



15th NORTH INDIAN OCEAN HYDROGRAPHIC COMMISSION MEETING

Muscat, Oman
16 - 18 March 2015

Draft Annotated Agenda (19th February 2015)

1 Opening

1.1 Opening Remarks by Hosts

The Hosts will welcome the delegates to the meeting.

1.2 Opening Remarks by the Chairman

The Chair, Rear Admiral Tom Karsten (UK) will thank the Host and welcome NIOHC Members and participants to the meeting.

1.3 Opening Remarks by Director IHB

Mustafa Iptes (Director, IHB) will welcome the delegates to the meeting.

1.4 Address by Chief Guest

The chief guest will address delegates of the meeting.

1.5 Agenda and Timetable Approval

Docs: NIOHC15-0a1 Draft Agenda
NIOHC15-01b Draft Annotated Agenda
NIOHC15-01c Timetable

The secretary will introduce the Draft Agenda (NIOHC15-01) and Timetable (NIOHC15-03). Members will be invited to comment and adopt the documents.

Article 9 of the Statutes state that:

- a) The Agenda shall be adopted by the Commission at the beginning of each Conference.*
- b) The Commission may modify in the course of the Conference the order in which Agenda items are to be discussed.*

1.6 List of Documents

The Chairman will introduce NIOHC15-01d (List of Documents). Participants are expected to have downloaded all available documents from the IHO Web site and have brought them to the meeting.

1.7 Administrative Arrangements

The Chairman will invite a host representative to provide meeting participants with the required administrative details.

The secretariat will circulate a draft version of NIOHC15-01e (List of Participants) requesting participants to review and confirm the information contained is correct.

2 14th NIOHC Minutes Approval

Docs: NIOHC15-02 Minutes of the 14th NIOHC Meeting

The Chairman will ask delegates to confirm that these are a true reflection of the last meetings proceedings.

3 14th NIOHC Actions List Review

Docs: NIOHC15-03 Status of Actions from 14th NIOHC

The Chairman will provide an update on the status of the List of Actions arising from the 14th meeting.

NIOHC Members who have been identified as responsible for any of these actions should be ready to provide a status report. The Commission should decide on the best course of action for those activities that have not been completed.

Discussion on some actions may be covered under later agenda topics if the Commission deems appropriate.

4 NIOHC Statutes

Docs: NIOHC15-04 NIOHC Statutes (correct to Feb 2013)

Article 13 of the Statutes state:

Members and Associate Members of the Commission may propose amendments to the present Statutes. These amendments shall be discussed at a Conference and the decisions, which must be approved by two-thirds (2/3) majority of the Members of the Commission and will be included in the Report of the Conference.

4.1 NIOHC Membership Applications

States eligible for Observer, Associate or Member status will be invited to the meeting and if they wish a change of membership status will make themselves known at this point.

Sudan has indicated to the chair that they wish to become Associate Members of the NIOHC. Member states are invited to note this indication for discussion.

Article 5 of the Statutes state:

“g) Countries within the region who are not Members or Associate Members of the Commission, as well as countries which are outside the region and are Members of the International Hydrographic Organization, but not Associate Members of the NIOHC, if they contribute to the safety of navigation by their activities in the fields of hydrography including training, nautical charting, or nautical information in the region of the NIOHC area, and those organizations, which are active in the region of the NIOHC area in the fields of hydrography, including training, nautical charting, nautical information or aids to navigation, can be invited to send representatives to attend its meetings, as observers. The observers may take part in the discussion but shall not have voting rights.

h) Coordinators of adjacent INT chart regions and the countries bordering the region, who are not Members or Associate Members of the Commission, can be invited to send representatives to attend its meetings, as observers. The observers may take part in the discussions but shall not have voting rights.”

5 IHO / IHB Matters

5.1 IHB Report

Docs: NIOHC15-05a IHB Report

The Chair will invite Mustafa Iptes (Director, IHB) to provide the report of the IHB to the 15th NIOHC.

| No | ACTION (AGENDA ITEM) | RESP. | DEADLINE |
|----------|---|------------|-------------------------------|
| IRCC6/01 | Encourage the approval of pending applications for IHO membership | RHC Chairs | Report to IRCC Chair Dec 2014 |
| IRCC6/02 | Continue to engage pending applicants in their region to encourage the ratification of the IHO Convention | RHC Chairs | Report to IRCC Chair Dec 2014 |

5.2 NIOHC Report to IRCC6 (Inter Regional Coordination Committee)

Docs: NIOHC15-05b NIOHC Report to IRCC

George Wallace (UK) will provide an overview of the NIOHC report to IRCC6.

5.3 IRCC6 Report (Inter Regional Coordination Committee)

Docs: NIOHC15-05c IRCC6 Minutes

George Wallace (UK) will update delegates on the last IRCC meeting and any topics relating to the region on behalf of the IRCC Chair, Tom Karsten (UK).

List of actions from IRCC6 relevant to NIOHC region are listed in the table below; comments in italics are the status within NIOHC. Those applicable to the region are repeated under the relevant agenda topic. The full list of IRCC6 actions can be found upon the IHO website <http://www.iho.int>.

| No | ACTION (AGENDA ITEM) | RESP. | DEADLINE | STATUS |
|----------|---|----------------------------------|-------------------------------|---|
| IRCC6/01 | Encourage the approval of pending applications for IHO membership | RHC Chairs | Report to IRCC Chair Dec 2014 | Permanent <i>Covered under agenda item 5.1 IHB report</i> |
| IRCC6/02 | Continue to engage pending applicants in their region to encourage the ratification of the IHO Convention | RHC Chairs | Report to IRCC Chair Dec 2014 | Permanent <i>Covered under agenda item 5.1 IHB report</i> |
| IRCC6/03 | Consider the participation of stakeholders at the RHC conferences | RHC Chairs | Report to IRCC Chair Dec 2014 | Permanent, Complete <i>Stakeholders invited to attend the NIOHC meeting in Muscat.</i> |
| IRCC6/08 | 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 | RHCs/ GEBCO | Report to IRCC Chair Dec 2014 | Permanent, Complete <i>Covered under agenda item 8.2</i> |
| IRCC6/09 | Encourage MSs 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 | RHC Chairs | Report to IRCC Chair Dec 2014 | Permanent <i>Covered under agenda item 16</i> |
| IRCC6/15 | Provide material to the IHB to promote the achievements of IRCC bodies including CBSC, GEBCO | RHC Chairs and subsidiary bodies | Report to IRCC Chair Dec 2014 | Permanent <i>MS requested to submit suitable material to IHB.</i> |
| IRCC6/28 | Encourage National Hydrographers to invest in English language training in order to increase the chances of their candidates being selected to Cat A and Cat B training courses delivered in English | RHC Chairs | Permanent | <i>Covered under agenda item 7.2</i> |
| IRCC6/40 | Facilitate resolution of inconsistencies between paper charts and ENC's and between ENC's from different producers | RHC Chairs | Permanent | <i>Covered under NICCWG and agenda item 7.1</i> |

| No | ACTION (AGENDA ITEM) | RESP. | DEADLINE | STATUS |
|----------|--|------------|---------------|--|
| IRCC6/41 | Consider opportunities to interact with stakeholders in 2014 and encourage participation in the relevant events | RHC | December 2014 | Complete <i>Stakeholders invited to attend the NIOHC meeting in Muscat.</i> |
| IRCC6/42 | Notify Member States in their regions of opportunities for interaction and encourage participation with relevant stakeholders in accordance with CL 8/2014 | RHC | December 2014 | On Going <i>CLs sent out when chair aware of opportunities</i> |
| IRCC6/46 | Encourage MSs in their respective regions to use the Risk Assessment methodology to establish Hydrographic Survey priorities | RHC Chairs | Permanent | <i>Covered at previous NIOHC meetings</i> |

5.4 WEND-WG Report (Worldwide ENC Database – Working Group)

Docs: NIOHC15-05d WEND-WG Minutes

George Wallace (UK) will provide an update on the work of the Worldwide ENC Database Working Group (WEND-WG) and report on actions affecting the NIOHC region.

Hans Chr. Lauritzen (Primar) will present on “The value a RENC adds to the ENC value chain”.

5.5 HSSC6 Report (Hydrographic Services and Standards Committee)

Docs: NIOHC15-05e HSSC6 Minutes

Brett Brace (Aus) will present on behalf of Mike Prince (Aus) who is Vice Chair of HSSC and update delegates on the last HSSC meeting in November 2014.

5.6 Extraordinary International Hydrographic Conference

Docs: NIOHC15-05f EIHC Report

Mustafa Iptes (IHB) will update member states on the major topics and outcomes from the Extraordinary International Hydrographic Conference (EIHC) held in Monaco, 6-10 October 2014.

5.7 IHO Year Book P-5

P-5 is the source for information such as IHO membership details, contact points for countries hydrographic responsibility, survey and training capacity.

Countries in attendance will be asked to check the current edition of this publication and provide the IHB with an update, if required.

5.8 Status of Hydrographic Surveying and Nautical Charting Worldwide C-55

Nations should have included their update to C-55 within their National Report.

David Wyatt (IHB) will provide a report of the development of C-55 to the NIOHC.

5.9 Marine Spatial Data Infrastructure (MSDI)

Docs: IHO C-17 - Spatial Data Infrastructures: “The Marine Dimension” - Guidance for Hydrographic Offices http://www.iho.int/iho_pubs/CB/C-17_e1.1.0_2011_EN.pdf

Delegates are strongly encouraged to read C-17 as it sets out the need for MSDI.

Presentation by IIC Technologies on modernization of the local Geoid to ensure best practices by surveying on the Ellipsoid.

Presentation by Jeff Bryant (UK) on the regional MSDI being developed in the Meso American and Caribbean Hydrographic Commission.

Presentation by Matthew Holland (Caris) on Interoperability between the IHO, the Open Geospatial Consortium (OGC) and the International Association of Oil and Gas Producers (IOGP) especially as it pertains to Oil Spill Response.

6 National Reports

Docs: NIOHC15-06xx

Under this agenda item it is expected that all member states representatives will provide a summary of their National Reports. **Tom Karsten (Chair) has also requested that all nations attending provide a National Report.** This will enable non NIOHC members to assess their status and highlight successes. The National Report should be written based on the model presented at the IHO Technical Resolution T1.3, and should include updates to C-55 and Marine Spatial Data Infrastructure (MDSI) progress.

A copy of the model report as described above can be found here: http://www.iho.int/mtg_docs/rhc/templates/Struct_NationalReports_Eng.pdf.

It is expected that only the key elements of the national report will be emphasized, possibly within a short presentation.

7 NIOHC Committees and Working Groups

The Reports should be compiled under Doc NIOHC15-07, identifying the body to which the report refers.

7.1 North Indian Ocean Chart Coordination Working Group (NICCWG)

Docs: NIOHC15-07a Draft Annotated Agenda NICC Working Group Meeting

Chair of the NICCWG (India) will report on the status of the INT chart scheme and ENC coverage, including new requirements and modifications proposed to the scheme, and the production status following on from the NICC WG meeting. The Commission will be invited to comment on the reports and to provide guidance to the Chair on actions to be developed by both the NIOHC and the WG chairs.

Presentation by Emma Fowler (Seven Cs) on ENCs from a user perspective.

| No | ACTION (AGENDA ITEM) | RESP. | DEADLINE |
|----------|--|------------|-----------|
| IRCC6/28 | Encourage National Hydrographers to invest in English language training in order to increase the chances of their candidates being selected to Cat A and Cat B training courses delivered in English | RHC Chairs | Permanent |
| IRCC6/40 | Facilitate resolution of inconsistencies between paper charts and ENCs and between ENCs from different producers | RHC Chairs | Permanent |

7.2 North Indian Ocean Hydrographic Commission Capacity Building (CB)

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

Jeff Bryant (UK) the NIOHC CB Coordinator will provide a breakdown of courses, delegates and progress since the last meeting for IHO CB funded projects.

7.2.2 Report on IHO CB Courses since the last NIOHC

Presentations by Oman on the 3 day MSI course, and IIC Academy on the recent Multibeam Course.

7.2.3 IC-ENC Training and Capacity Building

James Harper (IC-ENC) will present on IC-ENC Training and Capacity Building.

7.2.4 Update on the 5 year Capacity Building plan

Courses proposed for funding, progress within the region and end goals for CB within the NIOHC region.

| No | ACTION (AGENDA ITEM) | RESP. | DEADLINE |
|----------|--|------------|-----------|
| IRCC6/28 | Encourage National Hydrographers to invest in English language training in order to increase the chances of their candidates being selected to Cat A and Cat B training courses delivered in English | RHC Chairs | Permanent |
| IRCC6/46 | Encourage MSs in their respective regions to use the Risk Assessment methodology to establish Hydrographic Survey priorities | RHC Chairs | Permanent |

8 Relevant International Organizations' Report.

The following Organizations have been invited to attend the 15th NIOHC and to provide a report on their activities and experiences. These reports are an excellent information source for the commission in identifying actions required to fulfil its objectives. The commission will be invited to comment on the reports submitted and to identify actions that should be taken.

8.1 International Maritime Organisation (IMO) – Member State Audits

Docs: NIOHC15-08 IMO Circular on IMO Member State Audit Scheme

IHO will provide an overview of the IMO Member States Audits and their change from voluntary to mandatory on 1st Jan 2015.

<http://www.imo.org/OurWork/Safety/Implementation/Pages/AuditScheme.aspx>

8.2 General Bathymetric Chart of the Oceans (GEBCO)

Rochelle Wigley, GEBCO, will attend the NIOHC and to discuss the regional mapping initiatives.

The GEBCO consists of an international group of experts who work on the development of a range of bathymetric data sets and data products, including gridded bathymetric data sets, the GEBCO Digital Atlas, the GEBCO world map and the GEBCO Gazetteer of Undersea Feature Names.

When needed, GEBCO will initiate its own regional bathymetric mapping projects, drawing on the expertise and regional knowledge of local experts including GEBCO colleagues and in particular the GEBCO/Nippon Foundation Scholars.

| No | ACTION | RESP. | DEADLINE |
|----------|---|--------------|-----------|
| IRCC6/08 | 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 | RHCs / GEBCO | Permanent |

8.3 International Association of Lighthouse Authorities (IALA)

Jean-Charles Leclair, Dean of the IALA World-Wide Academy will provide a presentation on the work of IALA.

IALA is a non-profit, international technical association. Established in 1957, it enables marine aids to navigation authorities, manufacturers, consultants, and, scientific and training institutes from all parts of the world to exchange and compare their experiences, achievements, and technical and operational policies via participation in IALA Technical Committees. The Committees work to create IALA Recommendations and Guidelines which are recognised worldwide as the international standards for the implementation and operation of aids to navigation. These standards help to ensure that the movements of vessels are safe, expeditious, cost effective and harmless to the environment.

IALA's scope and expertise extends to e-Navigation and Vessel Traffic Services.

The IALA World-Wide Academy is an established arm of IALA and has responsibility for training and capacity building.

8.4 Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden (PERSGA)

Islam Taha, Coordinator of the PERSGA GIS and Information Technology unit will attend and present on PERSGA's programs and activities, in the conservation of the marine environment in PERSGA region.

PERSGA, is an intergovernmental body dedicated to the conservation of the coastal and marine environments found in the Red Sea, Gulf of Aqaba, Gulf of Suez, Suez Canal, and Gulf of Aden surrounding the Socotra Archipelago and nearby waters.

8.5 Combined Maritime Forces (CMF)

Cdr Will Peters RN (Deputy Director Plans) for Combined Maritime Forces in Bahrain will talk on Counter Piracy operations and wider maritime security issues in the Indian Ocean.

CMF is a multi-national naval partnership, which exists to promote security, stability and prosperity across approximately 2.5 million square miles of international waters, which encompass some of the world's most important shipping lanes.

CMF's main focus areas are defeating terrorism, preventing piracy, encouraging regional cooperation, and promoting a safe maritime environment. For further details see <http://combinedmaritimeforces.com/>.

9 Maritime Safety and the World Wide Navigational Warnings Service (WWNWS)

Docs: NIOHC15-09a MSI Regional Report region VIII

NIOHC15-09b MSI Regional Report region IX

Reports by NAVAREA VIII coordinator (India) and NAVAREA IX coordinator (Pakistan) on maritime safety and navigational warnings in the region.

Presentation by David Wyatt (IHO) on the outcome of the 2014 WWNWS meeting in Monaco.

10 Maximising Hydrographic Data

Docs: NIOHC15-10 Maximising Hydrographic Data

Presentation by Jeff Bryant (UK) on the paper put to IRCC6 by the Meso-American and Caribbean Sea Hydrographic Commission (MACHC).

11 Towards Data Centricity

The development of a strategic vision for e-navigation, to integrate existing and new navigational tools, in particular electronic tools, in an all-embracing system that will contribute to enhanced navigational safety (with all the positive repercussions this will have on maritime safety overall and environmental protection) while simultaneously reducing the burden on the navigator.

Presentations by George Wallace (UK), Towards Data Centricity, Jean-Charles Leclair (IALA) on the developments on E-Navigation and Michael Bergmann (Jeppesen) on E-Navigation – Aviation community experiences and lessons that might be transferrable to the Maritime shipping sector

12 Uses of AIS (Automatic Identification System) Data

Automatic identification systems (AISs) are designed to be capable of providing information about the ship to other ships and to coastal authorities automatically. This information can be used to establish traffic patterns and new ports.

Presentation by Simon Tucker of Software Radio Technology on how the use and visualization of AIS contributes to Maritime Domain Awareness.

13 Maritime Funding

Presentation by Mustafa Iptes (IHB) on the search for Maritime Funding by the IHB to assist with capacity building.

14 Experience in dealing with maritime disasters in relation with IHO guidelines

If any other nations have experience of dealing with a maritime disaster they are invited to provide a short presentation.

15 Crowd Sourcing Survey Techniques

Discussion and presentation by David Wyatt (Assistant Director, IHB) on crowd sourcing survey techniques and how they may be of benefit to the supply of data within the NIOHC region.

16 Satellite Bathymetry

Presentation by Jeff Bryant (UK) on the use of satellite bathymetry and subsequent use of the hydrographic data and how it may be of benefit within the NIOHC region.

| No | ACTION (AGENDA ITEM) | RESP. | DEADLINE |
|----------|---|------------|----------------------------------|
| IRCC6/09 | Encourage MSs 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 | RHC Chairs | Report to IRCC Chair Dec 2014 |

17 Any Other Business

Last minute subjects for discussion can be raised under this item.

Ideally substantial matters should be raised well in advance with the chair in order for all delegates to prepare for detailed discussions.

18 NIOHC report to IRCC 7

Delegates are invited to discuss what the NIOHC report to IRCC7 shall contain and if any issues need to be taken forward to IRCC or its subordinates.

19 Date and Venue of the next meeting

Participants are invited to consider date and venue for the next meeting taking into account articles 4 and 5 of the statutes.

Article 4 states: "The Commission shall meet annually, in ordinary Conference, within the region."

Article 5 a states: "At the end of each Conference, the 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 ballot shall be held, the decisions being taken by a simple majority of Members present. The Chairman shall take up his duties within four months from the end of the Conference."

20 Election of Chair and Vice Chair

Members are invited to consider the election of the new Chair and Vice Chair as per articles 1 d and e.

Article 1 d states: "Associate Members shall have the same rights and obligations as the Members of the Commission, except the right to vote or be elected Chairman."

Article 1 e states: "At the conclusion of the Conference the Vice Chairman for the next Conference shall be elected and shall take up his duties within four months following the Conference. He shall remain in office until the end of the next Conference. In the normal course of events the Vice Chairman will succeed as the Chairman at the conclusion of the next Conference."

21 Approval of the Action List

The Chair and participants will review decisions and actions agreed during the meeting with the delegates concerned to ensure they are satisfied with the wording, timescales, etc.

22 Closing Remarks from the Chair