy Mburu of the Survey of Kenya provided a presentation, which is available on the IHO website - SAIHC15-11.2.K.

The Chair questioned how one of their staff got on the NF funded GEBCO course at the UNH when such training is denied to non IHO members. Ms Lucy confirmed that this was a separate bursary opportunity and not through the IHO.

The UK thanked Ms Lucy for inviting UKHO participation on the KenHOC

India trained one Kenyan CAT B surveyor in 2017, and wanted to know if these new skills were being utilised. Ms Lucy confirmed that the officer was from the Kenya Ports Authority who have the requisite equipment, so the answer was affirmative.

L. Madagascar

Mr Narizo Rahaingoalison of the FTM provided a presentation, which is available on the IHO website - SAIHC15-11.2.L.

A long discussion ensued on assisting with Madagascar's request for further capacity building support. IALA offered to assist during their technical mission in November 2018.

M. Malawi

Mr Michael Mzunzu explained that he is representing Malawi on this occasion even though he is now retired. He further explained that his successor had not supplied an up to date National Report even though one had been requested and he has amended and updated last year's report, which had not been delivered at SAIHC14; this is available on the IHO website - SAIHC15-11.2.M.

Mr Mzunzu lamented the lack of cultural time available at the SAIHC meetings nowadays noting that a half day used to be devoted to such activity.

Mr Mzunzu was concerned that with his departure, the recent national progress in the provision of hydrographic services on Lake Malawi might decay. He suggested that hosting the next SAIHC meeting in Lilongwe might provide the ideal platform to raise awareness of hydrography to the wider Malawi Government.

N. Namibia

Mr Mark Eiman of NAMPORT identified some key points from their national report before providing a presentation on national port development, which is available on the IHO website - SAIHC15-11.2.N. (essentially the Port of Walvis Bay, but there are more modest developments at Port Lüderitz)

The Vice Chair, Captain Stokes, thanked Mr Eiman for the regular supply of data for Walvis Bay project, but was not aware of the Port Lüderitz development. Mr Eiman promised to supply the required information on his return home.

O. Portugal

Commander Jose Onofre, Technical Director of IHPT provided a presentation, which is available on the IHO website - SAIHC15-11.2.O.

The Chair complemented IHPT on the work they were undertaking in the East Atlantic region and commented that this would no doubt be presented at the forthcoming EAtHC meeting in Lagos, in October 2018.

P. Tanzania

Mr Charles Mazula Manyasa of the Ministry of Lands, apologised for not submitting a report, and gave a verbal update in advance of supplying a full Tanzania National Report to the IHO Secretariat before the end of October 2018.

Mr Manyasa confirmed that the Tanzania National Hydrographic Committee would meet in September 2018, and highlighted the various members and stakeholders:

- Surveys and Mapping Division (Secretary) - Ministry of Lands
- Ministry of Transport
- Ministry of Defence (Navy)
- Tanzania Ports Authority
- Tanzania Petroleum Development
- University of Dar es Salaam - Institute of Marine Science
- Ardhi University
- Surface and Marine Transport Regulatory Authority (SUMATRA)
- Fisheries Division

Mr Manyasa highlighted the following hydrographic activities:

- Coordination challenge (legal mandate) between Tanzania Navy, India Navy Tanzania Ports Authority, and Surveys and Mapping Divisions.
- Since 2015, hydrographic surveys have been carried out in:
 - Dar es Salaam harbour
 - Zanzibar
 - Pemba
 - Tanga (part)
- International boundary in Lake Tanganyika
The Lake Tanganyika riparian states (Burundi, Democratic Republic of Congo-DRC, Tanzania and Zambia) have already agreed to demarcate and reaffirm the boundary in the lake after a series of meetings under the assistance of GIZ and African Union Border Program (AUBP). The exercise is scheduled to start in October 2018, the median line technique will be applied to determine the boundary.
- Construction of Nyerere bridge near the Dar es Salaam harbour joining Dar es Salaam city and Kigamboni district; local hydrographers were involved.

Mr Manyasa confirmed that efforts to establish the national SDI for Tanzania, are going on with some funding already set aside, the marine SDI would be incorporated, and highlighted the following challenges/problems, which he recognised were the same across the region:

- Capacity Building
- Training both Cat A and B required
- Equipment
- Priority to the Government
- Charting and Updates - Lake Victoria outdated charts
- Digital data and sharing

UK mentioned the establishment of the Tanzania Shipping Agencies Corporation (TASAC) to regulate marine transport, which assumes the rights and responsibilities of SUMATRA, and queried whether this had benefitted the Ministry of Lands in terms of SOLAS communications. This would become more apparent following the transitional phase from SUMATRA to TASAC. Mr Manyasa confirmed that TASAC was a member of the National Hydrographic Committee.

12. SAIHC COMMITTEES AND WORKING GROUPS

12.1. SAIHC ICCWG7 - Confirmation of Actions

UK presented a summary of the ICCWG meeting Actions which are within Annex B.

12.2. SAIHC Capacity Building

The CB Coordinator commenced this session by providing a presentation from SAIHC14 on the UN Sustainable Development Goals (SDG) to show how UN SDGs 9 and 14 fit with hydrography.

Of the 17 UN SDGs, the CB Coordinator focused on SDG9 - Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation, and SDG14 - Conserve and sustainably use the oceans, seas and marine resources for sustainable development; and discussed the key targets. He emphasized that navigational charts are a part of national infrastructure.

He showed how hydrography fits into the two SDGs, with hydrography as the keystone, and then discussed the challenges for incorporating hydrography, emphasizing that the seabed is invisible to the public and therefore not politically attractive; the solution to educate your audience.

The CB Coordinator stressed the importance of hydrography as the pivot that helps find the balance between successful implementation of SDGs 9 and 14.

Mauritius wanted to understand how and why hydrography was so important to SDG9. The CB Coordinator highlighted that navigational charts are part of national infrastructure. The Chair expanded on this by stating that any coastal infrastructure development work such as a new offshore wind farm can only be done with hydrography.

12.2.1. Seminar on Raising Awareness of Hydrography feedback from delegates

Although the Seminar had been a success the participants were reluctant to feedback any comments.*

***Post meeting note:** A questionnaire is to be circulated by the CB Coordinator to all who attended to enable feedback.

12.2.2. Update on Capacity Building activities and submissions since the last meeting

The CB Coordinator provided a presentation, which is available on the IHO website - SAIHC15-12.2.2.

The meeting agreed with the projects suggested for 2019 and beyond.

12.2.3. Report on IHO CB Courses since the last SAIHC

This was covered in the presentation at 12.2.2 above.

12.2.4. Strategy for CB in the SAIHC region

The CB Coordinator provided a presentation, which is available on the IHO website - SAIHC15-12.2.4.

The presentation was based on a short strategy paper which in turn was based on the IHO's four 'A's approach, of Awareness, Assessment, Analysis and Action with future actions focussing on activities within the confines of the IHO's CB, activities involving intergovernmental organisations and finally activities involving other coastal states.

The Chair immediately highlighted that the last activity involving coastal states omitted India and South Africa. France suggested that clarification was needed on the sea riding opportunities, and the CB Coordinator apologized for this oversight.

The meeting was in agreement with the proposed strategy so the Chair put an action on the CB Coordinator to turn the strategy paper into an official plan for the SAIHC region, to be reviewed at SAIHC16.

Action SAIHC 15 - 5, renumbered to Action 13 in Annex A: CB Coordinator to develop the CB Strategy and Plan. Deadline: SAIHC16.

12.2.5. IMarEST presentation

Ms Charlotte Lord and Mr Ben Lynch provided a presentation, which is available on the IHO website - SAIHC15-12.2.5.

There were no comments from the floor. The CB Coordinator encouraged the SAIHC participants to register for the e-learning offered by IMarEST, as this was a great free resource.

13. BLUE ECONOMY

Mr Chrissant Barbe, Principal Policy Analyst, Department of the Blue Economy – Seychelles Vice President's Office, provided a presentation, which is available on the IHO website - SAIHC15-13. The Chair queried why Hydrographic Surveyor was not on the list of job opportunities on the last slide. Mr Barbe's response was this was a regretful omission.

France asked if there has been any analysis of the number of Blue Economy jobs. Mr Barbe admitted this was big task and was currently ongoing but as an example he predicted more than 300 new jobs in the fishing industry.

UK asked whether the Blue Economy Department was important in relationships with adjoining islands. Mr Barbe thought it was an important aspect of international relations generally.

The Chair asked if Mr Barbe had any hints or tips on how the Blue Economy Department took root in the Seychelles. Mr Barbe explained that when first established it was in the Ministry of Foreign Affairs then the Ministry of Finance and finally in the Vice President's office so finding a home was the biggest challenge.

Furthermore, the Chair wondered whether the establishment of the department was a 'top down or a bottom up' initiative. Answer probably a bottom up but with the ultimate backing of the President. Director Kampfer emphasised the importance of the Seychelles National Hydrographic Committee to ensure hydrography was fully embraced.

Mauritius asked about funding and finance. Mr Barbe confirmed that there was a round table discussion planned in October to discuss how to progress the development of the Seychelles Blue

Economy. Private investors are the engine of the Blue Economy investment.

France asked if there was any regional body that looks after the Blue Economy.

UK suggested that the Nairobi Convention might fulfil such a role and mentioned also that there is a Blue Economy summit planned in November in Nairobi.

The Chair identified an Action to invite some of these regional bodies to the next SAIHC meeting.

Action SAIHC 15 - 6, renumbered to Action 14 in Annex A: SAIHC Chair to invite organizations to SAIHC16 to further develop Blue Economy within the SAIHC region for the hydrographic element. Deadline: SAIHC16.

14. MARITIME SAFETY AND THE WORLD WIDE NAVIGATIONAL WARNINGS SERVICE

The live link with South Africa failed, so the CB Coordinator spoke on behalf of the NAVAREA VII Coordinator. The presentation is available on the IHO website - SAIHC15-14.

The following actions were generated from the discussion following the presentation.

Action SAIHC 15 - 7, renumbered to Action 15 in Annex A: Angola to provide an update on MSI structure at next SAIHC, and send MSI information to both Portugal and South Africa. Deadline: December 2018.

Action SAIHC 15 - 8, renumbered to Action 16 in Annex A: Mozambique requested to improve communication with NAVAREA coordinator. Deadline: December 2018.

Action SAIHC 15 - 9, renumbered to Action 17 in Annex A: Madagascar requested to improve communication with NAVAREA coordinator. Deadline: December 2018.

Action SAIHC 15 - 10, renumbered to Action 18 in Annex A: Comoros requested to improve communication with NAVAREA coordinator. Deadline: December 2018.

Action SAIHC 15 - 11, renumbered to Action 19 in Annex A: SAIHC Members and Associate Members to contact their regional warning coordinator to cancel warning messages when they are no longer applicable. Deadline: SAIHC16.

15. RELEVANT INTERNATIONAL ORGANIZATIONS' REPORT

15.1. IMO

This agenda item was cancelled because the IMO representative had to leave the meeting early and the majority of material had been covered during the Seminar.

15.2. GEBCO

Mr Sattiabaruth Seeboruth (Mauritius) provided the GEBCO presentation, which is available on the IHO website - SAIHC15-15.2.

The SAIHC Chair asked how many from the 83 applications (from 38 nations) were from the SAIHC region. Mr Seeboruth responded that ten applicants had been trained, with a high number from Tanzania.

15.3. IALA

Jacques Manchard, IALA, provided a presentation, which is available on the IHO website - SAIHC15-15.3.

IALA made the following recommendations to the SAIHC participants:

- To be compliant with IMO Statutory Instruments
- To implement the action plans taking in account IALA WWA report recommendations
- To send participants to the IALA Technical Committees, to take benefits of the IALA membership, and increase the safety of navigation in their coastal States' waters
- To train AtoN and VTS staff to allow them performing the required tasks

IALA confirmed their support to Coastal States in need (IMO Audit, CB, training).

The SAIHC Chair took an action to note the recommendations in the IALA presentation

Action SAIHC 15 - 12, renumbered to Action 20 in Annex A: SAIHC Members and Associate Members to note the recommendations from the IALA presentation and act on them as applicable. Deadline: SAIHC16.

15.4. SEAIGNEP

UK presented on behalf of the SEAIGNEP Chair, Captain Karl Otto. The SEAIGNEP presentation is available on the IHO website - SAIHC15-14.

The SAIHC Chair recommended that the SAIHC participants took notice of the penultimate slide of the presentation.

Assistance required from SAIHC15 participants.

Please convey the message back home of the importance:

- SEAIGNEP's functions
- To keep SEAIGNEP "alive"
- To find a host for SEAIGNEP7 in 2020
- To participate in SEAIGNEP activities
- To have the support of "high level of government"

Action SAIHC 15 - 13, renumbered to Action 21 in Annex A: All Members and States to note the recommendations from the SEAIGNEP presentation and take appropriate actions. Deadline: May 2019.

RENC Updates IC-ENC and PRIMAR Agenda Item was cancelled, the Chair encouraged SAIHC participants to read the presentations on the IHO website and take the opportunity to ask questions to UK and France during the SAIHC15 Conference.

16. ACTIONS AND RECOMMENDATIONS ARISING FROM IRCC10

(in particular MS and AS views on IHO resolution 2/1997 - Establishment of Regional Hydrographic Commissions (RHCs))

Revision of IHO Resolution 2/1997 *Establishment of RHC*

IRCC10 Action 3 - RHC Chairs to submit draft IHO Resolution 2/1997 as amended to the RHC Members for comments and report back to IRCC (deadline: October 2018).

The Chair provided a presentation to introduce this subject, and referred to the IHO Resolution 2/1997, and the General Regulations Article 8 in addition to the SAIHC Statutes.

The Chair asked the following questions:

- Are we content with 2/1997 as it is currently worded?
- Do we feel there is anything missing? E.g. MSDI, Crowd Sourced Bathymetry etc or is the existing wording suitably generic to avoid having to be so specific?
- What additional items would we like to see included?
- Do we feel that we want more/less direction/control from the IHO?

India made the point that they were happy with the generic explanation and furthermore wanted a direct voice to Assembly.

France admitted that this could be a complex subject. In response to India, France did not think there was a real chain of command. France supported the principle that the RHCs should be semi-autonomous organs of the IHO, but needed more time to fully analyse the revised text.

Mauritius and Mozambique were comfortable with the simple revision as drafted.

The IHO Director supported the idea of semi-autonomous RHCs each with their own Statutes.

Action SAIHC 15 - 14, renumbered to Action 22 in Annex A: SAIHC Chair to write to Members and Associate Members with revised version of IHO Resolution 2/1997, when available, requesting formal comments. Deadline: November 2018.

Action SAIHC 15 - 15, renumbered to Action 23 in Annex A: Amend Article 1b of the SAIHC Statutes, to replace Administrative Resolution T1.3 with IHO Resolution 2/1997. Deadline: October 2018.

Action SAIHC 15 - 16, renumbered to Action 24 in Annex A: All Member States to review revised IHO Resolution 1/2005, and provide comments. Deadline: April 2019.

The Chair talked through the IRCC10 Recommendations to RHCs below, and provided the following comments.

Report by the Chair and the Secretariat

- to encourage Member States to provide material to the IHO Secretariat for the promotion of the centenary of the IHO (deadline: IRCC11).

The Chair referred to the IHO Circular Letter 32/2018 - Activities for Centenary Celebrations of the IHO (IHO-100), and requested that Member States consider providing material in support of the IHO centenary.

WWNWS-SC

- Request National Coordinators review the contents of the relevant Annexes of the GMDSS Master Plan and IHO Publication C-55 – Status of Hydrographic Surveying and Nautical Charting Worldwide – to ensure consistency for their national entries.
- Encourage the use of the Joint Manual on MSI to ensure correct terminology and formats are used in MSI messages.
- Encourage closer engagement of the National MSI Coordinators of Member States with the relevant NAVAREA Coordinator(s).
- Encourage close liaison between regional CB Coordinators and the Chair WWNWS-SC on programming and candidate selection for MSI training.
- Encourage the attendance of Member States and Observers at WWNWS-SC meetings.

The Chair confirmed that he had talked through the WWNWS-SC recommendations before Jeff's briefing.

CBSC

- Encourage Member States to engage with their IMO delegations to provide support to the IMO Member States that are not IHO Members to comply with SOLAS Chapter V.

The Chair encouraged Member States to engage with their IMO delegations to ensure that we were all working with one voice.

- Encourage Member States to provide CATZOC information for C-55, directly or via RENCs as an interim solution introducing CATZOC information.

The Chair confirmed that CATZOC had been discussed during the WENDWG and ICCWG actions, and encouraged Member States to provide CATZOC information for C-55, as an interim solution.

WENDWG

- Reinforce the fact that the one-year "clock" to resolve overlaps should begin once the overlapping issues have been reported to ENC producers (as stated in paragraph 5 of the new adopted IHO Resolution 1/2018 – IHO CL 19/2018 refers).

The Chair confirmed that there had been a long discussion on the one-year "clock".

- Endorse that the management of overlap cases should be implemented by RHCs.

The Chair confirmed that the management of overlap cases would be discussed in the Actions later in the Agenda.

- Note that RHCs should make their own assessment of the level of navigational risk for ENC overlaps using one of the RENCs' Policy on Risk Assessment as a first step where applicable.

The Chair confirmed that this was part of the ICCWG activity.

- Encourage RHCs to provide updated reports on the implementation of ENC Schemes to the WENDWG in advance of the yearly WG meeting.

The Chair mentioned an action outstanding from the proposed scheme put forward by the UK, with regard to Tanzania and Kenya, where there are two producer nations producing products in those areas.

- Note the recommendation that RENCs might consider offering an S-57 license management service to support safety of navigation for all classes of vessels.

The Chair requested that Member States note the recommendation that RENCs might consider offering an S-57 license management service. He added that both IC-ENC and PRIMAR are developing options to deliver this service.

CSBWG

- Encourage IHO Member States to release datasets or subsets into the public domain via the IHO DCDB.

The Chair encouraged IHO Member States to release datasets or subsets into the public domain via the IHO DCDB, he confirmed that the details for the IHO DCDB were available on the IHO website, or from the IHO Director.

- Request IHO Member States to state their policy on data gathering restrictions within their maritime areas of jurisdiction to enable CSB activities to be undertaken.

The Chair requested that IHO Member States state their policy on data gathering restrictions within their maritime areas of jurisdiction, if they are able to, to enable CSB activities to be undertaken.

- Request IHO Member States to support the CSB initiative with positive actions, such as requiring all research vessels collect bathymetric data for late uploading, when on passage or when it does not interfere with other research activities.

The Chair confirmed that CSB will be a key component in developing the GEBCO Seabed 2030 ambition, and encouraged IHO Member States to support the CSB initiative.

- Request the IHO Member States to promote a scaled trial of CSB data collection as a follow on to earlier pilot programs (need better wording anyway).

The Chair encouraged any IHO Member States trialling CSB data collection to make their findings available, to allow others to learn and take forward that initiative.

The IHO Director provided a reminder to follow up on survey data submitted by research vessels, as this data does not always get provided to Hydrographic Offices and is therefore not always included in the national charts. He requested that countries find out the process for data collected in their waters and ensure that this data is included in the national bathymetric database, and assessed for inclusion in national charts or passed on to the PCA to include the information, as required.

GGC

- Continue to encourage Member States to organize contribution of bathymetric data in shallower coastal areas to GEBCO via IHO DCDB in order to support the production of higher resolution gridded data products of GEBCO.

The Chair requested that shallow water area data is made available, subject to national restrictions, and taking into consideration the requirement for a 100m grid, not a navigational grid.

- Invite, and communicate with, GEBCO members to their meetings.

The Chair encouraged engagement with GEBCO.

Inputs from Member States and other bodies affecting IRCC

- Members to share their internal guidelines and Best Practices on the population of CATZOC values through the DQWG.

The Chair encouraged Members to share their internal guidelines and Best Practices on the population of CATZOC values through the DQWG.

- Consider how the IHO might be represented in events in Annex A of doc. *IRCC10-09B*.

The IHO Director confirmed that Annex A of doc. *IRCC10-09B* - Potential Stakeholders' events planned in 2018, a paper which reports on the relations between the IHO and other International Organizations, will not continue from IRCC, as the decision has been taken to use the IHO Calendar to display the events and attendance, which is anticipated to encourage wider participation in the identification of stakeholder events.

- Use the tides, water level and currents training material developed and the training resource offered by the TWCWG in their capacity building work programmes.

The Chair endorsed the use of the tides, water level and currents training material developed and the training resource offered by the TWCWG in their capacity building work programmes.

- Encourage States in the region to contribute to the inventory of tide gauges and current meters.

The Chair encouraged Member States to contribute to the inventory of tide gauges and current meters, to understand where the gaps are.

IRCC Work Programme Management

- Contribute to monitoring and improving the global status of hydrographic surveying.
- Contribute to improving the framework of IHO response to marine disasters.

The Chair confirmed that the IHO response to marine disasters would be discussed under the Any Other Business Agenda Item, due to time restrictions.

- Encourage Member States and representatives of industry and academia to promote and to work together to ensure that the best possible use is made of Satellite Derived Bathymetry.

The Chair highlighted the great example of Member States and Industry representatives working together at SAIHC15, and confirmed that France, India, Portugal and UK are working on Satellite Derived Bathymetry programmes for various areas.

- Consider the participation of stakeholders at the RHC conferences.

The Chair confirmed that we are already actively considering the participation of stakeholders, and will be looking to expand our number of stakeholders at SAIHC16 following on from the Blue Economy presentation. He also acknowledged the SEAGNEP presentation from our regional partner.

- Invite GEBCO Guiding Committee / Bathymetric Regional Project Chairs to attend corresponding RHCs meetings, aiming at strengthening collaboration with a priority on improving high resolution shallow water bathymetry at the regional level.

The Chair confirmed that this had been covered.

- Continue supporting GEBCO regional projects.

The Chair confirmed our continuing support for GEBCO regional projects.

- Invite and encourage Member States to participate in the annual GEBCO GC meetings.

The Chair encouraged Member States to attend the annual GEBCO GC meetings.

- Encourage National Hydrographers to invest in English language training in order to increase the chances of their candidates being selected to Category "A" and Category "B" training courses delivered in English.

The Chair encouraged National Hydrographers to invest in English language training in order to increase the chances of their candidates being selected to Category "A" and Category "B" training courses delivered in English, and noted the importance of this training.

- Work to reduce overlaps by applying the WEND Principles in defining approve ENC schemes.

The Chair confirmed that this was repetition from the WEND Agenda Item.

- Facilitate resolution of important inconsistencies between paper charts and ENCs and between ENCs from different producers as identified by the RENCs or otherwise.

The Chair confirmed that this was part of the ongoing ICCWG activity.

- Encourage Member States in their respective regions to use the Risk Assessment methodology to establish Hydrographic Survey priorities.

The Chair suggested incorporating a session on analyzing and assessing risk in the next Hydrographic Awareness Seminar to enable the survey and charting plans to be further developed. The CB Coordinator asked for this to be a SAIHC15 Action.

Action SAIHC 15 - 17, renumbered to Action 27 in Annex A: CB Coordinator to include risk discussion in next Seminar. Deadline: SAIHC16.

- Raise awareness of the impact of e-navigation on the provision of MSI in the respective regions and to highlight the use of the Joint Manual on MSI to ensure correct terminology and formats are used in MSI messages.

The Chair commented that there had been a long discussion on MSI, and that e-navigation was part of the S-100 developments. He highlighted that we needed to understand the implications of e-navigation for the SAIHC region.

- Encourage closer coordination between NAVAREA and Capacity Building Coordinators in planning and student selection for the CB MSI training courses.

The Chair confirmed that there was a good linkage in the SAIHC region, and hoped that this would continue after the imminent departure of the SAIHC CB Coordinator.

- Invite Member States to provide following information in the National Reports to RHC meetings: the status of MSDI; plans for involvement in MSDI; and challenges facing the HO.

The Chair anticipated that the proposal to form an MSDI Working Group to take MSDI forward for the SAIHC region, subject to endorsement under the Any Other Business Agenda Item, would meet this remit.

- In coordination with Member States, to be attentive to opportunities to raise awareness on the role of hydrography and the importance of improving mankind's knowledge of the seas and oceans in support of the sustainable development goals, disaster risk reduction and the integrity of the oceans.

The Chair encouraged working together to raise awareness of hydrography, and acknowledged the challenges with this, reflecting on the Blue Economy presentation, which was a great presentation but failed to mention hydrography.

The Chair asked if there were any actions missing; no comments were received.

17. ANY OTHER BUSINESS

The IHO Director gave a brief verbal update on dealing with Maritime Disasters focusing on the new proposal from Japan which puts more responsibility onto RHCs than hitherto.

The Chair emphasised the need to keep their emergency contact details up to date.

The IHO Director then gave a short presentation on the IHO's INTOGIS project which is run in conjunction with the Republic of Korea. This project is now a reality and will deliver measurable benefit to the membership.

UK suggested that bringing some of the layers of INTOGIS to inform a risk assessment would be important.

France asked about data resolution and updating frequency.

India required more details of the overlap checker.

Terms of Reference for the SAIHC MSDI Working Group, UK guided the meeting through his draft paper noting that he had received feedback and suggestions from France and the IHO Secretariat.

The Chair then sought the endorsement of the membership to proceed with this project with UK leading and support from the SAIHC Members. Business will be conducted electronically.

The Chair decided not to rush into finalising the TORs and they will be polished and disseminated to the membership in slower time.

18. DATE AND VENUE OF NEXT MEETING

The Chair looked at a date for the next meeting, to deconflict with the IHO Calendar and other events, and proposed the week commencing 2nd September 2019. No objections to this date were raised.

To note: A one-day Hydrographic Awareness Seminar will precede the three-day SAIHC16 meeting.

Decision: The 16th SAIHC Conference will be held on Tuesday 3rd to Thursday 5th September 2019, preceded by a one-day Hydrographic Awareness Seminar on Monday 2nd September 2019.

The Chair confirmed that two Member States, Mauritius and Malawi, had offered to host the 16th SAIHC Conference in 2019, and asked if any other Member States would like to consider hosting next year. Consequently, Kenya offered to host.

With more than one Member State offering to host SAIHC16, the Chair referred to Article 3b. of the Statutes:

b. At the end of each Conference the Members and Associate Members desirous of hosting the following Conference shall put forward their candidatures. Priority shall be given to a country which has not yet hosted a Conference, or to the one which did so the longest time ago. In cases of equal priority, a secret ballot shall be held, the decisions being taken by a simple majority of Members and Associate Members present.

The Chair confirmed that Kenya had never hosted a SAIHC Conference, Mauritius hosted in 2012, and Malawi hosted in 2007. Therefore, in accordance with the Statutes, priority shall be given to Kenya to host next year.

Decision: Kenya to host the 16th SAIHC Conference in Nairobi, week commencing 2nd September 2019, subject to national approval.

Action SAIHC 15 - 18, renumbered to Action 25 in Annex A: SAIHC Secretary to provide organizational details for SAIHC conferences to Kenya. Deadline: 30 September 2018.

Action SAIHC 15 - 19, renumbered to Action 26 in Annex A: Kenya to provide contact details to SAIHC Secretary to enable Kenya to host SAIHC16, subject to national approval. Deadline: October 2018.

The Chair then suggested identifying hosts for 2020 and 2021; with Malawi not present for this Agenda Item, Mauritius were asked if they would consider extending their offer to host to 2020, as they had last hosted in 2012. As Mozambique had most recently hosted in 2014, the Chair asked if they would consider extending their offer to host to 2021. Both Mauritius and Mozambique were happy to host in 2020 and 2021 respectively. The Chair sincerely thanked all Member States for their gracious offers to host.

Decision: Subject to national approval, the following Member States will host the SAIHC Conferences for the next three years:

- 2019 - Nairobi, Kenya
- 2020 - Mauritius
- 2021 – Mozambique

19. SAIHC input to IHO meetings - closed session (opened up to rest of plenary present - AML and Kongsberg)

The Chair decided to hold this closed session Agenda Item in open forum to include the rest of the plenary still present, David Wilson, AML Oceanographic, and Øystein Aasbø, Kongsberg Maritime.

19.1. 2nd IHO Council considerations

The Chair acknowledged this as an opportunity to determine as a Commission which points we would like to raise from a regional perspective for Captain Stokes, as the SAIHC representative, to take forward to the 2nd IHO Council Meeting in October. There were no comments.

The Chair confirmed that if the opportunity arises, any generic issues discussed at Council, which also appear in the SAIHC15 Minutes, can be taken forward by South Africa, and points made as necessary.

19.2. SAIHC Report to IRCC11

The Chair confirmed that he would draft the SAIHC Report to IRCC11, based on the discussions at SAIHC15, he mentioned the following significant highlights:

- IALA, IHO, and IMO – “Delivering as one” achieved at the Hydrographic Awareness Seminar.
- MSDI initiative.
- The good progress being made with the aspirations of nations to attain IHO Membership.
- Technical and High Level Visits

He aimed to provide a draft report to SAIHC Member States for review and comment, prior to submission to IRCC11, which will be held 2 - 5 June 2019, in Genoa, Italy.

UK agreed with all the significant highlights from the Chair, and recommended capturing the value of other organisations providing presentations at SAIHC meetings, in particular Helena Sims, for providing a presentation with links to the Blue Economy.

20. ELECTION OF CHAIR AND VICE-CHAIR

Rear Admiral Tim Lowe confirmed himself as the current SAIHC Chair, and Captain Theo Stokes, as the current Vice-Chair, and asked for any nominations for Chair or Vice-Chair, he added that he would be willing to continue as Chair. Mauritius nominated UK and South Africa to continue as Chair and Vice-Chair respectively, and Malawi seconded this. The Chair thanked Mauritius and Malawi, and pledged to strive to continue moving the Commission forward.

Decision: UK re-elected as Chair and South Africa re-elected as Vice-Chair.

21. APPROVAL OF ACTION LISTS

The Chair presented the Actions carried forward from SAIHC14 and the new Actions from SAIHC15, which were reviewed and amended by consensus, and are included in Annex A.

UK presented the Actions carried forward from the 6th ICCWG meeting and the new Actions from the 7th ICCWG meeting, which were reviewed and amended by consensus, and are included in Annex B.

This was followed by the signing of the SAIHC Statutes, regrettably India were unable to sign the SAIHC Statutes, as Vice Admiral Badhwar was unavailable, so this will be done by correspondence. Captain Valmont signed the SAIHC Statutes on behalf of Seychelles, and the Chair officially welcomed Seychelles as a full Member of SAIHC. A warm round of applause from the SAIHC participants followed.

MEETING CLOSURE

The Chair formally welcomed Seychelles as a full Member of SAIHC, and thanked Seychelles for all the hard work put in to make SAIHC15 such a success, in an excellent venue, and for the hospitality, particularly the Cocktail Reception on the Tuesday evening. He asked that thanks be passed on to Veronique Nibourette, as she was not present. He then gave special thanks to the SAIHC Secretariat for all her hard work, and requested a round of applause as a mark of appreciation, this was followed by a small gift presentation to the SAIHC Secretariat by the IALA representative. The Chair also thanked the IHO Director for his support.

UK confirmed that Captain Theo Stokes, South Africa, apologized for being unable to connect for the final day of the SAIHC Conference, and wished everyone well and thanked the SAIHC participants for their patience over the IT challenges with dialling in to the meeting.

The IHO Director gave warm thanks to the host, Captain Valmont, for his hospitality and excellent venue facilities, and congratulated the SAIHC Secretariat for a great job, and thanked the Chair for an excellent job.

One final thank you from the Chair to the Commission, for all the inputs and contributions, and he looked forward to continuing the dialogue next year in Kenya, and wished everyone a safe journey home.

The Chair then declared the 15th SAIHC Conference closed.

ANNEX A

15th SAIHC CONFERENCE ACTION ITEMS

No.	Agenda Item	Action	Action By	Deadline
1	SAIHC14 - 3.4.1	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	Ongoing
2	SAIHC14 - 3.4.4 and 3.4.5	Charting Member States requested to provide coastal bathymetric data and 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	Ongoing
3	SAIHC14 - 3.4.9	Countries with PCA responsibility to offer assistance to nations preparing for the IMO audit process.	PCA	Ongoing
4	SAIHC14 - 3.4.9	Invite Members which are preparing for or have undertaken the IMO audit process to consider requesting support to meet items that have been raised within the audit, and also to share best practice.	SAIHC Member States	Ongoing
5	SAIHC14 - 3.4.13	The members of SAIHC were requested to consider submitting papers for publication in the Review.	SAIHC Member States	Standing Item
6	SAIHC14 - 3.4.6 and 3.4.14 and ICCWG6 Action 9	SAIHC Member States to provide new information and available survey data, and report changes that may affect safety of navigation in their national waters to INT Chart producer nations, to ensure that their responsibilities as required by SOLAS are met. Where another organisation conducts a survey on behalf of the coastal state, it is important to make the survey data available to the Primary Charting Authority in order to update charts for the area. The modalities of data sharing to be resolved bilaterally.	SAIHC Member States.	Standing Item
7	SAIHC14 - 6.5	All MS and associated PCA to check relevant C-55 data and update as required. All MS to check relevant P-5 entries, informing IHO Secretariat when either/or are complete.	SAIHC Member States and PCA	Ongoing
8	SAIHC14 - 6.6	Marine Disaster details, action on MS to review and if necessary update the contact details on the Marine Disaster spreadsheet, and to provide an alternative point of contact (if applicable) informing SAIHC Chair when complete.	SAIHC Member States and SAIHC Chair	31 October 2018
9	SAIHC15 - 5 - SAIHC14 Action 14	IH Review Editorial Board to confirm receipt and date of publication for the article submitted on Hydrographic Services in Mauritius.	SAIHC Chair	30 September 2018 *Post meeting note: The Chair contacted the IH Review Editorial Board on the 3 rd October 2018. The IH Review Editorial Board confirmed receipt of the article on Hydrographic Services in Mauritius, which is due for

				publication in the November 2018 edition.
10	SAIHC15 - 5 - SAIHC14 Action 23	IHO Secretariat recommendation on new membership pack to be included on CBSC agenda.	CB Coordinator	September 2018
11	SAIHC15 - 7.8	UK to develop regional MSDI ToRs, and distribute with Minutes, for endorsement from SAIHC Member States. Membership: All full Members as a minimum and any Associate Members welcome.	UK, MSDI working group: Members and Associate Members	30 September 2018
12	SAIHC15 - 7.8	Subject to the ToRs for the newly established MSDI working group, the working group to report progress and recommendations for MSDI activity at SAIHC16.	UK/France	SAIHC16
13	SAIHC15 - 12.2.4	CB Coordinator to develop the CB Strategy and Plan.	CB Coordinator	SAIHC16
14	SAIHC15 - 13	SAIHC Chair to invite organisations to SAIHC16 to further develop Blue Economy within the SAIHC region for the hydrographic element.	SAIHC Chair	SAIHC16
15	SAIHC15 - 14	Angola to provide an update on MSI structure at next SAIHC, and send MSI information to both Portugal and South Africa.	Angola	December 2018
16	SAIHC15 - 14	Mozambique requested to improve communication with NAVAREA coordinator.	Mozambique	December 2018
17	SAIHC15 - 14	Madagascar requested to improve communication with NAVAREA coordinator.	Madagascar	December 2018
18	SAIHC15 - 14	Comoros requested to improve communication with NAVAREA coordinator.	Comoros	December 2018
19	SAIHC15 - 14	SAIHC Members and Associate Members to contact their regional warning coordinator to cancel warning messages when they are no longer applicable.	SAIHC Members and Associate Members	SAIHC16
20	SAIHC15 - 15.3	SAIHC Members and Associate Members to note the recommendations from the IALA presentation and act on them as applicable.	SAIHC Members and Associate Members	SAIHC16
21	SAIHC15 - 15.4	All Member States to note the recommendations from the SEAIGNEP presentation and take appropriate actions.	SAIHC Member States	May 2019
22	SAIHC15 - 16	SAIHC Chair to write to Members and Associate Members with revised version of IHO Resolution 2/1997, when available, requesting formal comments.	SAIHC Chair, Members and Associate Members	November 2018
23	SAIHC15 - 16	Amend Article 1b of the SAIHC Statutes, to replace Administrative Resolution T1.3 with IHO Resolution 2/1997.	SAIHC Secretariat	October 2018
24	SAIHC15 - IHO comment	All Member States to review revised IHO Resolution 1/2005, and provide comments.	SAIHC Member States	April 2019
25	SAIHC15 - 18	SAIHC Secretary to provide organisational details for SAIHC conferences to Kenya.	SAIHC Secretary	30 September 2018
26	SAIHC15 - 18	Kenya to provide contact details to SAIHC Secretary to enable Kenya to host SAIHC16, subject to national approval.	Kenya	October 2018
27	SAIHC15 - Seminar	CB Coordinator to include risk discussion in next Seminar.	CB Coordinator	SAIHC16

7th ICCWG ACTION ITEMS

No.	Agenda Item	Action	Action By	Deadline
1	ICCWG6 - Action 4	ICC-WG Coordinator to contact Russia and Australia to resolve ENC overlap	ICC-Coordinator	The ICCWG Coordinator had contacted the countries by formal letter on 12 February 2018 and has had no response to date. Ongoing.
2	ICCWG6 - Action 5	Provide link to ENC portal demonstrator to MS	IHO Secretariat	Link provided by IHO Secretariat. Item closed.
3	ICCWG6 - Action 6	Define minimum meta data required to support trial ENC scheme	ICC-Coordinator	IHO Secretariat had informed the ICCWG Coordinator that regular inputs and updates were received from MS. The trial ENC Portal has yet to be updated to reflect the information. To action by: 31 October 2018.
4	New action based on ICCWG6 - Action 7	To define ENC scheme for SAIHC Region H.	ICC-Coordinator	28 Dec 2018
5	ICCWG6 - Action 8	Suggested trial teleconference	ICC-Coordinator	There is a trial teleconference planned for 30 November 2018 coordinated by UK and South Africa with MS. The agenda for this teleconference is still to be decided. 30 Nov 2018
6	ICCWG6 - Action 10	INT 7582 – is to be removed from S11 and the chart is to become INT 7583 (new INT number). A copy of this chart needs to be circulated to the members for comment and will be pending until this is done.	SAIHC Member States	INT 7582 removed from S-11. New chart INT 7583 has been added to S-11 (national number still to be decided) Mozambique and Portugal still in discussions and work is progressing. Ongoing.
7	ICCWG6 - Action 11	INT 7631 – this is related to Action Items 3 and 6 with ongoing discussions between UK, MZ and PT. New survey data is awaited and this will affect buoyage's and chart limits (which still need to be confirmed). Proposed completion date is end of 2017.	UK Portugal Mozambique	Mozambique reported that survey data should be ready by September 2018. Ongoing.
8	ICCWG6 - Action 12	INT 7632 – ongoing discussions between UK, MZ and PT regarding new charting limits.	UK Portugal Mozambique	As above for action 11.

9	ICCWG6 - Action 13	INT 7645 – the Scheme has been proposed and is in process. As soon as the limits have been established they are to be forwarded to the chairman for inclusion in S11.	PT/MZ South Africa	Portugal reported that data had been exchanged. Ongoing.
10	SAIHC15 - ICCWG 3.4	Member States to feedback comments on how CATZOC is to be used to DQWG.	Member States	Feb 2019
11	SAIHC15 - ICCWG 7.1	UK, Tanzania, Kenya, and India to coordinate ENC requirements to provide the latest data in a carriage compliant product for the Mariner and report back to ICCWG coordinator.	UK, Tanzania, Kenya, India	28 Nov 2018
12	SAIHC15 - ICCWG 7.2	PCA to coordinate with Kenya and Tanzania ENC priorities and create a plan for ENC scheme.	UK, Kenya, Tanzania	28 Nov 2018
13	SAIHC15 - ICCWG 3.2	India and UK to confirm when overlaps with GB ENCs have been removed in Seychelles, Tanzania and Mozambique	India and UK	28 Dec 2018
14	SAIHC15 - 21	To provide a report on the latest state of overlaps in SAIHC region.	ICC-Coordinator	28 Dec 2018

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