

**17th NORTH INDIAN OCEAN HYDROGRAPHIC
COMMISSION CONFERENCE**

**Cairo, Egypt
17 to 20 Jul 2017**

Draft Minutes v4v2 (5 Mar 18)

- Appendices** :-
- A Action List of NIOHC -17
 - B Report of the NICCWG meeting with Action Points

1. Opening.

1.1. The meeting was opened by Vice-Admiral Ahmed Khaled, Commander in Chief of Egyptian Navy, in the presence of Dr Hesham Arafat, Minister of Transportation, and Vice-Admiral Mohab Mamesh, Chairman of the Suez Canal Authority.

1.2. The Chair welcomed all the participants to the meeting and to Egypt in particular. He highlighted the importance of the contacts outside the formal sessions. He noted the short notice for the arrangements, which were due to external factors beyond the control of the Egyptian Navy Hydrographic Office (ENHO).

1.3. All participants introduced themselves; (Bangladesh, Egypt, France, India, Indonesia, Mauritius, Myanmar, Oman, Russian Federation, Saudi Arabia, Sri Lanka, Thailand, UK, USA, International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA), Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden (PERSGA), CARIS, Fugro, IIC Technologies and Kongsberg Maritime).

1.4. **Administrative Arrangements.** The Chair provided administrative arrangements and details of the timings for the meeting. He highlighted the evening activities, which were designed to show some of the best of Egyptian culture. He hoped the meeting would conclude by midday on Thursday.

2. **Approval of the Agenda and 16th NIOHC Report.** The agenda and timetable were approved. IHO noted the correction required to the agenda to amend IHB to read IHO Secretariat. The Chair highlighted the list of documents currently uploaded to the NIOHC17 page. The 16th NIOHC Meeting report was also approved.

3. **16th NIOHC-List of Actions.** The meeting reviewed the List of Actions generated at the NIOHC16 meeting.

3.1. **Membership of IHO and NIOHC.** IHO provided an update on the progress to encourage Jordan, Maldives and Sudan to become Associate members of the NIOHC and full membership of the IHO. IHO noted a high level visit had been conducted to the Seychelles and subsequently recent indications were that she would be completing the application in the near future. It was noted that an increase in membership of the NIOHC would increase the number of

council seats allocated to two. IHO indicated there were no indications that Jordan, Maldives and Sudan were progressing. BGD inquired which countries had been invited to the meeting; the Chair indicated that invitations had been issued without response. IND noted there were political and economic issues which impact on these countries. UK noted that engaging with the countries remains a challenge. The Chair noted that this action remains and should be continued. UK noted Jordan would be attending the MSI course in Cape Town in September and the IHO noted that dialogue had been commenced with NAVAREA IX Coordinator on the provision of MSI. IALA noted their technical visit to Jordan. IND noted that Maldives was aware of the importance of IHO activities and their SOLAS obligations as well as the impacts of climate change; it was important that NIOHC members engage with them and encourage participation in NIOHC and IHO meetings. IHO noted a high level visit had been conducted in 2015; however little impact and progress had been achieved. BGD highlighted the assistance being provided by IND, these countries note the requirement but take minimal action. UK noted that a technical visit had been paid to Seychelles; suggested the approach should be to encourage **IHO membership, and would then be eligible for Associate membership of the NIOHC. ~~Observer membership of the NIOHC and then membership of IHO before moving to full membership of the NIOHC.~~** UK suggested IALA could assist during their Technical Missions to encourage IHO membership and in fact joint Technical visits could be conducted. The Chair moved the current action to NIOHC17 List of Actions.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
1	3.1	Investigate ways to encourage engagement with Jordan, Maldives and Sudan to progress towards their becoming members of NIOHC and IHO	Chair

3.2. **Participation in IHO Meetings.** IHO noted that none of the NIOHC members attended the IRCC, HSSC, WEND-WG and MSDIWG meetings, all were encouraged to engage with these WGs.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
2	3.2	Member States are encouraged to participate in IHO meetings (IRCC, HSSC, WEND-WG & MSDIWG etc.) and Chair to issue letter to MS in this regard.	All members

3.3. It was agreed the majority of outstanding actions were covered in later agenda items. The status of the List of Actions was approved.

4. **Participation/Membership of NIOHC.**

4.1. **Indonesia.** The Chair noted the application of IDN to become an Associate member; he highlighted the terms and requirements of the current statutes. BGD supported the application, whilst IND expressed caution. IHO supported the application as an expression of intent. UK noted the requirement to be within Region J to become a full member. IND noted that IDN should become

an Associate member; BGD supported the application for full membership; IHO indicated IDN could become a member of Region J and then a full member. UK highlighted that it was a requirement to be geographically located within the Region J area and therefore Associate membership was appropriate, which IND agreed to. IDN expressed a wish to become a full member due to their activities within the Indian Ocean. IHO noted that the current statutes were clear on membership qualification, also that the NIOHC could amend the statutes as they considered appropriate. IND considered it not appropriate to amend the statutes, which were issued by the IHO. IND proposed IDN to become an Associate. UK, BGD, EGY, THA, MMR and LKA supported the proposal and IDN was accepted as an Associate member of the NIOHC. IND noted that the only difference was the voting rights and welcomed IDN to the Commission. Information received after subsequent investigation indicated that Indonesia did in fact have territory within INT Chart Region J and therefore could become a full member of the NIOHC. The Chair invited the NIOHC member states to reconsider the issue and it was agreed that IDN should be invited to become a full member.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
3	4.1	Chair to invite IDN to sign the NIOHC statutes and forward to the IHO Secretariat	Chair/IDN
4	4.1	Amend NIOHC page of IHO website to reflect the inclusion of Indonesia as a full member of NIOHC	IHO

4.2. **International Organizations.** It was agreed to add details of recognised Observer international organizations to the NIOHC page of the website, in particular PERSGA and IALA. NIOHC states were requested to consider other international organizations which could be invited to participate as Observers and provide details to the Chair.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
5	4.2	Add international organizations as official Observers (PERSGA, IALA), NIOHC states to consider other organizations and provide details to the Chair	MS and Chair
6	4.2	Consider invites to other Int. Organisations for participation in NIOHC	IHO, MS & Chair

5. **IHO Matters.**

5.1. **IHO Report.** IHO provided a comprehensive brief on IHO Secretariat activities; particularly focusing on the main changes which came into force as a result of the approval of the protocol of amendments to the IHO Convention. It was noted that joining the IHO had been made much simpler and it was hoped there would be applications from the large flag states as well as other coastal states, which would benefit from engagement with the Organization. The outcomes of the various technical visits undertaken were noted. The NIOHC participants were encouraged to engage with the Region J Coordinator to improve the coverage and quality of charting within the region. All were

requested to provide updates to C-55 and P-5 on at least an annual basis. Outreach activities were highlighted including WHD events conducted by NIOHC states, the theme for 2017 was highlighted and the considerations behind it to encourage the availability of more data. Provision of articles covering technical and related activities and events were welcome for submission to the IHR. IHO suggested a change to the current nomination to the editorial board as the present representative had retired from his activities with SAU, IND recommended a formal process. It was agreed the nomination should take place later in the meeting. IND noted a number of articles had been discussed but as yet, had not been submitted. CB activities were highlighted and the quantity of activities taking place in the region and amount of NIOHC states that were benefiting from CB programmes and training courses was noted. It was noted that a new CB plan would be developed later in the meeting. Other activities were highlighted, particularly activities to increase available funds to support additional training and programmes.

5.2. **IHR Representative.** Noting that the current nominated IHR representative had retired from his position at GCS in SAU, IND agreed to investigate a potential volunteer from within the IND Hydrographic Service and report by 27 September.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
7	5.2	Investigate potential volunteer and report to NIOHC	India

5.3. **Report to IRCC9.** Chair noted that the report had been presented to IRCC9 by the UK. He quickly highlighted the main items in the report. IHO highlighted the activities and increased engagement with other international bodies including IMO, WMO, IOC of UNESCO, ISA, IALA and various UN and regional bodies, with a number of which MOUs have been signed. Also highlighted were the increased number of official Observer organizations now participating in IHO programmes and activities.

5.4. **Reports on IRCC8 and IRCC9.**

5.4.1. **IRCC8.** IHO provided a brief summary of the outcomes of the IRCC8 meeting, held in Abu Dhabi in May 2016, highlighting the items relevant to the NIOHC. IHO gave a comprehensive brief on the outcomes of the A-1. IND asked whether the procedure for electing the Chair and Vice-Chair of Council should be left to the RHC representative or a collective decision for the RHC. It was agreed that it was each Council representative to vote as they considered appropriate.

5.4.2. **IRCC9.** IHO then provided a summary of the main outcomes of the IRCC9 held in Paramaribo, Suriname, in June 2017. It was noted that the final report and list of actions would be published soon. Resultant actions from the IRCC9 meeting were covered in detail and relevant items were highlighted to the participants for consideration and action as appropriate.

5.4.2.1. Improvement in MSI flow to NAVAREA Coordinators.

5.4.2.2. Support of CB initiatives and provision of resources for expansion of CB activities were highlighted.

5.4.2.3. All were encouraged to make their ENC's available and distributed through a RENC.

5.4.2.4. NIOHC encouraged nominating a regional RHC MSDI Ambassador to promote the establishment of national MSDI's as part of the national SDI management.

5.4.2.5. RHC member states were encouraged to review national legislation to allow CSB actions to take place within their areas of national jurisdiction and to encourage the gathering of data as well as the release of data currently held in national databases, as a subset if necessary.

5.4.2.6. NIOHC states were encouraged to review the CSB draft guidance document and provide comment and input to prepare the Edition 1.0.0 for approval by all IHO member states.

5.4.2.7. NIOHC states were encouraged to provide shallow water data to GEBCO to improve the bathymetric grids, particularly in the near shore and coastal areas.

5.4.2.8. It was agreed for NIOHC states to investigate volunteers for the role of RHC MSDI Ambassador and discuss at the next meeting.

5.4.2.9. All MS are to note that further details will be available from the IRCC9 page of the IHO website in due course.

No	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
8	5.4.2	Encourage NIOHC states to make ENC's available through a RENC	All
9	5.4.2	Encourage NIOHC states to make currently held data publically available and discoverable	All
10	5.4.2	All NIOHC states to review national legislation to allow CSB activities to be undertaken within their areas of national jurisdiction and to encourage the activity	All
11	5.4.2	Consider provision of shallow water data to the IHO DCDB for use in the GEBCO Grid	All
12	5.4.2	Review draft CSB Guidance Document and provide comment and feedback to Chair of CSBWG	All
13	5.4.2	Support CB activities and the provision of resources for the expansion of activities	All
14	5.4.2	Consider nomination of a RHC MSDI Ambassador to promote the establishment of national MSDI as part of the national SDI management	All

5.4.3. **WEND-WG.** It was noted that of the NIOHC members only UK, FRA and USA attended the recent meeting. Other NIOHC states are encouraged to participate at future meetings. Full details of the meeting and the full report are available from the WEND-WG page from the IHO website.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
15	5.4.3	MS advised to take note of WEND-WG Report.	All
16		Encourage participation in WEND-WG meetings by NIOHC states	All

5.4.4. **HSSC8.** IHO provided a brief report on the HSSC8 meeting. IHO gave an update on the forthcoming HDWG and the proposed new format for the Hydrographic Dictionary; also provided a brief outcome from the recent HSPT and the considerations of the discussions and approaches to be followed.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
17	5.4.4	MS advised to take note of HSSC8 Report.	All

5.5. **C-55 and P-5 Updates.** IHO highlighted the currency of the publications, noting the individual dates when information was last provided by NIOHC states. All were requested to check the information available as published on the IHO website and provide updates as necessary; this should be undertaken at least once per year.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
18	5.5	Review published data and provide updates at least once per year	All

5.6. **MSDIWG.** IHO provided a brief report on the outcomes of the most recent MSDIWG and the OGC Marine Data WG, which took place concurrently. It was noted that dialogue between these two groups would be undertaken to ensure a harmonized approach.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
19	5.6	MS advised to take note of HSSC8 Report.	All

6. **National Reports.** National reports were received from BGD, EGY, MUS, IND, MMR, SAU, SYC, THA, UK, FRA, OMN, USA, LKA and IDN.

7. **NIOHC Committees and Working Group Reports.**

8. **NICCCWG.** IND provided a brief update of discussions at the NICCCWG meeting. A separate report of the meeting with action points is attached at

Appendix B. UK suggested holding the meeting prior to the start of the NIOHC meeting to allow the creation of the report by the Chair of the NICCWG.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
20	8	Create section on IHO website NIOHC page for NICCWG documents	IHO
21	8	Programming of future NICCWG meetings to be at the start of the NIOHC meeting	Chair

9. Capacity Building.

9.1 The Regional CB Coordinator provided an introductory brief on the background to the IHO CB programme and the manner in which the NIOHC has benefitted from courses and activities. The Regional CB Coordinator highlighted some of the changes which have come into force as a result of the revision of the CB Strategy, in particular non-IHO member states will, in the future, only be able to participate in Phase 1 activities; he also noted that being or becoming an IHO member state does not mean that Phase 1 has been achieved.

9.2 The Regional CB Coordinator provided a review of activities over the past year, 2016 and those planned or conducted in 2017.

9.3 The Regional CB Coordinator then highlighted the activities approved and funded for 2018. He then proposed activities for 2019, which could be submitted to the CBSC16 meeting. He requested all NIOHC states consider what activities were required and to advise him so a comprehensive bid can be generated in preparation for CBSC16. The other training opportunities available through international organizations and NIOHC states were highlighted. He noted the new procedures recently agreed, which are designed to help the CBSC to prioritise bids, particularly when there are a large number of applications. FRA explained the creation and development of the MSI e-learning package and the anticipated methodology, it was noted that experienced qualified trainers are still required.

9.4 BGD asked whether courses could be conducted within the region rather than requiring extended travel. IND explained the reasons for coordination through the chairs of the RHCs to ensure best coordination of limited resources (funds and trainers). IHO explained the background to the planning of the MSI training course in South Africa.

9.5 BGD noted a requirement for MBES data processing; the Chair suggested this request to be included in the coordinated NIOHC bid.

9.6 BGD proposed that the hosting of the NIOHC be arranged and confirmed 3 years ahead. BGD suggested appointing a second Vice-Chair so that the succession line would be confirmed and known. IND noted that the Chair or Vice-Chair hosting the meeting was not a requirement and that the automatic succession had recently been agreed and any further change would require amendment of the statutes.

9.7 EGY inquired how their newly recognised S-5 (hydro survey) Cat B programme can be included in the IHO CB plan. The Regional CB Coordinator suggested contacting the IHO Secretariat for the issue of an IHO Circular Letter advertising the course, he noted that funding and student support needed to be confirmed. IHO indicated that details need to be provided about 3 months before the CBSC with long term plans for the availability of the course in the future.

9.8 The Regional CB Coordinator highlighted that CB was not limited to the activities funded by the CBSC, he highlighted the activities undertaken by other states such as IND and UK.

9.9 CB Coordinator to circulate a letter by 27 July requesting bids from NIOHC members and Associate members for CB activities to be submitted to CBSC16.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
22	9	Circulate letter requesting bids for CB activities for submission to CBSC16	CB Coordinator

10. Reports from Relevant Organizations.

10.1 International Aids to Navigation and Association of Lighthouse Authorities. IALA gave a presentation covering its history, current activities and future change of structure to become an IGO.

10.2 PERSGA. Regional Organization for the Conservation of the Environment of the Red Sea and the Gulf of Aden (PERSGA) gave a presentation on its structure and current activities.

10.3 GEBCO. IHO provided a brief on GEBCO activities. NIOHC states were encouraged to make data and shallow water bathymetry available to improve the gridded data and the coverage of the world bathymetry. IHO also highlighted that the position of Seabed 2030 Project Director had recently been advertised through the GEBCO website.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
23	10.3	Encourage provision of ocean and shallow water bathymetry to GEBCO to improve the GEBCO grid	All

10.4 The Chair proposed that IALA and PERSGA should be added to the list of formal Observers to the NIOHC and list of correspondence.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
23	10.4	Encourage provision of ocean and shallow water bathymetry to GEBCO to improve the GEBCO grid	CB Coordinator

11. MSI and NAVAREA Report.

11.1. IND, NAVAREA VIII Coordinator, provided an update brief on activities within the region. The lack of navigational warnings being provided by regional national coordinators is low and a matter of concern

11.2. IND noted that the provision of information as navigational warnings or for inclusion in nautical publications are published for the benefit of mariners. IHO provided additional data from IMO meetings, which included details on the next phase of work after the approval of the Modernization Plan for the GMDSS by the IMO MSC98. This included work on revision of definitions in SOLAS Chapters III and IV and the scope of Chapter IV. Work to develop a preliminary draft work plan for the related and consequential amendments to other existing instruments was generated. The draft work plan included a number of IMO resolutions, the most significant to the IHO were resolution MSC.191(79) – *Performance Standards for the presentation of navigation-related information on shipborne navigational displays*, resolution A.801(19) as amended by MSC.199(80) - *Provision of radio services for the Global Maritime Distress and Safety System (GMDSS)*, Resolution A.707(17) - *Charges for Distress, Urgency and Safety Messages through the Inmarsat System*, Resolution MSC.306(87) - *Revised performance standards for Enhanced Group Call (EGC) equipment*, and Resolution MSC.68(68), Annex 3 - *Performance Standards for MF/HF Radio Installations Capable of Voice Communication, Narrow Band Direct Printing and Digital Selective Calling* – all of which impact on the work of a number of IHO committees, sub-committees and working groups. It is intended that the first draft revisions will be submitted to NCSR5 for further consideration.

11.3. IHO Member States are encouraged to engage with the future work of the Expert Group and the Correspondence Group.

11.4. The revision and review of the C-55 has highlighted a number of discrepancies between the MSI details provided for inclusion in C-55 and the updates provided to the IMO for inclusion in the GMDSS Master Plan Annex 7 and 8. It is likely that this has been caused by different national authorities providing the data in answer to the same questions to the two organizations. Normally the HO provides the C-55 data and the Maritime Authority submits updates to the IMO for the GMDSS Master Plan, it is vital that there is coordination and harmonization for this data between national organizations, therefore, NIOHC states are requested to review their C-55 and GMDSS Master Plan Annex 7 and 8 entries and harmonize the information if necessary.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
24	11.4	Improve provision of navigational warning information from national coordinators to NAVAREA VIII and NAVAREA IX Coordinators	All
25	11.4	Engage with future work of the IMO-ITU EG and GMDSS CG	All
26	11.4	Cross check C-55 and GMDSS Master Plan Annex 7 and 8 entries to ensure harmonization of information	All

12. **Towards Data Centricity/e-Navigation.** UK provided a presentation focused on e-Navigation focusing on its importance to the mariner and future hydrographic products. IHO highlighted the activation of the IMO-IHO HGDM (Harmonization Group on Data Modelling) and its first meeting in 16-20 October at IMO in London; UK asked whether an IHO Circular letter would be issued with details and information on who should be participating, it was noted that IHO CL 43/2017 provided some details. The Chair encouraged all NIOHC states to consider participating in the meeting.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
27	12	All encouraged to participate in the IMO-IHO HGDM1 meeting at IMO in 16-20 October	All

13. **Dealing with Maritime Disasters.** IHO provided an update on actions and related preparations undertaken by IHO Member States and in particular the NIOHC states in accordance with IHO resolution 1/2005. Examples of actions and support taken by RHCs in response to recent natural disasters were highlighted. FRA provided details of an incident in the south west Pacific where MV *Kea Trader* grounded SSW of Maré (îles Loyauté) and required various actions in the salvage/recovery period, which included a bathymetric survey of the reef area to allow access.

14. **Crowd Sourced Bathymetry (CSB).** IHO provided an update on the activities of the CSBWG and the development of the Guidance Document. NIOHC states were requested to review their national legislation to see whether the collection and publication into the public domain of CSB was acceptable. NIOHC states were encouraged to provide comment and feedback on the draft Guidance Document, once circulated by IRCC.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
28	14	Review national legislation to investigate whether CSB data can be made publically available	All
29	14	Provide comment and feedback on the draft CSG Guidance Document	All

15. **Satellite Derived Bathymetry (SDB).** UK provided a presentation on SDB, giving background details on the technology and examples of results achieved. In addition, potential cartographic representations were provided along with examples of BA charts published using SDB. This generated much discussion and numerous questions. It was noted that standards applicable to SDB data were one of the considerations being addressed by the HSSC HSPT (IHO Project Team on Standards for Hydrographic Surveys) as they undertake the review of IHO publication S-44 – *IHO Standards for Hydrographic Surveys*.

16. **Industry Presentations.** Presentations were provided by IIC Technologies, CARIS, Sonardyne and Fugro; these generated numerous questions and comments.

17. **Any Other Business.**

17.1. IHO highlighted the 'Inventory of National Tide Gauges and Current Meters' and the 'Actual Tides and Currents On-line Links', which can be found on the TWCWG page of the IHO website. All NIOHC states were encouraged to provide details of their tide gauges and currents and links to their real-time online tides and currents websites for inclusion in the lists.

17.2. **Report to IRCC10.** The Chair noted he would be generating the NIOHC report to IRCC10, which will be held in Goa, India, 4-6 June 2018. The Chair asked if there were any particular issues and topics which NIOHC states wished to have included in the Chair report, input should be received by the Chair before 30 March 2018.

17.3. IND encouraged all NIOHC states to consider hosting IRCC subordinate body meetings as well as attending.

17.4. IHO highlighted that CBSC16 will take place in Goa, India, 30 May to 1 June 2018.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
30	17.4	Provide details of tide gauges and currents meters for inclusion in the Inventory of National Tide Gauges and Current Meters on the TWCWG page of the IHO website	All
31	17.4	Provide URLs to real-time online tides and currents websites for inclusion in the Actual Tides and Currents On-line Links on the TWCWG page of the IHO website	All
32	17.4	Provide input to the Chair for NIOHC report to IRCC10	All
33	17.4	Draft report for review and amendment by Vice-Chair	Chair
34	17.4	Comments back to Chair for submission of final version to IRCC	Chair/ Vice Chair
35	17.4	Consider hosting IRCC or subordinate body meetings	All

18. **Date and Venue of Next Meeting.** IND proposed Goa, India from 9-12 April 2018 as the venue of the next meeting, NIOHC18.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
36	18	Circulate an initial letter of invitation	Chair

19. **Election of Vice-Chair.** IND confirmed their intention to take up the role of Chair in succession to EGY. After a vote, UK was elected by a majority to take up the role of Vice-Chair.

20. **Approval of Action List.** A draft list of Action Items from the meeting were reviewed and agreed. All Action Items are marked in this report and are collected together at **Appendix A**. An updated list of the Action Items will be maintained on the NIOHC web page and all those who have actions to complete should keep the Chair informed of any progress.

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
37	20	Keep Chair informed of progress with allocated actions	All

21. **Closing Remarks.** The Chair thanked everyone for coming to the meeting and for the effort and enthusiasm towards the task; he highlighted some of the important and key topics discussed and the valuable input and presentation by the industry participants. He noted a number of participants had travelled considerable distance to attend, for which he was most grateful. He thanked the sponsors for their support and the assistance in organizing the meeting, he also thanked all those who had been part of the organizing committee and the hard work to ensure the success of the event. He wished all a safe journey home. The IHO highlighted the success of the meeting, which was in no small part down to the preparations and efforts of the Chair and all those who supported him at the Egyptian Hydrographic Service. The NIOHC flag was passed to the next Chair.

LIST OF ACTIONS NIOHC 17 (05 Mar 18)

<u>No</u>	<u>Agenda Item</u>	<u>Description</u>	<u>Action</u>
1	3.1	Investigate ways to encourage engagement with Jordan, Maldives and Sudan to progress towards their becoming members of NIOHC and IHO	Chair
2	3.2	Member States are encouraged to participate in IHO meetings (IRCC, HSSC, WEND-WG & MSDIWG etc.) and Chair to issue letter to MS in this regard.	All members
3	4.1	Chair to invite IDN to sign the NIOHC statutes and forward to the IHO Secretariat	Chair /IDN
4	4.1	Amend NIOHC page of IHO website to reflect the inclusion of Indonesia as a full member of NIOHC	IHO
5	4.2	Add international organizations as official Observers (PERSSGA, IALA), NIOHC states to consider other organizations and provide details to the Chair	MS and Chair
6	4.2	Consider invites to other Int. Organisations for participation in NIOHC	IHO, MS & Chair
7	5.2	Investigate potential volunteer and report to NIOHC	India
8	5.4.2	Encourage NIOHC states to make ENCs available through a RENC	ALL
9	5.4.2	Encourage NIOHC states to make currently held data publically available and discoverable	ALL

10	5.4.2	All NIOHC states to review national legislation to allow CSB activities to be undertaken within their areas of national jurisdiction and to encourage the activity	ALL
11	5.4.2	Consider provision of shallow water data to the IHO DCDB for use in the GEBCO Grid	ALL
12	5.4.2	Review draft CSB Guidance Document and provide comment and feedback to Chair of CSBWG	ALL
13	5.4.2	Support CB activities and the provision of resources for the expansion of activities	ALL
14	5.4.2.8	Consider nomination of a RHC MSDI Ambassador to promote the establishment of national MSDI as part of the national SDI management	ALL
15	5.4.3	MS advised to take note of WEND-WG Report.	ALL
16	5.4.3	Encourage participation in WEND-WG meetings by NIOHC states	ALL
17	5.4.4	MS advised to take note of HSSC8 Report.	ALL
18	5.5	Review published data and provide updates at least once per year	ALL
19	5.6	MS advised to take note of HSSC8 Report.	ALL
20	8	Create section on IHO website NIOHC page for NICCWG documents	IHO
21	8	Programming of future NICCWG meetings to be at the start of the NIOHC meeting	Chair
22	9	Circulate letter requesting bids for CB activities for submission to CBSC16	CB Coordinator
23	40.4 10.3	Encourage provision of ocean and shallow water bathymetry to GEBCO to improve the GEBCO grid	CB-Coordinator All

24	11.5	Improve provision of navigational warning information from national coordinators to NAVAREA VIII and NAVAREA IX Coordinators	ALL
25	11.5	Engage with future work of the IMO-ITU EG and GMDSS CG	ALL
26	11.5	Cross check C-55 and GMDSS Master Plan Annex 7 and 8 entries to ensure harmonization of information	ALL
27	12	All encouraged to participate in the IMO-IHO HGDM1 meeting at IMO in 16-20 October	ALL
28	14	Review national legislation to investigate whether CSB data can be made publically available	ALL
29	14	Provide comment and feedback on the draft CSG Guidance Document	ALL
30	17.4	Provide details of tide gauges and currents meters for inclusion in the Inventory of National Tide Gauges and Current Meters on the TWCWG page of the IHO website	ALL
31	17.4	Provide URLs to real-time online tides and currents websites for inclusion in the Actual Tides and Currents On-line Links on the TWCWG page of the IHO website	ALL
32	17.4	Provide input to the Chair for NIOHC report to IRCC10	ALL
33	17.4	Draft report for review and amendment by Vice-Chair	Chair
34	17.4	Comments back to Chair for submission of final version to IRCC	Chair/ Vice Chair
35	17.4	Consider hosting IRCC or subordinate body meetings	ALL
36	18	Circulate an initial letter of invitation	Chair
37	20	Keep Chair informed of progress with allocated actions	ALL

