## 9<sup>th</sup> MEETNG of the IHO SUB-COMMITTEE ON THE WORLD-WIDE NAVIGATIONAL WARNING SERVICE (WWNWS) Cape Town, South Africa 28 August – 1 September 2017

#### **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 Commander Christoff Theunissen, acting Hydrographer of South Africa, who provided a background brief on the organization and the provision of MSI services within NAVAREA VII and South African waters.

The Chair then provided his introduction, which included a thank you for the South African Hydrographic Service for hosting the meeting, particularly the efforts of Ms. Ruth Farre for all her efforts in the excellent arrangements and facilities. 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 within the WWNWS services, but also for the input from their individual NAVAREAs. He noted a number of challenges which need to be addressed in the near future and the importance of this service provided to the maritime customers. He noted the role of developing coastal states' capabilities.

The Chair noted that, as this was the first meeting after the IHO Assembly, there was a need for elections of the Chair and vice-Chair.

On completion all participants introduced themselves, see Annex B for a list of participants.

## 1.2 Welcome by the International Hydrographic Organization Secretariat

Secretary provided a welcome and comments from the IHO Secretariat, highlighting the importance of focusing on the provision of safety services to the maritime community, which should always be considered above regional or local politics and inter-national differences. The Chair highlighted a number of issues, including the reputation of the WWNWS-SC, and how important maintaining this should be to all participants.

## 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 WWNWS9 followed by the Agenda Item (AI) number.

#### 1.4 Administrative Arrangements

IHO 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 WWNWS9 are listed at Annex C.

#### 1.6 Review of Action Items from WWNWS7

The Action List from WWNWS8 was addressed. It was noted that a significant number of items were included in the meeting agenda.

# 1.7 Report from the 9<sup>th</sup> meeting of the Inter-Regional Co-ordination Committee (IRCC9)

The Chair provided an up-date brief on the WWNWS-SC report to the IRCC9.

#### 2 MATTERS RELATING TO THE GMDSS MASTER PLAN

## 2.1 IHO Update

IHO provided a brief update on the main activities of the IHO since the last meeting, which included the approval of the Protocol of Amendments to the IHO Convention, which came into force on 8 November 2016, the first meeting of the IHO Assembly and the results of the elections for the Secretary-General and Director. He noted the first session of the new IHO Council would take place 17 to 19 October in Monaco and the HSSC9 would take place in Ottawa in November and then HSSC10 would be in Rostock, Germany, 14 to 18 May 2018 to align with future Council meetings annually in October. The main focuses of the IHO were highlighted as S-100, Capacity Building and efforts to improve the world bathymetric coverage via a number of initiatives including Satellite Derived Bathymetry, GEBCO Seabed 2030 and Crowdsourced Bathymetry.

#### 2.2 IMO Update

No report received.

#### 2.3 Report of International Mobile Satellite Organization (IMSO)

The Director General of IMSO provided an overview and update on IMSO activities, covering the Iridium and Inmarsat systems recognition processes, briefly the LRIT system and the development of a new website for the SafetyNET Coordinating Panel. He posed a number of questions which he suggested the meeting may need to consider. The Chair sort clarification on the timeline indicated for the Iridium acceptance as a recognised mobile satellite service provider of the GMDSS, including the terminal performance and test standards, which appeared to not have taken the operational assessment process into account. The Chair highlighted the need for operational testing prior submission of final application to IMO. This was endorsed by all WWNWS members in attendance,

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

The Chair went through the document submitted by NAVAREA XV as an example. The Chair noted in future updating will be via GISIS, currently either self update or provided via SafetyNET and NAVTEX Coordinating Panel chairs. The NAVTEX Coordinating Panel Chair highlighted that positions should be for the antenna position not a remote station/office location. The Chair noted the need to validate Master Plan SafetyNET information provided by NAVAREA XV for Annex 8. **Action XV/Chair** NAVTEX Coordinating Panel Chair noted the need to update Annex 1 when updating other annexes, NAVAREA Coordinators should remind national coordinators; he also noted the need to compare information provided in C-55 and GMDSS Master Plan to ensure the information was harmonization, national coordinators should be encouraged to cross-check both. **Action All** 

## 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

IHO gave a brief review on the significant outcomes of MSC97, NCSR4, MSC98 and the IMO-ITU EG13 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 approval of the Modernization Plan of the GMDSS, 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.

The question was asked on how WWNWS-SC will be represented in IMO-IHO Harmonization Group on Data Modelling (HGDM), it was noted that S-124CG chair was present at IALA-IHO coordination meeting (17-18 July 2017); he considered that the HGDM was addressing much more general overarching concepts. The increasing challenge of attending meetings was highlighted. The Chair noted the need to consider making requests to organizations to represent MSI providers at meetings; WMO suggested sending invitation to individuals as well as organizations. The Chair encouraged all participants to engage with these meetings and any relevant Correspondence Groups to ensure the concerns and views of the NAVAREA Coordinators were recognised during the development phase rather than trying to alter items later in the process. **Action 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.

NAVAREA I - provided overview of activities, the Chair thanked him for his support at meetings and training activities. The Chair noted increasing number of requests received for in-force warnings lists via email, a significant burden on Coordinators. He identified a need to develop a generic note for inclusion on email requests for MSI. **Action Chair** 

NAVAREA Ib - provided overview of activities, he highlighted the Danish web based facility. The NAVTEX Coordinating Panel Chair indicated he had commenced

discussions with Italy on night time interference to resolve issue highlighted in the report. NAVAREA Ib sought more information on use of DSC for provision of MSI, XVII\_XVIII highlighted she was investigating with ITU on the use of DSC for alert calling and for what it can be used, due to comments from mariners on interference and overuse. The Chair noted NAVAREA Ib had been participating since before 2000 and this was final meeting.

NAVAREA II - highlighted the challenges of the NAVAREA and the coastal states within the region. He highlighted lack of MSI being provided by a number of coastal states despite significant training effort directed by IHO CBSC and SHOM. He noted a number of ships transiting through the Gulf of Guinea were not reporting piracy incidents, possibly due to lack of understanding of procedures or a wish to deal with incidents rather than provide statistics. He highlighted the development of an online MSI course in French for use within NAVAREA II; he noted it could be used as precourse learning and as a filter for selecting appropriate students. He did not consider it was a replacement to the current MSI Course delivered by the WWNWS. The Chair thanked him for his involvement and engagement over the years both during meetings as well support on training courses.

NAVAREA III - highlighted issues with NAVTEX service areas in the Eastern Mediterranean. Due to the lack of agreement for the delimitation of NAVTEX service areas in the region, there is no proper coordination in the International NAVTEX service. This situation results in the NAVAREA III Coordinator having to evaluate all information received to broadcast, when appropriate, the corresponding NAVAREA III Warning in the area via SafetyNET to guarantee the safety of navigation. He noted that he is aware that MSI information is not being passed from Turkey to the Greek Coordinator or the Cypriot Coordinator, as it should be per the NAVTEX Manual, if the International NAVTEX service was properly coordinated between Greece and Turkey and between Cyprus and Turkey. Moreover, this NAVAREA III Coordinator considers the resolution in the letter from the NAVTEX Panel dated 26th March 2009, stating that service areas proposed by Greece to IMO in Note COM 31/5/4 and the agreement in the Monaco meeting of 2006 should remain in force.

In addition he noted that NAVTEX messages issued from Turkey were being counted by Greece claiming the message was issued by an unauthorized station. Turkey made statement included as Annex G on NAVTEX service issues. Greece made a statement included as Annex F; Cyprus made a statement included as Annex E. When asked by the Chair, Turkey agreed to try and achieve a way to coordinate transmissions of NAVTEX information with other states to ensure conflicting messages and activities are not transmitted. The Chair asked regional NAVTEX providers to pass MSI information between each other to ensure all stations could transmit the same information. Graphics were displayed indicating proposed NAVTEX service areas for the region, by Turkey and Cyprus. Greece stated that there was no need to discuss or propose NAVTEX service areas in the region since the issue has been resolved. Moreover Greece stressed that there is no technical or operational reason for starting discussions to amend the existing and approved service areas by the IMO and IHO; therefore, Greece did not accept the Turkish graphic.

The NAVTEX Coordinating Panel Chair provided background on the general process for the establishment of stations and services areas. Greece highlighted that the vast majority of the NAVTEX transmissions from Turkey fall within the established Greek service areas. Turkey suggested possibly one or two messages may have been outside

of their proposed service areas, and agreed it would not happen in the future. The Chair suggested to keep at least within the proposed service areas and to pass information to other coastal states for transmission if outside that area; if it was within the overlap areas there was a need to ensure information was passed to the other relevant coastal state so it could promulgate information as well. Greece did not accept the term 'overlap areas' used, as there are agreed service areas in the region - versus new proposals.

The Chair required all states to stop misusing the NAVTEX system and B1 characters, which included such incidents as political message content and cancelling of NAVTEX messages transmitted by other states. The Chair noted the inappropriate use of NAVTEX services was a disservice to the mariner. **Action CYP/GRC/TUR** The Chair suggested Cyprus, Greece and Turkey individually provide information to the IMO to request and support the validation of their individual service areas for consideration and subsequent decision. Greece did not consent with Chair's proposal, as they stated the Greece NAVTEX Service Areas have already been validated and recognized by the competent bodies of IMO and IHO. The Chair subsequently consulted with the IMO Secretariat on this issue.

The IMO Secretariat provided the following guidance:

- a. Cyprus, Greece and Turkey should submit details of their claimed or proposed NAVTEX Service areas, along with all supporting/validating documentation, directly to NCSR5 for consideration and a subsequent decision;
- b. If no submissions are received then NSCR5 will invite these states to make submissions to NCSR6, whilst at the same time recommending that no further discussion on the issue is undertaken at subsequent WWNWS-SC meetings until NCSR has received the requested information and been able to make a final decision;
- c. If considered necessary, the advice of the Chair of the IMO NAVTEX Coordinating Panel should be sought for clarification on any technical aspects. **Action CYP/GRC/TUR**

The NAVTEX Coordinating Panel Chair highlighted some issues with the proposals that would not be acceptable to IMO, he urged all to consider their proposals and for them to ensure all technical issues were taken into account prior to any submission. The Chair asked NAVAREA III to initiate bi-lateral discussions between the relevant coastal states on information provision by Cyprus, Greece and Turkey, in order to ensure all broadcasts were coordinated, to guarantee conflicting messages were not promulgated and that they worked together to coordinate message traffic and ensure all were aware of activities impacting on each other and the mariners transiting the area. **Action NAVAREA III/CYP/GRC/TUR** The Chair asked all states involved to respect the authority of the NAVAREA III Coordinator to coordinate MSI provision within NAVAREA and to work together to resolve the issues. **Action NAVAREA III/CYP/GRC/TUR** 

NAVAREA IV\_XII - highlighted their web based service, which is currently undergoing trials; the questioned was asked whether monitoring of the content of the website was in place, it was agreed there was a needed for this to be considered.

NAVAREA V - highlighted contingency plan in place with NAVAREA VI and the results of an exercise conducted. The Chair highlighted the email subscription service established as an example method for others to consider.

NAVAREA VI - highlighted NAVTEX station at La Paloma, Uruguay, was non-operational. He highlighted the challenge of receiving MSI from external organizations when the position is not within the area of that organization and therefore they were not passing it to the relevant authority. The Chair highlighted the requirement was detailed in the Joint IMO/IHO/WMO Manual on MSI and that it was a major responsibility to ensure MSI is passed to the correct authority.

NAVAREA VII - highlighted MSI for Namibia being transmitted by NAVAREA VII whilst NAVTEX transmitter off air. He highlighted the contingency plan with NAVAREA II had been put into action due to the loss of connectivity with the LES, he noted it highlighted the need to actually practice contingency plans at least once per year; the Chair requested all to exercise their contingency plans at least once per year and that details of exercises were to be reported in Self Assessment report. Action IHO/All He highlighted the significant CB efforts within the region which were led by NAVAREA VII. He noted the lack of MSI being received from national authorities, particularly from Angola. The Chair suggested a generic letter be developed for NAVAREA Coordinators to send to national authorities to highlight the lack of provision of MSI and their roles and responsibilities under SOLAS. Action Chair The Chair agreed to provide contact details for Angola to NAVAREA VII to facilitate engagement. Action Chair NAVTEX Coordinating Panel Chair noted the Seychelles had an operational NAVTEX station, hence no SafetyNET information needed to be passed to NAVAREA VII.

NAVAREA VIII - highlighted that all 7 newly commissioned NAVTEX stations along the Indian Coast are transmitting on trails basis.

NAVAREA IX: highlighted their active role in promulgation of piracy alerts. He noted the new website and NAVTEX stations operating in the region. Oman provided details of progress on the installation of two new stations and confirmed MSI was being sent to NAVAREA IX Coordinator for transmission via SafetyNET, it was agreed a receipt email would be sent to confirm reception of information, receipt of MSI from Oman was confirmed and reflected in a revision to the report. It was confirmed a contingency plan was being developed with NAVAREA III and intend to exercise the plan.

NAVAREA X - highlighted that AHO no longer issue annual summary of Notice to Mariners (NtM). He highlighted CB activities and progress with the development of Papua New Guinea (PNG) GMDSS capability, he anticipated full capability should be achieved and full operational certificate requested from SafetyNET Coordinating Panel before WWNWS10. He noted the request for the issue of warnings for operation of autonomous vessels in a designated area off the coast. The Chair highlighted the number of messages sent and asked if a breakdown of number of navigational and other types of messages could be provided; suggested historical figures were around 400-500 per year. The Chair noted PNG had not made any contact with SafetyNET Coordinating Panel and noted a future anticipation that PNG would be an active participant in WWNWS-SC.

NAVAREA XI - highlighted the non-operational NAVTEX station J in Philippines. He highlighted not receiving MSI from some of coastal states within region often because multiple national agencies are involved with issuing MSI. He noted the need to investigate whether MSI is being generated by coastal states and to whom it is being transmitted and how, he considered it may be lack of communications to NAVAREA XI Coordinator and understanding the need to have wider dissemination beyond own national waters. **Action XI** The Chair highlighted the significant number of unannounced rocket firings by the DPRK and the grave concern over these operations, which pose a serious threat to maritime safety. The Chair noted the actions taken by NAVAREA XI to warn mariners after these rocket firings have occurred.

NAVAREA XIII - highlighted new contact details for updating of published information on IHO website. **Action IHO** 

NAVAREA XIV - highlighted change of responsibility for MSI from LINZ to RCCNZ. He noted contact details of all coastal states within region had been checked during the process of informing them of the changeover. The Chair highlighted the background processes which took place prior to the transfer of responsibility. The Chair also highlighted the need to ensure training material is up to date and consistent with latest material in use. NAVAREA XIV provided a live demonstration of the systems in use for assessing and processing information by operations room personnel to help decision making and the issuing of warnings.

NAVAREA XV - Chair introduced report. Subsequently the NAVAREA Coordinator provided an update on discussions held during recent SEPRHC to create a four nation contingency plan, initially to cover Tsunami warnings and then for MSI. The Chair and XVI welcomed the development. The Chair offered the support of NAVAREA IV and XII to both, if required, in the event of a total loss of capabilities in both NAVAREA XV and XVI.

NAVAREA XVI - highlighted split responsibility between the Hydrographic Office and the Coastal Administration. He noted all NAVTEX stations were non-operational. NAVAREA IV\_XII offered to provide cover in a formal contingency plan, which would be investigated after further discussions with NAVAREA XV. **Action XVI/IV XII** 

NAVAREA XVII\_XVIII - highlighted joint NAV/MET customer survey. She provided a live demonstration of a new web based NAV warning system. The Chair S-124CG suggested all organizations developing web based systems could engage with each other to share experiences and lessons learnt. **Action Chair S-124CG/All** 

NAVAREA XIX - asked when transition from rectangular addressing to Navarea limits addressing for Arctic areas would be available. The Chair suggested waiting until Iridium became operational. The Chair suggested transmitting test messages requesting vessels report position of receipt to evaluate limit of Inmarsat coverage in high latitudes. **Action XVII\_XVIII/XIX/XX\_XXI** 

NAVAREA XX\_XXI - The Chair questioned the age of equipment indicated as in use, he requested confirmation of the information. **Action XX\_XXI** He noted additional NAVTEX stations to be installed to cover northern Arctic route.

National Report:

China provided a brief report on national activities and capabilities. China confirmed information was available from the Maritime Safety Agency website in English including all warning messages.

## 3.2.1 Quality Management Analysis of Self Assessments

IHO provided an analysis of the Self Assessment reports and highlighted some of the significant issues identified. Chair asked feedback on comments identified be provided to him. **Action All** The Chair provided a brief on the contents of the NAVAREA IV presentation report to the MACHC. He agreed to provide it as an example for use at RHC meetings. **Action Chair/IHO** 

WMO conducted METAREA Assessments in 2016 and reported on these in February 2017 at ETMSS-5 in Finland. The outcomes are being monitored by the WWMIWS Committee Chair. The 2016 Self Assessment was administered through an online form, rather than word document, positive feedback was received. Plan to conduct next Self Assessments in 2018 prior to the proposed joint session.

## 3.3 Broadcast Systems and Services

## 3.3.1.1 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 thanked the work and efforts of the NAVTEX Coordinating Panel Chair for all his work, he also highlighted the most recent version of the GMDSS Master Plan issued in May and asked all Coordinators to check and confirm the details contained, particularly the non-operational stations. **Action All** 

## 3.3.2.1 Report of the IMO SafetyNET Coordinating Panel

The Chair provided a comprehensive brief on the activities of the International SafetyNET Coordinating Panel, which included background information and details of documentation and current activities. 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.

NAVAREA II highlighted some NAVAREAs are only authorized to disseminate Navigational Warnings via SafetyNET, which caused an issue when activating contingency plans for another NAVAREA which may have the authority to promulgate Met Warnings. The Chair noted that the issue had been experienced and discussion with Inmarsat, which will allow this as necessary for the period required. IMSO highlighted the on-going development of the SafetyNET website, the Chair acknowledged that the content and what documents should be made available had not been fully considered.

## WMO noted that WMO METAREA Schedule is available at:

 $\frac{http://www.wmo.int/pages/prog/www/ois/Operational\_Information/VolumeD/GMDSS/Satell\_iteSystemsCommunication/GMDSS/TransmissionSchedule\_FullGMDSS.pdf$ 

The Chair provided a briefing on the *M/V JESSIKA* incident off the coast of Panama in November 2016. He highlighted a number of significant issues for consideration by NAVAREA Coordinators.

## 3.3.2.2 Report from NTSB – El Faro

WMO noted that USA is currently working on the domestic meteorological service related recommendations. WMO noted the potential change in user requirement for updates of warnings from 6 hourly to 3 hourly on SafetyNET. WMO feels that there is limited evidence that this is a universal requirement. WMO 558 outlines that Tropical Cyclone/Hurricane/Typhoon warnings include a current position plus a future position at next 12 and 24 hour intervals, including the radius of gale force winds. Expectation is that ships are informed of the scale of these weather systems and take early action to avoid the area affected. WMO will seek additional feedback from industry internationally to validate the stated requirement and provide details at the next WWNWS-SC meeting. **Action WMO** 

## 3.3.3.1 WMO Liaison Report

WMO provided an update on recent programme activities. WMO provided additional information to the written report. He particular highlighted the enthusiasm to hold a joint session in Monaco in 2018. He also noted that WMO would work with WWNWS-SC and IHO/IMO to progress the numerous tasks which impact across the three organizations.

## 3.3.3.2 NAVAREA/METAREA Customer Survey

NAVAREA XVII\_XVIII provided a comprehensive brief on the customer survey conducted for NAVAREA XVII\_XVIII and Hudson Bay METAREA IV. Turkey asked on the use of the internet for receipt of MSI; the Chair highlighted that the Modernization Plan of the GMDSS had noted the internet would remain a complementary capability and not a recognized primary means for dissemination of MSI.

## 3.3.4 Contingency Planning

Although comprehensively covered in the Self Assessment reports, 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 least on a yearly basis. 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.

## 3.4 Developments in the WWNWS

## 3.4.1 Inmarsat-C EGC SafetyNET Report

Inmarsat provided a comprehensive presentation on EGC SafetyNET services and current activities. The Chair asked on the number of terminals in use, Inmarsat indicated there were approximately 160,000 terminals in use; the Chair also asked on the number of terminals which can and cannot be up-graded to allow NAVAREA addressing from the current rectangular addressing in the Arctic areas. He also asked if Inmarsat wanted additional NAVAREAs to participate in the SafetyNET II testing, Inmarsat noted that the service would be commercially launched at the end of 2017. The Chair asked Inmarsat to investigate the ability to allow NAVAREAs to transmit MET messages when exercising contingency plans. Chair asked Inmarsat to provide a demonstration of the SafetyNET II at the DRWG16 meeting in 2018. **Action Inmarsat** Inmarsat noted interoperability discussion was at an early phase, she noted that Inmarsat was open to work with Iridium to provide solutions to

ensure the best service would be provided to the mariner through all mobile satellite service providers of the GMDSS. She noted the coverage gaps for I4 satellites compared with I3 satellites were under review for an appropriate solution to be created. The Chair requested Inmarsat to determine the number of terminals which can and cannot be up-graded to allow NAVAREA addressing from the current rectangular addressing in the Arctic areas. **Action Inmarsat** 

WMO highlighted the comment in WWNWS9/3/4/1/1, paragraph 56:

56. SafetyNET II offers MSI providers and SAR services a new method for generating and submitting their messages directly to the Inmarsat-C NCSs and Inmarsat FleetBroadband Satellite Access Stations (SASs) over the internet using a user-friendly interactive Graphical User Interface (GUI).

The WMO noted this was not a main requirement for Met Services, which need machine to machine capabilities; he noted that a webpage interface would be acceptable as a backup facility. The WMO observed with respect to SafetyNET II that they were unsure whether IMSO were aware that SafetyNET II did not meet METAREA requirements and that discussions were being held between WMO and Inmarsat to find a solution.

WMO noted that it had been engaged with Inmarsat on the new system for the last 12 months. The WMO have provided Inmarsat with the functional requirements for Met MSI products, it is possible that some NAVAREA Coordinators may have the same requirements. He particularly highlighted the requirement to send the message directly (machine to machine) to Inmarsat's servers (similar to the current method for the LES). At present, it appears the system only accepts MSI messages entered through the SafetyNET II web; this is not operationally satisfactory for Met agencies, and possibly, some NAVAREA Coordinators. The WMO suggested that if both the WWNWS and WWMIWS desired this capability, it may be appropriate to discuss this further prior to any approach to Inmarsat.

## **3.4.2 S-124 Progress**

Chair S-124CG provided a comprehensive presentation covering the background, activities, progress and future tasks for the development of the S-124 Product Specification. The Chair asked for clarification on the message delivery and promulgation procedures. It was noted that the model is designed for use for Navigational Warnings, however it could also be used for Ts&Ps NtM, which is out of the scope of the WWNWS-SC. : It was highlighted that the S-124 PS is for Navigational Warnings and is a data standard and format not a system. System and service are to be designed beyond the S-124 development. S-124CG Chair also provided information on some of the outcomes of IMO and IHO/IALA meetings. He noted that technical services for S-124 data delivery from the coordinator system and portrayal of Navigational Warnings are future tasks of the S-124CG. The S-124CG Chair noted he was no longer available to lead the CG and he requested a replacement be nominated. The Chair thanked him for all his efforts and the work he has achieved. The Chair asked IHO to investigate whether a suitable replacement can be identified and for the S-124SC Chair to highlight the issue to HSSC9. Action IHO/S-124CG Chair This generated numerous questions and a wide ranging discussion on future service provision and how the period of dual system operation will be undertaken.

The WMO noted the comment in the HSSC section related to the likelihood that current GMDSS technology will not be suitable to transmit S-100 content through it. This is a welcome observation as it could have increased costs through SafetyNET. It is understood

the internet will be the main option and the S-100 will be available as a complimentary service to the MSI text service, but may not be available to all ships if they do not have good internet access.

"HSSC

S-124 progress was reported at HSSC8 (HSSC8-07.1B INF2) (Nov 2016). The report stated that "the current NAVTEX, SafetyNET and AIS will not be able to convey NWs in S-124 and, therefore, S-124 NWs should be distributed by new communication systems (NAVDAT, VDES, ...) identified in the modernization plan of the GMDSS under development"."

WMO provided an update on S-412 development. USA will be participating in the IMO/IHO HGDM in October 2017 at IMO, London. It is considered this will be a key meeting for S-100 Product displays on vessels.

Australia METAREA Coordinator and NAVAREA Coordinator are to commence participation in a trial to disseminate MSI text forecasts onto the Asia/Pacific Maritime Cloud testbed that is being setup by South Korea. Some initial message formatting work has been carried out.

## 3.5 Emerging Technologies

## 3.5.1 Iridium Satellite System

Iridium provided a comprehensive presentation on the progress of development of GMDSS services. NAVAREA X highlighted the desire for operators to generate single messages rather than one for each provider service. This concept was supported by all. Iridium highlighted the desire of both companies to create a single terminal and receiver. Concerns were raised over the potential rise in costs for NAVAREA Coordinators. Questions were asked on how the requirement to monitor broadcasts by NAVAREA Coordinator will be implemented as monitoring of MSI is a critical requirement of a NAVAREA Coordinators duties

## 3.5.2 Interoperability

The Chair noted there was a need to identify what was meant by interoperability and how it could work. NAVAREA X noted that as a NAVAREA Coordinator, it was his responsibility to ensure his Warning Messages were provided to the recognised mobile satellite service providers of the GMDSS. Concern was raised on how the information would be uploaded by the service providers and how NAVAREA Coordinators would monitor the delivery/receipt of the messages. Inmarsat and Iridium noted they were at very early stages of discussions and that the NAVAREA Coordinators had yet to define what they wanted. IMSO provided details of the considerations discussed at the recent IMO-ITU EG13 meeting and the issue that a single point of distribution would not necessarily reduce costs but could reduce workloads and opportunities for human errors. IHO and IMSO highlighted the need to consider a multiprovider environment. The Chair noted there remained a considerable number of issues which need to be addressed and resolved. The Chair suggested the need to establish a CG on Interoperability of members of the WWNWS-SC to address the issues and concerns which are being articulated over the recognition of new mobile satellite service providers. The Chair asked for those who wish to be involved; ZAR, CAN, NZL, ARG, NOR SWE, USA, AUS, ESP, FRA and JPN volunteered with the USA as the initial coordinator; he also asked that WMO and IMSO be kept informed of discussions. The Chair indicated the initial tasks should be the drawing up of draft ToRs, methods and frequency of meetings and initial definition and understanding of interoperability to be reported to the DRWG16; he invited Inmarsat and

Iridium to engage with the CG to provide technical input. IMSO, Inmarsat and Iridium confirmed their willingness to be actively involved. **Action USA** 

#### 4 REVIEW OF GUIDANCE DOCUMENTS

The Chairman noted that the 15<sup>th</sup> meeting of the Document Review Working Group was held at IMO Headquarters the week following NCSR4 in 2017. He intended to convene the 16<sup>th</sup> meeting following NSCR5 at IMO Headquarters in London from 27 February - 1 March 2017 and he asked the Secretary to make the necessary arrangements with IMO. Chair provided a background brief on the document review process

## 4.1 Document Review Status Report

The Chair briefed on the actions resulting from the DRWG15 meeting, which was followed by an update on the state of the MSI documentation. It was noted that IMO CL 3758 contained a number of new definitions, which need to be reflected in the MSI documentation.

The WMO provided feedback on some of their actions from the DRWG15:

- 2a WMO noted this was been addressed and in progress, it was highlighted a restructuring of services SFSPA will be reviewed at JCOMM-5. There is a new WWMIWS Committee and Vice Chairs. Also NOAA will be represented at the IMO-IHO HGDM; the individual has been engaged with Inmarsat and Iridium during 2016 and 2017.
- 2b WMO noted they would support a joint paper to NCSR-5 in 2018.
- 2c WMO noted this will happen as part of A.1051(27) update.
- 2d WMO are keen to support joint sessions at the next WWNWS-SC meeting in 2018.
- WMO plan to revise A.1051(27) by end of 2017, he noted they had just completed the WMO 558 update for submission at JCOMM-5.
- 4 WMO noted they have login to the IMO GISIS website.

## 4.2/4.3 IMO Resolutions A705(170 and A.706(17), as amended

The Secretary to the DRWG and the Chair went through the documents, highlighting the proposed amendments and changes developed at the DRWG15, taking note of changes and amendments recently approval at MSC98 as published in IMO CL3758. The Chair asked the WMO to ensure the revised definitions are transferred to A.1051(27) during the revision process. **Action WMO** 

NAVAREA XI provided details on recent unannounced missile firings within the region, which constituted a hazard to shipping and the safety of navigation. It was noted these events were conducted without prior warning or appropriate notification in accordance with the requirements of A.706(17). The WWNWS-SC unanimously approved the Chair should raise this concern to the S-G IMO and in his report to the NCSR5. **Action Chair** 

WMO plan to revise A.1051(27) by end of 2017. The WMO noted it had just completed the WMO 558 update for submission at JCOMM-5.

The Chair suggested additional examples of messages covering virtual aids to navigation should be included in the IMO/IHO/WMO Joint Manual on MSI. Action NAVAREA X

#### 4.13 Iridium Manual

Iridium went through the initial draft version of the Iridium manual; a number of comments were noted for consideration during the further development of the manual. The Chair asked the WMO to provide an updated version of the METAREA graphic to reflect the change of responsibility for METAREA XVI. **Action WMO** The Chair requested all to provide feedback, for consideration at DRWG16, to the Chair, Secretary DRWG and IHO on the draft Iridium EGC Manual, which will be available from the IHO website. **Action All** 

## 4.14 Terms of Reference (TOR) for the WWNWS Sub-Committee

The Chair highlighted the requirement within the ToRs to conduct elections during the first meeting after an ordinary session of the IHO Assembly.

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

## 5.1 Update on WWNWS Members' Attendance to RHCs

The Chair provided the background to the engagement with RHCs and the importance of providing an accurate report on the activities for the provision of MSI within the region; the Chair highlighted the importance of ensuring the Chair of each RHC is given a clear picture of the state of MSI provision to assist in identifying where MSI training should be focused. IHO emphasised the importance of not just reusing the Self Assessment, which does not provide necessarily the information required by the RHC Chairs. The IHO encouraged all to check the IHO website to identify when relevant RHC meetings were taking place and contact their HO for the provision of their report. **All Action** 

## 5.2 Capacity Building Training Course Development

The Chair asked for the IHO and the CBSC to clarify the differences between the terms MSI Course, MSI Workshop and MSI Regional Workshop; as confusion is being created for the MSI trainers – what is the content, who are the target audience and who is conducting the training? The Chair suggested there should be one term 'MSI Course' which should only address Navigational and Metocean Warnings and be conducted by the recognised WWNWS personnel. **Action IHO.** The Chair noted the need for better coordination between the CBSC and this SC with dates and regions for where MSI training will take place. This will allow for MSI trainers to be made available. **Action Chair/IHO** 

The Chair described the full preparations and contents for the MSI Training course, how the material is delivered and the structure of the course. He highlighted how the course is adapted to reflect the region in which the course is being conducted. IMSO suggested candidates could complete a pre-course questionnaire to provide details of their background, experience and working environment.

## 5.3 WWNWS CD-ROM

The Chair provided background information on the creation and contents of the CD-ROM, he demonstrated the some of the details contained in it. The participants were 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 WWNWS10

The Chair noted that the next meeting, WWNWS10, would be held in Monaco at the IHO, 27 – 31 August 2018. It was agreed that this would include joint sessions with the WWMIWS METAREA Coordinators. He also noted the IMO intended to hold the IMO-ITU EG14 meeting in London the week following NCSR5. It was noted that the letter of invitation would be provided before the end of the year. **Action IHO** NAVAREA XVII-XVIII offered to host the WWNWS11 meeting in Canada during the week 26 – 30 August 2019, the location was yet to be advised. China offered to host a meeting in 2020 around the end of August/early September. Cyprus offered to host a future external meeting. It was agreed that the current cycle of alternate years between Monaco and external venues would be reviewed in light of the administrative requirements placed on the IHO Secretariat to conduct annual IHO Council meetings and triennial IHO Assembles; possibly a two and one cycle could be considered.

#### 6.2 DRAFT AGENDA FOR WWNWS10

A provisional agenda for the WWNWS10 meeting was displayed and agreed by those present. It was noted that the draft agenda would be developed further at the DRWG16 meeting when proposed topics for the joint sessions had been received from and the WMO, after the JCOMM-5 meeting in October, and the WWNWS. The provisional agenda for WWNWS10 is at in Annex H. Some initial topics for consideration for the joint session were provided by the WMO: S-100 Products, Contingency planning, Survey feedback planning, Mobile satellite service providers, training, GMDSS modernization, review of trends in ship accidents and national services.

## 7 ELECTION OF CHAIR AND VICE-CHAIR

The WWNWS-SC unanimously re-elected Mr. Peter Doherty, USA, as Chair and Mr. Trond Ski, Norway, as vice-Chair in succession Mr. Alain Rouault, France, who announced his retirement.

## 8 REVIEW OF ACTION ITEMS FROM WWNWS9

The Secretary reviewed the list of action items agreed to during the meeting. These are set out in Annex D. It was noted that the draft List of Actions would be circulated with the draft meeting report to allow participants to correct errors of fact. Participants were reminded that the meeting report was a record of discussion undertaken during the meeting and not a vehicle to include discussions at previous meetings or other meetings, even if related, or the inclusion of historical documents or personal/national views or perspectives. It was also highlighted that the List of Actions was designed to be a brief reference table of the more detailed information contained in the meeting report. The Secretary highlighted that he would generate the final meeting report with supporting annexes, taking into account the comments and input received from the participants; in the event that conflicting views or inappropriate comments were expressed or provided, he would discuss the matter with the Chair and it would be their sole decision on the final wording and content of the final report, no further discussion would be conducted unless a clarification from the originator was considered beneficial or necessary.

#### 9 ANY OTHER BUSINESS

No items were raised.

#### 10 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, the South African Hydrographic Office, and Ms Ruth Farre, 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 Chair particularly thanked Mr. Alain Rouault (NAVAREA II/France) and Mr. Svante Håkansson (Sub-area Ib/Sweden) for their long term involvement, hard work and efforts towards the work of the WWNWS-SC. He noted the considerable experience that would be departing with them and that the remaining participants would have a challenge filling the gap their departure was creating. He wished them both an enjoyable and relaxed retirement.

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

#### Annexes:

Annex A	Agenda for the 9 <sup>th</sup> Meeting of WWNWS-SC
Annex B	Participants at WWNWS9
Annex C	List of Documents submitted to WWNWS9
Annex D	List of Action Items as of 1 September 2017
Annex E	Statement by Republic of Cyprus
Annex F	Statement by Republic of Greece
Annex G	Statement by Republic of Turkey
Annex H	Provisional Agenda for the 10 <sup>th</sup> Session of the IHO WWNWS Sub-Committee
Annex I	MSI Quality Management Survey Summary
Annex J	ToRs
Annex K	List of key IMO and IMSO meetings
Annex 1	Justifications for broadcasting MSI

## 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 host (ZAR)
- .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 Outcome of the 97<sup>th</sup> and 98<sup>th</sup> 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 4<sup>th</sup> 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 13<sup>th</sup> 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 NAVTEX issues
    - .1 Report of the IMO NAVTEX Coordinating Panel
    - .2 NAVTEX Service areas issues
  - .2 Report of the International SafetyNET Coordinating Panel
  - .3 WMO Activities
    - .1 WMO Liaison Report
    - .2 Report on NAVAREA/METAREA Customer Survey (CAN)

- .4 Contingency Planning (Chair)
- .4 Developments in the WWNWS
  - .1 Inmarsat-C EGC SafetyNET Report
  - .2 S-124 progress and IMO-IHO HGDM engagement (Chair S-124CG)
  - .3 Display of navigational warnings EfficienSea 2, Canada, France, USA
- .5 Emerging Technologies/Modernisation
  - .1 Up-date for new satellite service providers Iridium
  - .2 Interoperability between recognized GMDSS mobile satellite service providers (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 Relations between NAVAREA Coordinators and Rescue Coordination Centres (COMSAR/Circ.3)
- .10 Inmarsat SafetyNET Users' Handbook (Chair/Secretary DRWG)
- .11 IAM SAR Manual Volume 2 (IMO)
- .12 MSI element of IHO Publication C-55 "Status of Hydrography and Nautical Cartography World-Wide". (Chair/Secretary DRWG)
- .13 Iridium Guidance Manual draft (Iridium)
- .14 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 and reports (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, including identify items for joint NAVAREA and METAREA sessions (Chair/Secretary/WMO)
- 7 Election of chair and vice-chair (Secretary)
- 8 Review of Action Items from WWNWS9 (Secretary)
- 9 ANY OTHER BUSINESS (Chair)
- 10 CLOSURE OF THE MEETING (Chair)

## WWNWS9 LIST OF PARTICIPANTS

Country	Name	E-mail
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## **Documents Submitted to WWNWS8**

Document No	Document Title	Date Uploaded
WWNWS9-1-6	WWNWS8 ACTION ITEMS - Corrected to 11 August 2017	11 August 2017
WWNWS9 Self Assessment Template	Template to be used for the submission of NAVAREA Self Assessments - amended 6 May 2017	6 May 2017
WWNWS9 Self Assessment Template Annex A	Excel Spread sheet template to be used for details of coastal states within individual NAVAREA	6 May 2017
WWNWS9 Document Template	Template to be used for the submission of documents, other than Self Assessments	13 January 2017
WWNWS9 PowerPoint Template	Template to be used for PowerPoint Presentations at WWNWS9	22 March 2017
WWNWS9-01/2017	Invitation Letter	22 March 2017
WWNWS9-01/2017	Enclosure 1 - Logistics Information	22 March 2017
WWNWS9-01/2017	Enclosure 2 - <u>Hotel Information</u>	22 March 2017
WWNWS9-01/2017	Enclosure 3 - <u>Hotel Booking Form</u> (Word version)	11 May 2017
WWNWS9-01/2017	Enclosure 4 - Registration Form (Word version)	22 March 2017
WWNWS9- Provisional-Agenda	Provisional Agenda for WWNWS9 v5.0	3 August 2017
WWNWS9-List of Participants	<u>List of Participants</u>	1 September 2017
WWNWS9-1-3	Programme for WWNWS9-SC meeting v2.0	10 August 2017
WWNWS9-1-7.1	Report to IRCC9	1 August 2017
WWNWS9-1-7.2	Report to IRCC9 Presentation	1 August 2017
WWNWS9-2-2	IMO Liaison Report	
WWNWS9-2-3	IMSO Liaison Report Rev.1	25 August 2017
WWNWS9-2-4	Master Plan - CHL	21 August 2017
WWNWS9-3-1-1.1	Outcomes of MSC97 and MSC98	1 August 2017
WWNWS9-3-1-1.2	Extracts from IMO CL3758 - Amendments to SOLAS	24 August 2017
WWNWS9-3-1-2	Outcomes of NCSR4	1 August 2017
WWNWS9-3-1-3	Outcomes of IMO/ITU EG13	1 August 2017
WWNWS9-3-2-I	Self Assessment NAVAREA I	4 August 2017
WWNWS9-3-2-I- Annex B	Self Assessment NAVAREA I Annex B	4 August 2017
WWNWS9-3-2-lb	Self Assessment NAVAREA Ib	14 August 2107
WWNWS9-3-2-II	Self Assessment NAVAREA II	12 July 2017

		Annex C
WWNWS9-3-2-II- Annex A	Self Assessment NAVAREA II Annex A	12 July 2017
WWNWS9-3-2-III	Self Assessment NAVAREA III	11 August 2017
WWNWS9-3-2-IV_XII	Self Assessment NAVAREA IV_XII	3 August 2017
WWNWS9-3-2-V	Self Assessment NAVAREA V	18 August 2017
WWNWS9-3-2-VI	Self Assessment NAVAREA VI	26 July 2017
WWNWS9-3-2-VII	Self Assessment NAVAREA VII	12 July 2017
WWNWS9-3-2-VIII	Self Assessment NAVAREA VIII	7 August 2017
WWNWS9-3-2-IX	Self Assessment NAVAREA IX Rev.1	30 August 2017
WWNWS9-3-2-X	Self Assessment NAVAREA X	14 August 2017
WWNWS9-3-2-XI	Self Assessment NAVAREA XI	4 August 2017
WWNWS9-3-2-XI- Annex A	Self Assessment NAVAREA XI Annex A	7 August 2017
WWNWS9-3-2-XIII	Self Assessment NAVAREA XIII	7 August 2017
WWNWS9-3-2-XIV	Self Assessment NAVAREA XIV	14 August 2017
WWNWS9-3-2-XV	Self Assessment NAVAREA XV	21 August 2017
WWNWS9-3-2-XVI- Rev.1	Self Assessment NAVAREA XVI Rev.1	22 August 2017
WWNWS9-3-2- XVII_XVIII	Self Assessment NAVAREA XVII_XVIII	24 July 2017
WWNWS9-3-2- XVII_XVIII-Annex A	Self Assessment NAVAREA XVII XVIII Annex A	24 July 2017
WWNWS9-3-2-XIX	Self Assessment NAVAREA XIX	12 July 2017
WWNWS9-3-2- XX_XXI	Self Assessment NAVAREA XX_XXI	10 August 2017
WWNWS9-3-2-N_C_R	National Coordinator Report - CHN	18 August 2017
WWNWS9-3-2-1	Quality Management Survey-Rev.1	11 September 2017
WWNWS9-3-3-1-1	NAVTEX Panel Report	4 August 2017
WWNWS9-3-3-1-2.1	NAVAREA III Coordinator Letter to the Chairman IMO NAVTEX Coordinating Panel	28 July 2017
WWNWS9-3-3-1-2.2	IMO NAVTEX Panel Chair Letter 2009	3 August 2017
WWNWS9-3-3-2.1	SafetyNET Panel Report	16 August 2017
WWNWS9-3-3-2.2	National Transportation Safety Board report - USA	7 July 2017
WWNWS9-3-3-2.3	CHIRP bulletin extract	7 July 2017
WWNWS9-3-3-3-1	WMO Liaison Report	11 August 2017
WWNWS9-INF.3	EC-69/INF.6.4-Meteorological Services Marine Operations - WMO	11 August 2017

## WWNWS9 Report Annex C

		Aillex C
WWNWS9-INF.5	SafetyNET functional requirements - WMO	31 August 2017
WWNWS9-3-3-3-2	Joint MET/NAVAREA Customer Survey - CAN	24 July 2017
WWNWS9-3-4-1.1	Inmarsat Performance Report - IMSO	11 August 2017
WWNWS9-3-4-1.2	Inmarsat EGC SafetyNET Report	
WWNWS9-3-4-2	S-124 CG Progress Report	10 August 2017
WWNWS9-3-4-3.1	Proposed Navwarning Issuing System - CAN	24 July 2017
WWNWS9-3-4-3.2	New IALA Guideline 1117 on VHF Data Exchange System (VDES) Overview	1 August 2017
WWNWS9-3-5-1	Iridium Progress Report	
WWNWS9-4-1.1	Actions from DocRev WG15 Meeting	1 August 2017
WWNWS9-4-1.2	Document Review Status Report	4 August 2017
WWNWS9-INF.4	Use of a generic term for mobile satellite systems recognized for use in the GMDSS - USA	9 August 2017
WWNWS9-4-14	WWNWS-SC ToRs	1 August 2017
WWNWS9-5-1	Regional Hydrographic Commission Meetings	4 August 2017
WWNWS9-5-2	CB MSI Training 2017-2018	9 August 2017
WWNWS9-6-2	Provisional Agenda WWNWS10	9 August 2017
WWNWS9 Presentations	Presentations zip	

## WWNWS9 Cape Town, South Africa - 28 August to 1 September 2017

## **List of Actions (<u>updated: 13 October 2017</u>)**

Agenda Item	Subject	Status / Due Date	Comments	Action By		
	WWNWS6 List of Actions					
WWNWS6 3.2	NAVAREA XV Self-Assessment	<del>December 2014</del> WWNWS <del>8</del> 9	NAVAREA XV to transmit cancelation messages and serialise In-Force Bulletin messages On going	NAVAREA XV/Chair		
		WWNWS8 Li	st of Actions			
WWNWS8 1.7	IRCC8 Report	15 November JCOMM5	Submit proposed revised version of A.1051(27) to NCSR4. To be submitted to NCSR5	WMO/IHO		
WWNWS8 3.2	NAVAREA II Self Assessment	WWNWS <del>9/</del> 10	Invite IMB to attend WWNWS9 or WWNWS10	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 XX_XXI Self Assessment	WWNWS9	Discuss website link for In-Force Warning, which appears to link to NtM	NAVAREAs XX & XXI		
WWNWS8 3.3.2	SafetyNET Coordinating Panel	WWNWS910	Invite IALA to attend WWNWS-SC meetings to ensure developments in new technology and VHF Data Exchange are highlighted to WWNWS S-C	Chair/IHO		
WWNWS8 3.4.2	New satellite service providers	WWNWS910	Transition from rectangular area to NAVAREA specific addressing for the Arctic areas Review technology and establishment of terminals with both service providers	Inmarsat/Arctic NAVAREAs		
WWNWS8 4.1	Document Review Status Report	<del>DRWG15</del> <del>WWNWS9</del> DRWG16	Create text for "broadcast" announcing the introduction of Iridium MSI services	Chair		
WWNWS8 4.8	SafetyNET Users' Handbook	<del>DRWG15</del> <del>WWNWS9</del> DRWG16	Provided an update on the revision of the Inmarsat SafetyNET Users' Handbook and the intended procedure to be followed. Revised version to be provided at WWNWS9 DRWG16	Inmarsat		

WWNWS9 List of Actions				
WWNWS9 2.4	GMDSS Master Plan	NCSR5	Validate Master Plan SafetyNET information provided for Annex 8	Chair/NAVARE A XV
WWNWS9 2.4	GMDSS Master Plan	On going	Encourage national coordinators to cross-check C-55 and GMDSS Master Plan information	All
WWNWS9 3.1	Outcomes of IMO Meetings	On going	Engage with IMO meetings and relevant Correspondence Groups	All
WWNWS9 3.2	Self Assessment reports	DRWG16	Develop generic note for inclusion on email requests for MSI	Chair
WWNWS9 3.2	Self Assessment reports	1 September	Stop misuse of NAVTEX system and B1 character, including cancelling of externally issued messages	CYP/GRC/TUR
WWNWS9 3.2	Self Assessment reports	NCSR5	Individually provide NAVTEX service area information, if appropriate, to IMO for consideration and validation, as necessary	CYP/GRC/TUR
WWNWS9 3.2	Self Assessment reports	1 September	NAVAREA III to initiate bi-lateral discussions to ensure coordination of broadcasts and message content	NAVAREA III/CYP/ GRC/TUR
WWNWS9 3.2	Self Assessment reports	1 September	Work through NAVAREA III Coordinator as the central point of contact on synchronisation of information provision	NAVAREA III/GRC /TUR
WWNWS9 3.2	Self Assessment reports	On going	Include details of annual contingency exercises in reports	IHO/All
WWNWS9 3.2	Self Assessment reports	DRWG16	Develop generic letter for use by NAVAREA Coordinators to encourage provision of MSI	Chair
WWNWS9 3.2	Self Assessment reports	29 September	Provide contact details of Angola to NAVAREA VII	Chair
WWNWS9 3.2	Self Assessment reports	WWNWS10	Engage with national coordinators to clarify need for MSI to be promulgated beyond national boarders	NAVAREA XI
WWNWS9 3.2	Self Assessment reports	29 September	Update contact details for NAVAREA XIII	IHO
WWNWS9 3.2	Self Assessment reports	WWNWS10	Progress implementation of contingency plan	NAVAREAs XV/XVI

WWNWS9 3.2	Self Assessment reports	WWNWS10	Investigate establishment of contingency plan	NAVAREAs IV-XII/XVI
WWNWS9 3.2	Self Assessment reports	WWNWS10	Share experiences and solutions during development of web based systems for publication of warnings	Chair S- 124CG/All
WWNWS9 3.2	Self Assessment reports	WWNWS10	Transmission of test message for vessels to report position when received	NAVAREAS XVII- XVIII/XIX/XX- XXI
WWNWS9 3.2	Self Assessment reports	WWNWS10	Confirm information on equipment provided in report	Chair/NAVARE A XX-XXI
WWNWS9 3.2.1	Quality Management Report	29 September	Provide feedback on comments raised	All
WWNWS9 3.2.1	Quality Management Report	29 September	Provide NAVAREA IV-XII presentation to MACHC for use as example for other RHC meetings	Chair/IHO
WWNWS9 3.3.1.1	IMO NAVTEX Coordinating Panel Report	WWNWS10	Confirm contents of most recent version of GMDSS Master Plan	All
WWNWS9 3.3.2.2	NTSB – El Faro	WWNWS10	Provide details of discussions with customers on change of warnings update cycle on SafetyNET	WMO
WWNWS9 3.4.1	Inmarsat-C EGC SafetyNET Report	DRWG16	Provide demonstration of SafetyNET II service	Inmarsat
WWNWS9 3.4.1	Inmarsat-C EGC SafetyNET Report	WWNWS10	Provide details on number of terminals capable and non-capable of upgrade to allow NAVAREA addressing in Arctic areas	Inmarsat
WWNWS9 3.4.2	S-124CG Report	HSSC9	Highlight the need to identify a suitable replacement as Chair of the S-124CG	IHO/Chair S- 124CG
WWNWS9 3.5.2	InteroperabilityCG	DRWG16	Develop draft ToRs, title, frequency and method of meetings and initial definition of InteroperabilityCG	USA
WWNWS9 4.2/4.3	Document Review	JCOMM5	Ensure revised definitions are reflected and transferred in the revision of A.1051(27)	WMO
WWNWS9 4.2/4.3	Document Review	DRWG16	Provide example messages covering virtual aids to navigation	NAVAREA X

WWNWS9 4.2/4.3	Document Review	NCSR5	Report continuation of unannounced missile firings in NAVAREA XI and request compliance with A.706(17)	Chair
WWNWS9 4.13	Document Review	DRWG16	Update METAREA graphic	WMO
WWNWS9 4.13	Document Review	26 January	Provide feedback on draft Iridium EGC Manual	All
WWNWS9 5.1	Regional Hydrographic Commission meetings	On going	Check dates of relevant RHC meetings and contact HO for provision of MSI report	All
WWNWS9 5.2	MSI Training	CBSC16	Clarify terms used to describe MSI training and personnel involved	IHO
WWNWS9 6.1	Next meeting	15 December	Confirm details of WWNWS10	Chair/ IHO
WWNWS9 8	Action List	WWNWS10	Keep IHO and the Chair informed of progress with allocated actions	All
WWNWS9 8	WWNWS9 Draft Report	8 September Complete	Draft to be circulated for comment	<del>IHO</del>
<del>WWNWS9</del> <del>8</del>	WWNWS9 Draft Report	22 September Complete	All to provide comments on draft report	All
<del>WWNWS9</del> <del>8</del>	WWNWS9 Draft Report	29 September Complete	Publish final report	<del>IHO</del>
WWNWS9 8	Report to IRCC10	30 March	Draft report for review and amendment.	Chair/vice- Chair/IHO

## Statement by the delegation of the Republic of Cyprus to the

# 9th Meeting of the IHO World-Wide Navigational Warning Service Sub Committee (WWNWS9)

Dear Mr. Chairman - Dear Colleagues,

Firstly we would like to thank the organisers of this meeting and all the people behind the scenes working hard making our stay here comfortable and consequently productive and effective.

Concerning the matter of the NAVTEX service in the Eastern Mediterranean, we would like to inform you that Cyprus Radio is accomplishing its mission successfully by transmitting all the necessary Maritime Safety Information (MSI) within the Search and Rescue Region (SRR) of the Republic of Cyprus. The Cyprus SRR coincides with the Nicosia FIR and has been submitted to the IMO since 1994. Cyprus Radio has all the distress and safety communication facilities according to the GMDSS Master Plan and it is operating on a 24/7 basis under the command of the Joint Rescue Coordination Center in Larnaca. The NAVTEX transmissions are conducted according to the defined prototypes and procedures determined in the NAVTEX manual.

It is worth mentioning that the JRCC Larnaca, the Cyprus Radio which acts also as the national NAVTEX Coordinator and the Mission Control Centre responsible for receiving and distributing distress signal alerts from distress radio beacons are collocated and operating in the sake of safety of mariners. In that way the monitoring, the distribution of MSI, the coordination and the responding time in case of an emergency situation has been improved tremendously.

However, unfortunately, and with regret we have to inform you that since Turkey's NAVTEX Coordinator is not communicating any MSI to Cyprus Radio or coordinating all the activities with the NAVTEX Coordinator of the Republic of Cyprus, as per NAVTEX manual provisions, there is high risk probability of a potential maritime accident in the area.

On the screen (Annexes 1,2,3) you can observe the dangerous situation has been developed recently, because of this practice from Turkey. Specifically when Navigational Warnings issued from Cyprus Radio, as the NAVTEX Coordinator of the Republic of Cyprus, are in force, Turkey concurrently issuing new ones overlapping the existing areas, so inevitably creates vulnerability risking safety.

The first one (NW 466/17 - Turkey) was regarding a real life exercise on the 29<sup>th</sup> of April 2017, while on the same period other ships were conducting survey operations according to NW - NR 162/17 and NR 171/17.

WWNWS9 Report Annex E

The second one (NAV III 398/17-Turkey) was regarding a firing exercise on the 3<sup>rd</sup> of July 2017, affecting the area of multinational SAR exercise that has been already issued by NW 396/17.

And the third one (NW 837/17 - Turkey) is regarding a firing exercise for the  $30^{th}$  of August 2017, affecting the existing NW – NR265/27 for the transit corridor for the supporting vessels of the drilling ship West Cappella and an existing NOTAM – A1024/17 for frequent flights of helicopters to and from this ship.

Additionally we have recently observed that Turkey is involving other countries in this practice, since these countries participate in common exercises with Turkey, without realising what this practice entails. Of course the involved countries did not request the issuance of any navigational warning related with the exercise.

Therefore we once again are requesting that all MS of the IHO, all coastal stations and national NAVTEX Coordinators coordinate their activities within the SRR of the Republic of Cyprus (FIR Nicosia) with Cyprus Radio in order to ensure the maximum safety of mariners.

Moreover we expect that the NAVAREA III Coordinator will contact Cyprus Radio, which as I mentioned before operates on 24/7 basis and is the national NAVTEX Coordinator, for any future request concerning the issuances of a Navigational Warning in the area of the responsibility of the Republic of Cyprus.

After all we strongly believe that so far we have done everything possible of us, since Cyprus Radio is fulfilling successfully its demanding mission as the national Coordinator, in order to ensure the safety of mariners. It is up to Turkey now and the NAVAREA III Coordinator to follow and take actions in that direction.

Finally, Mr. Chairman, I would kindly request that this present statement by the Republic of Cyprus be duly reflected in the report / minutes to be issued of this meeting.

Thank you

ANNEX "1": NR 466/17

ANNEX "2": NAV III 398/17

ANNEX "3": NR 837/17

WWNWS Meeting 9 Agenda Item 9.3.3.1.2

29-08-2017

#### **NAVTEX Service Areas issues**

## Submitted by Greece

#### **SUMMARY**

Executive Summary: NAVTEX Service Areas issues in the Aegean and East Mediterranean

Action to be taken: Include this statement in the final report of the WWNWS9

Related documents: NAVAREA III Self Assessment/WWNWS9/3/2/III/2 August 2017

- 1. As far as the HNHS is concerned, there are no pending issues with the NAVTEX Service Areas in the Aegean Sea. However, the Hellenic Navy delegation is compelled to react to the Turkish delegation's allegations, as follows:
- 2. Having listened to the statement made by the Turkish delegation, we would like to mention that the Greek NAVTEX Stations in Limnos and Iraklion, with the transmitter identification character (B1), L and H respectively, were duly established in 1986 in accordance with IMO and IHO regulations (Promulgation of Marine Safety Information (IMO) Noted by the Government of Greece, 13 Mar 1986 and COM/Cir. 99/8 May 1987.IMO) and since then have been operating successfully within their service areas.
- 3. That is something which has been officially recognized and approved as it is also stated at this year's self assessment report of the NAVAREA III Coordinator (MSI Self Assessment Report dated 2 Aug 2017), which in its turn confirms the Resolution in the letter from the NAVTEX Panel dated 26th March 2009 stating that the service areas proposed by Greece to IMO in Note COM 31/5/4 and the agreement in the Monaco meeting of 2006 should remain in force.
- 4. However in 2008, after 22 years, and despite the fact that the stations remain functional and credible, Turkey submitted a proposal to amend the limits of the Greek NAVTEX Service Areas, that was rejected by all neighboring states, by NAVAREA III (as per the letter of Instituto Hidrographico de la Marina, dated 10 March 2009) and the NAVTEX Coordinating Panel Chairman (as per the letter Chairman IMO NAVTEX Panel, dated 26 Mar 2009).
- 5. Consequently, the Turkish disagreement with the configurations of the limits of NAVTEX station service areas in the East Med and Aegean falls apparently within a constant attempt to revise and change the territorial status quo in the Aegean Sea along with the jurisdiction of Greece in the area. To that end, Turkey does not hesitate even to exploit the necessity for navigational safety.

- 6. In this context it should be recalled that in accordance with the NAVTEX Manual "The NAVTEX Coordinator must pass maritime safety information which warrants promulgation outside of their NAVTEX service area directly to the appropriate authority, using the quickest possible means». Therefore all MSI falling in the Greek NAVTEX Stations Service Areas should be circulated to Greece NAVTEX National Coordinator, the only appropriate authority, in order to be promulgated for securing the safety of navigation. Consequently, Turkey must follow the aforementioned appropriate procedure.
- 7. To conclude, HNHS has always been not only an effective and efficient NAVTEX Coordinator in its area of responsibility, but also in full compliance with IHO and IMO rules guidelines and principles as MSC.1/Circ. 1403 and MSC.1/Circ. 1310/Rev.1; thus constructively promoting the safety of navigation in the region.
- 8. Please include the above statement in the final report of the Sub-committee.

WWNWS9 Meeting 9 Agenda Item 3-3-1 WWNWS9/3/../../.. 29 August 2017

## Statement by Turkey on WWNWS9/3/2/III MSI Self Assessment NAVAREA III

## Submitted by Turkey

#### **SUMMARY**

Executive Summary: Turkey's statement regarding NAVTEX Service Areas in the

Aegean Sea and Eastern Mediterranean Sea

Action to be taken: Including this statement in the agenda items and the final report

of WWNWS9

Related documents: WWNWS9/3/2/III MSI Self-Assessment NAVAREA III

- 1. In Ref. MSI Self Assessment NAVAREA III, briefly stated his concerns regarding issues with coordination due to lack of agreement in the International NAVTEX Service in the Eastern Mediterranean and Aegean Seas between the related service providers regarding the delimitation of NAVTEX service areas.
- 2. There is no NAVTEX Service Area delimitation in Aegean Sea or Eastern Mediterranean Sea that is officially confirmed or approved by IMO or IHO, nor by Turkey. Moreover, coordination efforts by Turkey in the past to get an agreement over this issue have been unreciprocated. Turkey has not been officially asked or approached by any of the relevant national or international authorities for the joint delimitation of NAVTEX service areas in the Aegean as well as the Eastern Mediterranean. In such a semi-enclosed sea such cooperation and coordination is among the bedrock principles of relevant international instruments as well as customary and the IMO practices.
- 3. It should be noted that Turkey, starting from 1975<sup>1</sup>, declared her strong willingness to assume responsibility and offered every possible assistance concerning WWNWS in NAVAREA III and has started to broadcast MSI on 1985 and since then has been disseminating MSI ceaselessly.
- 4. Regarding the reference to the document COM 31/5/4 in Ref.; Turkey declared her programme about NAVTEX stations during COM 30<sup>2</sup>, furthermore Turkey submitted a detailed report about her NAVTEX stations and areas during COM 31<sup>3</sup>. Those facts speak for

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<sup>&</sup>lt;sup>1</sup> Turkish Ministry of Communication letter, COM XV/7/14/Rev.1, September 1975.

<sup>&</sup>lt;sup>2</sup> COM 30/WP.11, page 4.

<sup>&</sup>lt;sup>3</sup> COM 31/5, 10 February 1986.

themselves and as such it is with regret that we notice NAVAREA III Coordinator failed to refer to any of these documents in his report in Ref.

- 5. Regarding the reference to the Monaco meeting in 2006 in Ref., it was a meeting of NAVAREA III National Coordinators and as such had no authority to approve, change or modify the existing limits of NAVTEX Service areas. Furthermore, the meeting report clearly reflected this fact and stated in its conclusion that "Chairman encouraged all the attendees to confirm the agreements reached during this meeting". An observation to the same effect was also included in the Action List of the same meeting. Turkey never gave such confirmation. On the contrary, Turkey made a counter proposal for the draft study presented in Monaco based on her document COM 31/5 submitted back in 1986.
- 6. Regarding the reference to the NAVTEX Panel's letter dated 26 March 2009, we agree with the observation of Mr. SEWELL that "...changes to the International NAVTEX service can only be achieved by agreement between all the parties affected. ...and that the current arrangements should remain unchanged". As briefly outlined above, Turkey has never given her consent to draft proposals regarding changes to the international NAVTEX service and hence the current arrangements remain unchanged.
- 7. Against this background, Turkey, acting with good faith and spirit of cooperation, clearly stated many times that she stands ready to arrive at a negotiated solution acceptable to all. Turkey regrets that such a technical subject has been taken out of its context. Some other Service Providers exploit the NAVTEX system as a political discussion platform and hence defeating the very purpose of the system totally disregarding the safety and well-being of mariners at sea by promulgating NAVTEX messages stating that Turkish NAVTEX stations are unauthorized.
- 8. Turkish NAVTEX stations, as in the past, will continue to promulgate NAVTEX messages for the sake of navigation safety, until a delimitation of service limits in those areas is affected by an agreement with the consent of parties concerned.
- 9. It would be much appreciated, if this statement would be included in the minutes of the meeting and final report.

## PROVISIONAL AGENDA OF THE TENTH MEETING OF THE WWNWS SUB COMMITTEE (WWNWS10)

## To be held IHO, Monaco 27 – 31 August 2018

#### 1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS

- .1 Opening Remarks and Introductions (Chair)
- .2 Welcome by the host (SG/Director)
- .3 Working Arrangements (Secretary)
- .4 Administrative Arrangements (Host)
- .5 Adoption of the Agenda (Chair)
- .6 Review of Action Items from WWNWS9 (Secretary)
- .7 Report from IRCC10 (Chair)

## 2 MATTERS RELATING TO THE GMDSS MASTER PLAN

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

#### 3 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)

- .1 Outcome of the 99<sup>th</sup> Session of the International Maritime Organization's Committee on Maritime Safety (MSC99) 16 25 May 2018 (Secretary)
  - .2 <u>Outcome of the 5<sup>th</sup> Session of the International Maritime Organization's Sub-Committee on Navigation, Communications and Search and Rescue (NCSR5) 19 23 February 2018 (including developments in the GMDSS Modernization and issues relevant to WWNWS and WWMIWS) (Secretary)</u>
  - .3 Preparations for the 14<sup>th</sup> meeting of the IMO/ITU Experts Group IMO/ITU EG14) 3-7 September 2018 (including developments in the GMDSS Modernization and issues relevant to WWNWS and WWMIWS) (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 NAVTEX issues
    - .1 Report of the IMO NAVTEX Coordinating Panel
    - .2 NAVTEX Service areas issues
  - .2 Report of the International SafetyNET Coordinating Panel
  - .3 WMO Activities
    - .1 <u>WMO Liaison Report</u>
  - .4 <u>IOC Liaison Report, including TOWS-WG issues</u> (IOC)
  - .5 <u>Contingency Planning</u> (Chair)

- .4 Developments in the WWNWS
  - .1 <u>Inmarsat-C EGC SafetyNET Report</u>
  - .2 S-124 progress and IMO-IHO HGDM engagement (Chair S-124CG)
  - .3 <u>Display of navigational warnings</u> EfficienSea 2, Canada, France, USA
- .5 Emerging Technologies/Modernisation
  - .1 <u>Up-date for new satellite service providers</u> Iridium
  - .2 <u>Interoperability between recognized GMDSS mobile satellite service</u> providers (Chair/Secretary)

## 4 REVIEW OF GUIDANCE DOCUMENTS AND OTHER RELATED DOCUMENTATION

- .1 <u>Document Review Status Report</u> (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)
- 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 Relations between NAVAREA Coordinators and Rescue Coordination Centres (COMSAR/Circ.3)
- .10 Inmarsat SafetyNET Users' Handbook (Chair/Secretary DRWG)
- .11 IAM SAR Manual Volume 2 (IMO)
- .12 MSI element of IHO Publication C-55 "Status of Hydrography and Nautical Cartography World-Wide". (Chair/Secretary DRWG)
- .13 Iridium Guidance Manual draft (Iridium)
- .14 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 and reports (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 WWNWS11 Canada, 26-30 August 2019 (tbc) (Chair/Secretary)
- .2 Draft Agenda for WWNWS11 (Chair/Secretary)
- 7 Review of Action Items from WWNWS10 (Secretary)
- 8 ANY OTHER BUSINESS (Chair)
- 9 CLOSURE OF THE MEETING (Chair)

#### Joint METAREA-NAVAREA Coordinators Discussion

The participants in this session will the opportunity to strengthen the coordination within the NAVAREA-METAREA for MSI issues and GMDSS support, and to get the feedback or support for full implementation of WWNWS and World-Wide Met-ocean Information and Warning Service (WWMIWS) in a coordinated fashion.

Items underlined in the agenda will provide the main focus for the joint session; the participants will be presented with reports by representatives of IMO, WMO, IHO and IMSO on overall activities and actions in relation with MSI and the GMDSS. Focus will be to provide information relevant for the Issuing Services (identification of non-appropriate practises for navigational MSI and Metocean MSI prepared for SafetyNET or NAVTEX broadcasts, suggested improvements, expected or planned evolutions or emerging technologies with potential consequences for the NMHS issuing GMDSS and MSI). In particular, Inmarsat C System (including focus on Arctic areas, information on the new System Definition Manual), potential new provider for service transmission and associated impacts, the implementation of the GMDSS in Arctic NAVAREAs/METAREAs, brief overview of the revision cycle of the IMO/IHO/WMO joint documentation process and the GMDSS modernization will be of value. In addition information on Capacity Building initiatives and approach will be provided for consideration and discussion.

# PROVISIONAL AGENDA OF THE SECOND JOINT SESSIONS OF THE IHO WWNWS SUB-COMMITTEE (WWNWS-SC) AND WMO WWMIWS

To be held in Monaco ?? & ?? August 2018

#### 1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS

- .1 Opening Remarks and Introductions Chairs
- .2 Administrative Arrangements Hosts
- .3 Adoption of the Agenda Chairs

#### 2. ORGANIZATION BRIEFS

- .1 IHO introduction/structure/developments/activities IHB
- .2 WMO introduction/structure/developments/activities WMO
- .3 IMO introduction/structure/developments/activities IMO
- .4 IMSO introduction/structure/developments/activities IMSO

## 3 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)

- .1 Outcomes of the 99<sup>th</sup> Session of the International Maritime Organization's Committee on Maritime Safety (MSC99) 16 25 May 2018 IHO
  - .2 Outcomes of the  $5^{th}$  Session of the International Maritime Organization's Sub-Committee on Navigation, Communications and Search and Rescue (NCSR5) 19 23 February 2018 IHO
  - .3 Preparations for the 14<sup>th</sup> meeting of the IMO/ITU Experts Group IMO/ITU EG14) 3-7 September 2018 IHO
- .2 Broadcast Systems and Services
  - .1 Report of the IMO NAVTEX Coordinating Panel UK
  - .2 Report of the IMO SafetyNET Coordinating Panel USA
  - .3 Review of GMDSS Master Plan and Modernization IMO/Chair WWNWS
  - .4 IOC Liaison Report, including TOWS-WG issues IOC
  - .5 Contingency Planning Chairs
- .3 Developments in the MSI Promulgation
  - .1 Inmarsat-C EGC SafetyNET Report Inmarsat
  - .2 MSI Document Review Overview Chair WWNWS
- .4 Emerging Technologies/Modernization
  - .1 New developments in service provision, including considerations on interoperability between recognized GMDSS mobile satellite service providers IMSO/Inmarsat/Iridium
  - .2 Progress Developments on
    - .1 S-124 France
    - .2 S-411and S-412 WMO
    - .3 e-navigation IMO

#### 4 CAPACITY BUILDING MSI TRAINING COURSE DEVELOPMENTS

- Discussion of on-line MSI Training Course .1
- .2
- Discussion of attendance criteria and student selection;
  Discussion on input from partner Organizations involved in the provision of MSI .3 (IMO, WMO, IOC)

#### 5 **ANY OTHER BUSINESS**

6 **CLOSURE OF THE MEETING – Chairs** 



## NAVAREA Coordinators' Self-Assessment Quality Management Analysis

## Submitted by IHO Secretariat

#### **SUMMARY**

Executive Summary: This document provides details of the analysis of the NAVAREA Coordinators' Self-Assessment Reports to WWNWS9.

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 and not treated as a target. It was pleasing to note that the majority were received in Word format, which greatly assisted in the final preparation of the documents.
- 3. Some of the quoted average elapsed times are a bit too uniform across the reported years. Although all reports were received on the current template, a number did not submit the additional Annex A Excel spreadsheet for use by the CBSC, chairs of RHCs and Regional CB Coordinators. 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 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
Ι	Any considerations to establishing a reciprocal contingency agreement with
	another NAVAREA?
Ib	When was last update to GMDSS Master Plan submitted? NAVTEX
	interference noted; DSC issue noted; is there a need for some CB training

	for some national coordinators? Does IMO NAVTEX Coordinating Panel
	chair attend Baltico meetings?
II	CB assessment details for NAVAREA should be used as the example
	format in all reports, where appropriate; table 4.2 and paragraph 7 provide
	clear picture of MSI provision within NAVAREA
III	GMDSS Master Plan update date two years old? Have contact details been
	confirmed; clarification of Contingency Plan; no CB required yet course
_	funded for MBSHC in 2018?
IV-XII	Good to note Cuban success; note progress on receipt of MSI from coastal
	states with NAVAREA and ongoing contact post course.
V	When was last update to GMDSS Master Plan provided? Table on
	equipment in use not included; were any lessons learnt from the
	contingency exercise? Important SWAtHC CB Regional Coordinator
	liaises with other Regional CB Coordinators to ensure maximum benefit is
	obtained from the planned MSI course.
VI	Concern over the lack of progress at bringing La Paloma NAVTEX station
	back into service; good to note contingency plan with V has been exercised;
	funded bid approved for MSI training in 2018; recommendation noted.
VII	Received in pdf format; date of last GMDSS Master Plan update? No
	details on average elapsed time for transmission of immediate priority
	warnings; table to list requests for in-force warnings included since 2016,
	could have commenced recording information for 2016 onwards; efforts to
	improve MSI provision in region noted and appreciated; attendance at
	future WWNWS-SC meetings vital for regional development.
VIII	Date of last Master Plan update? Has contingency plan been exercised? No
	CB required yet course funded for NIOHC in 2017?
IX	Need to try and obtain details of points of contact for all national
	coordinators; when was GMDSS Master Plan updated? Details of number
	of warnings identified as immediate priority and average elapse time not
	provided; no MSI received from Oman? MENAS and Bahrain are not
	same, is MENAS acting officially on behalf of Bahrain? Good to note
	progress on development of external contingency plans; need to identify
	priority coastal states for MSI training and pass information to Regional CB
	Coordinator (Oman).
X	Details/reasons for reduced availability Jan, Feb, Mar and Jun 17? Current
	edition of GMDSS Master Plan is GMDSS.1/Circ.21 dated 31 May 2017;
	In-force bulletin understanding issues noted; any consideration for
	contingency plan with neighbouring NAVAREA? PNG progress
	encouraging, any coordination with METAREA initiatives? What impact
	resulting from significant CB investment, has MSI provision improved?
XI	Note realistic average elapse times; concern no MSI received from 5 coastal
	states and lack of launch warnings from DPRK; external contingency plan
	could be considered; good point on ensuring correct organizations receive
	MSI training, note MSI training course bid for 2018 not yet funded;
XIII	No immediate priority information for 2015 or 2016, none qualify?
XIV	2.3 – any identified reasons for long broadcast times? Would be useful to
	know if any warnings received via text; what impact resulting from
	significant CB investment, has MSI provision improved? How will MSI
	training be managed in future as LINZ skill fades, need to train Maritime
	NZ personnel to deliver course? Close liaison required with LINZ for CB
	issues through SWPHC;
	·

XV	When was last update submitted to update GMDSS Master Plan; no					
	information on average time to transmit 'immediate priority' messages;					
	Encouraging to note various contingency initiatives, recommend they are					
	completed and exercised at least annually; have NAVTEX updates been					
	completed now?					
XVI	What date was last update to GMDSS Master Plan submitted? Noting the					
	vulnerability of the region to natural disasters, contingency agreement with					
	adjacent NAVAREA needs to be completed as a matter of priority, further					
	discussions with adjacent NAVAREAs should be explored.					
XVII-XVIII	If no warnings identified as immediate priority, put NA in average elapsed					
	time; Has contingency plan with IV_XII 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. 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 <sup>1</sup> (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 <sup>4</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VIII	No <sup>5</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IX	No <sup>6</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
X	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XI	No <sup>7</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XII	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XIII	No <sup>8</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XIV	No <sup>9</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes
XV	Yes	Yes	Yes	Yes	$No^{10}$	Yes	Yes	Yes
XVI	No <sup>11</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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<sup>&</sup>lt;sup>1</sup> See paragraphs 4 & 5 of NAVAREA Ib Self Assessment (WWNWS9/3/2/Ib)

<sup>&</sup>lt;sup>2</sup> See paragraph 5 of NAVAREA III Self Assessment (WWNWS9/3/2/III)

<sup>&</sup>lt;sup>3</sup> See paragraph 5 of NAVAREA VI Self Assessment (WWNWS9/3/2/VI)

<sup>&</sup>lt;sup>4</sup> See paragraph 5 of NAVAREA VII Self Assessment (WWNWS9/3/2/VII)

<sup>&</sup>lt;sup>5</sup> See paragraph 5 of NAVAREA VIII Self Assessment (WWNWS9/3/2/VIII)

<sup>&</sup>lt;sup>6</sup> See paragraph 5 of NAVAREA IX Self Assessment (WWNWS9/3/2/IX)

<sup>&</sup>lt;sup>7</sup> See paragraph 5 of NAVAREA XI Self Assessment (WWNWS9/3/2/XI)

<sup>&</sup>lt;sup>8</sup> See paragraph 5 of NAVAREA XIII Self Assessment (WWNWS9/3/2/XIII)

<sup>&</sup>lt;sup>9</sup> See paragraph 5 of NAVAREA XIV Self Assessment (WWNWS9/3/2/XIV)

<sup>&</sup>lt;sup>10</sup> See paragraph 2 of NAVAREA XV Self Assessment (WWNWS9/3/2/XV)

<sup>&</sup>lt;sup>11</sup> See paragraph 13 of NAVARERA XVI Self Assessment (WWNWS9/3/2/XVI)

| XVII  | No <sup>12</sup> | Yes |
|-------|------------------|-----|-----|-----|-----|-----|-----|-----|
| XVIII | No <sup>13</sup> | Yes |
| XIX   | No <sup>14</sup> | Yes |
| XX    | No <sup>15</sup> | Yes |
| XXI   | No <sup>16</sup> | Yes |

See paragraph 5 of NAVAREA XVII Self Assessment (WWNWS9/3/2/XVII)
 See paragraph 5 of NAVAREA XVIII Self Assessment (WWNWS9/3/2/XVIII)
 See paragraph 2 of NAVAREA XIX Self Assessment (WWNWS9/3/2/XIX)
 See paragraph 2 of NAVAREA XX Self Assessment (WWNWS9/3/2/XX)
 See paragraph 2 of NAVAREA XXI Self Assessment (WWNWS9/3/2/XXI)

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

#### References:

Article 6 of the General Regulations 1<sup>st</sup> IRCC meeting (Monaco, June 2009)

## 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 Article 6 of the General Regulations.

Up dated: 1 September 2017

## Rules of Procedure

- 1. The Sub-Committee is composed of the NAVAREA Co-ordinators <sup>1</sup>, Sub-Area Coordinators <sup>1</sup> and IHO Member States. In a NAVAREA or Sub-Area Coordinators <sup>2</sup> absence, they may nominate a representative to attend the meeting on their behalf. Normally this would be one of their National Coordinators <sup>1</sup>. Representatives of the IMO, WMO, IMSO and the IHO Secretariat participate in an Ex-Officio capacity without voting rights. The Sub-Committee members, through the Chair, may invite recognized Observers <sup>2</sup> and other suitably qualified individuals, as Expert Contributors, to participate in specific activities as deemed appropriate, but without voting rights.
- 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. Article 6 of the General Regulations shall govern the length of tenure. The Sub-Committee shall have a Secretary, nominated by the Secretariat. 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.
- 4. The Sub-Committee shall have its permanent secretariat at the Secretariat. The Sub-Committee Secretariat shall provide the secretarial and administrative support needed to gather, hold and disseminate information on behalf of the Sub-Committee. 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.

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

<sup>&</sup>lt;sup>2</sup> Recognized IHO Observer organizations are listed on the IHO website.

- 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.

Up dated: 1 September 2017

# WWNWS9 LIST OF KEY MEETINGS – 2017-2018

Organization	Meeting	Location	Dates
IMO	NCSR5	London	19-23 February 2018
IHO	DRWG16	London	27 Fbruary-1 March 2018
IMSO	Advisory Committee (AC)41	London	14-15 May 2018
IMO	MSC99	London	16-25 May 2018
IHO	WWNWS10+WWMIWS	Monaco	27-31 August 2018
IMO	IMO-ITU EG14	London	3-7 September 2018
IMSO	AC42	London	6-7 September 2018
IMSO	Assembly (A)25	London	9-12 October 2018
IMO	MSC100	London	3-7 December 2018

# **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)