

**8th MEETNG of the IHO SUB-COMMITTEE ON THE WORLD-WIDE
NAVIGATIONAL WARNING SERVICE (WWNWS)**

**Ålesund, Norway
12 – 16 September 2016**

SUMMARY REPORT

Note: Paragraph numbering corresponds to Agenda Item numbering (Annex A), and not necessarily to the order in which matters were discussed.

1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS

1.1 Opening Remarks and Introductions

Chair, Mr Peter Doherty, opened the meeting and welcomed all. This was followed by a welcome from Mr Arve Dimmen, Director Maritime Safety at the Norwegian Coastal Administration, who provided a background brief on the organization and the provision of MSI services within NAVAREA XIX and Norwegian waters.

The Chair then provided his introduction, included a thank you for the Norwegian Coastal Administration for hosting the meeting. He highlighted the broad experience of the WWNWS-SC members and the close working relationship between the IHO and the IMO, which has been the foundation of the highlighted productive and successful work undertaken by the WWNWS-SC. He noted the importance of the attendance of the NAVAREA Coordinators, not just to find out what is developing but also for the input from the individual areas. He noted a number of challenges which need to be addressed in the near future and the importance of the service provided to the maritime customers. He noted the role of developing coastal states' capabilities.

The SC held a minute silence in memory of Mr Vladimir Maksimov, Inmarsat, who was a long time member and key partner within the WWNWS, particularly with respect to the International SafetyNET service.

On completion all participants introduced themselves.

1.2 Welcome by the International Hydrographic Bureau

Secretary provided a welcome and comments from the IHB.

1.3 Working Arrangements

It was agreed that normal working hours would be from 0900 to 1730 with a morning and afternoon coffee break. The members were reminded that all meeting documents were available from the WWNWS section of the IHO web site and they were referenced by WWNWS8 followed by the Agenda Item (AI) number.

1.4 Administrative Arrangements

NAVAREA XIX provided a short brief on Working and Administrative arrangements.

1.5 Adoption of the Agenda

The provisional agenda was adopted. It is attached at Annex A to this report. The documents submitted to WWNWS8 are listed at Annex C.

1.6 Review of Action Items from WWNWS7

The Action List from WWNWS7 was addressed. It was noted that a significant number of items were included in the meeting agenda.

1.7 Report from the 8th meeting of the Inter-Regional Co-ordination Committee (IRCC7)

The Chair provided an up-date brief on the WWNWS-SC report to the IRCC8, which was followed by a wider up-date on more general IRCC activities from the IHB. The Chair requested the IHO and WMO to coordinate the submission of the revised IMO resolution A.1051 to NCSR4. **Action WMO/IHB.**

2 MATTERS RELATING TO THE GMDSS MASTER PLAN

2.1 IHO Update

IHB provided a brief update on the approval of the Protocol of Amendments to the IHO Convention and the impacts and changes which will come into force as of 8 November 2016.

2.2 IMO Update

The IMO Secretariat provided an update brief of the work of the IMO in relationship to the provision of MSI and the WWNWS. The organization and the documents underpinning the WWNWS in support of SOLAS were described. The Global Integrated Shipping Information System (GISIS) and how member states will be able to update information directly was highlighted, it was noted that that NAVTEX and SafetyNET information will need to be validated by the respective Coordinating Panels.

2.3 Report of International Mobile Satellite Organization (IMSO)

The IMSO representative provided a brief on IMSO and its work in relation to GMDSS and then gave an update on the recognition of Iridium process. The Chair questioned the implementation process after the recognition of Iridium, which appeared not to have been considered; it was agreed WWNWS-SC members, through their national IMO delegations, should raise this issue at NCSR4 for future consideration and action.

2.4 Review of Content of the GMDSS Master Plan Annexes 7 & 8

It was agreed this item should be discussed during the Capacity Building (CB) discussions in association with IHO Publication C-55.

3 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)

3.1.1/3.1.2 Outcomes of International Maritime Organization (IMO) Sub-Committees 3.1.3 and Expert Groups

IHB gave a brief review on the significant outcomes of MSC96, NCSR3 and the IMO-ITU EG12 meetings relevant to the Sub-Committee, highlighting items from the final reports of the meetings and the subsequent information IHO Circular Letters. In particular it was highlighted the work commencing on the GMDSS Modernization Plan, the Iridium recognition process and the initial work on integrated bridge display systems and equipment, all of which will impact on the work of the NAVAREA Coordinators and how Navigational Warning messages will be presented to bridge personnel. It was agreed relevant NCSR4 documents would be circulated to WWNWS-SC members for the provision of comments and input to the Chair for a proposed WWNWS-SC comment paper at NCSR4. **Action Chair/IHB/All**

3.2 NAVAREA Assessments of Navigational Warnings Services by Coordinators

Each NAVAREA then presented highlights from their Self Assessment reports, particularly noting any short falls or problems encountered with the provision of delivery of MSI within their areas. The Chair highlighted comments in the Quality Management analysis of the Self Assessment reports; he reiterated the need for NAVAREA Coordinators to submit their reports in the correct format and to be mindful of the submission deadline, ignoring these requests impacts on the workload of the IHB and the service provided; it also reduces the time available for participants to review the report contents.

NAVAREA I – provided a brief on the Self Assessment report covering the period since WWNWS7. He noted there were no significant changes. The Chair thanked support provided as secretary of DRWG over past few years.

NAVAREA Ib – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted the interference caused by Mondolfo, Italy, NAVTEX transmissions at night, the issue has been passed to the NAVTEX Coordinating Panel; he also highlighted the proposed name changes which are to be submitted to the IMO for endorsement.

NAVAREA II – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted the staff training issues with Dakar NAVTEX station operations and the Cabo Verde NAVTEX station operational capability and the lack of knowledge. He also noted the improved piracy situation since the establishment of the FR/UK navies coordination reporting (MDAT-GoG). It was suggested discussions could be held with International Maritime Bureau (IMB) on their transmissions and the areas to which they broadcast as well as the contents, it was agreed the Chair could invite IMB to attend WWNWS9 or WWNWS10. **Action Chair** He noted the lack of information being provided by the coastal states and CB priorities for the region. The Chair highlighted the input into CB training and the effort undertaken by NAVAREA Coordinators I and II.

NAVAREA III – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted Malta NAVTEX transmitting messages using the Tunisia slot, which has improved the coverage in the region. NAVAREA XIII asked about the creation of a Black Sea sub-region and requested NAVAREA III to raise the issue again, the Chair noted the previous discussions had stalled over the lack of

regional agreement, the Chair agreed to work with NAVAREA III to explore this issue again. NAVTEX Coordinating Panel Chair suggested also considering including the Caspian Sea. **Action NAVAREA III**

NAVAREAs IV & XII – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted a number of operational issues, including some contingency events which had to be addressed.

NAVAREA V – provided a brief on the Self Assessment report covering the period since WWNWS7. She highlighted the signing of the contingency agreement with NAVAREA VI.

NAVAREA VI – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted the signing of the contingency agreement with NAVAREA V and that exercises have been held. He also noted the on-going non-operational state of La Paloma NAVTEX station in Uruguay.

NAVAREA VII (not present) – Chair provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted the lack of information being received and the lack of progress on the establishment of NAVTEX stations outside RSA. The Chair agreed to discuss the indicated contingency plan with NAVAREA II and its status. **Action NAVAREA VII**

NAVAREA VIII (not present) – Chair provided a brief on the Self Assessment report covering the period since WWNWS7. NAVAREA I questioned why Seychelles NAVTEX station was noted as operational as it had been off air since January. The Chair questioned why the contingency plan is internal. **Action NAVAREA VIII**

NAVAREA IX – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted the difficulty in contacting some National Coordinators; NAVTEX Panel Coordinating Chair offer to assist NAVAREA IX in contacting Saudi Arabia to facilitate passing MSI to NAVAREA IX Coordinator. The Chair questioned why no ‘No Warnings’ message is not being transmitted and is required to be sent, NAVAREA IX to investigate. **Action NAVAREA IX** NAVTEX Panel Coordinator noted some issues with NAVTEX coverage within the region and that Dammam station F will not be allowed to become operational again. Chair noted that SAR messages should not normally be transmitted unless capability does not exist with appropriate authority. The Chair questioned why the contingency plan is internal. **Action NAVAREA IX**

NAVAREA X – provided a brief on the Self Assessment report covering the period since WWNWS7. The small drop in availability in July and September 2015 and June 2016 was explained. The on-going work with Papua New Guinea (PNG) was noted.

NAVAREA XI – provided a brief on the Self Assessment report covering the period since WWNWS7. The Chair noted that missile firing warnings for DPRK were being issued after the events; the Chair highlighted his intention to write to DPRK and to include in WWNWS-SC report to NCSR4 that the safety of mariners was being put at risk with DPRK not meeting their SOLAS obligations and providing prior warning of these events. **Action Chair**

NAVAREA XIII – provided a brief on the Self Assessment report covering the period since WWNWS7. He noted that NAVAREA XIII was now attending ARHC and BSHC meetings.

NAVAREA XIV – provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted the CB effort and courses being provided. He noted lack of chart work skills of those attending and asked if there was any pre-course work available to help cover this issue. IMO highlighted the difficulties of contacting Nauru, which is not an IMO member state, and noted that they attended SWPHC meetings.

NAVAREA XV (not present) – Chair provided a brief on the Self Assessment report covering the period since WWNWS7. He highlighted they were now broadcasting in English. The Chair noted the comment regarding contingency planning, it was agreed the Chair should discuss this further with NAVAREA XV. It was also noted that not all messages follow the guidance documentation, Chair to discuss this issue further.
Action NAVAREA XV

NAVAREA XVI – provided a brief on the Self Assessment report covering the period since WWNWS7. He noted they were in the trial phase to become METAREA Coordinator. The NAVTEX Coordinating Panel Chair asked to be kept informed of operational state of NAVTEX stations. **Action NAVAREA XVI**

NAVAREAs XVII & XVIII – provided a brief on the Self Assessment report covering the period since WWNWS7. She highlighted messages were not being given a priority classification.

NAVAREA XIX – provided a brief on the Self Assessment report covering the period since WWNWS7 and noted no significant issues to report.

NAVAREAs XX & XXI (not present) – Chair provided a brief on the Self Assessment report covering the period since WWNWS7. NAVAREA II noted that the link to In-force Warnings was actually a link to NtoM and therefore not current information on Navigational warnings, the Chair to discuss. **Action NAVAREAs XX & XXI**

3.2.1 Quality Management Analysis of Self Assessments

IHB provided comprehensive comments and feedback on the NAVAREA Self-Assessment reports, highlighting a number of issues to be considered.

3.3 Broadcast Systems and Services

Chair provided comments on inquires by private companies for requests of MSI information and how NAVAREA Coordinators should react. He suggested the information was available from the websites and available from other HO services. It remained for individual NAVAREA Coordinators to decide the relationship they wished to develop with private companies. The Chair noted occasional requests from ships for emailed updates of In-Force warnings should be considered normal customer service provisions. Concerns were expressed that information received from private companies may be incomplete and create risks to shipping. The Chair recommended the following generic reply could be used:

“NAVAREA/National Coordinators have no concern with companies taking MSI from their websites and reproducing it for their customer base. In compliance with IMO requirements, NAVAREA/National Coordinators cannot provide this information directly to a company upon broadcast. NAVAREA/National Coordinators must broadcast MSI to ships via SafetyNET/NAVTEX. SOLAS class vessels must receive it that way. NAVAREA/National Coordinators do not want to put in place a process that circumvents that duty and/or responsibility”

3.3.1 Report of the IMO NAVTEX Co-ordinating Panel

The Chair IMO NAVTEX Coordinating Panel provided a comprehensive brief on the current state of the NAVTEX services. The Chair asked whether the message traffic previously transmitted by Sicily has been taken up by Malta and the NAVAREA Coordinator or had there been a reduction in total numbers of messages, which means some information was likely not now being issued. The Chair suggested contacting the Italian authorities to obtain figures for amount of traffic previously broadcast from Sicily. **Action NAVTEX Coordinating Panel Chair** NAVAREA IX confirmed no information was being received from Oman to replace the information previously transmitted by Muscat NAVTEX station, it was requested the IHB contacted OHNO for clarification. **Action IHB** NAVAREA IV_XII noted that not all vessels carry Inmarsat C so when messages are transmitted on SafetyNET during a NAVTEX station outage, some vessels will not receive information. Greece suggested neighbouring stations could cover the temporary gap. The Chair IMO NAVTEX Coordinating Panel noted that this may not possible due to stations that have hard coded transmitters. Greece noted that METAREA Coordinators should be informed as well as the NAVAREA Coordinator. IMO thanked the work and efforts of the NAVTEX Coordinating Panel chair for all his work, also highlighted the most recent version of the GMDSS Master Plan issued in July and asked all Coordinators to check and confirm the details contained, particularly the non-operational stations. **Action All**

3.3.2 Report of the IMO SafetyNET Coordinating Panel

The Chair provided a comprehensive brief on the activities of the International SafetyNET Coordinating Panel. IMO suggested the adoption date of the revised SafetyNET Manual could be brought forward. The Chair asked IMO to provide clarification so that an oral request could be made at MSC97. **Action IMO** WMO was requested to provide MET broadcast schedule for inclusion in the report to WWNWS9. **Action WMO** The Chair detailed how it was proposed to create an Iridium manual in a similar fashion to the SafetyNET Manual. Iridium noted that they were working hard to be as similar and recognisable to the current Inmarsat operational processes. IMO asked whether this was addressing the documentation or the Coordinating Panels. The Chair noted the earliest the amendments to SOLAS Chapter V could be completed would be 2020. WWNWS-SC supported the proposed approach articulated by the Chair on the way forward for the creation of Iridium documentation and the proposed phased operational establishment of the system. The Chair noted the need to create an Iridium certification process in the same manner to the current Inmarsat certification process to ensure proper control was maintained. The Chairman suggested that Iridium might wish to consider providing terminals free of charge to test functionality in order to facilitate implementation. It was requested the WMO should provide information to the ETMSS meeting in February 2017 to ensure METAREA Coordinators were engaged with the process and developments. **Action WMO** NAVAREA IV_XII suggested discussions be initiated with IALA to ensure developments with new technology and VHF Data Exchange are brought to the attention of the WWNWS-SC. **Action Chair** IMSO offered to develop and host a website to more efficiently manage GMDSS satellite service provider documentation and certified and authorized data

providers. This was accepted, IMSO agreed to commence development and keep the Chair informed of progress. **Action IMSO**

3.3.3 WMO Liaison Report

WMO provided an update on recent programme activities. WMO explained the background to the creation of the METAREAs and the reasons for split of Areas VIII and XI. WMO confirmed the 'fast track' approval process will be utilised for MSI documents. The Chair asked WMO on future support to WWNWS-SC and DRWG and increased engagement, along with succession planning.

3.3.4 Tsunami Early Warning Systems

No information available from IOC. Instead NAVAREA X provided a presentation on the e-Broadcast capability development by the Australian Maritime Safety Authority (AMSA), which included a live on-line demonstration of the capability available to Sri Lanka, Mauritius and the Maldives.

3.3.5 Security of Navigation Stabilisation, Advice and Training (SONSAT)

SONSAT provided an update brief on activities. He highlighted a number of erroneous warnings requests generated by military sources for promulgation by MSI providers and encouraged NAVAREA/National Coordinators to engage with military sources to correct requests to ensure they met the requirements of the WWNWS and are formatted within the documented regulations.

3.3.6 Contingency Planning

The Chair re-stated the importance of contingency planning and the need to have extensive protocols in place. He noted the increased number of agreements either in-place or being progressed since the last meeting, he urged all to continue this process and to exercise the plan at regular intervals. He also emphasised the importance of having external arrangements with an adjacent NAVAREA Coordinator, as internal alternative site relocation did not meet the entire requirements of contingency planning. **ACTION ALL**

3.4 Developments in the WWNWS

3.4.1 Inmarsat-C EGC SafetyNET Report

Inmarsat gave a presentation on the current and future developments in the Inmarsat C EGC SafetyNET service. The presentation generated numerous questions and a wide ranging discussion on service provision and the interaction with NAVAREA Coordinators. It was highlighted that changes in the IMO carriage requirements would influence developments of this type and the outcomes of the GMDSS modernization process would have a significant impact. It was noted that FleetBroadband was currently undergoing IMO certification for use in the GMDSS. The Chair asked whether a shore based terminal would be created, noting it was likely to be a web based service negating the need for additional terminals and designed to minimise operator interaction. SafetyNET II system current state was described and near future developments. Chairman asked when it would possible for Arctic NAVAREAs to cease transmitting via rectangular addressing and transition to NAVAREA specific addressing. Later, during Inmarsat's presentation, Inmarsat answered this question with "No date determined". **Action Inmarsat**

3.4.2 S-124 Progress

The Chair S-124 CG gave an update brief on the development progress on the S-124 Product Specification and the intended next phase of the work. This generated considerable discussion on the inability for NAVTEX and SafetyNET systems to carry, read and display S-100 data (GML or ISO 8211 data). NAVTEX and SafetyNET data, in their present format, do not support GML nor ISO 8211 and cannot be converted easily to GML or any other format that will geospatially enable it within S-100 compatible systems. New systems will be needed to produce, carry, read and display S-124 warnings in the framework of the e-navigation and of the modernized GMDSS. The Chair expressed concerns over the additional costs and work burden that will fall on NAVAREA/National Coordinators when current and future systems are operating in parallel.

The Chair S-124 CG gave a detailed explanations on the current version of draft model and presented hypothesis for generating Navigational Warnings messages in the S-124 format and for their use on board. The presentations generated numerous questions and a wide ranging discussion on the PS.

3.4.3 EfficientSea2

No information available.

3.5 Emerging Technologies

3.5.1 Iridium Satellite System

Iridium gave an update brief on the IMO recognition process, highlighting what progress had been made in addressing the identified items for resolution and their potential solutions. This was followed by a live system demonstration. It was noted degrees, minutes and decimals or degrees, minutes, seconds and decimals should be available for positional information. The Chair asked how systems would be set up to have a common interface for the operators. Costs for equipment to NAVAREA Coordinators and monthly costs remained a concern, which could impact the ability for some service providers to be able to use Iridium. Iridium sent tests messages to demonstrate the basic functional performance of the system, although not utilising the performance requirements required of a fully functioning system. Iridium was requested to investigate whether message identifiers reset periodically. **Action Iridium**

IMSO highlighted the IMO-ITU central point distributor, to which NAVAREA Coordinators pass their messages for distribution to the Satellite Service Providers. The majority considered it a preference using a central server rather than separate interfacings with each disseminator; although there was a degree of reserve on how it would function, under whose control and at what cost.

3.5.2 E-Navigation

NAVAREA X provided a presentation that outlined updates on the developments taking place at IMO and IALA with respect to e-Navigation.

4 REVIEW OF GUIDANCE DOCUMENTS

The Chairman noted that the 14th meeting of the Document Review Working Group was held at IMO Headquarters the week following NCSR3 in 2016. He intended to convene the 15th

meeting following NSCR4 at IMO Headquarters in London from 14-16 March 2017 and he asked the Secretary to make the necessary arrangements with IMO. Chair provided a background brief on the document review process

It was suggested that short list of key IMO and IMSO meetings was created to highlight to NAVAREA Coordinators to which they should consider attending and include as Annex to Report. **Action IHB**

4.1 Document Review Status Report

The Chair provided background and an up-date on the state of MSI documentation and the outcome actions from DRWG14. He particularly noted the rationale behind the development of the MSI guidance document up-date cycle. It was noted the MSI Training Course documentation and material would be reviewed as part of the up-date cycle.

The Chair acknowledged the increase in the document review workload, particularly with the intension to maintain separate documents for each service provider's system until a steady state had been achieved. He suggested once this was achieved, consideration could be given for integration into combined manuals. The Chair highlighted the importance of the DRWG meetings and he urged consideration of attendance as well as participation in the review process by commenting when the revised texts were made available on the IHO website. It was agreed a general message should be developed for announcing the introduction of the Iridium broadcast services. **Action Chair**

4.6 Joint IMO/IHO/WMO Manual on MSI

NAVAREA III provided a brief on a list of Spanish abbreviations for use in NATEX messages to avoid the use of full text. It was suggested that it could be published on the IHO website as a reference document for national services. NAVAREA III was invited to liaise with other Spanish speaking member states to ensure a coordinated list was developed. It was agreed the list could be included, after review of the current English list, in the Spanish language version to ensure the lists are harmonized. **Action NAVAREA III**

4.8 Inmarsat SafetyNET Users' Handbook

Inmarsat provided an update on the revision of the Inmarsat SafetyNET Users' Handbook and the intended procedure to be followed, which will include presentation at DRWG15. **Action Inmarsat**

4.12 Terms of Reference (TOR) for the WNWWS Sub-Committee

IHB presented proposed amendments to the ToRs/RoPs for consideration by the WNWWS-SC. Proposed amendments to be submitted to IRCC9 as part of the WNWWS-SC report. It was noted by NAVAREA II that a number of amendments were required to reflect the approval of the Protocol of Amendments to the IHO Convention, which would come into force prior to IRCC9. **Action Chair/IHB**

5 WWNWS REPRESENTATION AT REGIONAL HYDROGRAPHIC COMMISSIONS (RHCs) AND OTHER CONFERENCES

5.1 Update on WWNWS Members' Attendance to RHCs

The Chair provided a background brief on the current activities in relation to CB, he highlighted the training courses delivered and the relevant articles in the ToRs, which provide direct guidance on what actions should be undertaken by NAVAREA Coordinators in respect to CB. The Chair highlighted the importance of NAVAREA Coordinators attending RHC meetings and CB courses taking place in their own NAVAREA. IMO indicated that funding assistance may be available to help IMO members that would like to attend but are not IHO members.

5.1.1 Draft National Report to RHCs

NAVAREA X introduced the revised proforma, it was suggested the questions needed to have greater explanations to assist in the completion of the fields. **Action NAVAREA X**

5.2 Capacity Building Training Course Development

Mr Eric Langlois, Capacity Building (CB) Coordinator EAHC, gave a presentation on the IHO CB strategy and the workings of the CB Sub-Committee (CBSC). This generated a wide ranging discussion and numerous questions. It was highlighted that Regional Hydrographic Commissions (RHCs) should not request a MSI course prior to identifying a location for the course and subsequent host nation support.

A critical issue for the continued success of the MSI course was the lack of qualified trainers, particularly French and Spanish speakers. It was suggested that a course could be developed to train new trainers, who had a suitable background and the necessary operational experience. It was recognised this would need to be funded and fitted into the IHO CB strategy plan, it was recommended this issue was raised to the next CBSC. **Action Chair/IHB**

It was proposed that the new table in section four of the NAVAREA Self-Assessment, which describes MSI support by country within the area, be used to feed RHC reports and more accurately assess what countries or areas need MSI capacity building training.

5.3 WWNWS CD-ROM

The Chair provided background information on the creation and contents of the CD-ROM, he demonstrated some of the details contained in it. SC was reminded that it was a snapshot and therefore organization websites should be checked for the most recent versions of documents. A copy of the CD-ROM was provided to all attendees.

6 NEXT MEETING

6.1 DATES AND VENUE FOR WWNWS9

The Chair noted that NAVAREA VII had offered to host the next meeting, WWNWS9, in Cape Town, South Africa, 28 August to 1 September 2017. He noted it was intended to hold a CB MSI Training course the week following for the SAIHC region. It was noted that the

draft letter of invitation would be provided to NAVAREA VII before the end of the year.

Action NAVAREA VII/IHB

6.2 DRAFT AGENDA FOR WWNWS9

A provisional agenda for the WWNWS9 meeting was displayed and agreed by those present. The provisional agenda for WWNWS9 is at in Annex E.

7 REVIEW OF ACTION ITEMS FROM WWNWS8

The Secretary reviewed the list of action items agreed to during the meeting. These are set out in Annex D.

8 ANY OTHER BUSINESS

NAVAREA X circulated a first draft of a ‘mind map’, created to ‘map’ the various IMO and IHO documents pertaining to the provision of MSI. It was agreed that this could be a useful training aid and that it ought to be further developed at the Document Review WG meeting in March 2017.

9 CLOSURE OF THE MEETING

The Chairman thanked everyone for attending and for the hard work that they had put in to achieve everything that was necessary. He particularly thanked the hosts, NCA and NAVAREA XIX, for the outstanding programme of events and facilities, which had ensured the success of the meeting.

Comments from the group in closing noted that the week’s session was very interesting, helpful and productive. They supported comments that the Sub-Committee is a real team and genuinely strives for results while working for the benefit of all mariners in terms of maritime safety. They also reflected the Chair’s praise for the hosts.

The Chairman then formally closed the meeting and wished everyone a safe trip home.

Annexes:

- Annex A Agenda for the 8th Meeting of WWNWS-SC
- Annex B Participants at WWNWS8
- Annex C List of Documents submitted to WWNWS8
- Annex D List of Action Items as of 16 September 2016
- Annex E Provisional Agenda for the 9th Session of the IHO WWNWS Sub-Committee
- Annex F MSI Quality Management Survey Summary
- Annex G Draft revisions to ToRs
- Annex H List of key IMO and IMSO meetings
- Annex I Justifications for broadcasting MSI

**PROVISIONAL AGENDA OF THE EIGHTH MEETING
OF THE WWNWS SUB COMMITTEE (WWNWS8)**

**To be held Ålesund, Norway
12 – 16 September 2016**

1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS

- .1 Opening Remarks and Introductions (**Chair**)
- .2 Welcome by the IHB (**President & Director Iptes**)
- .3 Working Arrangements (**Secretary**)
- .4 Administrative Arrangements (**Secretary**)
- .5 Adoption of the Agenda (**Chair**)
- .6 Review of Action Items from WWNWS7 (**Secretary**)
- .7 Report from IRCC8 (**Chair**)

2 MATTERS RELATING TO THE GMDSS MASTER PLAN

- .1 IHO Update
- .2 IMO Update
- .3 IMSO Update
- .4 Review content of GMDSS Master Plan Annexes 7 & 8

3 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)

- .1 .1 Outcome of the 96th Session of the International Maritime Organization's Committee on Maritime Safety (MSC96) 11 – 20 May 2016 (**Secretary**)
- .2 Outcome of the 3rd Session of the International Maritime Organization's Sub-Committee on Navigation, Communications and Search and Rescue (NCSR3) 29 February – 4 March 2016 (*including development of the GMDSS Modernization Plan and issues relevant to WWNWS*) (**Secretary**)
- .3 Outcome of the 12th meeting of the IMO/ITU Experts Group IMO/ITU EG12) 11-15 July 2016 (*including development of the GMDSS Modernization Plan and issues relevant to WWNWS*) (**Secretary**)
- .2 Self Assessments by NAVAREA Coordinators (*Brief reports highlighting only significant events in previous period, identified deliverables/outputs and matters requiring WWNWS-SC action, full reports can be downloaded from the WWNWS-SC website*):
 - .1 Quality Management Analyses of Self Assessments
- .3 Broadcast Systems and Services
 - .1 Report of the IMO NAVTEX Coordinating Panel
 - .2 Report of the International SafetyNET Coordinating Panel
 - .3 WMO Liaison Report
 - .4 IOC Tsunami Early Warning Systems up-date
 - .5 SONSAT (Security of Navigation Stabilisation, Advice and Training) brief (formerly AWNIS) (**UK**)
 - .6 Contingency Planning (**Chair**)

- .4 Developments in the WWNWS
 - .1 Inmarsat-C EGC SafetyNET Report
 - .2 S-124 progress (Chair S-124CG)
 - .3 EfficienSea 2
- .5 Emerging Technologies/Modernisation
 - .1 Up-date for new satellite service providers – Iridium (*demo on Tuesday pm*)
 - .2 e-Navigation up-date (Chair/Secretary)

4 REVIEW OF GUIDANCE DOCUMENTS AND OTHER RELATED DOCUMENTATION

- .1 Document Review Status Report (Chair/Secretary DRWG)
- .2 IMO Resolutions A.705(17) as amended and A.706(17) as amended (MSC.1/Circ.1287 and MSC.1/Circ.1288 respectively) (Chair/Secretary DRWG)
- .3 WMO - IMO resolution on Met-ocean services Assembly resolution A.1051(27)
- .4 IMO resolutions MSC.306(87) and A.664(16) "Performance Standards for Enhanced Group Call Equipment". (Chair/Secretary DRWG)
- .5 IMO "Guideline on operational procedures for the broadcast of maritime safety information concerning acts of piracy and piracy counter-measure operations." (IMO resolution MSC.305(87) (Chair/Secretary DRWG)
- .6 Joint IMO/IHO/WMO Manual on MSI (MSC.1/Circ.1310) and IHO Publication S-53 (Chair/Secretary DRWG)
- .7 International SafetyNET Manual (MSC.1/Circ.1364) (Chair/Secretary DRWG)
- .8 IMO NAVTEX Manual (MSC/Circ.1403) (Chair/Secretary DRWG)
- .9 Inmarsat SafetyNET Users' Handbook (Chair/Secretary DRWG)
- .10 IAM SAR Manual Volume 2 (IMO)
- .11 MSI element of IHO Publication C-55 – "Status of Hydrography and Nautical Cartography World-Wide". (Chair/Secretary DRWG)
- .12 Terms of Reference for the WWNWS Sub Committee (IHO Circular Letter 46/2009) (Chair/Secretary DRWG)

5 WWNWS REPRESENTATION AT REGIONAL HYDROGRAPHIC COMMISSIONS AND OTHER CONFERENCES (*at sea with CB Regional Coordinators*)

- .1 WWNWS member attendance at RHCs (Chair)
- .2 Capacity Building MSI Training Course Developments (Chair)
 - .1 Discussion of on-line MSI Training Course
 - .2 Discussion of attendance criteria and student selection;
 - .3 Discussion on input from partner Organizations involved in the provision of MSI (IMO, WMO, IOC)
- .3 WWNWS CD-ROM (Chair)

6 NEXT MEETING

- .1 Dates and venue for WWNWS9 – Cape Town, South Africa, 28 August – 1 September 2017 (Chair/Secretary)
- .2 Draft Agenda for WWNWS9 (Chair/Secretary)

- 7 **Review of Action Items from WWNWS8 (Secretary)**
- 8 **ANY OTHER BUSINESS (Chair)**
- 9 **CLOSURE OF THE MEETING (Chair)**

**WWNWS8
LIST OF PARTICIPANTS**

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Documents Submitted to WWNWS8

Document No	Document Title
WWNWS8-1-6	WWNWS7 ACTION ITEMS - Corrected to 7 September 2016
WWNWS8 Self Assessment Template	Template to be used for the submission of NAVAREA Self Assessments - amended 14 July 2016
WWNWS8 Document Template	Template to be used for the submission of documents, other than Self Assessments
WWNWS8 PowerPoint Template	Template to be used for PowerPoint Presentations at WWNWS8
WWNWS8 2/2016	Logistics Information
WWNWS8 Registration	Registration Form (Word version)
WWNWS8_Provisional-Agenda	Provisional Agenda for WWNWS8 v5.0
WWNWS8_List of Participants	Provisional List of Participants
WWNWS8-1-3a	Programme for WWNWS8-SC meeting v3.0
WWNWS8-1-7	Report to IRCC8
WWNWS8-2-2	IMO Liaison Report
WWNWS8-2-3-Rev.1	IMSO Liaison Report
WWNWS8-3-1-1	Outcomes of MCS96
WWNMS8-3-1-2a	Outcomes of NCSR3
WWNMS8-3-1-2b	Proposal on drafting new modules to Performance standards for integrated navigation system (INS) (China)
WWNMS8-3-1-2c	Proposal on drafting new modules to Performance standards for integrated navigation system (INS) (Norway)
WWNMS8-3-1-2d	Proposals for the development of Guidelines for the harmonized display of navigation information received via communications equipment (Norway)
WWNMS8-3-1-2e	Report of the Correspondence Group on the Review of the GMDSS (USA)
WWNWS8-3-1-3	Outcomes of IMO/ITU EG12
WWNWS8-3-2-I	Self Assessment NAVAREA I
WWNWS8-3-2-Ib	Self Assessment NAVAREA Ib
WWNWS8-3-2-II	Self Assessment NAVAREA II
WWNWS8-3-2-III	Self Assessment NAVAREA III
WWNWS8-3-2-IV_XII-Rev.1	Self Assessment NAVAREA IV_XII
WWNWS8-3-2-V	Self Assessment NAVAREA V
WWNWS8-3-2-VI	Self Assessment NAVAREA VI
WWNWS8-3-2-VII	Self Assessment NAVAREA VII
WWNWS8-3-2-VIII	Self Assessment NAVAREA VIII

WWNWS8-3-2-IX	Self Assessment NAVAREA IX
WWNWS8-3-2-X	Self Assessment NAVAREA X
WWNWS8-3-2-XI	Self Assessment NAVAREA XI
WWNWS8-3-2-XIII	Self Assessment NAVAREA XIII
WWNWS8-3-2-XIV	Self Assessment NAVAREA XIV
WWNWS8-3-2-XV	Self Assessment NAVAREA XV
WWNWS8-3-2-XVI	Self Assessment NAVAREA XVI
WWNWS8-3-2-XVII_XVIII	Self Assessment NAVAREA XVII_XVIII
WWNWS8-3-2-XIX	Self Assessment NAVAREA XIX
WWNWS8-3-2-XX_XXI	Self Assessment NAVAREA XX_XXI
WWNWS8-3-2-1-Rev.3	Quality Management Survey
WWNWS8-3-3-1	NAVTEX Panel Report
WWNWS8-3-3-2	SafetyNET Panel Report
WWNWS8-3-3-3a	WMO Liaison Report
WWNWS8-3-3-3b	METOCEAN Forecasting & Warnings
WWNWS8-3-3-3c	Meteorological Service Marine Operations
WWNWS8-3-3-3d	JCOMM President Report
WWNWS8-3-3-3	List of METAREA Coordinators
WWNWS8-3-4-1a	Inmarsat Performance Report (IMSO)
WWNWS8-3-4-1b	Inmarsat services (IMSO)
WWNWS8-3-4-1c	Inmarsat EGC SafetyNET Report
WWNWS8-3-4-2	S-124 CG Progress Report
WWNWS8-3-5-1a	Recognition of Iridium mobile satellite system as a GMDSS service provider (IMSO)
WWNWS8-3-5-1b	Recognition of Iridium mobile satellite system in the GMDSS (USA)
WWNWS8-3-5-1c	Draft performance standards for shipborne GMDSS equipment to accommodate additional providers of GMDSS satellite services (USA)
WWNWS8-3-5-1d	Iridium Progress Report
WWNWS8-4-1a	Actions from DocRev WG14 Meeting
WWNWS8-4-1b	Document Review Status Report
WWNWS8-4-1c	Review of Guidance Documents (USA)
WWNWS8-4-6	NAVTEX abbreviations in Spanish
WWNWS8-4-11	C-55 MSI and GMDSS Information
WWNWS8-4-12	WWNWS-SC ToRs Draft Revision
WWNWS8-5-1a	Regional Hydrographic Commission Meetings

WWNWS8-5-1-1a	National Reports to Regional Hydrographic Commissions - Australia
WWNWS8-5-1-1b	WWNWS7-5-1-Annex-A-RHC National Report MSI Template - Australia
WWNWS8-5-1-1c	Annex-B-MSI Revised National Coordinator Template - Australia
WWNWS8-5-2	CB MSI Training 2016-2017
WWNWS8-6-2	Provisional Agenda WWNWS9
WWNWS8 Presentations	Presentations zip

WWNWS8
Ålesund, Norway - 8 to 12 September 2016

List of Actions (updated: 21 October 2016)

Agenda Item	Subject	Status / Due Date	Comments	Action By
From WWNWS4 List of Actions				
WWNWS3 3.3.4B	NAVAREA XV (Chile) and NAVAREA XVI (Peru) to consider contingency planning for the provision of NAVAREA services and include updated information in their Self Assessment submissions to WWNWS4	WWNWS789	Chile and Peru to work on the implementation of the contingency plan. Internal contingency plans almost in place, once completed will commence work on external. Chair to engage with NAVAREA XV and XVI to commence the development of a contingency plan	NAVAREA XV and XVI/Chair
WWNWS4 3.2. X	NAVAREA X Self assessment	WWNWS689	WMO to work with PNG representative for Met Warning Services in Area P with oversight from NAVAREA X Coordinator Area P not in operation, NAVAREA X to engage with WMO when appropriate. Ongoing and to be reported next meeting.	WMO
WWNWS6 List of Actions				
WWNWS6 3.2	NAVAREA XV Self-Assessment	December 2014 WWNWS89	NAVAREA XV to transmit cancelation messages and serialise In-Force Bulletin messages On going	NAVAREA XV/Chair

WWNWS6 5.2	Capacity Building	March 20152016	Review IHB document and proposed process, provide input to Regional CB Coordinators on coastal states identified as requiring training and prioritize if possible, copy to Chair, provide link to Regional CB Coordinators: http://www.iho.int/mtg_docs/com_wg/CBC/CBC_Misc/CBSC_members.pdf NAVAREA I noted that cartographic personnel rather than operation MSI personnel were often found attending courses; concerned not training correct people. Chair to discuss situation with DCoord and CBSC secretary. CBSC to invite appropriate attendees and trainers.	All/Chair/IHB
WWNWS7 List of Actions				
WWNWS7 3.3.2	IMO SafetyNET Panel Report	WWNWS8 Complete	IMO to provide guidance on how to include Iridium and other new service providers into MSI guidance documentation, taking into consideration of WWNWS-SC to have separate Iridium MSI guidance documents. IMO noted waiting for IMO Member States to decide on way forward; Chair noted discussions with Iridium for them to development a separate document in preparation for recognition of their system, DRWG to review and help maintain document in background until needed to be submitted to IMO NCSR and MSC	IMO
WWNWS8 List of Actions				
WWNWS8 1.7	IRCC8 Report	15 November	Submit proposed revised version of A.1051(27) to NCSR4	WMO/IHB
WWNWS8 3.1	Outcomes of MSC96, NCSR3 and IMO-ITU EG12	15 November	Provide comments to Chair on document NCSR4-16 (Report of IMO-ITU EG12), when issued, and proposed amendments to resolutions MSC.148(77), MSC.306(87) and MSC.252(83)	Chair/IHB/All

WWNWS8 3.2	NAVAREA II Self Assessment	WWNWS9/10	Invite IMB to attend WWNWS9 or WWNWS10	Chair
WWNWS8 3.2	NAVAREA III Self Assessment	WWNWS9	Explore possibility of creating a Black Sea/Caspian Sea Sub-area IIIb	NAVAREA III
WWNWS8 3.2	NAVAREA VII Self Assessment	WWNWS9	Discuss status of contingency plan between NAVAREAs II and VII with NAVAREA VII Coordinator	NAVAREA VII
WWNWS8 3.2	NAVAREA VIII Self Assessment	WWNWS9	Discuss NAVAREA VIII stated contingency plan for explanation why no external arrangements are in place	NAVAREA VIII
WWNWS8 3.2	NAVAREA IX Self Assessment	WWNWS9	Discuss NAVAREA IX stated contingency plan for explanation why no external arrangements are in place	NAVAREA IX
WWNWS8 3.2	NAVAREA IX Self Assessment	WWNWS9	Investigate why no 'No Warnings' messages are being transmitted	NAVAREA IX
WWNWS8 3.2	NAVAREA XI Self Assessment	WWNWS9	Discuss with DPRK why no warnings are being issued prior to missile launches and highlight SOLAS obligations to provide prior notice so as not to put mariners at risk; include comment in report to NCSR4	Chair
WWNWS8 3.2	NAVAREA XV Self Assessment	WWNWS9	Discuss contingency planning and message structures with NAVAREA XV Coordinator	NAVAREA XV
WWNWS8 3.2	NAVAREA XVI Self Assessment	WWNWS9	Keep Chair NAVTEX Coordinating Panel apprised on the state of non-operational NAVTEX stations	NAVAREA XVI
WWNWS8 3.2	NAVAREA XX_XXI Self Assessment	WWNWS9	Discuss website link for In-Force Warning, which appears to link to NtM	NAVAREAs XX & XXI
WWNWS8 3.3	Broadcast Systems and Services	WWNWS9 Complete	Create generic statement for reply to private company inquiries for use of NAV Warning messages and information and include in meeting report See meeting report	Chair/IHB
WWNWS8 3.3.1	NAVTEX Coordinating Panel	WWNWS9	Contact Italian authorities to obtain figures for amount of traffic previously broadcast from Sicily	Chair NAVTEX Panel

WWNWS8 3.3.1	NAVTEX Coordinating Panel	WWNWS9 Complete	Investigation why no information being passed to NAVAREA IX Coordinator from ONHO to cover traffic previously transmitted by Muscat NAVTEX station Formal advice email sent by NAVTEX Panel Coordinating Chair as well	IHB
WWNWS8 3.3.1	NAVTEX Coordinating Panel	WWNWS9	Check most recent version of the GMDSS Master Plan and confirm the details contained, particularly the non-operational stations	All
WWNWS8 3.3.2	SafetyNET Coordinating Panel	MSC97	Clarification on proposed implementation date for revised version of SafetyNET and NAVTEX Manuals presented to MSC97 by NCSR 3	IMO
WWNWS8 3.3.2	SafetyNET Coordinating Panel	WWNWS9	Provide METAREA broadcast schedules for inclusion in report	WMO
WWNWS8 3.3.2	SafetyNET Coordinating Panel	ETMSS	Provide briefing to METAREA Coordinators to ensure all aware and engaged in GMDSS Modernization and Iridium recognition process	WMO
WWNWS8 3.3.2	SafetyNET Coordinating Panel	WWNWS9	Invite IALA to attend WWNWS-SC meetings to ensure developments in new technology and VHF Data Exchange are highlighted to WWNWS S-C	Chair
WWNWS8 3.3.2	SafetyNET Coordinating Panel	DRWG15	Develop website to more efficiently manage GMDSS satellite service provider documentation and certified and authorized data providers	IMSO
WWNWS8 3.3.6	Contingency planning	WWNWS9	Develop appropriate external contingency plans and exercise periodically	All
WWNWS8 3.4.2	New satellite service providers	WWNWS9	Transition from rectangular area to NAVAREA specific addressing for the Arctic areas	Inmarsat
WWNWS8 3.5.1	New satellite service providers	DRWG15	Investigation whether message identifiers reset periodically	Iridium
WWNWS8 4.1	Document Review Status Report	WWNWS9 Complete	Create list of key IMO and IMSO meetings to highlight key meetings to which NAVAREA Coordinators should consider attending See Annex H to meeting report	IHB

WWNWS8 4.1	Document Review Status Report	DRWG15	Create text announcing the introduction of Iridium broadcast services	Chair
WWNWS8 4.6	Joint IMO/IHO/WMO Manual on MSI	DRWG15	Liaise with other Spanish speaking NAVAREA/National Coordinators to create a consolidated list of translated terms for inclusion into the Spanish version of the Joint manual at the next review	NAVAREA III
WWNWS8 4.8	SafetyNET Users' Handbook	DRWG15	Provided an update on the revision of the Inmarsat SafetyNET Users' Handbook and the intended procedure to be followed.	Inmarsat
WWNWS8 4.12	ToRs/RoPs	IRCC9	Submit proposed amendments as part of report to IRCC9	Chair/IHB
WWNWS8 5.1.1	Draft National Report to RHCs	DRWG15	Include expanded explanations to guide in completion of fields	NAVAREA X
WWNWS8 5.2	Capacity Building	CBSC	Raise issue of lack of trained personnel to deliver MSI training and consideration for funded train the trainers course	Chair/IHB
WWNWS8 6.1	Next meeting	16 December	Confirm details of WWNWS9	NAVAREA VII/Chair/ IHB
WWNWS8 7	Action List	WWNWS9	Keep IHB and the Chair informed of progress with allocated actions	All
WWNWS8 7	WWNWS8 Draft Report	7 October	Draft to be circulated for comment	IHB
WWNWS8 7	WWNWS8 Draft Report	21 October	All to provide comments on draft report	All
WWNWS8 7	WWNWS8 Draft Report	4 November	Publish final report	IHB
WWNWS8 7	Report to IRCC9	31 March	Draft report for review and amendment.	Chair/vice-Chair/IHB

**PROVISIONAL AGENDA OF THE NINTH MEETING
OF THE WWNWS SUB COMMITTEE (WWNWS9)**

**To be held Cape Town, South Africa
28 August – 1 September 2017**

1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS

- .1 Opening Remarks and Introductions (**Chair**)
- .2 Welcome by the IHB (**Secretary**)
- .3 Working Arrangements (**Secretary**)
- .4 Administrative Arrangements (**Host**)
- .5 Adoption of the Agenda (**Chair**)
- .6 Review of Action Items from WWNWS8 (**Secretary**)
- .7 Report from IRCC9 (**Chair**)

2 MATTERS RELATING TO THE GMDSS MASTER PLAN

- .1 IHO Update
- .2 IMO Update
- .3 IMSO Update
- .4 Review content of GMDSS Master Plan Annexes 7 & 8 (**Chair**)

3 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)

- .1 .1 Outcome of the 97th and 98th Sessions of the International Maritime Organization's Committee on Maritime Safety (MSC97 and MSC98) 21 - 25 November 2016 and 7 – 16 June 2017 (**Secretary**)
- .2 Outcome of the 4th Session of the International Maritime Organization's Sub-Committee on Navigation, Communications and Search and Rescue (NCSR4) 6 – 10 March 2017 (*including development of the GMDSS Modernization Plan and issues relevant to WWNWS*) (**Secretary**)
- .3 Outcome of the 13th meeting of the IMO/ITU Experts Group IMO/ITU EG13) 10-14 July 2017 (*including development of the GMDSS Modernization Plan and issues relevant to WWNWS*) (**Secretary**)
- .2 Self Assessments by NAVAREA Coordinators (*Brief reports highlighting only significant events in previous period, identified deliverables/outputs and matters requiring WWNWS-SC action, full reports can be downloaded from the WWNWS-SC website*)
 - .1 Quality Management Analyses of Self Assessments (**Secretary**)
- .3 Broadcast Systems and Services
 - .1 Report of the IMO NAVTEX Coordinating Panel
 - .2 Report of the International SafetyNET Coordinating Panel
 - .3 WMO Liaison Report
 - .4 SONSAT (Security of Navigation Stabilisation, Advice and Training including AWNIS) brief (**UK**)
 - .5 Contingency Planning (**Chair**)

- .4 Developments in the WWNWS
 - .1 Inmarsat-C EGC SafetyNET Report
 - .2 S-124 progress (Chair S-124CG)
 - .3 EfficienSea 2
- .5 Emerging Technologies/Modernisation
 - .1 Up-date for new satellite service providers – Iridium
 - .2 e-Navigation up-date (Chair/Secretary)

4 REVIEW OF GUIDANCE DOCUMENTS AND OTHER RELATED DOCUMENTATION

- .1 Document Review Status Report (Chair/Secretary DRWG)
- .2 IMO Resolutions A.705(17) as amended and A.706(17) as amended (MSC.1/Circ.1287 and MSC.1/Circ.1288 respectively) (Chair/Secretary DRWG)
- .3 WMO - IMO resolution on Met-ocean services Assembly resolution A.1051(27)
- .4 IMO resolutions MSC.306(87) and A.664(16) "Performance Standards for Enhanced Group Call Equipment". (Chair/Secretary DRWG)
- .5 IMO "Guideline on operational procedures for the broadcast of maritime safety information concerning acts of piracy and piracy counter-measure operations." (IMO resolution MSC.305(87) (Chair/Secretary DRWG)
- .6 Joint IMO/IHO/WMO Manual on MSI (MSC.1/Circ.1310) and IHO Publication S-53 (Chair/Secretary DRWG)
- .7 International SafetyNET Manual (MSC.1/Circ.1364) (Chair/Secretary DRWG)
- .8 IMO NAVTEX Manual (MSC/Circ.1403) (Chair/Secretary DRWG)
- .9 Inmarsat SafetyNET Users' Handbook (Chair/Secretary DRWG)
- .10 IAM SAR Manual Volume 2 (IMO)
- .11 MSI element of IHO Publication C-55 – "Status of Hydrography and Nautical Cartography World-Wide". (Chair/Secretary DRWG)
- .12 Terms of Reference for the WWNWS Sub Committee (IHO Circular Letter 46/2009) (Chair/Secretary DRWG)

5 WWNWS REPRESENTATION AT REGIONAL HYDROGRAPHIC COMMISSIONS AND OTHER CONFERENCES

- .1 WWNWS member attendance at RHCs (Chair)
- .2 Capacity Building MSI Training Course Developments (Chair)
 - .1 Discussion of on-line MSI Training Course
 - .2 Discussion of attendance criteria and student selection;
 - .3 Discussion on input from partner Organizations involved in the provision of MSI (IMO, WMO, IOC)
- .3 WWNWS CD-ROM (Chair)

6 NEXT MEETING

- .1 Dates and venue for WWNWS10 – IHB, Monaco, 27-31 August 2018 (Chair/Secretary)
- .2 Draft Agenda for WWNWS10 (Chair/Secretary)

- 7 **Review of Action Items from WWNWS9** (Secretary)
- 8 **ANY OTHER BUSINESS** (Chair)
- 9 **CLOSURE OF THE MEETING** (Chair)

DRAFT

NAVAREA Coordinators' Self-Assessment Quality Management Analysis

Submitted by IHB

SUMMARY

Executive Summary: This document provides details of the analysis of the NAVAREA Coordinators' Self-Assessment Reports to WWNWS8.

Action to be taken: Paragraph 8.

Related documents: NAVAREA Coordinators' Self-Assessment Reports

1. See attached Quality Management analysis table.
2. A number of the Self-Assessment reports were received after the deadline; this caused significant additional work and delayed the publication of the documents on the website. NAVAREA Coordinators are requested to ensure the published deadline for submission of Self-Assessment reports is observed. It was pleasing to note that all were received in Word format, which greatly assisted in the final preparation of the documents.
3. It was obvious a number of Self-Assessment reports were submitted on a previous version of the template. Details of MSI information received from coastal states within individual NAVAREAs and typical topics/subjects; i.e. mainly aids to navigation, military exercises, port construction activities, etc., helps to identify coastal states that are not providing information or the information that is provided is limited to particular topics/subjects and therefore they are likely not to be fulfilling their entire remit.
4. NAVAREA Coordinators are strongly encouraged to confirm/check the contents of their Self Assessment reports with the National coordinators within their individual NAVAREAs, it was noted that some information contained was incorrect despite the information being available for a period prior to the submission of the Self-Assessment. It is recommended that draft documents are circulated to National coordinators for their input and checking, this will also ensure communication between the NAVAREA Coordinator and the National coordinators.
5. Specific comments on submitted Self Assessment report are contained in the table below:

NAVAREA	Remarks
II	Example CB assessment for NAVAREA, consider using as model in future
III	Previous version of template used; out-of-date contact details
IV-XII	Descriptive limits of XII missing
V	Previous version of template used Has contingency plan been exercised since agreement signed?
VI	Has contingency plan with V been exercised?

VIII	Previous version of template
IX	What are contingency plans and have they been exercised?
X	No details/reasons for reduced availability Jul 15, Sep 15 & Jun 16; Previous version of template used
XI	Previous version of template used
XIII	No immediate priority information for 2015; Previous version of template used
XIV	2.4 – why is time increasing? Previous version of template used Effectiveness of MSI training, second course provided in two years?
XV	Previous version of template used with a number of errors No information on average time to transmit ‘immediate priority’ messages Noting the vulnerability of the region to natural disasters, contingency agreement with adjacent NAVAREA needs to be completed as a matter of priority
XVI	Any time frame for getting non-operational NAVTEX stations back in service? Paragraph 4 table not understood, what is the connection with VIII? Paragraph 5 table and statement in last paragraph 13 do not agree, suggest table should be ‘NO’ for ISO9001 until certification is completed. Noting the vulnerability of the region to natural disasters, contingency agreement with adjacent NAVAREA needs to be completed as a matter of priority
XVII-XVIII	Incorrect GMDSS Master Plan version referenced Has only email information been received in 2015? Has contingency plan with IV been exercised?
XX-XXI	Previous version of template used What are contingency plans and have they been exercised?

6. The relationship between NAVAREA Coordinators and National coordinators is the foundation for the successful provision of MSI to the wider maritime community, this is only achievable if there is open and regular communication. NAVAREA Coordinators have a vital role as the link between the information providers and the maritime customers. It is evident that time and effort invested in developing the skills and capabilities of National coordinators, after the concentrated Capacity Building MSI course, consolidates and reinforces the knowledge and confidence of the individuals as well as their organizations.

7. Having undertaken an extensive customer survey from April 2013 to March 2014, which highlighted a number of areas on which collectively as well as individually NAVAREA Coordinators could focus to improve the service provide, in addition to the apparent training knowledge gaps of the user community, it is suggested a short survey/questionnaire could be developed to assess the performance/interaction between NAVAREA and National Coordinators. It would seek to highlight where improvements could be made by NAVAREA Coordinators to better engage and develop the knowledge and skills of National coordinators, as well identify areas on which National coordinators could focus to improve the provision of information back to their respective NAVAREA Coordinators. The information would assist chairs of Regional Hydrographic Commissions and Capacity Building Regional Coordinators to identify states in need of additional training effort as well as those not gaining from training already provided. This would allow RHC

chairs' to remind National administrations of their responsibilities under SOLAS as well as to maximize the benefits of any CB training provided.

8. The Sub-Committee is invited to:
 - a. **note** the information provided;
 - b. **consider** amending the title to 'NAVAREA Assessment' to better reflect the objectives and sources of the information provided;
 - c. **develop** a short questionnaire/survey to be sent to National coordinators;
 - d. **encourage** NAVAREA Coordinators and participants to submit reports in a timely fashion well ahead of the meeting dates; and
 - e. **take** any other action as appropriate.

MSI Quality Management Survey

NAVAREA	ISO 9001-2008	Promulgate “In-Force” Bulletins	Promulgate “No-Warning” Messages	Monitor Broadcast in almost real time	Promulgate Immediate Messages within maximum delay period	24/7 contact information provided	Promulgate two scheduled broadcasts	IMO Master Plan updated
I	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
I Baltic Sub-area	Yes	Yes	Yes	Yes	Yes	Yes	Yes ¹ (Navtex)	Yes
II	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
III	No ²	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IV	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
V	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VI	No ³	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VII	No ⁴	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VIII	No ⁵	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IX	No ⁶	Yes	No ⁷	Yes	Yes	Yes	Yes	Yes
X	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XI	No ⁸	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XII	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XIII	No ⁹	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XIV	No ¹⁰	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XV	Yes	Yes	Yes	Yes	No ¹¹	Yes	Yes	Yes

¹ See paragraphs 4 & 5 of NAVAREA Ib Self Assessment (WWNWS8/3/2/Ib)

² See paragraph 5 of NAVAREA III Self Assessment (WWNWS8/3/2/III)

³ See paragraph 5 of NAVAREA VI Self Assessment (WWNWS8/3/2/VI)

⁴ See paragraph 5 of NAVAREA VII Self Assessment (WWNWS8/3/2/VII)

⁵ See paragraph 5 of NAVAREA VIII Self Assessment (WWNWS8/3/2/VIII)

⁶ See paragraph 5 of NAVAREA IX Self Assessment (WWNWS8/3/2/IX)

⁷ See paragraph 5 of NAVAREA IX Self Assessment (WWNWS8/3/2/IX)

⁸ See paragraph 5 of NAVAREA XI Self Assessment (WWNWS8/3/2/XI)

⁹ See paragraph 5 of NAVAREA XIII Self Assessment (WWNWS8/3/2/XIII)

¹⁰ See paragraph 5 of NAVAREA XIV Self Assessment (WWNWS8/3/2/XIV)

¹¹ See paragraph 2 of NAVAREA XV Self Assessment (WWNWS7/3/2/XV)

XVI	No ¹²	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XVII	No ¹³	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XVIII	No ¹⁴	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XIX	No ¹⁵	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XX	No ¹⁶	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XXI	No ¹⁷	Yes	Yes	Yes	Yes	Yes	Yes	Yes

¹² See paragraph 13 of NAVAREA XVI Self Assessment (WVNWS8/3/2/XVI)

¹³ See paragraph 5 of NAVAREA XVII Self Assessment (WVNWS7/3/2/XVII)

¹⁴ See paragraph 5 of NAVAREA XVIII Self Assessment (WVNWS7/3/2/XVIII)

¹⁵ See paragraph 2 of NAVAREA XIX Self Assessment (WVNWS8/3/2/XIX)

¹⁶ See paragraph 2 of NAVAREA XX Self Assessment (WVNWS7/3/2/XX)

¹⁷ See paragraph 2 of NAVAREA XXI Self Assessment (WVNWS7/3/2/XXI)

**WORLD-WIDE NAVIGATIONAL WARNING SERVICE SUB-COMMITTEE
(WWNWS-SC)**

References:

~~IHC Resolution 11/1962, as amended IHC17 Article 6 of the General Regulations,
1st IRCC meeting (Monaco, June 2009)~~

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Terms of Reference

1. Monitor and guide the International Hydrographic Organization (IHO) / International Maritime Organization (IMO) World Wide Navigational Warning Service (WWNWS) which includes NAVAREA, Sub-Area and coastal warnings.
2. Study and propose new methods to enhance the provision of Maritime Safety Information (MSI) to mariners at sea.
3. Facilitate the implementation of any necessary changes in procedures for disseminating MSI which are required by the Global Maritime Distress and Safety Systems (GMDSS), or systems that supersede the GMDSS, adopted by the IMO.
4. Provide appropriate guidance to concerned IHO Member State Representatives to further the evolution of the WWNWS with respect to the full implementation of the GMDSS to include attendance at the Conferences of the Regional Hydrographic Commissions and to develop and monitor standards for watch stander training.
5. Encourage the development of bilateral or multi-lateral arrangements between NAVAREA, Sub-Area and National Co-ordinators in the provision of MSI.
6. Prepare and review the various guidance documents for the WWNWS and evaluate any proposed amendments on behalf of the IHO Member States prior to formal World Meteorological Organization (WMO) and IMO consideration and approval. WWNWS-SC should submit proposed revisions directly to the IMO Sub-Committee on Navigation, Communications, and Search and Rescue (NCSR) in accordance with the deadlines set down by the NCSR and IMO Secretariat.
7. Cooperate with other international organizations concerned with improving the global standards for disseminating Maritime Safety Information (MSI), namely IMO, World Meteorological Organization (WMO) and International Mobile Satellite Organization (IMSO).
8. Liaise with the Capacity Building Sub-Committee (CBSC) and the CB Regional Coordinators for the delivery of training courses aimed at improving Navigational Warning Services.
9. The WWNWS-SC should liaise with other IHO bodies, international organizations and industry in the conduct of its work.
10. ~~These Terms of Reference can be amended in accordance with Resolution 11/1962, as amended Article 6 of the General Regulations (Resolution 11/1962 to be replaced by Article 6 of the General Regulations when the revised text of the IHO Convention enters into force).~~

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Up dated: ~~4 October 2013~~ 16 September 2016

Rules of Procedure

1. The Sub-Committee is composed of the NAVAREA Co-ordinators¹ ~~and~~ Sub-Area Co-ordinators¹ ~~and~~ IHO Member States. ~~In other than those represented by~~ a NAVAREA or Sub-Area Co-ordinators' absence, ~~they~~ may nominate ~~their~~ representative to attend the meeting on their behalf. Normally this would be one of their National Co-ordinators¹. Representatives of the IMO, WMO, IMSO and the ~~IHO Secretariat~~ International Hydrographic Bureau (IHB) (~~the International Hydrographic Bureau (IHB)~~ to be replaced by "~~the IHO Secretariat~~" when the Secretariat is established) participate in an Ex-Officio capacity without voting rights. The Sub-Committee ~~members, through the Chair,~~ may invite ~~recognized~~ Observers² and other suitably qualified individuals, as Expert Contributors, to participate in ~~its~~ specific activities as deemed appropriate, but without voting rights.

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2. The Chair and Vice-Chair shall each be a representative of a Member State and shall be determined by vote of the Member States participating in the Sub-Committee at the first meeting after each ordinary session of the ~~Assembly International Hydrographic Conference~~ ("~~International Hydrographic Conference~~" to be replaced by "~~Assembly~~" when the Assembly is established). Article 6 of the General Regulations ~~Resolution 11/1962, as amended~~ (~~Resolution 11/1962 to be replaced by Article 6 of the General Regulations when the revised text of the IHO Convention enters into force~~) International Hydrographic Conference ("~~International Hydrographic Conference~~" to be replaced by "~~Assembly~~" when the Assembly is established). ~~IHO Resolution 11/1962, as amended~~ (~~Resolution 11/1962 to be replaced by Article 6 of the General Regulations when the revised text of the IHO Convention enters into force~~) shall govern the length of tenure. The Sub-Committee shall have a Secretary, nominated by the ~~Secretariat Directing Committee of the International Hydrographic Bureau~~ ("~~the Directing Committee of the International Hydrographic Bureau~~" to be replaced by "~~the Secretariat~~" when the Secretariat is established) ~~Directing Committee of the International Hydrographic Bureau~~ ("~~the Directing Committee of the International Hydrographic Bureau~~" to be replaced by "~~the Secretariat~~" when the Secretariat is established). If the Chair is unable to carry out the duties of the office, the Vice-Chair shall act as the Chair with the same powers and duties.

3. The Chair shall have a seat in the Inter Regional Co-ordination Committee (IRCC) and shall report on the activities of the Sub-Committee to the IRCC Chair for further report to each ordinary session of the ~~Assembly through the Council International Hydrographic Conference~~ ("~~each ordinary session of the International Hydrographic Conference~~" to be replaced by "~~each ordinary session of the Assembly through the Council~~" when the Council and Assembly are established). ~~International Hydrographic Conference~~ ("~~each ordinary session of the International Hydrographic Conference~~" to be replaced by "~~each ordinary session of the Assembly through the Council~~" when the Council and Assembly are established).

4. The Sub-Committee shall have its permanent secretariat at the ~~Secretariat International Hydrographic Bureau~~ ("~~the International Hydrographic Bureau~~" to be replaced by "~~the Secretariat~~" when the Secretariat is established) ~~International Hydrographic Bureau~~ ("~~the International Hydrographic Bureau~~" to be replaced by "~~the Secretariat~~" when the Secretariat is established). The Sub-Committee Secretariat shall provide the secretarial and administrative support needed to gather, hold and disseminate information on behalf of the Sub-Committee.

¹ As defined in the IMO/IHO World-Wide Navigational Warning Service Guidance Document - IMO resolution A.706(17) as amended.

² Recognized IHO Observer organizations are listed on the IHO website.

The Secretary shall provide a summary of the Sub-Committee's activities to be included in the IHO Annual Report.

5. The Sub-Committee shall normally hold a meeting every year in early September, whenever possible in conjunction with another related conference or meeting. The venue and date of the meeting shall be decided at the previous meeting, in order to facilitate participants' travel arrangements. The Chair or any appointed member, as considered necessary, with the agreement of the simple majority of all members of the Sub-Committee, can call extraordinary meetings.

6. Confirmation of venue and date shall normally be announced at least six months in advance. All intending participants shall inform the Chair and Secretary ideally no later than one month in advance of their intention to attend meetings of the Sub-Committee.

7. Members are expected to attend every meeting of the Sub-Committee. Members who are not able to attend a meeting should appoint a proxy or send a written contribution on relevant items of the agenda to the Chair and Secretary, prior to the meeting.

8. Between meetings, the Sub-Committee business will be progressed by correspondence. E-mail will be the normal method of communication. Papers and information material will be posted on the Sub-Committee's section of the IHO web-site.

9. Decisions should generally be made by consensus. If votes are required, decisions shall be taken by simple majority of Members of the Sub-Committee present and voting. When dealing with matters by correspondence, a simple majority of all Members of the Sub-Committee shall be required.

10. Recommendations of a Sub-Committee shall be submitted to its Committee for consideration. Due to the requirement for the WWNWS-SC to provide timely input to the IMO Sub-Committee on Navigation, Communications and Search and Rescue (NCSR), the meetings of which are held annually in the period January to March, the Sub-Committee may submit proposals, by International Hydrographic Organization CL, directly to Member States for approval prior to submission to IMO.

11. The draft minutes of meetings shall normally be distributed by the Secretary within six weeks of the end of meetings and member comments should be returned within three weeks. Final minutes should be distributed and posted on the IHO website within three months after a meeting.

12. The working language of the Sub-Committee shall be English.

13. These Rules of Procedure can be amended in accordance with [Article 6 of the General Regulations Resolution 11/1962, as amended \(~~Resolution 11/1962 to be replaced by Article 6 of the General Regulations when the revised text of the IHO Convention enters into force~~\)](#) Resolution 11/1962, as amended (~~Resolution 11/1962 to be replaced by Article 6 of the General Regulations when the revised text of the IHO Convention enters into force~~).

Up dated: ~~4 October 2013~~ [16 September 2016](#)

WWNWS8
LIST OF KEY MEETINGS – 2016-2017

Organization	Meeting	Location	Dates
IMSO	Assembly24	London	15-17 November 2016
IMO	MSC97	London	21-25 November 2016
IMO	NCSR4	London	6-10 March 2017
IHO	DRWG15	London	14-16 March 2017
IMO	MSC98	London	7-16 June 2017
IMO	IMO-ITU EG13	London	10-14 July 2017
IHO	WWNWS9	Cape Town	28 August – 1 September 2017

Justifications for broadcasting MSI:

- Free at point of delivery
- Knowing who to get the information from – varied authorities within each NAVAREA
- Automatic reception
- Automatic suppression of messages already received- administrative burden on the ship
- All ships receive the same message at the same time
- Prioritised delivery
- Alarms and notifications
- Shore side web site availability
- Lack of ship internet capability
- Standardised shipboard systems reduce training and error
- Flexible addressing
- Shore side web site design (English?)
- Scheduled broadcast is made at regular intervals (twice a day)
- How do ships know that there is urgent information to go and get using a "pull" system?
- Frequency of updating web sites - to be standardised
- Capacity issues (point to point transmission or web site hits)