

**12<sup>th</sup> MEETING of the IHO SUB-COMMITTEE ON THE WORLD-WIDE  
NAVIGATIONAL WARNING SERVICE (WWNWS12)  
VIRTUAL VIDEO CONFERENCE  
1 - 3 September 2020**

**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 WWNWS-SC welcomed all participants and provided brief background details to the meeting and expressed his appreciation to all present for making the effort to participate in the current challenging circumstances. He highlighted the importance of keeping the maritime community and the mariner at the forefront of all discussions.

The Chair conducted a roll call of participants to check connectivity, see Annex B for list of participants.

**1.2 Working Arrangements**

Chair WWNWS-SC introduced the working arrangements, including articulating some remote meeting procedures and protocols.

**1.3 Adoption of the Agenda**

Agenda was introduced, its amended state was explained and approved, see Annex A, and see Annex C for list of documents.

**1.4 Review of Action Items from WWNWS11**

The actions items from WWNWS11 were reviewed, it was agreed that updates for those items not covered in the agenda would be provided by the actioner to the secretary for inclusion as a separate annex to the final meeting report. **Action 1 – All**

**2 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)**

**2.1 NAVAREA Assessments of Navigational Warnings Services by Coordinators**

The NAVAREA Coordinators provided brief reports on their activities since WWNWS11:

NAVAREA I – provided an update on activities, he highlighted the progress with Iridium SafetyCast and a successful contingency exercise by using their alternative facility as a result of the impacts of COVID-19.

NAVAREA Ib – noted the activities of the BSMSIWG, he noted interference to some NAVTEX broadcasts from transmissions originating in the Black Sea. He highlighted the increase in message traffic and the need to investigate ways to mitigate this. He confirmed that the Sea Traffic Management system displayed warnings graphically and was operational.

NAVAREA II – provided a brief update on activities, she highlighted the CB efforts. She noted the challenges of the NAVAREA II, particularly the developing coastal states in West Africa.

NAVAREA III – provided details of activities within his NAVAREA, he noted the impact of the additional RMSS providers, in particular the cost issues. The Sub-Committee confirmed the need to promulgate, via EGC, all the military exercises already issued via NAVTEX in the interests of providing the maritime customer the most comprehensive global service possible; it was noted that this was of greater importance in the many areas around the world with higher security risks and military activity. He highlighted concerns that the growing annual increase in the number of NAVAREA warnings broadcast, as highlighted in his report, will lead unavoidably to increasing costs in this multiple recognized mobile satellite services environment. The Chair thanked NAVAREA III for their continued efforts to ensure services were being maintained throughout his region, despite the many challenges encountered.

NAVAREA IV/XII – provided a report on developments within the two regions, in particular he noted the increase in requests for ‘in-force’ warnings.

NAVAREA V – provided briefed details of recent activities and the successful conduct of a contingency exercise with NAVAREA VI.

NAVAREA VI – also highlighted the successful contingency exercise. He noted the increase in the number of messages being transmitted and the associated costs, which raised significant concerns for his administration, particularly with the additional satellite service provider. He noted some concerns on progressing with the Iridium contract.

NAVAREA VII – noted no changes in infrastructure, he noted a significant drop in the number of messages over the period March-June, since then the numbers have increased back to near normal. He noted that, due to the COVID-19 restrictions, the NAVAREA Coordinator moved off-site for 48 hours without impact. He highlighted increased interaction between Angola and Madagascar, and the slow impact of CB effort with regards to other coastal states; he noted the lack of NAVTEX coverage outside South Africa and Namibia remains a concern. He highlighted the e-learning facility developed for the SAIHC, the link to which will be provided to the WNWNS-SC in due course.

NAVAREA VIII – noted that it had completed Iridium training and as well as the ongoing support and MSI training for Mauritius. The increase in requests for ‘in-force’ warning was noted.

NAVAREA IX – The Chair provided details of highlights from the Self Assessment. He recommended that discussions were held with the relevant Regional CB Coordinators for funding for proposed training course being developed. **Action 2 - NAV IX**

NAVAREA X – noted no intention to move to SafetyNET II at present due to intergraded nature of their systems. Noted significant increase in messages and requests for ‘in-force’ warnings. He acknowledged the support and work undertaken by Craig Longmuir.

NAVAREA XI – highlighted concerns on impact of COVID-19, although no operational impact. He noted discussions held with some regional national coordinators to improve communications and provision of information. No certificate had been received, Chair agreed to provide a replacement. **Action 3 - Chair**

NAVAREA XIII – The Chair provided details of highlights from the Self Assessment. It was noted that Morsviazputnik (Ministry of Transport) had taken over all satellite MSI

communications, which would require Iridium to find a solution for NAVAREAs XIII, XX and XXI.

NAVAREA XIV – highlighted the monthly quality assurance check as part of their monitoring procedures. He also noted the six monthly communications check with all national coordinators and the success it has had in maintaining contact and highlighting changes of personnel. He noted the Iridium SafetyCast testing and the progress achieved. He highlighted the successful train the trainer course completed by Fiji and the ongoing involvement with training courses. He also noted the MSI for Managers Workshop. He highlighted the engagement with the SWPHC and the participation in their recent meetings.

NAVAREA XV – The Chair introduced the report. He highlighted the need to check the scheduled broadcast times to ensure correctness. **Action 4 - Chair**

NAVAREA XVI – Self Assessment report received during the meeting, although uploaded, it was not addressed.

NAVAREA XVII/XVIII – noted that priority messages are not sent as none identified as being such. She noted that no NAVTEX stations were located in the Arctic region as all service areas had been re-designated. She indicated that it was intended to commence Iridium SafetyCast trials later in year. She also noted work will commence later this year to integrate a NAVAREA module into the domestic Navigational Warning Issuing System (NIS).

NAVAREA XIX – Noted no significant changes since WNWNS11. He noted several vessels using Iridium equipment and thus all messages now being transmitted on SafetyCast as part of the trials and testing. He indicated that SafetyNET II transition was nearly complete. The Chair highlighted the need to move away from rectangular areas to direct addressing to NAVAREAs in the Arctic. It was noted that it was a need to confirm the number of Inmarsat terminals which would need to be updated and align the date with the start of Iridium SafetyCast services. The Chair proposed NAVAREAs XVII/XVIII, XIX and XX/XXI should submit a paper to NCSR 8 providing details on the transition from rectangular areas to direct NAVAREA addressing. **Action 5 - NAVs XVII+XVIII/XIX/XX+XXI**

NAVAREA XX/XXI – Self Assessment report received during the meeting, although uploaded, it was not addressed.

The Chair noted the encouraging progress and engagement with Iridium and amount of testing taking place. He also noted there remained a number of concerns which still needed to be addressed. All NAVAREAs were encouraged to continue their testing and training efforts, so that the Iridium SafetyCast service could be made available to the maritime community as a global element of the GMDSS as quickly as is prudent.

National Report – CHN provided brief details on activities. NAV XI noted that no information had been received from China, Korea and Thailand in preparation of the NAVAREA report due to domestic communication difficulties within recipient country. NAVAREA XI noted the request for input would be made earlier in the preparation process for WNWNS13.

### **2.1.1. Quality Management Analysis of Self Assessments**

IHO introduced the Quality Management report, see Annex F, it was requested all NAVAREAs and Sub-Area should check the comments and provide feedback to the Chair and Vice-Chair as appropriate. **Action 6 - All NAVAREAs/Sub-Area**

## 2.2 Broadcast Systems and Services

### 2.2.1. IMO NAVTEX Coordinating Panel

The Panel Chair provided a brief overview of NAVTEX activities. He noted the number of overruns and incorrect message content, often not in accordance with the NAVTEX Manual; all national coordinators were requested to ensure the guidance contained in the NAVTEX Manual was followed and that the content of messages was confined strictly to maritime safety information issues; NAVAREA Coordinators were asked to help with this issue.

### 2.2.2. IMO EGC Coordinating Panel

In the absence of an appointed Chair, the previous Panel Chair introduced the new ToRs for the EGC Coordinating Panel, which were approved by NCSR 7, and explained the rationale behind the amendments. He then introduced the International SafetyNET Services Manual and the significant changes which resulted from the recognition of Iridium SafetyCast. The Chair asked that revised links for Inmarsat be updated and included by the IMO prior to the in-force date.

**Action 7 - Inmarsat/IMO** The IMO Secretariat indicated that it was not confirmed whether the draft MSC Circulars would be on the postponed MSC 102 agenda and so the in-force dates may need to be revised. The Chair provided a brief presentation on the impacts of COVID-19 on the functioning and activities of NAVAREAs and Sub-Area; he highlighted the previous three years numbers of messages in comparison for all NAVAREAs and Sub-Area. NAVAREAs and Sub-Area are to inform the Secretary if they do not want their data to be published. **Action 8 - All NAVAREAs/Sub-Area** The Chair then introduced the report of the most recent EGC

Coordinating Panel meeting held in January 2020 after NCSR 7. It was agreed that the focal role of the USCG for the global dissemination of SAR broadcasts required further investigation. Iridium provided details on the current developments on the provision of SAR broadcasts. NAVAREA XIV indicated that an expanded process including other RCCs is being refined, although the USCG would maintain responsibility for the ship-to-shore communication and subsequent dissemination to the relevant RCC. The Chair asked Iridium for an update on which organizations had signed contracts; Iridium confirmed the information had been provided.

**Action 9 - Iridium** The IMO Secretariat confirmed that no further discussions had taken place over the appointment of the new Chair subsequent to the stepping down of the Chair after the meeting in January and that, in the meantime, the Vice-Chair should continue to act as Chair of the Panel.

## 2.3 Developments in the WNWNS

### 2.3.1 S-124PT report

Chair of the PT provided a presentation covering the progress and work achieved since the WWNWS11. He highlighted the engagement with other IHO bodies (in particular S-100WG and NIPWG) and the submission to IMO NCSR 7. He highlighted the outcome of the NCSR 7 discussions and that the final action is awaiting the approval of the MCS 102. He noted a number of project specific developments involving the Feature Catalogue, submitting to the IHO GI Registry and GML schema. He described the connection with the e-Navigation MS5 – *Maritime Safety Information* – and the work being undertaken by IALA. Inmarsat asked whether S-124 would change the current process; it was confirmed that it would complement the current system until it has proved it worth. It is not part of the GMDSS at present; it could be primary receipt of MSI in the future, however it would require a move towards web based provision by NAVAREAs and display on various platforms, including ECDIS. The Chair asked with which NAVAREAs trials were planned as there was a need for test and evaluation to accelerate the development. It was confirmed that work was commencing with Canadian Coast Guard vessels to gain experience and knowledge of portrayal issues. The Chair asked where the development of user control of the display of MSI warnings had progressed. It was noted that

the S-100WG was concerned with clutter. It was confirmed that it should be displayed during route monitoring mode in the same manner as navigational information. User trials and feedback would dictate the final approach to be taken. There remained further discussion for weather warnings. It was noted that S-124 needed to have better than the current GMDSS functionality to make it a progress with increased capability. The need for harmonization of development between satellite service providers and S-124 needed to be identified at the start to ensure systems are developed to achieve the best capability and service to the customer. Inmarsat identified the potential data cost issues for the dissemination of MSI. It was noted that data costs were reducing due to the increasing bandwidth and plethora of transfer means. It was noted that message costs were only part of the cost issue; provider resources, training and systems needed to be considered as well. Inmarsat suggested S-124 could be a customer subscription service in the form of an enhanced safety service. Iridium supported the suggestion and suggested it could be a risk classification service. The Chair suggested there could be a need for an S-124 user manual to ensure the quality service provision. NAVAREA IV-XII highlighted the importance of not moving the S-124PT beyond the original remit.

### **2.3.2 EGC-API CG report**

NAVAREA X (Australia), as Chair of the EGC-API CG<sup>1</sup>, provided a report and presentation on the progress of the EGC-API CG following its establishment at the eleventh meeting of WWNWS-SC (document WWNWS12/2/3/2). The EGC-API CG is tasked to develop a machine-to-machine standard to support the transfer of EGC shore-to-ship information, including its required messaging instructions, between certified and registered MSI providers (MSIP) and recognized mobile-satellite service (RMSS) providers. He noted it was not to solve interoperability and interconnectivity challenges.

The EGC-API CG has met five times, approving Terms of Reference, a work plan and the essential API requirements. It was also noted that METAREAs had provided good input and comment to support the work. It was confirmed that the RCC providers were aware that the development currently will not support shore-to-ship SAR related information broadcasts.

The API will benefit the NAVAREA and METAREA Coordinators who intend to integrate the transfer of machine-to-machine shore-to-ship EGC information into an information management system (or similar). However, they will be required to develop a user interface, error checking and train their staff. Note that there is no obligation on RMSS providers to make an API available. This latter point was discussed, noting that if there was a desire from MSIP to mandate the API for current and future systems, that proposals should be made to the IMO to amend resolution A.1001(25).

The EGC-API CG Chair emphasised that the scope of work is limited to shore-to-ship information exchange and does not include shore-to-ship SAR-related information. Inmarsat noted that the standardised API would also be available to SAR providers if desired and they should contact the CG for further information and engagement. Organizations/partners may choose to develop those aspects in the future and take on that role, but it would be outside of the EGC-API CG and WWNWS-SC. Despite this, the information and standards developed by the EGC-API CG are likely relevant and can be made available. Further, one RMSS provider advised that despite the scope of work not including shore-to-ship SAR-related information, the C codes for SAR-related information would be recognized by its system and broadcast.

The sixth meeting of the EGC-API CG is scheduled for Tuesday 13 October 2020 at UTC 1900 –2000. The meeting aims to: adopt the desirable API requirements developed by the membership; commence a compliance check to identify IMO, IHO and WMO requirements and how they can be met/tested; and commence development of a functionality testbed. The

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<sup>1</sup> Enhanced Group Call Application Programming Interface Correspondence Group

intention is for the EGC-API CG to complete its work by 6 April 2021 and report to WWNWS-SC out-of-session. The Chair was requested to provide input to the WWNWS report to NCSR 8.  
**Action 10 - EGC-API CG**

### **3 REVIEW OF GUIDANCE DOCUMENTS**

#### **3.1 Document Review Status Report**

Document Review status report was provided by the Secretary, who highlighted the two documents submitted to WWNWS12. The Chair highlighted the approval process and the amount of work that takes place at the annual DRWG; he noted that the DRWG meetings would continue at its normal timing immediately after NCSR 8 or remotely, if necessary.

#### **3.2 IMO NAVTEX Manual**

NAVTEX Manual revision. The Chair of the IMO NAVTEX Coordinating Panel provided details of the review of the manual and identified amendments which needed to be addressed. He highlighted that definitions needed to be updated, the NAVTEX station closure process was not detailed, also the overrun issue needed to be better addressed. The Chair noted the normal timeframe for the review cycle. The Chair briefly went through the manual to highlight some of the areas which would be reviewed. The Chair asked for updated example messages, updated graphics and images be included. **Action 11 - NAVTEX** The use of NAVTEX by SAR authorities needed to be reviewed to ensure the current practice is reflected in the manual. **Action 12 - NAVTEX** It was requested that the WWMIWS-C could review the Met content as part of the revision process, the Chair requested a copy of the draft manual be provided to the WWMIWS-C Chair and comments and feedback be provided by 15 January 2021 to the Chair IMO NAVTEX Coordinating Panel. **Action 13 - NAVTEX/WWMIWS-C**

#### **3.3 Iridium SafetyCast Manual progress**

Iridium provided a brief on progress of implementation. He noted that all NAV and MET Areas had been issued certificates and he updated that 25 agreements have been completed with registered information providers, he noted that this figure was increasing weekly as new agreements were completed. He highlighted that the training is continuing with a number of repeats due to changes in personnel. He provided details on the testing with 11 vessels at sea across the world and the feedback received. He noted a number of improvements and changes to the system functionality, which had been made subsequent to feedback received. He noted an additional 3 vessels and 10 shore terminals would be coming on-line soon. IMSO noted that oversight had been started and successful contingency exercises had been conducted.

The Chair displayed the SafetyCast Manual review schedule, he provided details for the progress achieved and explained the proposed actions. He noted that the initial review in preparation for the WWNWS12 meeting had not taken place due to the late submission of the draft version. The IMO Secretariat advised that the dates for the session of NCSR 8 in 2021 had not yet been confirmed and recommended to continue to work based on the submission deadlines according to the preliminary programme of meetings for 2021, which is the end of October. The proposed way forward for the review and finalisation of the manual could be achieved to meet the initial IMO deadline. WWMIWS-C expressed a desire to be involved in the review process. The leader of the Adhoc team provided a suggested timeline:

- 18 Sep – provided feedback and proposed revisions to Iridium
- 2 Oct – receive updated draft from Iridium
- 16 Oct – WWNWS-SC and WWMIWS-C
- 23 Oct – submit final draft version to IMO NCSR 8

The Chair noted that the WWNWS-SC could submit the revised SafetyCast Manual directly to IMO, however the WMO had a different approach which needed be considered and followed. The Chair asked WMO to be part of the Adhoc group to help steer through the process. Those willing to participate were requested to provide details to the team leader. **Action 14 - All NAVAREAs/Sub-Area** The IMO Secretariat requested that the changes are placed over the current published preliminary manual in Track Change mode to facilitate the translation process. The Chair requested the IMO inform the WWNWS-SC Chair as soon as further details on the dates for NCSR 8 are known to allow best use of any additional time. **Action 15 - IMO Secretary DRWG** requested confirmation that the system would be in a settled state in the autumn to allow the manual reflect the true operating state; Iridium confirmed that it should be only minor adjustments, which would not impact on the manual content. The Chair requested those NAVAREAs in an advanced state of testing to join the Adhoc review group. The Chair proposed that the DRWG19 should take place in January/February regardless of the dates for NCSR 8. NAVAREA IV-XII asked for clarification on the message cancellation process and whether the functionality can be set on a date rather than a number of days ahead; Iridium confirmed a number of adjustments were completed but not released until the current round of testing had been completed on the Beta version, to ensure a steady version is in place at each stage.

IMSO introduced their submission to MSC 102 on cost issues. The Chair introduced the background to the joint submission and the impact that cost issues were having on the coordinated global nature of the WWNWS, which had been brought into focus by the recognition of the Iridium SafetyCast. He noted that a number of NAV and MET Areas have expressed significant concerns and these need to be considered to ensure the maritime customer receives the appropriate level of service. Iridium noted that there would be no costs for sending messages until 2022. The Chair highlighted costs were more than simply message transmission, he noted that costs include personnel, equipment, training and infrastructure, which are not being addressed (or acknowledged) by the IMO Member States. IMSO noted their submission to NCSR 6 and that the decision was political and that figures and projected costs should be articulated. The Chair highlighted the potential impacts on the mariner if the cost issues were not addressed. NAVAREA II noted that NAV and MET Area Coordinators, according to IMO documentation, were not bound to using all mobile satellite service providers and that individual NAV and MET Areas could select a single carrier. Inmarsat highlighted the actions taken to reduce costs for the information provider. Iridium suggested that a warning notification could be issued to cover areas for which Iridium (or Inmarsat) services are not available; in the same manner the IMO would be requested to issue a circular that detailed the coverage of Iridium as each Area becomes operational. NAVAREA X acknowledged that much work had been done by Inmarsat and Iridium to reduce costs, however there were still costs that had to be met by the NAV Areas, he noted that the EGC-API would assist in cost reduction. NAVAREA V noted that there was no intention to use more than one provider. NAVAREA XIX noted that Iridium had been recognised as a mobile satellite service provider in the GMDSS by the IMO MCS and that it was behoved on all NAV and MET Area Coordinators to accelerate the implementation of the Iridium SafetyCast service for the benefit and safety of the mariner. NAVAREA I noted that it was incumbent on all to make Iridium a fully global service. NAVAREA III highlighted the additional burdens on the national organizations resulting from the recognition of Iridium. NAVAREA XVII-XVIII supported the comments by NAVAREAs I and XIX, with the hope that the IMO would recognise the cost issues and take action to mitigate them.

NAVAREA IV-XII introduced the joint submission to NCSR 8, in which the overall cost increases were articulated. The main points were highlighted and the recommendations discussed in detail. It was acknowledged that the issue needed to be addressed by MSC and it was important to avoid the question being passed between MSC and NCSR. It was requested that NAVAREA and METAREA Coordinators engage with their administrations to highlight and support the need to bring the issue to a resolution, including making the use of all providers a requirement of being a designated Area Coordinator. **Action 16 - All NAVAREAs/Sub-Area**

NAVAREA XVII-XVIII noted that it appeared IMO did not want to address the issue. WMO suggested that a real example could be provided that shipping could be placed in the position of needing three or more different receivers if the services was not fully global, which would be a major issue for shipping companies. NAVAREA XIV supported these comments and highlighted the comment paper submitted to MSC 102, which contained additional information. The Chair requested that the Adhoc team could be used to consider developing a revision to the MSC 102 paper.

### **3.4 WWNWS-SC ToRs**

The ToRs were reviewed and agreed that no amendments were required, IHO to update the review date, see Annex G. **Action 17 - IHO**

The Chair confirmed that the 19<sup>th</sup> meeting of the DRWG would be held the week after NCSR 8 at IMO in London. If the NCSR 8 was delayed to later in 2021, he proposed to hold DRWG19 in the January/February period to ensure the continuation of the document review cycle was maintained. He noted that a meeting of the IMO EGC Coordinating Panel may also be held during this period.

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

### **4.1 WWNWS Members' Attendance to RHCs**

The Chair highlighted the forthcoming RHC meetings and encouraged all to participate either in person or remotely. He noted that the RHCs determined what CB training would be bid to the CBSC for the next period. It was the NAVAREA Coordinator who was in the best position to identify which coastal states needed MSI training.

### **4.2 Capacity Building Training Course Development**

The Chair noted the number of available trainers remained limited, he noted the number of NAVAREA Coordinators who had volunteered to be trained as a trainer. He noted that the best training was to participate in a course and interact with other students. NAVAREA IV-XII provided reports on the two most recent courses held – Jakarta and Dominican Republic – he highlighted the involvement of the NAVAREA XI Coordinator in the delivery of the course for the EAHC. He noted the positive impact of the courses with the increased communication with the NAVAREA Coordinator. He noted that the COVID-19 confinement had allowed development of the train-the-trainer course material and e-learning aspects.

## **5 ELECTIONS**

- 5.1** Due to the announced retirement of the current Chair, Mr Peter Doherty, and the stepping down of the Vice-Chair, Mr Trond Ski, elections were required for these positions. Mr Chris Janus (USA) was unanimously elected as Chair and Mr Trond Ski (Norway) was unanimously re-elected as Vice-Chair.

## **6 NEXT MEETING**

### **6.1 Dates and Venue for WWNWS13**

It was proposed that a cautious approach should be taken in planning the next meeting, therefore it was agreed that WWNWS13 should be held at the IHO in Monaco, 30 August to 3 September 2021, with the option for either a hybrid or wholly remote meeting to be considered. **Action 18 - Chair/IHO** A provisional agenda for WWNWS13 is included at Annex E.



## **7 REVIEW OF ACTION ITEMS FROM WWNWS12**

- 7.1** These are set out in Annex D. It was agreed that the draft list of actions would be circulated with the draft report for input and comment as required. These are set out in Annex D. It was intended to pass the draft report to the former Chair, current Chair and Vice-Chair for initial comment and then circulate these drafts to the participants by 10 September for comment and input to the Secretary by 25 September. It was intended to publish the final report by 9 October. A list of relevant key meetings is at Annex H and the point brief on justification for MSI is at Annex I.

## **8 ANY OTHER BUSINESS**

- 8.1** Taken with agenda item 3.3.

- 8.2** Not taken due to time.

- 8.3** NAVAREA XIV provided details on the loss of the MV GULF LIVESTOCK 1 for which the Sub-Committee expressed condolences. The ship sailed from New Zealand bound for China with 43 crew and was struck by Category 5 Typhoon Maysak south of Japan. Despite an intensive search and rescue effort coordinated by RCC Japan, tragically, so far, only two survivors had been rescued.

## **9. CLOSURE OF THE MEETING**

The Chair noted the death of Mr Andrew Fuller earlier this year as a result of COVID-19. He highlighted his long engagement with the CPRNW and WWNWS-SC and the establishment of the WWNWS, he highlighted the important contribution he had made to the development and operational success of the WWNWS.

The Chair thanked all the participants for their support in taking forward all the tasks which come under the remit of the SC. The IHO Secretary-General, Dr Mathias Jonas, thanked Peter Doherty for all his work over the past 18 years and all that he had achieved during his tenure as Chair of the IHO CPRNW and latterly the WWNWS-SC.

The Chair finally wished all to keep safe and stay healthy in these difficult times.

### **Annexes:**

Annex A	Agenda for the 12 <sup>th</sup> Meeting of WWNWS-SC
Annex B	Participants at WWNWS12
Annex C	List of Documents submitted to WWNWS12
Annex D	List of Action Items as of 3 September 2020
Annex E	Provisional Agenda for the 13 <sup>th</sup> Session of the IHO WWNWS Sub-Committee
Annex F	MSI Quality Management Survey Summary
Annex G	ToRs
Annex H	List of key IMO and IMSO meetings
Annex I	Justifications for broadcasting MSI

**PROVISIONAL AGENDA OF THE TWELFTH MEETING  
OF THE WWNWS SUB COMMITTEE (WWNWS12)**

**To be held via Webex  
1000-1300 GMT, 1 – 3 September 2020**

**1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS**

- .1 Opening Remarks and Introductions (**Chair/Secretary**)
- .2 Working Arrangements/Administrative Arrangements (*To include reference to contents of WWNWS12/1/2, which provides guidance and procedures on conduct of Webex, including VTC meeting etiquette*) (**Chair**)
- .3 Adoption of the Agenda (**Chair**)
- .4 Review of Actions and Decisions from WWNWS11 (*Brief appraisal of progress, highlight only incomplete actions not included as agenda items, written up date to be requested from actioner for inclusion as an annex to final summary report*) (**Secretary**)

**2 PROMULGATION OF MARITIME SAFETY INFORMATION (MSI)**

- .1 **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** (*Brief overview highlighting significant items to be addressed by relevant NAVAREA Coordinator*) (**Secretary**)
- .2 Broadcast Systems and Services
  - .1 **Report of the IMO NAVTEX Coordinating Panel** (*Report to highlight significant issues and developments, as well as any items on which WWNWS-SC decision is required*)
  - .2 **Report of the IMO EGC Coordinating Panel** (*Report to highlight significant issues and developments, as well as any items on which WWNWS-SC decision is required*)
- .3 Developments in the WWNWS
  - .1 **S-124 progress report** (*Report to highlight significant issues and developments, as well as any items on which WWNWS-SC decision is required*) (**Chair S-124CG**)
  - .2 **EGC API CG progress report** (*Report to highlight significant issues and developments, as well as any items on which WWNWS-SC decision is required*) (**Chair EGC API CG**)

**3 REVIEW OF GUIDANCE DOCUMENTS AND OTHER RELATED DOCUMENTATION**

- .1 **Document Review Status Report** (*Brief update highlighting documents which came into force 1 January 2020 and those approved at NCSR 7*) (**Chair/Secretary**)
- .2 **IMO NAVTEX Manual** (MSC/Circ.1403) (*Brief update on review process, to include significant proposed amendments, new sections and items on which WWNWS-SC decision required to allow progress for presentation of initial draft at DRWG19*) (**Chair NAVTEX Panel**)
- .3 **Iridium SafetyCast Service Manual** – draft (*Presentation of fully checked and reviewed final draft, highlighting any significant changes, additions and amendments post*)

*DRWG18, in preparation for submission to NCSR 8; meeting format and length precludes a comprehensive paragraph by paragraph editorial review)* (Chair/Secretary DRWG/Iridium)

- .4 Terms of Reference for the WWNWS Sub Committee (IHO Circular Letter 46/2009) (Annual check and review) (Chair/Secretary)

#### **4 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 (Report on impact of COVID-19 to training delivery, proposed recovery plan as agreed by CBSC and progress on revision and updating of training material) (Chair)

#### **5 ELECTIONS**

- .1 Election of chair and vice-chair for triennium 2020 to 2023 (Names of potential candidates with proposer and seconder to be notified to Secretary by close of 1 September Webex session) (Secretary)

#### **6 NEXT MEETING**

- .1 Dates and venue for WWNWS13 – ??, ??-?? August/September 2021 (tbc) (Chair/Secretary)

#### **7 Review of Actions and Decisions from WWNWS12 (Secretary)**

#### **8 ANY OTHER BUSINESS (Chair)**

- .1 Funding and resource issues for provision of MSI through the recognized GMDSS mobile satellite service providers (Brief comments on submission documents made to MSC 102 and proposed follow-on activities) (Chair/IV-XII/Secretary)
- .2 Progress of the virtual 16<sup>th</sup> meeting of the IMO/ITU Experts Group IMO/ITU EG 16 (Brief update on discussions and decisions in relation to WWNWS-SC tasks) (IV-XII/Secretary)

#### **9 CLOSURE OF THE MEETING (Chair)**

**WWNWS12 Webex  
LIST OF PARTICIPANTS**

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**Documents Submitted to WWNWS12**

Document No	Document Title	Date Uploaded
WNWS12 Self Assessment Template	<a href="#">Template to be used for the submission of NAVAREA Self Assessments</a> - amended 29 June 2020	29 June 2020
WWNWS12 Self Assessment Template Annex	<a href="#">NAVAREA Self Assessment Annex A Template</a> - Blank.zip	21 January 2020
WWNWS12 Document Template	<a href="#">Template to be used for the submission of documents, other than Self Assessments</a>	25 March 2020
WWNWS12 PowerPoint Template	<a href="#">Template to be used for PowerPoint Presentations at WWNWS12</a>	25 March 2020
WWNWS12-01/2020	<a href="#">Invitation Letter</a>	2 April 2020
WWNWS12-01/2020	<a href="#">Enclosure 1 - Logistics Information</a>	2 April 2020
WWNWS12-01/2020	<a href="#">Enclosure 2 - Hotel Reservations</a>	6 April 2020
WWNWS12-01/2020	<a href="#">Enclosure 3 - Hotel Booking Form</a> (Word version)	2 April 2020
WWNWS12-01/2020	<a href="#">Enclosure 4 - Registration Form</a> (Word version)	6 April 2020
WWNWS12-List of Participants	<a href="#">List of Participants</a> v10.0	1 September 2020
WWNWS12-1.3	<a href="#">Provisional Agenda for WWNWS12</a> v4.0	10 August 2020
WWNWS12-1-4	<a href="#">WWNWS11 ACTION ITEMS</a> - Corrected to 16 July 2020	16 July 2020
WWNWS12-2-1-I	<a href="#">Self Assessment NAVAREA I</a>	10 August 2020
WWNWS12-2-2-I-Rev.1	<a href="#">Self Assessment NAVAREA I Rev.1</a>	2 September 2020
WWNWS12-2-1-I-Annex B	<a href="#">Self Assessment NAVAREA I Annex B</a>	10 August 2020
WWNWS12-2-1-Ib	<a href="#">Self Assessment NAVAREA Ib</a>	14 August 2020
WWNWS12-2-1-Ib-Annex A	<a href="#">Self Assessment NAVAREA Ib Annex A</a>	14 August 2020
WWNWS12-2-1-II	<a href="#">Self Assessment NAVAREA II</a>	10 August 2020
WWNWS12-2-1-II-Annex A	<a href="#">Self Assessment NAVAREA II Annex A</a>	10 August 2020
WWNWS12-2-1-III	<a href="#">Self Assessment NAVAREA III</a>	10 August 2020
WWNWS12-2-1-III-Annex A	<a href="#">Self Assessment NAVAREA III Annex A</a>	10 August 2020
WWNWS12-2-1-IV_XII	<a href="#">Self Assessment NAVAREA IV_XII</a>	10 August 2020
WWNWS12-2-1-IV-Annex A	<a href="#">Self Assessment NAVAREA IV Annex A</a>	10 August 2020
WWNWS12-2-1-XII-Annex A	<a href="#">Self assessment NAVAREA XII Annex A</a>	10 August 2020
WWNWS12-2-1-V	<a href="#">Self Assessment NAVAREA V</a>	12 August 2020
WWNWS12-2-1-V-Rev.1	<a href="#">Self Assessment NAVAREA V Rev.1</a>	12 August 2020
WWNWS12-2-1-VI	<a href="#">Self Assessment NAVAREA VI</a>	13 August 2020
WWNWS12-2-1-VI-Annex A	Self Assessment NAVAREA VI Annex A	

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WWNWS12-2-1-VII	<a href="#">Self Assessment NAVAREA VII</a>	24 August 2020
WWNWS12-2-1-VII-Annex A	<a href="#">Self Assessment NAVAREA VII Annex A</a>	24 August 2020
WWNWS12-2-1-VIII	<a href="#">Self Assessment NAVAREA VIII</a>	11 August 2020
WWNWS12-2-1-VIII-Annex A	<a href="#">Self Assessment NAVAREA VIII Annex A</a>	11 August 2020
WWNWS12-2-1-IX	<a href="#">Self Assessment NAVAREA IX</a>	24 August 2020
WWNWS12-2-1-IX-Annex A	Self Assessment NAVAREA IX Annex A	
WWNWS12-2-1-X	<a href="#">Self Assessment NAVAREA X</a>	13 August 2020
WWNWS12-2-1-X-Annex A	<a href="#">Self Assessment NAVAREA X Annex A</a>	13 August 2020
WWNWS12-2-1-XI	<a href="#">Self Assessment NAVAREA XI</a>	13 August 2020
WWNWS12-2-1-XI-Annex A	<a href="#">Self Assessment NAVAREA XI Annex A</a>	13 August 2020
WWNWS12-2-1-XIII	<a href="#">Self Assessment NAVAREA XIII</a>	12 August 2020
WWNWS12-2-1-XIV	<a href="#">Self Assessment NAVAREA XIV</a>	10 August 2020
WWNWS12-2-1-XIV-Annex A	<a href="#">Self Assessment NAVAREA XIV Annex A</a>	10 August 2020
WWNWS12-2-1-XV	<a href="#">Self Assessment NAVAREA XV</a>	11 August 2020
WWNWS12-2-1-XVI	<a href="#">Self Assessment NAVAREA XVI</a>	2 September 2020
WWNWS12-2-1-XVII_XVIII	<a href="#">Self Assessment NAVAREA XVII_XVIII</a>	10 August 2020
WWNWS12-2-1-XIX	<a href="#">Self Assessment NAVAREA XIX</a>	14 August 2020
WWNWS12-2-1-XIX-Annex A	<a href="#">Self Assessment NAVAREA XIX Annex A</a>	14 August 2020
WWNWS12-2-1-XX_XXI	<a href="#">Self Assessment NAVAREA XX_XXI</a>	3 September 2020
WWNWS12-2-1-N_C_R	<a href="#">National Coordinator Report - CHN</a>	27 August 2020
WWNWS12-2-1-1-Rev.3	<a href="#">Quality Management Survey</a> v3.0	3 September 2020
WWNWS12-2-2-1	<a href="#">IMO NAVTEX Coordinating Panel Report</a>	26 August 2020
WWNWS12-2-2-2-1	IMO EGC Coordinating Panel Report	
WWNWS12-2-2-2-2	<a href="#">IMSO Report on GMDSS Mobile Satellite Providers</a>	12 August 2020
WWNWS12-2-2-2-3	<a href="#">Iridium Implementation Report</a>	24 August 2020
WWNWS12-2-3-1	<a href="#">S-124 CG Progress Report</a>	24 August 2020
WWNWS12-2-3-2	<a href="#">EGC API CG Progress Report</a>	24 August 2020
WWNWS12-2-3-2 Annex A	<a href="#">EGC-API CG ToR</a>	24 August 2020
WWNWS12-2-3-2 Annex B	<a href="#">Work plan</a>	24 August 2020
WWNWS12-2-3-2 Annex C	<a href="#">Essential requirements</a>	24 August 2020
WWNWS12-3-1.1	<a href="#">Actions from DocRev WG18 Meeting</a>	8 June 2020
WWNWS12-3-1.2	<a href="#">Document Review Status Report</a> v2.0	1 September 2020
WWNWS12-3-4	<a href="#">WWNWS-SC ToRs</a>	8 June 2020



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WWNWS12-4-1	<a href="#">Regional Hydrographic Commission Meetings</a>	28 August 2020
WWNWS12-4-2	<a href="#">CB MSI Training 2020-2021</a>	28 August 2020
WWNWS12-6-2	Provisional Agenda WWNWS13	
WWNWS12-8-1	<a href="#">MSC102/16/4 Increased operating costs related to the dissemination of Maritime safety information over multiple recognized mobile satellite services</a> - CAN/FRA /USA	13 August 2020
WWNWS12-8-2	<a href="#">Annotated Agenda for IMO-ITU EG16 Remote meeting</a>	13 August 2020
WWNWS12-INF.1	<a href="#">MSC102/16/3 Cost implications related to the dissemination of Maritime safety information over multiple recognized mobile satellite services</a> - IMSO	13 August 2020
WWNWS12 Presentations	<a href="#">Presentations</a> zip	

**WWNWS12**  
**Remote Webex - 1 to 3 September 2020**

**List of Actions (updated: 23 September 2020)**

Action Number	Agenda Item	Subject	Status / Due Date	Comments	Action By
<b>On going</b>					
	WWNWS9	GMDSS Master Plan	On going	Encourage national coordinators to cross-check C-55 and GMDSS Master Plan information	All
	WWNWS9	Outcomes of IMO Meetings	On going	Engage with IMO meetings and relevant Correspondence Groups	All
	WWNWS11	Related IMO meetings	On going	Engage with maritime administration delegations attending IMO meetings to ensure all are briefed correctly and the implications of any proposals are understood fully	All NAVAREAs/ Sub-Area
	WWNWS11	IMO GISIS brief	On going	Provide pdf download from GISIS of current list of contact details for NAV and MET Area Coordinators for upload onto IHO and WMO websites <b>Function in GISIS in process of implementation</b>	IMO
	WWNWS11	Contingency Planning	On going	Develop appropriate arrangements and include details of annual contingency exercises in reports	All NAVAREAs
	WWNWS11	S-124CG Report	On going	Engage with S-124 CG to provide input and feedback on developments	All NAVAREAs/ Sub-Area
<b>WWNWS8 List of Actions</b>					
	WWNWS8 4.8	SafetyNET Users' Handbook	<del>DRWG15</del> <del>WWNWS9</del> <del>DRWG17</del> <del>DRWG18</del> <del>DRWG19</del>	Provided an update on the revision of the Inmarsat SafetyNET Users' Handbook and the intended procedure to be followed. <b>Revised version to be provided at WWNWS9 DRWG18 DRWG19</b>	Inmarsat
<b>WWNWS9 List of Actions</b>					
	WWNWS9 3.2	Self Assessment reports	<del>DRWG1617</del> <del>DRWG1819</del>	Develop generic letter for use by NAVAREA Coordinators to encourage provision of MSI	Chair

WWNWS10 List of Actions					
15	2.1	NAVAREA IX	<del>DRWG17</del> <del>DRWG18</del> DRWG19	Develop generic letter for use by Coordinators to explain to National Coordinators their roles and responsibilities	Chair
18	2.1	NAVAREA XVI	<del>30 November</del> DRWG19	Review contents of Joint IMO/IHO/WMO Manual on MSI and provide message examples for inclusion	All
WWNWS11 List of Actions					
2	3.2	Self Assessments	27 September	Contact NAVAREA VII to clarify statement in paragraph 4 of Self Assessment report	NAVTEX Chair
8	3.2.1	Quality Management Analysis	WWNWS12	NAVAREA Coordinators to register on IMO Docs to gain access to relevant IMO documents and to gain viewing rights and GMDSS manager authority to GISIS and report in Self Assessment	All NAVAREAs/ Sub-Area
16	3.3.4	Contingency Planning	WWNWS12	Expedite conclusion of planned contingency agreement and conduct annual exercise of plan	NAVAREAs XV/XVI
21	4.8	NAVTEX Manual	DRWG19	Consider revised text to reflect the current operational use of NAVTEX with regards to supporting SAR operations	NAVTEX Chair
22	5.2	MSI CB Training	DRWG19	Check currency of training material and update where necessary	Chair/ NAVAREA IV_XII
WWNWS12 List of Actions					
1	1.4	Review of actions from WWNWS11	25 September	Provide update to Secretary on outstanding actions not covered in the agenda	All
2	2.1	Self Assessment	CBSC19	Work with Regional CB Coordinators (RSAHC and NIOHC) for funding for proposed MSI training course	NAV IX
3	<del>2.1</del>	<del>Self Assessment</del>	<del>25 September</del> Complete	<del>Provide NAVAREA XI with replacement EGC certificate</del>	<del>Chair</del>
4	2.1	Self Assessment	25 September	Check scheduled broadcast time for NAVAREA XV	Chair
5	2.1	Self Assessment	NCSR 8	Develop submission on transition from rectangular areas to direct NAVAREA addressing	NAVAREAs XVII+XVIII/ XIX/ XX+XXI

6	2.1.1	Quality Management Report	WWNWS13	Review report and provide comments and feedback to Chair, Vice-Chair and Secretary	All NAVAREAs/ Sub-Area
7	2.2.2	EGC Coordinating Panel Report	MSC 102	Provide to IMO updated links for insertion into International SafetyNET Services Manual prior to in-force date	Inmarsat/ IMO
8	<del>2.2.2</del>	<del>EGC Coordinating Panel Report</del>	<del>9 October</del> Complete	<del>Inform secretary if COVID-19 impact data is not to be published</del>	All NAVAREAs/ Sub-Area
9	2.2.2	EGC Coordinating Panel Report	On going	Provide updated list detailing which NAVAREAs had signed contracts	Iridium
10	<del>2.3.2</del>	<del>EGC API CG Report</del>	<del>2 October</del> Complete	<del>Provide relevant input to WWNWS-SC report to NCSR 8</del>	<del>EGC API CG</del>
11	3.2	IMO NAVTEX Coordinating Panel report	DRWG19	Include updated message examples, graphics and images in draft new edition	NAVTEX
12	3.2	IMO NAVTEX Coordinating Panel report	DRWG19	Include fuller explanation of use of NAVTEX by SAR authorities	NAVTEX
13	3.2	IMO NAVTEX Coordinating Panel report	15 January	Provide copy of draft new edition to Chair WWMIWS-C for review with feedback ahead of DRWG19	NAVTEX/ WWMIWS-C
14	<del>3.3</del>	<del>Iridium SafetCast Manual</del>	<del>11 September</del> Complete	<del>Volunteers for adhoc SafetyCast Manual review team to provide details to team leader</del>	All NAVAREAs/ Sub-Area
15	3.3	Iridium SafetCast Manual	NCSR 8	Provide early notification of any revision to dates of NCSR 8 and subsequent document submission deadlines	IMO
16	3.3	Iridium SafetCast Manual	MSC 102	Engage with administrations and delegations to IMO highlight need to bring costing issues to a resolution	All NAVAREAs/ Sub-Area
17	4.4	<del>ToRs</del>	<del>9 October</del> Complete	<del>Amend ToRs with new review update date</del>	<del>IHO</del>
18	WWNWS12 6.1	Next meeting	13 December	Confirm details of WWNWS13	Chair/ IHO

19	WWNWS12 7	Action List	WWNWS13	Keep IHO and the Chair informed of progress with allocated actions	All
20	<del>WWNWS12 7</del>	<del>WWNWS12 Draft Report</del>	<del>10 September Complete</del>	<del>Draft to be circulated for comment</del>	<del>IHO</del>
21	<del>WWNWS12 7</del>	<del>WWNWS12 Draft Report</del>	<del>25 September Complete</del>	<del>All to provide comments on draft report</del>	<del>All</del>
22	<del>WWNWS12 7</del>	<del>WWNWS12 Draft Report</del>	<del>9 October Complete</del>	<del>Publish final report</del>	<del>IHO</del>
23	WWNWS12 7	Report to NCSR 8	22 November	Draft report for review and amendment	Chair/vice-Chair/IHO
24	WWNWS12 7	Report to IRCC13	2 April	Draft report for review and amendment	Chair/vice-Chair/IHO

**PROVISIONAL AGENDA OF THE THIRTEENTH MEETING  
OF THE WWNWS SUB COMMITTEE (WWNWS13)**

**To be held IHO, Monaco  
30 August to 3 September 2021**

**1 OPENING REMARKS AND ADMINISTRATIVE ARRANGEMENTS**

- .1 Opening Remarks and Introductions (**Chair**)
- .2 Welcome by the host (**???**)
- .3 Working Arrangements (**Secretary**)
- .4 Administrative Arrangements (**Host**)
- .5 Adoption of the Agenda (**Chair**)
- .6 Review of Action Items from WWNWS12 (**Secretary**)
- .7 Report from IRCC13 (**Chair**)

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

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

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

- .1 Related IMO meetings:
  - .1 Outcome of the 102<sup>nd</sup>, 103<sup>rd</sup>, and 104<sup>th</sup> Sessions of the International Maritime Organization's Committee on Maritime Safety (MSC 102/103/104) xx – xx xxx 202x (**Secretary**)
  - .2 Outcome of the 8<sup>th</sup> Session of the International Maritime Organization's Sub-Committee on Navigation, Communications and Search and Rescue (NCSR 8) xx – xx February 2021 (**Secretary**)
  - .3 Preparations for the 17<sup>th</sup> meeting of the IMO/ITU Experts Group IMO/ITU EG 17) xx – xx xxx 2021 (**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 issues
  - .2 Report of the IMO EGC Coordinating Panel
  - .3 IOC Tsunami Early Warning Systems up-date, including TOWS-WG issues (**IOC**)

- .4 Contingency Planning (**Chair**)
- .4 Developments in the WWNWS
  - .1 Inmarsat-C EGC SafetyNET Services Report (**Inmarsat**)
  - .2 Iridium SafetyCast Service Report (**Iridium**)
  - .3 S-124 progress report (**Chair S-124CG**)
  - .4 EGC-API CG progress report (**Chair EGC-API CG**)
- .5 Emerging Technologies/Modernisation
  - .1 Interoperability between recognized GMDSS mobile satellite service providers (**Chair/Secretary**)
  - .2 Manufacturers' presentations (if any)
  - .3 Maritime Services in the context of e-Navigation update (**AUS/NZL**)

#### **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 Services Manual (MSC.1/Circ.1364) (**Chair/Secretary DRWG/Inmarsat**)
- .8 IMO NAVTEX Manual (MSC/Circ.1403) (**Chair/Secretary DRWG**)
- .9 Relations between NAVAREA Coordinators and Rescue Coordination Centres (COMSAR/Circ.3) (**Chair/IMO**)
- .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**)
- .13 Iridium SafetyCast Service Manual – draft (**Chair/Secretary DRWG/Iridium**)
- .14 Terms of Reference for the WWNWS Sub Committee (IHO Circular Letter 46/2009) (**Chair/Secretary**)

#### **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/USB (**Chair**)

**6 NEXT MEETING**

- .1 Dates and venue for WWNWS14 – ??, ??-?? August/September 2022 (tbc)  
(Chair/Secretary)
- .2 Draft Agenda for WWNWS14 (Chair/Secretary)

**7 Review of Action Items from WWNWS13 (Secretary)**

**8 ANY OTHER BUSINESS (Chair)**

- .1

**9 CLOSURE OF THE MEETING (Chair)**

DRAFT



## **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 WWNWS12.

Action to be taken: Paragraph 9.

Related documents: NAVAREA Coordinators' Self-Assessment Reports

1. See attached Quality Management analysis table.
2. A number of the Self Assessment reports were received well after the deadline; this caused significant additional work and delayed the publication of the documents on the website. It is also noted that no reports were received for three NAVAREAs. 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 all were received in Word format, which greatly assisted in the final preparation of the documents.
3. Not all reports were received on the current template, nor the additional Annex A Excel spreadsheet provided for each relevant NAVAREA and 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. The coastal states listed in each version were harmonized with the standard United Nations names, unless unavailable; the objective is to generate a comprehensive list of coastal states across all IHO activities, hence the need to use harmonized names to ensure all elements are referring to the same state. In addition it is intended to generate a master list for each NAVAREA to ensure the CB Coordinators are approaching the correct NAVAREA Coordinator and RHC Chair.
4. The widely varying states of progress with the preparations for implementation of the Iridium SafetyCast service is noted, all are encouraged to move forward as quickly as possible to aid the maintenance of a global unified system and service within the WWNWS for the benefit of the maritime customer.
5. 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 is checked at least once per year.

6. Specific comments on submitted Self Assessment report are contained in the table below:

NAVAREA	Remarks
I	Any comment on the 2019 receipt figures, phone figure does not look correct? SafetyCast comments noted. Contribution to MSI training gratefully acknowledged. Noted that all MSI from France, Ireland and UK were assessed as coastal warnings, none as navarea?
Ib	Successful working of BSMSIWG noted.
II	Noted the challenges of the area and the limited development and engagement of many of the coastal states. Any further progress in Nigeria and Sénégal? Use of text to pass information is noted, are there any details on the originators (leisure sector?). Any further progress with bringing the non-operational NAVTEXT transmitters back into service? Provision of piracy information and warnings well noted with appreciation. Another test is due to be conducted with NAVAREA VII. CB assessment details for NAVAREA noted and appreciated, need to be raised at CBSC; concern that significant CB effort and expenditure appears to have had only limited longer term impact.
III	Have the provided contact details been confirmed and checked? Has GMDSS Master Pan been confirmed in 2020? Any further progress on Iridium contract? Concerned that nothing has been received from Egypt, Italy and Monaco; interesting that Italy has not provided any MSI, it is assumed that all items were deemed to be local and coastal only, a check on the subjects and content might highlight some that should have been issued as NAVAREA Warnings as well, to be investigated. Although limited in number, are Monaco aids that good? Increase in number of information received, from whom are faxes received? Increase in requests for 'in-force' warnings noted. Any progress on bringing the non-operational NAVTEX stations in Syria and Tunisia back online? Note the minimal output from Bosnia and Herzegovina, Croatia, Israel, Libya, Montenegro and Syria, any known reasons? Comments regarding MSI training are noted, has a bid been submitted by MBSHC CB Coordinator to CBSC? Clarification of Contingency Plan, is there an arrangement with an adjacent NAVAREA? Comments on NAVTEX in the eastern Mediterranean are well noted and the exchanges between the NAVTEX Coordinating Panel Chair and both Greece and Turkey have been read. Any further progress on provision of MSI in Black Sea area?
IV-XII	Any reasons for the high number of requests for 'in-force' warnings? Good to add Guatemala and Honduras to the Dominican Republic and Cuba successes; note progress on receipt of MSI from coastal states with NAVAREA and need to monitor the ongoing contact and provision of MSI post course. CB priority list noted.
V	Comments regarding Iridium noted. Current MSI message volumes noted. Any reasons for significant increase in message numbers over past year? Successful contingency exercise noted. CB activities noted and efforts for adjacent regions acknowledged.
VI	Any details on significant rise in NAVTEX messages? Is 20 minutes a standard? Comments regarding Iridium noted. Concern over the lack of progress at bringing La Paloma NAVTEX station back into service, can

	approach by Secretariat through SWAtHC be of benefit? Good to note successful contingency plan exercise with NAVAREA V. Was there any participation in MSI course held in Brazil? Clarification of last sentence in paragraph 9?
VII	Efforts for local port warnings are noted and encouraged. Progress on MSI from Angola is encouraging. Limited MSI from Mozambique and Madagascar noted; concern remains on lack of MSI from Iles Comores, recommend approach made through SAIHC. Average elapsed time for transmission of immediate priority warnings appear somewhat uniform. Iridium comments noted. Efforts to improve MSI provision in region noted and appreciated, although lack of impact after MSI course remains a concern. Contingency planning and exercises noted, report on rescheduled exercise with NAVAREA IX at WWNWS13? CB efforts noted and appreciated.
VIII	Have points of contact been confirmed? Progress with Iridium, has any testing been undertaken? With low level of information provision from some coastal states within region, is there no requirement for MSI training or raising awareness? Details on when MSI training most recently provided not included in Annex A? Has contingency plan been exercised?
IX	Previous version of template used. Have provided contact details been checked? Equipment details should be provided. Concern over MENAS status, is MENAS acting officially on behalf of Bahrain, Kuwait and UAE or are there a separate national organizations, which are not meeting their SOLAS obligations? Concern that immediate priority warnings appear to have an elapsed time of greater than 30 minutes? Iridium comments and encouraging. Any information on return to operation of Karachi radio? Progress on development of external contingency plans noted, report on rescheduled exercise at WWNWS13? CB activities noted, recommend liaise with Chair on contents to ensure harmonisation with current course, the material for which is being reviewed. Details of effective communication noted, problems should be highlighted to relevant RHC Chair via MSI report.
X	No warnings identified as immediate priority? Iridium progress noted. PNG continued progress encouraging, concern with Solomon Islands and Vanuatu. Any consideration for contingency plan with neighbouring NAVAREA? Comments on CB noted.
XI	Most recent GMDSS Master Plan issued as GMDSS.1/Circ.23 on 4 March 2019. Iridium SafetyCast service comments notes. Contact details for DPRK? Guam NAVTEX station details noted. Details on topic of MSI received from coastal states? Clarification on Annex A details, why countries crossed through, no MSI received from China, Malaysia, Korea or Thailand? Good initiative to visit national coordinators, increases concern on non-receipt of information.
XIII	Previous version of template used, paragraph table 5 incorrect. No warnings qualified as immediate priority? Comment regarding Iridium noted.
XIV	Monitoring procedures noted. Success with communications checks noted. Noted that warning transmission time has reduced. Varied impact resulting from significant CB investment noted. Contribution and participation in DRWG18 appreciated. General Phase 1 CB efforts acknowledged and

	resultant impacts remain encouraging. Submission to MSC 102 and comments well noted.
XV	Previous version of template used. No information on average time to transmit 'immediate priority' messages. Encouraging to note various contingency initiatives, NAVAREA XVI requested to progress initiative. Comments regarding Iridium noted, any update on progress?
XVI	No details on progress with Iridium SafetyCast. Important that NAVAREAs XV and XVI organise their contingency plan and exercise it periodically, this needs to be addressed by both as a matter of priority.
XVII-XVIII	Noted priority criteria now used has resulted in no urgent messages. What plans for contingency exercise?
XIX	Most recent GMDSS Master Plan issued as GMDSS.1/Circ.23 on 4 March 2019. Iridium progress noted.
XX-XXI	Has a new certificate for all satellite service providers been received? Incomplete Quality Management Survey table, 'Promulgate Immediate Messages within maximum delay period' and 'Certificates for all recognised service providers' columns missed. Transfer of Coordinator responsibilities from Rosmorport to Rosatom noted, please provide all necessary contacts and website links when available.
NCR China	Return to operational state of Zhanjiang station date noted, confirm at WWNWS13. Provision of MSI to NAVAREA XI Coordinator noted, does it include warnings relevant to vessels in transit from outside Navtex coverage areas? Desire to participate in CB MSI training noted.

7. 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.

8. 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.

9. 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 continue to submit reports in a timely fashion well ahead of the meeting dates;

- e. **request** individual NAVAREA Coordinators review the comments listed and email responses to the Chair and Vice-Chair; and
- f. **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	Certificates for all recognised service providers	IMO Master Plan updated
<b>I</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>I Baltic Sub-area</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>1</sup> (Navtex)	N/A	Yes
<b>II</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>III</b>	No <sup>2</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>3</sup>	Yes
<b>IV</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>V</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>4</sup>	Yes
<b>VI</b>	No <sup>5</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>6</sup>	Yes
<b>VII</b>	No <sup>7</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>8</sup>	Yes
<b>VIII</b>	No <sup>9</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>10</sup>	Yes
<b>IX</b>	No <sup>11</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>12</sup>	Yes
<b>X</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>XI</b>	No <sup>13</sup>	Yes	Yes	Yes	Yes	Yes	Yes	No <sup>14</sup>	Yes
<b>XII</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

<sup>1</sup> See paragraphs 4 & 5 of NAVAREA Ib Self Assessment (WWNWS12/2/1/Ib)

<sup>2</sup> See paragraph 5 of NAVAREA III Self Assessment (WWNWS12/2/1/III)

<sup>3</sup> See paragraph 2 of NAVAREA III Self Assessment (WWNWS12/2/1/III)

<sup>4</sup> See paragraphs 2 & 5 of NAVAREA V Self Assessment (WWNWS12/2/1/V/Rev.1)

<sup>5</sup> See paragraph 5 of NAVAREA VI Self Assessment (WWNWS12/2/1/VI)

<sup>6</sup> See paragraphs 2, 5 & 13 of NAVAREA VI Self Assessment (WWNWS12/2/1/VI)

<sup>7</sup> See paragraph 5 of NAVAREA VII Self Assessment (WWNWS12/2/1/VII)

<sup>8</sup> See paragraph 2 of NAVAREA VII Self Assessment (WWNWS12/2/1/VII)

<sup>9</sup> See paragraph 5 of NAVAREA VIII Self Assessment (WWNWS12/2/1/VIII)

<sup>10</sup> See paragraph 2 of NAVAREA VIII Self Assessment (WWNWS12/2/1/VIII)

<sup>11</sup> See paragraph 5 of NAVAREA IX Self Assessment (WWNWS12/2/1/IX)

<sup>12</sup> See paragraph 2f of NAVAREA IX Self Assessment (WWNWS12/2/1/IX)

<sup>13</sup> See paragraph 5 of NAVAREA XI Self Assessment (WWNWS12/2/1/XI)

<sup>14</sup> See paragraph 2 of NAVAREA XI Self Assessment (WWNWS12/2/1/XI)

<b>XIII</b>	No <sup>15</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>16</sup>	Yes
<b>XIV</b>	No <sup>17</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>XV</b>	Yes	Yes	Yes	Yes	No <sup>18</sup>	Yes	Yes	Yes <sup>19</sup>	Yes
<b>XVI</b>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>XVII</b>	No <sup>20</sup>	Yes	Yes	Yes	No <sup>21</sup>	Yes	Yes	Yes	Yes
<b>XVIII</b>	No <sup>22</sup>	Yes	Yes	Yes	No <sup>23</sup>	Yes	Yes	Yes	Yes
<b>XIX</b>	No <sup>24</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes <sup>25</sup>	No <sup>26</sup>
<b>XX</b>	No <sup>27</sup>	Yes	Yes	Yes		Yes	Yes		Yes
<b>XXI</b>	No <sup>28</sup>	Yes	Yes	Yes		Yes	Yes		Yes
<b>NCR China</b>	No <sup>29</sup>	N/A	Yes	Yes	N/A	Yes	Yes	N/A	Yes

<sup>15</sup> See paragraph 5 of NAVAREA XIII Self Assessment (WWNWS12/2/1/XIII)

<sup>16</sup> See paragraph 2 of NAVAREA XIII Self Assessment (WWNWS12/2/1/XIII)

<sup>17</sup> See paragraph 5 of NAVAREA XIV Self Assessment (WWNWS12/2/1/XIV)

<sup>18</sup> See paragraph 2 of NAVAREA XV Self Assessment (WWNWS12/2/1/XV)

<sup>19</sup> See paragraph 8 of NAVAREA XV Self Assessment (WWNWS12/2/1/XV)

<sup>20</sup> See paragraph 2 of NAVAREA XVII Self Assessment (WWNWS12/2/1/XVII)

<sup>21</sup> See paragraph 5 of NAVAREA XVII Self Assessment (WWNWS12/2/1/XVII)

<sup>22</sup> See paragraph 2 of NAVAREA XVIII Self Assessment (WWNWS12/2/1/XVIII)

<sup>23</sup> See paragraph 5 of NAVAREA XVIII Self Assessment (WWNWS12/2/1/XVIII)

<sup>24</sup> See paragraph 5 of NAVAREA XIX Self Assessment (WWNWS12/2/1/XIX)

<sup>25</sup> See paragraph 2 of NAVAREA XIX Self Assessment (WWNWS12/2/1/XIX)

<sup>26</sup> See paragraph 2 of NAVAREA XIX Self Assessment (WWNWS11/2/1/XIX)

<sup>27</sup> See paragraph 5 of NAVAREA XX Self Assessment (WWNWS12/2/1/XX)

<sup>28</sup> See paragraph 5 of NAVAREA XXI Self Assessment (WWNWS12/2/1/XXI)

<sup>29</sup> See paragraph 5 of NCR China Self Assessment (WWNWS12/2/1/NCR)

## **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: 2 September 2020



## 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' 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.

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

<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.

**WWNWS12**  
**LIST OF KEY MEETINGS – 2020-2021**

Organization	Meeting	Location	Dates
IMO	MSC 102	London (Remote)	4-11 November 2020
IMSO	Assembly26	London (Remote)	17-18 December 2020
IMO	NCSR 8	London	9-18 February 2021
IHO	DRWG18	London	23-25 February 2021
IMO	IMO-ITU EG 17	London	tbc June/ July 2021
IMSO	AC46	London	14-15 June 2021
IMO	MSC 104	London	16-25 June 2021
IHO	WWNWS13	Monaco	30 August - 3 September 2021
IMSO	AC47	London	15-19 November 2021

**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)