

**18<sup>th</sup> NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION CONFERENCE**  
**Goa, India**  
**09 to 12 April 2018**  
**Draft Minutes Ver 1 (11 Jun18)**

- Appendices** :- A - List of Participants  
B- Action List of NIOHC- 18  
C - Report of the NICCWG meeting

**1. Opening.**

1.1 The 18<sup>th</sup> NIOHC meeting was inaugurated by VAdm Girish Luthra, PVSM, AVSM, VSM, ADC Flag Officer, Commanding in-Chief, Western Naval Command. VAdm Vinay Badhwar, Chief Hydrographer, Chairman NIOHC in his opening address welcomed the chief guest and all the participants attending the 18<sup>th</sup> NIOHC meeting and highlighted the importance of Hydrography in the economic and infrastructural development of the region. India Thereafter, VAdm Girish Luthra, PVSM, AVSM, VSM, ADC Flag Officer, Commanding in-Chief, Western Naval Command delivered the Key note address and wished the participants fruitful deliberation and a comfortable stay in Goa.

1.2 The list of Participants who attended the 18<sup>th</sup> NIOHC meeting is placed at **Appendix A**.

1.3 The Chair of NIOHC-18, VAdm Vinay Badhwar informed the participants about the contribution of Indian National Hydrographic Office through its hydrographic services and training in ENC production in the North Indian Ocean Region. The Director IHO, RAdm Mustafa Iptes (Retd) greeted all the participants and appraised the gathering about IHO activities in the Region.

1.4 **Administrative Arrangements.** The participants were briefed in detail about the administrative arrangements and the social calendar for the meeting.

2. **Approval of the Agenda and 17<sup>th</sup> NIOHC Report.** The Chairman approved the agenda, time table and the 17<sup>th</sup> NIOHC report.

3. **17<sup>th</sup> NIOHC- List of Actions.** The meeting reviewed the action list of the 17<sup>th</sup> NIOHC meeting held in Egypt.

3.1 **Membership of IHO and NIOHC.** IHO provided an update on initiatives taken to encourage Jordan, Maldives and Sudan to become Associate Members of the NIOHC and full membership of IHO. A high level visit to these countries was recently concluded by IHO. This point was considered to be ongoing and the committee decided to retain this item in the NIOHC 18 action list.

3.2 **Participation in IHO Meetings.** RAdm Mustafa Iptes (Retd) expressed IHO's concern on the low participation in IRCC, HSSC and related IHO working groups. He urged MS to actively participate and contribute.

4. **Participation and Membership of NIOHC.** The Chairman welcomed Indonesia as a member of NIOHC. He further requested Indonesia to sign the NIOHC statutes and forward it to IHO Secretariat by end May 2018. He also recommended inclusion of this point as item No. 3, Agenda 4.1 in the Action list of NIOHC18.

No.	Agenda	Description	Action
1	3.1	Investigate ways to encourage engagement with Jordan, Maldives and Sudan to progress towards their becoming members of NIOHC and IHO	Chair Ongoing

2	3.2	Member States are encouraged to participate in IHO meetings (IRCC, HSSC, WEND-WG & MSDIWG etc).	All
3	4.1	Chair to invite Indonesia to sign the NIOHC statutes and forward to the IHO Secretariat.	Indonesia to forward the signed statutes to IHO keeping NIOHC informed by end May 2018

5. **International Organizations:** The Chair requested the participants to invite International Organizations to participate in the NIOHC meetings as observers. The Chair conveyed that the point be included in the Action list of NIOHC18 and requested participants to forward names of regional or local organization by Nov 2018.

No.	Agenda	Description	Action
4	4.2	Add international organizations as official Observers for e.g (PERSGA, IALA), NIOHC states to consider other relevant regional organizations and provide details to the Chair.	Chair to invite International and regional bodies.  MS to recommend regional and local organisations by Nov 2018

## 6. IHO Matters.

6.1. IHO Report: IHO presented a report on activities of IHO Secretariat. The presentation by the Director, IHO RAdm Mustafa Iptes (Retd) covered the following topics:-

- (a) IHO Work Programme 2019-2021
- (b) Crowd Source Bathymetry
- (c) GEBCO – Project Seabed 2030
- (d) Contribution of Technical papers to the IHO Journal International Hydrographic Review (IHR)
- (e) Outcome of First IHO Council meeting held from 17-19 Oct 2017 in Monaco. Invitation for the second Council Meeting which is scheduled from 09-11 Oct 2018 in London.
- (f) Outcome of HSSC9

6.2. IHR Representative. With reference to Action list of NIOHC17, a potential volunteer was required to be nominated from NIOHC region by India. The Chairman nominated Capt Peush Pawsey from India as a NIOHC representative for the IHR editorial board.

No.	Agenda	Description	Action
5	5.2	Capt P Pawsey, IN nominated as NIOHC rep to IHR editorial board	Action Completed

6.3. Report to IRCC10. The Chairman conveyed that India will forward the NIOHC report to IRCC10 by 10 May 2018. The IRCC 10 is being hosted by India, from 04-06 Jun 2018 at Goa, India.

No.	Agenda	Description	Action
13	5.4.4	Forward NIOHC report to IRCC10	Chair by 10 May 2018

6.4. **Reports on IRCC9 and HSSC8.** The representative of the IHO secretariat Mr David Wyatt presented a report on relevant issues pertaining to reports on IRCC9 and HSSC8, The following points were deliberated and included as the NIOHC18 action list.

No.	Agenda	Description	Action
6	5.4.2	Encourage NIOHC states to make ENCs available through RENC	Ongoing
7	5.4.2	Encourage NIOHC member states to make currently held data publically available and discoverable.	Ongoing
8	5.4.2	MS to forward comments views on CSB to Chair. Chair to forward comments to IRCC	All Member States by 01 May 2018 15 May 2018
14	5.5	Review published data and provide updates to C55 and P5 at least once per year	All Members by 31 Dec every year
15	9	Circulate letter requesting bids for CB activities for submission to CBSC17	CB Coordinator UK is Coordinator. Report submission to

			CBSC 17 Member states to submit bids by 31 Dec 2018.
17	11.5	Engage with future work of the IMO-ITU EG and GMDSS CG	Member States
18	11.5	Cross check C-55 and GMDSS Master Plan Annex 7 and 8 entries to ensure harmonization of information	Ongoing
20	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	Ongoing by all Member States
21	17.4	Chair to report back IHO- EU Network WG activity from IRCC to NIOHC MS.	NIOHC 19

6.4.1. **WEND-WG.** The 8<sup>th</sup> meeting of WEND Working Group and the Joint RENC meeting was held from 20-22 March 2018 in Argentina. It was decided to forward the NIOHC report to WENDWG by the Chair, NICCWG by end of the April 2018.

No.	Agenda	Description	Action
12	5.4.3	Forward NIOHC report to WEND WG	Chairman NICCWG by end April 2018

6.4.2. **HSSC 9 Report.** A report on HSSC9 was presented by Rear Admiral Adhir Arora, Joint Chief Hydrographer, India.

6.4.3. **C-55 and P-5 Updates.** IHO requested the MS to provide the information to update the IHO year book P-5 at least once a year in the IHO website.

No.	Agenda	Description	Action
14	5.5	Review published data and provide updates to C55 and P5 at least once per year	All Members by 31 Dec every year

7. **National Reports.** The National Reports were presented by Bangladesh, Egypt, India, Indonesia, Myanmar, Pakistan, Saudi Arabia, Sri Lanka, Thailand, United Kingdom, France, Oman, Mauritius and USA.

8. **NIOHC Committees and Working Group reports.**

8.1 **NICCCWG.** India provided an update on the out come of the NICCCWG meeting held on 09 Apr 18. A report of the NICCCWG meeting with action points is attached at **Appendix C.**

9. **Capacity Building.**

9.1 The regional CB Coordinator, UK provided a brief on the activities undertaken in the region during 2017-2018 and proposals for 2018-2019. The CB Coordinator also highlighted the initiatives from India and UK towards conducting programmes other than those funded under the CB programme. The 16<sup>th</sup> meeting of Capacity Building Sub Committee (CBSC) is scheduled from 30 May to 01 June 2018 in Goa, India. India has agreed to conduct a workshop on MSIS in 2019 under CB programme.

10. **MSI and NAVAREA Report.** India presented the NAVAREA VIII report being the coordinator. The MSI broadcasting system was highlighted and the country-wise status of MSI request received in the

region was shared. The issue of late receipt of MSI for promulgation was emphasized and the MS were urged to provide the MSI information promptly for timely promulgation. The MS were requested to forward information directly to India at [msis-inho@navy.gov.in](mailto:msis-inho@navy.gov.in) and [navarea8@gmail.com](mailto:navarea8@gmail.com) for early dissemination.

No.	Agenda	Description	Action
16	11.5	Improve provision of navigational warning information from national coordinators to NAVAREA VIII and NAVAREA IX Coordinators	Ongoing. Area 'J' countries are to share information with appropriate NAVAREA Coordinators.

11. **Crowd Source Bathymetry**. IHO provided an update on CSBWG activities including development of Guidance Document on Crowd Sourced Bathymetry. The purpose of this document is to provide guidance to mariners to help them collect and contribute crowd sourced bathymetric data in a format that is useful to the broadest possible audience.

12. **Satellite Derived Bathymetry (SDB)**. India presented a case study on "Bathymetry Data Extraction using multispectral data processing technique". This technique can be used as a reconnaissance tool for hydrographic surveying and charting. UK also shared their experience on satellite derived bathymetry.

13. **Industry Presentations**. The presentations from the industry and other organization is as follows:-

<u>SI</u>	<u>Industry Name</u>	<u>Topic</u>
(a)	Oceanographic Commission of UNESCO, USA	Indian Ocean Tsunami Warning and Mitigation System (IOTWMS)
(b)	M/s Teledyne Caris, Canada	Solutions for Hydrography-Software perspective
(c)	M/s Sonardyne Asia Pvt Ltd,	Technical Advances in underwater applications
(d)	M/s PRIMAR, Norway	PRIMAR-Profile and Services
(e)	M/s Edgetech, USA	From lead lines to E-boss "A peek at the Direction of Sonar Evolution"
(f)	M/s Teledyne Marine, Denmark	Solutions for Hydrography-Hardware perspective
(g)	M/s AML Oceanography	Relative Underway Profiling System - Moving Vessel Profiler
(h)	M/s Kongsberg Maritime, Norway	Latest Subsea Systems
(j)	M/s IIC Technologies, Hyderabad	Airborne Bathy Lidar Tender Specifications: Modifications from Lessons Learned

14. **Any Other Business.** NIL

15. **Date and Venue of Next Meeting.** The Vice Chair RAdm Tim Lowe, UK announced the host for next meeting NIOHC19 as Oman, scheduled from 25-28 March 2019.

16. **Election of Vice Chair.** UK accepted the role of Chair in succession to India. Bangladesh proposed Sri Lanka as Vice Chair

and UK seconded the proposal. Sri Lanka agreed to take up the role of Vice Chair.

17. **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 at relevant topic and are collected together at **Appendix B**. 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.

18. **Closing Remarks**. The Chair thanked all the Members of NIOHC, representatives from Industries and other organizations for their active participation during the deliberations. He reiterated the key areas of concern for better coordination and mutual cooperation between the states and other agencies in the region. The Chair thanked the sponsors for their support. The Vice Chair thanked the Chair and his team for the exceptional hospitality and successful conduct of the meeting. The NIOHC-18 meeting concluded with India handing over of the NIOHC flag to UK being the next Chair for NIOHC-19 to be held in Oman from 25 to 28 Mar 2019.

**Appendix B****ACTION LIST, NIOHC18, 09-12 APRIL 2018****GOA, INDIA**

<b>No.</b>	<b>Agenda</b>	<b>Description</b>	<b>Action</b>
1	3.1	Investigate ways to encourage engagement with Jordan, Maldives and Sudan to progress towards their becoming members of NIOHC and IHO	Chair Ongoing
2	3.2	Member States are encouraged to participate in IHO meetings (IRCC, HSSC, WEND-WG & MSDIWG etc).	All
3	4.1	Chair to invite Indonesia to sign the NIOHC statutes and forward to the IHO Secretariat.	Indonesia may forward the signed statutes to IHO keeping NIOHC informed by end May 2018
4	4.2	Add international organizations as official	Chair to invite

		Observers for e.g (PERSGA, IALA), NIOHC states to consider other relevant regional organizations and provide details to the Chair.	International and regional bodies.  MS to recommend regional and local organizations by Nov 2018
5	5.2	Capt Peush Pawsey, IN nominated as NIOHC rep to IHR editorial board	Action Completed
6	5.4.2	Encourage NIOHC states to make ENC's available through RENC	Ongoing
7	5.4.2	Encourage NIOHC states to make currently held data publically available and discoverable.	Ongoing
8	5.4.2	MS to forward comments views on CSB to Chair.	All Member States by 01 May 2018

		Chair to forward comments to IRCC	15 May 2018
9	5.4.2	Consider provision of shallow water data to the IHO DCDB for use in the GEBCO Grid	Ongoing
10	5.4.2	UK to provide feedback on NSHC CSB trial	NIOHC 19
11	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.	Ongoing
12	5.4.3	Forward NIOHC report to WEND WG	Chairman NICCWG by end Apr 2018
13	5.4.4	Forward NIOHC report to IRCC10	Chair by 10 May 2018
14	5.5	Review published data and provide updates to C55 and P5 at least once per year	All Members by 31 Dec every year

15	9	Circulate letter requesting bids for CB activities for submission to CBSC17	<p>CB Coordinator</p> <p>UK is Coordinator. Report submission to CBSC 17</p> <p>Member states to submit bids by 31 Dec 2018</p>
16	11.5	Improve provision of navigational warning information from national coordinators to NAVAREA VIII and NAVAREA IX Coordinators	<p>Ongoing.</p> <p>Area J countries are to share info with appropriate NAVAREA Coordinators.</p>
17	11.5	Engage with future work of the IMO-ITU EG and GMDSS CG	Member States

18	11.5	Cross check C-55 and GMDSS Master Plan Annex 7 and 8 entries to ensure harmonization of information	Ongoing
19	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	Ongoing by All Member States
20	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	Ongoing by all Member States
21		Chair to report back IHO- EU Network WG activity from IRCC to NIOHC MS	NIOHC 19
22	17.4	Circulate list actions to MS by Mid Apr 18 and minutes by Mid May 18	Chair
23	18	Circulate draft NICCWG minutes by end Apr 18	NICCWG Chair

**MINUTES OF NICCCWGMEETING–NIOHC18,**  
**09APR 2018,GOA,INDIA**

1. **Opening.** Vice Admiral Vinay Badhwar, Chairman NICCCWG welcomed all the Members and delivered the opening address.
2. **Agenda.** The following agenda, based on the minutes of the NIOHC 17 meeting was presented to the members for review and discussions:-

<b><u>No.</u></b>	<b><u>Agenda Item</u></b>	<b><u>Action Name</u></b>	<b><u>Action by and Date</u></b>
(a)	5.1	(i) INT chart producers to assess their allocated INT charts within region J with regards last update and currency they contain. Provide information to NICCCWG coordinator for review. (ii) ContinuetoprovideupdatestoS-11 through India as Chair of the NICCCWG for Region J	On Going
(b)	7.1	Updates on Publication information of INT charts to be conveyed to NICCCWG Coordinator (India)	All INT Chart producers 31Dec16

(c)	7.1	Sri Lanka to put up proposal to NICCWG Coordinator (India) for a large scale chart for Hambantota.	Sri Lanka As soon as possible
(d)	7.1	Saudi Arabia to put up proposals for INT Charts for their waters, if any	Saudi Arabia Whenever ready
(e)	7.1	Outstanding action points of NIOHC Pakistan to notify the Region I ICCWG Coordinator (IR of Iran) the need to commence discussion with Region J INT Chart Coordinator to resolve the cross Coverage issue of INT751	Prior to RSAHC meeting
(f)	7.1	Adequate time (01 day) to be allocated for NICCWG meeting to allow fruitful discussion	Ongoing

3. The above agenda items, their current status and course of actions were discussed sequentially. The outcome of these deliberations are as follows:-

4. **Agenda 5.1.** The Chair requested Members to provide information pertaining to revision/publication of their respective INT charts from time to time to keep the IHOs Digital INT chart catalogue(INT GIS) duly updated.

5. **Agenda 7.1**

(a) The Chair requested member states to submit the first edition of their INT charts in *.pdf* format to the NICCWG Coordinator and the Members to expedite the review process. The Vice Chair

explained the need of circulating the. *Pdf* to all the members of NICCWG as NICCWG is a group rather than individual. The consultation process would make the INT scheme more meaningful by resolving the-interregional coverage issues prior to publication. IHO gave a brief about the purpose of Digital INT chart catalogue and the need to keep the currency of the information in view of safety of navigation at sea.

(b) The Chair, proposed the cut off date as 30June2018 for updating the information on INT GIS by the Member States alongwith the C55 and P5 information.

(c) Egypt informed that they would be replacing 02 existing INT charts in Gulf of Suez area within next year.

(d) Sri Lanka and Saudi Arabia are requested to forward the new INT chart proposal as the same is pending.

(e) The INT chart coordinator area 'J' informed the NICCWG members that no correspondence has been received from Coordinator Area 'I'.

(f) Bangladesh has incorporated the correction on their first edition of INT charts .The change to the upper latitude of INT7453 onto INT GIS would also be incorporated. INT Charts are now approved subject to final technical adjustments. Regional coordinator of NIOHC will make necessaryupdateinPartBofS-11.

(g) After discussion, all the 9 INT charts of Bangladesh have been approved for production post incorporating the observations mentioned during discussion.

6. UKHO presented the status of INT charts produced by them since the last NIOHC for the information of all members present.

7. List of Actions from the NIOHC 18.

<u>Sl.</u>	<u>Agenda Item</u>	<u>Action Items</u>	<u>Action by and Date</u>
1	2(a) 5.1	Member States to provide INT Chart updates to the NICCWG Coordinator Area 'J'.	By Members
2	2(b) 7.1	<p>Amending relevant paragraph in S11Part 'A' pertaining to Monitoring of INT Charts (Para3.14) for production and forwarding the first edition of New INT Charts to the NICCWG members.</p> <p>The paragraph 3.14.1(a) is proposed to be amended as "New INT Charts producer nations are to provide the first edition of any INT charts <u>in pdf. format</u> to the relevant Regional INT chart coordinator <u>and the members of ICCWG</u> for review as soon as convenient during the production cycle.</p> <p>Timeline for return is 02 months from acknowledgement of receipt .After that time it would be considered as approval and printed.</p>	By Chair /IHO
3	2(f) 7.1	The Chairman and Vice Chairman urged the members to keep the INT GIS updated with the currency of data.	All members by 30 Jun 2018

8. The Chairman brought out that since no new proposals were received from the members, he opened the house for any other points for inclusion. Towards this, Egypt proposed an amendment to S11 Part B of Area 'J' where GB has been shown as printer nation for the three INT charts produced by them. The Chairman informed that the purpose of having a printer nation is to provide a wider distribution source of INT charts. However, he recommended initiating the process for deletion of GB as printer nation from the INT chart catalogue, S11 part B of Area 'J'.

9. **Conclusion**. There being no further points for discussion, the Chairman thanked all the members for their involvement during the NICCWG proceedings and concluded the meeting.