

WORLD METEOROLOGICAL ORGANIZATION

INTERGOVERNMENTAL OCEANOGRAPHIC
COMMISSION (OF UNESCO)

JOINT WMO/IOC TECHNICAL COMMISSION FOR
OCEANOGRAPHY AND MARINE METEOROLOGY (JCOMM)
EXPERT TEAM ON MARITIME SAFETY SERVICES

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ITEM 2.1

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Report by the ETMSS Chairperson

(Submitted by Henri Savina, ETMSS Chairperson)

Summary and Purpose of Document

This document provides a short summary report on ETMSS activities since its last session (ETMSS-II, Angra dos Reis, Brazil, January 2007) and priorities for the JCOMM intersessional period 2010-2012

ACTION PROPOSED

The participants of the session are invited to:

- a) Note and comment on the information provided as appropriate;
- b) Provide additional recommendations and suggestions for its future work plan as appropriate.

Summary report on ETMSS activities since ETMSS-II

1. The Expert Team on Maritime Safety Services (ETMSS) continues to assist Members/Member States in implementing met-ocean services in support of the international maritime navigation. ETMSS experts have participated in several International Maritime Organization (IMO) and International Hydrographic Organization (IHO) meetings to coordinate the expansion of the Global Maritime Distress and Safety System (GMDSS) into the Arctic waters and the revision of relevant regulatory publications and IMO Resolutions. ETMSS has reinforced its cooperation with the IHO World-Wide Navigational Warning Service Sub-Committee (IHO/WWNWS), whose results are as follows:

- (a) IMO Resolutions A705(17) on Promulgation of Maritime Safety Information (http://www.iho-ohi.net/mtg_docs/International_Organizations/IMO/MSC1-Circ-1287.pdf or <http://tinyurl.com/36javhw>) and A706(17) on the IMO/IHO World-Wide Navigational Warning Service (http://www.iho-ohi.net/mtg_docs/International_Organizations/IMO/MSC1-Circ-1288.pdf or <http://tinyurl.com/35e5o8r>), were updated. Those Resolutions, endorsed by the WMO Executive

Council, were submitted to IMO/COMSAR-12 in April 2008 and adopted by IMO/MSC-85 in November/ December 2008, and have entered into force on January 2010;

(b) A new version of the *joint IMO/IHO/WMO Manual on Maritime Safety Information (MSI)*, containing an updated section on met-ocean MSI including the new METAREA map, was produced. This new version was endorsed by WMO and IHO in October 2008, and was subsequently submitted to COMSAR-13 and adopted by IMO/MSC-86 in May/June 2009. It will enter into force on January 2011

(http://www.iho-ohi.net/mtg_docs/International_Organizations/IMO/MSC_Circ1310.pdf or <http://tinyurl.com/3xabhdw>);

(c) A new version of the *International SafetyNET Manual* was finalized at the first session of the IHO/WWNWS, in August 2009. This new version was submitted to IHO Committee, WMO Executive Council and IMO/COMSAR for approval and subsequently adoption by IMO/MSC in 2010 (MSC Circ. 1364). It will enter into force on January 2012

(http://www.iho-ohi.net/mtg_docs/International_Organizations/IMO/MSC_Circ1364.pdf or <http://tinyurl.com/34yj7pr>);

(d) A new version of the *International NAVTEX Manual* is in preparation. A draft version, available on IHO web site (<http://www.iho-ohi.net/english/committees-wg/ircc/wwnws.html> or <http://tinyurl.com/36s3yfu>), has been reviewed by IHO/WWNWS-2 in August 2010. The new version is expected to be submitted to IMO COMSAR and MSC in 2011;

(e) The new specifications for the *Inmarsat System Definition Manual*, including the new Arctic areas, have been prepared (agenda item 2.4);

(f) Following the request by the WMO Executive Council, at its sixty-first session (Geneva, June 2009), an IMO/WMO World-Wide Met-ocean Information and Warning Service (WWMIWS) guideline document was prepared, including Terms of Reference of METAREA Coordinators, to complement the existing IMO/IHO World-Wide Navigational Warning Services (WWNWS, IMO Resolution A.706(17)). The WMO Executive Council has adopted the WWMIWS, at its sixty-second session (Geneva, June 2010), and subsequently it will be submitted to the next IMO/MSC at the end of 2010, for adoption and inclusion in the regulatory publications expected end of 2011/beginning of 2012. [see WWMIWS Document]. The WMO Secretariat will write formally to all Issuing Services, inviting them to agree to assume the role of Metarea Coordinator, or to propose an alternative Coordinator.

2. Recognizing the increased use in the Arctic region by the marine community, the IMO decided to expand the GMDSS into the whole Arctic Ocean, enhancing a proposal submitted by the Russian Federation. It therefore established (IMO/COMSAR-10, London, March 2006) a joint IMO/IHO/WMO Correspondence Group (CG) on Arctic Maritime Safety Information (MSI) services to address this issue. Five new NAV/METAREAs have been defined. Canada (METAREAs XVII & XVIII), Norway (METAREA XIX) and the Russian Federation (METAREAs XX & XXI) offered to act as the new Issuing Services for these new areas. The aim of "Full Operational Status" being declared at COMSAR 15 in 2011 was declared by the CG (this session is provisionally scheduled for March 2011). The CG, supported by the IHO WWNWS, considers this event to be a significant milestone in the delivery of MSI worldwide, and is worthy of major IMO, IHO and WMO celebration. WMO Secretariat has been advised of this, with a view that it may be considered appropriate for the Secretary-General to attend such an event. The Expert Team on Maritime Safety Services has been active in this joint IMO/IHO/WMO Correspondence Group in ensuring that all relevant issues for the METAREA Issuing Services are properly addressed. In addition, the focal points for METAREAs I (UK Met Office), II (Météo-France) and IV (NOAA/NWS) also agreed to provide assistance to the new METAREA Issuing Services in developing their operating plans for the implementation of the GMDSS in the Arctic areas. The Maritime Safety Services Enhancement Workshop that took place in May 2010 noted the progress being made by all three Issuing Services

with a target July 2011 implementation date likely to be met. Based on excellent coordination between the Expert Team on Sea Ice (ETSI) and the Issuing Services, a number of projects are underway in support of the GMDSS. In particular ETSI during its fourth session in March 2010 (JCOMM Meeting Report No.74) developed definition of the mandatory sea ice information and a set of rules for its description in the context of GMDSS (agenda item 4.1). The ETSI was also working on procedures to ensure cross-area coordination and consistency of GMDSS information across the Arctic Metareas. Extended testing of GMDSS broadcasts, the "Initial Operational Capability" (IOC), started in July 2010 and a WMO/IHI General Arctic Announcement had been broadcasted by Inmarsat to inform mariners of this IOC, with a transition to "Full Operational Capability" (FOC) on 1st June 2011. Nevertheless, a number of common issues across the five new Arctic Metareas are still pending (agenda item 4) and **a major issue, the service gap over Hudson Bay (included in Metarea IV), shall be addressed by USA and Canada.** In addition, the implementation of the Marine Pollution Emergency Support System (MPERSS) in the Arctic Ocean (agenda item 9) should also be considered. ***Arctic Issuing Services are also strongly encouraged to make the necessary arrangements to make their GMDSS SafetyNET, NAVTEX and HF NBDP products available on the GTS and provide Meteo-France with the ad-hoc metadata for inclusion on the GMDSS website (<http://weather.gmdss.org>) [see Appendix II].***

3. ETMSS has reviewed the *Manual on Marine Meteorological Services* (WMO-No. 558) and the *Guide to Marine Meteorological Services* (WMO-No. 471) and proposed amendments, adopted by JCOMM-III and approved by WMO EC 63. In addition, a complete new edition of the Manual, to incorporate all amendments adopted over the past decade or more, but also to correct noted anomalies, errors and inconsistencies, was planned to be prepared over the coming 12 months. As those documents can be considered as ISO documents by NMHS, it is of major importance to ensure that they are updated appropriately. In this context, The Team will review both documents [see ad-hoc documents] (agenda item 5.1).

4. The JCOMM GMDSS-Weather Website (<http://weather.gmdss.org>) continues to provide access, in complement to the official dissemination channels, to the official Maritime Safety Information and warnings supplied by the existing METAREA Issuing Services. Météo-France has been managing and hosting this website, which has been in operation for 6 years. Some statistics are available in Appendix II. The website, which will also include the GMDSS products for Arctic areas when available, includes:

- (a) Met-ocean MSI prepared for SafetyNET dissemination (high seas);
- (b) Met-ocean MSI prepared for International NAVTEX dissemination (coastal waters), which is under preparation. A number of NAVTEX bulletins are already available online (e.g., METAREAs I, II, III, IV and XI). All Issuing Services were requested during the MSSE Workshop to make the necessary arrangements to make their NAVTEX products available on the GTS and provide Meteo-France with the ad-hoc metadata [see Appendix II], and strongly encouraged to promote the same actions among the others NMS issuing such products on their METAREAs;
- (c) A specific page gathering the available links to the NAVAREA Websites [see <http://weather.gmdss.org/navareas.html>]. This is the first step of cooperation with IHO towards the joint use of the URL *gmdss.org* for the provision of both meteorological and navigational warning information
- (d) Relevant maps showing limits of METAREAs and sub-areas, which are available in publication WMO-No. 9, Volume D – *Information for Shipping*.

5. In order to ensure the use of best practices and the improvement of value for mariners, JCOMM promotes the implementation of Quality Management Systems (QMS) within the NMS preparing MSI. A QM training, focused on Internal Audit procedures, was provided to Issuing Services by a QM specialist supporting the Australian Bureau of Meteorology during the MSSE

Workshop in May 2010. The Team will review the outcomes of the Workshop and the proposals prepared by Mr Bryan Boase, member of the Management Committee with specific responsibility for QMS, on the process for moving forward in the provision of support to developing countries in implementing QMS as they further developed their marine services and the guidelines for implementation of QMS by Issuing Services (Agenda item 3.1).

6. Direct interaction with and feedback from the marine users is required to ensure that services meet their requirements. It is also a requirement for a Quality Management System (QMS). The former Commission for Marine Meteorology (CMM) therefore initiated a Marine Meteorological Services Monitoring (MMSM) programme in 1981. The first survey was conducted in 1985. Subsequent sessions of CMM and JCOMM had reviewed the survey results, reiterated their value to WMO Members and endorsed their continuation. In the meantime, the questionnaire was regularly reviewed and updated by ETs (especially ETMSS and SOT). The last questionnaire was reviewed during the meeting of the Task Team on MSI (March 2009, Geneva, Switzerland), with ETSI and ETWS Chairpersons. This questionnaire was distributed in early 2009 to ships' masters through national PMOs as well as via the Weather-GMDSS Website. The results of the analysis were compiled into a report, which can be accessed at http://www.jcomm.info/SPA_MSS. The Team will review the present questionnaire in the light of the outcomes of the MSSE Workshop, with a view to develop with ETOOFS and IHO/WWNWS a complete survey methodology, to provide the feedback necessary for performance assessment of the system (agenda item 3.2). The aim is to conduct a survey in 2011 in order to present the analysis during JCOMM-IV in 2012.

7. A first version of the template to be used for self-assessment reports by Issuing Services was prepared by the ETMSS Chairperson, based on the one used by the NAVAREA co-ordinators. This template was presented and discussed during the meeting of the Task Team on MSI in March 2009 and the MSSE in May 2010. The Team will review this template, expected to be filled annually by Issuing Services or METAREA Coordinators to report to ETMSS (agenda item 3.3).

8. Since 1999, ETMSS has been working on the implementation of graphical/numerical Maritime Safety Information (MSI) broadcast within the GMDSS. The WMO Executive Council, at its sixtieth session (Geneva, June 2008) re-emphasized the continuing importance to mariners in receiving graphical products via radio transmissions and requested JCOMM to continue researching methods for transmitting graphical products to marine users. On the other hand, the WMO Executive Council, at its sixty-first session (Geneva, June 2009), encouraged WMO Members to investigate low-cost options for on-demand approaches that are compatible with Electronic Navigation Charts (ENC). In addition, the imminent increase of ENC systems on SOLAS vessels as regulatory material and the emergence of the e-navigation concept within IMO should reinforce the priority given to this requirement and the need to find appropriate resources to develop a suitable service. Both the ETMSS and ETSI have been working on this issue and ETSI has already developed the *Sea Ice Objects Catalogue* in accordance with IHO standards. The ETMSS has initiated the development of a catalogue on *Met-Ocean Object Classes and Attributes*, which would be an essential tool to enable NMHSs to develop products specifically for Electronic Navigation Chart Systems, allowing the implementation of software to decode and display met-ocean information by the manufacturers of these systems, using the S-57 and S-100 chart data exchange standards. The Team will review and complete the draft catalogue (agenda item 6.2).

Planned actions, projects or priorities for the JCOMM intersessional period 2010-2012

9. JCOMM-III re-implemented the ETMSS (Resolution 5), but significantly modified the Terms of Reference of the Team (see Appendix I). In particular, all operational activities related to marine pollution (MPERSS) and SAR activities are now under the umbrella of ETMSS. In accordance with the ToRs, the ETMSS liaises with and gathers input from other SFSPA teams - ETSI, ET on waves and surges (ETWS) and ET on Operational Ocean Forecasting Systems

(ETOofs), on all aspects of sea ice, sea state, storm surge and ocean circulation relevant to the operation and improvement of maritime safety services and maritime accident emergency support. A core membership has also been selected (see Appendix I). After JCOMM-III, the core members of the Team have proposed to identify two vice-chairpersons, Mr Nick Ashton from UK (activities in liaison with MSI) and Mr Oyvind Breivik from Norway (activities in liaison with MPERSS and SAR).

10. The Commission endorsed the priority activities for the next intersessional period for ETMSS, as described below, in no particular order:

- Improve interaction between the GMDSS Issuing Services and the AMOCs of MPERSS;
- Keep under review the implementation of the GMDSS and MPERSS in the Arctic and continue to support the Issuing Services and AMOCs, to reach the expected target in 2011 for the GMDSS;
- In association with ETWS and ETSI, develop guidelines and recommendations to update WMO-Nos. 471 and 558, especially for the provision of sea state and sea ice in MSI;
- Continue to develop the catalogue on Met-Ocean Object Classes and Attributes to define standards for ENC and e-Navigation, in collaboration with ETSI and guidance from IMO and IHO;
- Facilitate implementation of Quality Management Systems (QMSs) among Members for the provision of MMS (Recommendation 7,).

11. After JCOMM-III, the SFSPA coordinator prepared with ET chairs a draft list of projects, outcomes or deliverables. These were discussed during SCG-V just after the MSSE Workshop in May 2010. Those that could involve ETMSS, described in Appendix III, are summarized below :

- Develop the MPERSS capabilities including the Arctic Ocean **[Project #19]**
- Support Issuing Services for GMDSS and AMOCs for MPERSS in the Arctic Ocean. **[Project #20] (with ETSI)**
- Update WMO n°471 and 558 for sea state in MSI **[Project #21] (with ETWS)**
- Preparation of a Catalogue on Met-ocean Object Class for ENC and e-Navigation **[Project #22] (with ETSI)**
- Facilitate implementation of Quality Management Systems (QMSs) among Members for the provision of Marine Safety Services **[Project #23]**
- Coordinate and support the implementation of the GMDSS in the Arctic Ocean. **[Project #28] (with ETSI)**
- Enrich the GMDSS website (NAVTEX products, Arctic MSI) **[Project #35]**

Attachments

Appendix I - ToR and Membership of ETMSS

Appendix II - GMDSS web site: statistics and metadata for the management of messages

Appendix III - ETMSS Planned Actions

Appendix I

Terms of Reference and Membership of Expert Team on Maritime Safety Services (ETMSS)

Terms of reference

The Expert Team on Maritime Safety Services, in close collaboration with international organizations and other entities representing users' interests, such as the International Maritime Organization, International Hydrographic Organization, International Chamber of Shipping, International Mobile Satellite Organization, and other concerned organizations and bodies on maritime safety, search and rescue and marine pollution issues, including the Global Maritime Distress and Safety System (GMDSS), shall:

- (a) In support of the Maritime Safety, Efficiency, and Search and Rescue (SAR) operations:
 - (i) Monitor and review the operations of marine broadcast systems, including for the GMDSS and others for vessels not covered by the International Convention for the Safety of Life at Sea;
 - (ii) Monitor and review technical and service quality standards for meteorological and oceanographic maritime safety information, particularly for the GMDSS, and provide assistance and support to Members/Member States as required;
 - (iii) Propose actions as appropriate to meet requirements for international coordination of meteorological and related communication services;
 - (iv) Develop technical advice and guidance material on Marine Meteorological Services, including keep under review the *Manual on Marine Meteorological Services* (WMO-No. 558), the *Guide on Marine Meteorological Services* (WMO-No. 471) and *Weather Reporting* (WMO-No. 9, Volume D – *Information for Shipping*), and provide assistance and support to Members/Member States as required;
- (b) In support of the Marine Pollution Emergency Response Support System (MPERSS):
 - (i) Monitor implementation and operations of MPERSS; review and suggest, as necessary, improvements to the contents of the overall system plan; (in consistency with the International Convention for the Prevention of Pollution from Ships, and other international conventions);
 - (ii) Facilitate coordination and cooperation amongst the Area Meteorological and Oceanographic Coordinators (AMOCs) of MPERSS, in particular, with a view to ensuring full and ongoing operations in all areas, as well as the exchange of relevant advice, information, data and products between AMOCs, as appropriate and required;
- (c) Monitor requirements by ensuring feedback from the user communities is obtained through appropriate and organized channels and applied to improve the relevance, effectiveness and quality of services;
- (d) Liaise with and gather input from ETSI, ETWS and ETOOFS on all aspects of sea ice, sea state, storm surge and ocean circulation relevant to the operation and improvement of maritime safety services and maritime accident emergency support;

- (e) Ensure effective coordination and cooperation with concerned organizations, bodies and Members/Member States on maritime safety issues and marine accident emergency support needs;
- (f) Assist Members/Member States in the implementation of services and in the development of standardized methods for the quality assurance related to the provision of MSI, especially for the GMDSS, through capacity-building activities;
- (g) Develop, in accordance with existing standards (for example, from the International Hydrographic Organization), graphical/numerical product specification for marine parameters, foremost wind, sea state, currents and sea ice, in Electronic Navigation Chart Systems;
- (h) Provide advice to the Services and Forecasting Systems Coordination Group and other JCOMM groups, as required, on issues related to maritime safety services and marine accident emergency support;
- (i) Continue to liaise closely with relevant groups and teams of organizations, such as IMO, IHO, ICS, IMSO, EMSA, etc., to coordinate and improve maritime safety services, SAR and marine accident emergency support.

As a general principle, these terms of reference will be implemented through specific, defined, time-limited projects.

General membership

The membership consists of a core membership of up to eight members, including the chairperson, selected to ensure an appropriate range of expertise in the provision of services for maritime safety and efficiency, SAR operations and marine pollution response.

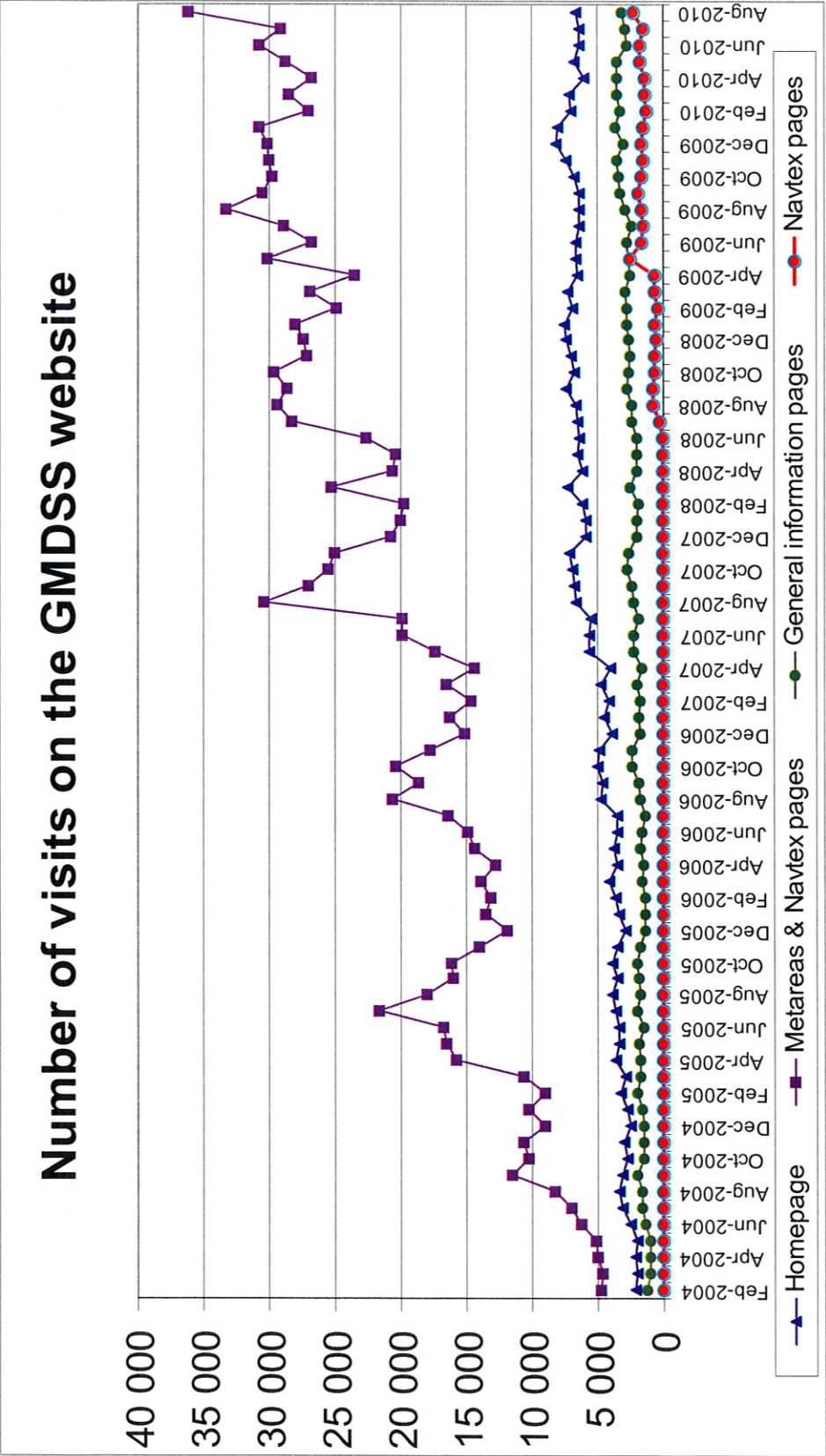
The following experts serve as core members of the ETMSS:

Alasdair Hainsworth (Australia)
Mohamed Aitlaamel (Morocco)
Nicholas Ashton (United Kingdom)
Oyvind Breivik (Norway)
Timothy Rulon (United States)
Valery Martyshchenko (Russian Federation)
Zenghai Zhang (China)

Additional experts may be invited as appropriate, representative of a range of activities related to the implementation of services for maritime safety and efficiency, SAR operations and marine pollution response, as well as representatives of international organizations and other entities representing users' interests, such as the IMO, IHO, ICS, IMSO, and other user groups, on a self-funded basis, and in general with no resource implications to JCOMM.

Appendix II: GMDSS web site : statistics and metadata for the management of messages

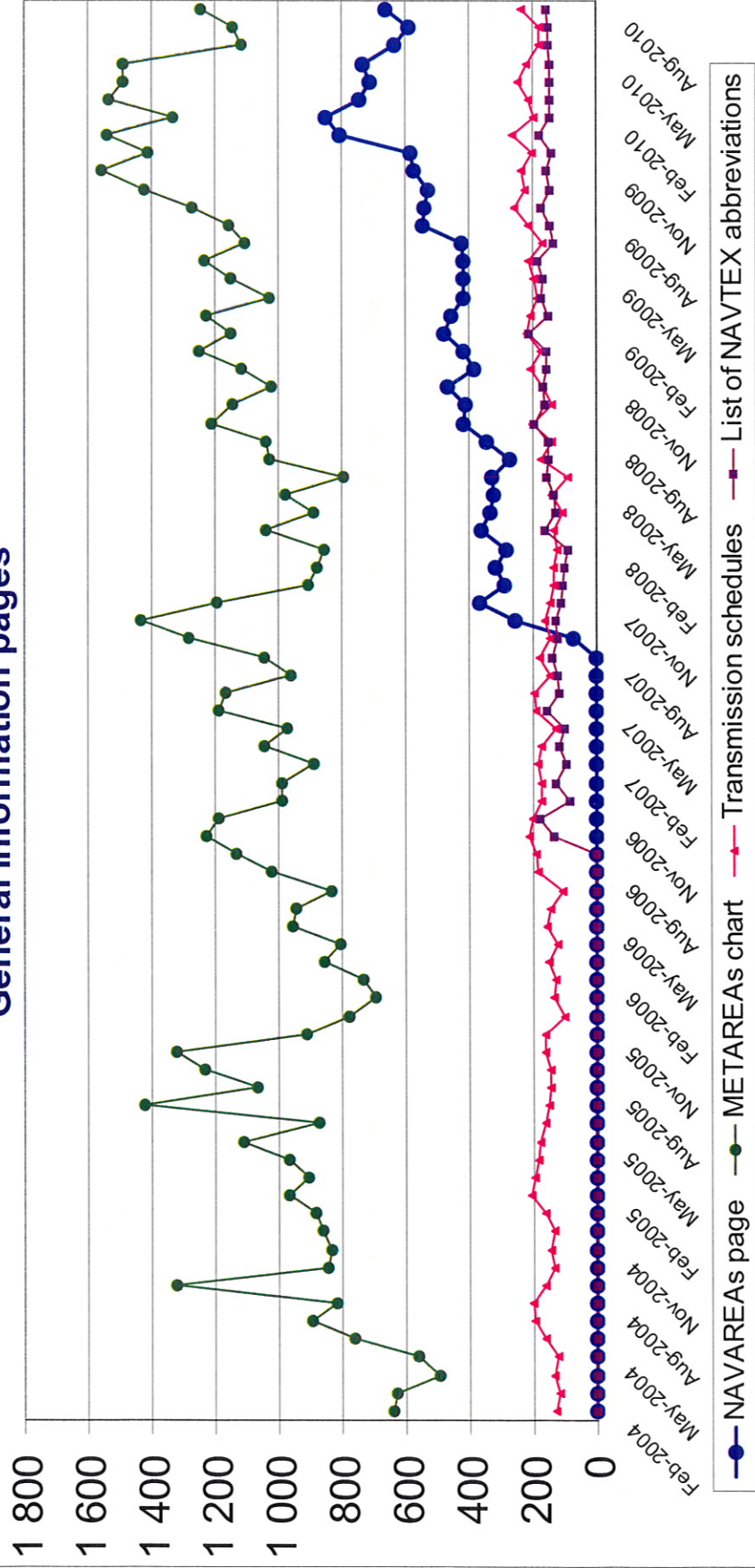
Statistics/hits on the GMDSS web site



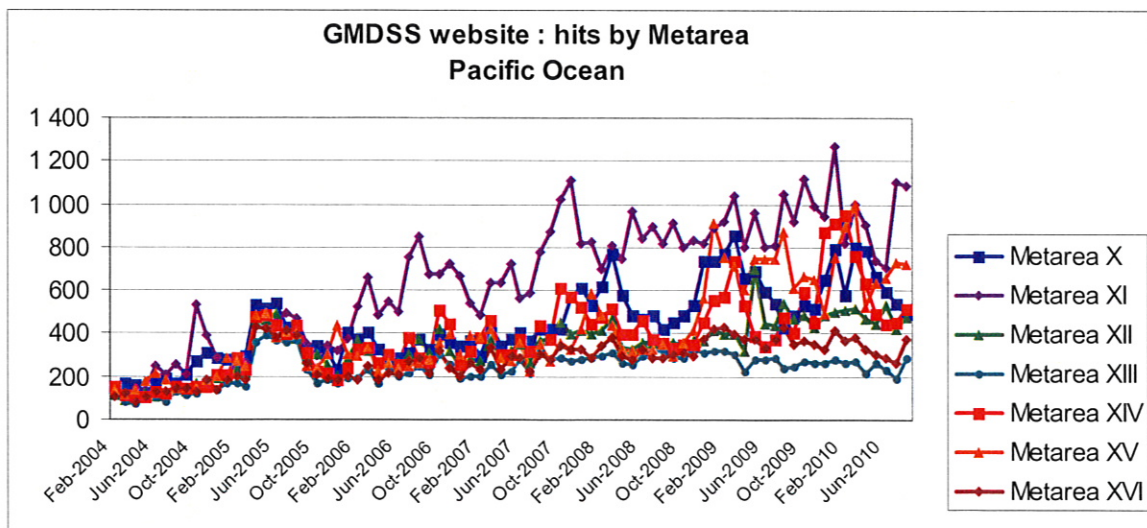
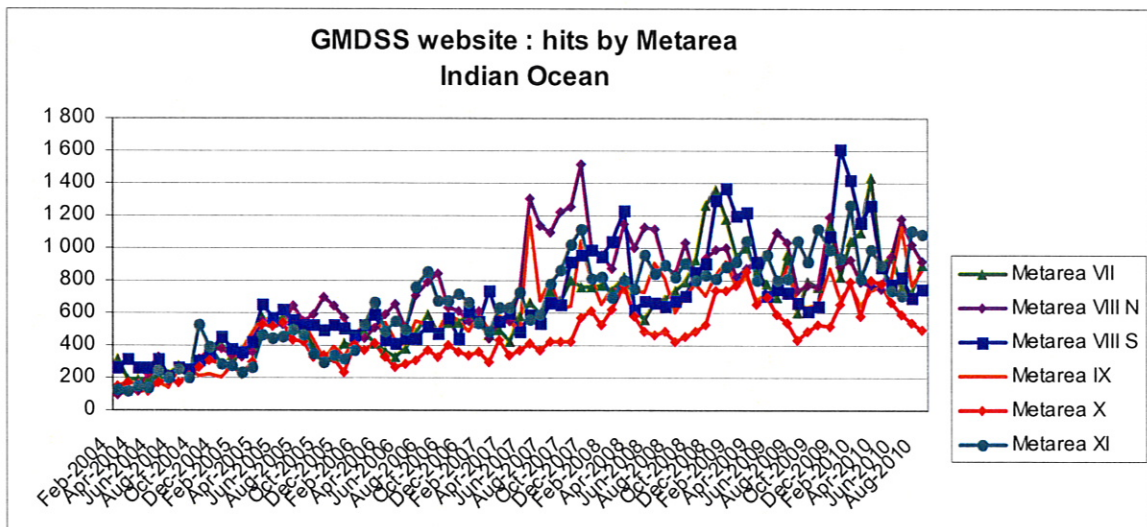
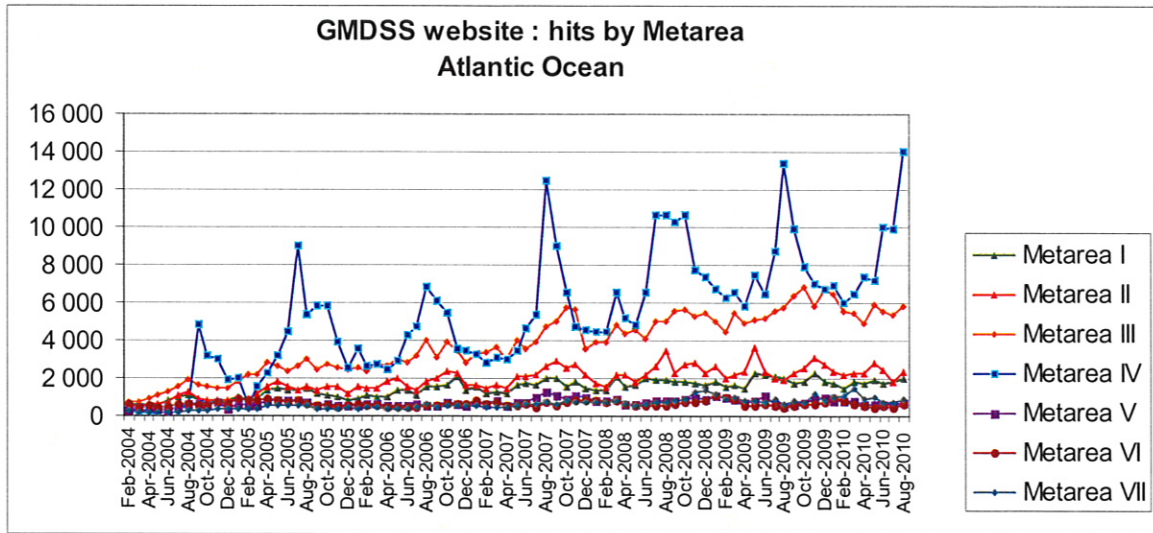
Statistics/hits on the GMDSS web site

Number of visits on the GMDSS website

General information pages



Statistics/hits on the GMDSS web site



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Metadata for the management of messages – EGC SafetyNET (Arctic Areas)

HEADER	METAREA	NAME ON THE WEB SITE	RETENTION (hours)	MANAGEMENT	COMMENTS
FQRA01.RUVV	13	HIGH_SEAS_FORECAST	27	REPLACE	
WORA01.RUVV	13	HIGH_SEAS_WARNING	15	REPLACE	
FQCN01.CWNT	17	MARINE WEATHER FORECASTS NORTH OF 75N (HF NBDP)	27	REPLACE	
FQCN02.CWNT	17	MARINE WEATHER FORECASTS SOUTH OF 75N (SAFETYNET)	27	REPLACE	
FICN21.CWIS	17	SEA ICE BULLETINS NORTH OF 75N (HF NBDP)	27	REPLACE	
FICN22.CWIS	17	SEA ICE BULLETINS SOUTH OF 75N (SAFETYNET)	27	REPLACE	
FQCN03.CWNT	18	MARINE WEATHER FORECASTS NORTH OF 75N (HF NBDP)	27	REPLACE	
FQCN04.CWNT	18	MARINE WEATHER FORECASTS SOUTH OF 75N (SAFETYNET)	27	REPLACE	
FICN23.CWIS	18	SEA ICE BULLETINS NORTH OF 75N (HF NBDP)	27	REPLACE	
FICN24.CWIS	18	SEA ICE BULLETINS SOUTH OF 75N (SAFETYNET)	27	REPLACE	
	19				
	19				
FQRS01.RUSP	20	HIGH_SEAS_FORECAST (including sea ice ?)	27	REPLACE	
WORS01.RUSP	20	HIGH_SEAS_WARNING	15	REPLACE	
FQRA01.RUSP	21	HIGH_SEAS_FORECAST (including sea ice ?)	27	REPLACE	
Warning ?	21				

Metadata for the management of messages – NAVTEX

For the moment, retention is 12 hours for warnings and 24 hours for scheduled forecasts

HEADER	NAVTEX station	POSITION	NAME ON THE WEB SITE	RETENTION (in hours)	MANAGEMENT	COMMENTS
METAREA I						
FPUK73 EGRR	Niton [E]		NITON-FORECAST		REPLACE	
WOUK59 EGRR			NITON-WARNING		REPLACE	
FPUK73 EGRR	Cullercoats [G]		CULLERCOATS-FORECAST		REPLACE	
WOUK55 EGRR			CULLERCOATS-WARNING		REPLACE	
FPUK73 EGRR	Portpatrick [O]		PORTPATRICK-FORECAST		REPLACE	
WOUK57 EGRR			PORTPATRICK-WARNING		REPLACE	
METAREA II						
FQNT51.LFPW	CROSS Corsen [A]	48°24' N 4°47' W	OFF_SHORE_FORECAST	27	REPLACE	
FQNT53.LFPW			OFF_SHORE_FORECAST	27	REPLACE	
WONT51.LFPW			OFF_SHORE_WARNING	15	REPLACE	
METAREA III						
FQM051.LFPW	CROSS La Garde [W]	43°06' N 5°59' E	OFF_SHORE_FORECAST	27	REPLACE	
FQM053.LFPW			OFF_SHORE_FORECAST	27	REPLACE	
WOMQ51.LFPW			OFF_SHORE_WARNING	15	REPLACE	
FQME50 LGAT	Irakleio [H]		IRAKLEIO-FORECAST		REPLACE	
FQME51 LGAT	Kerkyra [K]		KERKYRA-FORECAST		REPLACE	
FQME52 LGAT	Limnos [L]		LIMNOS FORECAST		REPLACE	
METAREA IV						
FZNT25 KNHC	Miami [A]		SW_N_ATLANTIC_S_OF_31N_AND_W_OF_65W FORECAST	15	REPLACE	
FZUS72 KMLB			MELBOURNE_FL FORECAST	15	REPLACE	
WHUS52 KMLB			MELBOURNE_FL WARNING	15	REPLACE	

HEADER	NAVTEX station	POSITION	NAME ON THE WEB SITE	RETENTION (in hours)	MANAGEMENT	COMMENTS
FZUS72 KTBW			TAMPA, FL FORECAST	15	REPLACE	
WHUS52 KTBW			TAMPA, FL WARNING	15	REPLACE	
FZUS72 KMFL			MIAMI, FL FORECAST	15	REPLACE	
WHUS52 KMFL			MIAMI, FL WARNING	15	REPLACE	
FZUS72 KKEY			KEY WEST, FL FORECAST	15	REPLACE	
WHUS52 KKEY			KEY WEST, FL WARNING	15	REPLACE	
WEXX20 PAAQ			TSUNAMI ADVISORY WATCH WARNING	15	REPLACE	
WEXX30 PAAQ			TSUNAMI PUBLIC MESSAGE WARNING	15	REPLACE	
FZNT25 KWNM		Charleston [E]	MURRELS_INLET,_SC_TO_FLAGLER_BEACH,_FL FORECAST	15	REPLACE	
FZUS72 KCHS			CHARLESTON, SC FORECAST	15	REPLACE	
WHUS52 KCHS			CHARLESTON, SC WARNING	15	REPLACE	
FZUS72 KJAX			JACKSONVILLE, FL FORECAST	15	REPLACE	
WHUS52 KJAX			JACKSONVILLE, FL WARNING	15	REPLACE	
WEXX20 PAAQ			TSUNAMI ADVISORY WATCH WARNING	15	REPLACE	
WEXX30 PAAQ			TSUNAMI PUBLIC MESSAGE WARNING	15	REPLACE	
FZNT23 KWNM	Boston [F]		EASTPORT,_ME_TO_SANDY_HOOK,_NJ FORECAST	15	REPLACE	
FZNT21 KWBC			NEW_ENGLAND_AND_SLOPE_WATERS FORECAST	15	REPLACE	
FZNT22 KWBC			W_CENTRAL_AND_N_ATLANTIC FORECAST	15	REPLACE	
FZUS71 KBOX			TAUNTON, MA FORECAST	15	REPLACE	
WHUS51 KBOX			TAUNTON, MA WARNING	15	REPLACE	
FZUS71 KGYX			GRAY_PORTLAND,_ME FORECAST	15	REPLACE	
WHUS51 KGYX			GRAY_PORTLAND,_ME WARNING	15	REPLACE	
FZUS71 KOKX			NEW_YORK FORECAST	15	REPLACE	
WHUS51 KOKX			NEW_YORK WARNING	15	REPLACE	
FZUS71 KCAR			CARIBOU, ME FORECAST	15	REPLACE	
WHUS51 KCAR			CARIBOU, ME WARNING	15	REPLACE	
WEXX20 PAAQ			TSUNAMI ADVISORY WATCH WARNING	15	REPLACE	
WEXX30 PAAQ			TSUNAMI PUBLIC MESSAGE WARNING	15	REPLACE	
FZNT27 KNHC	New Orleans [G]		GULF_OF_MEXICO FORECAST	15	REPLACE	

HEADER	NAVTEX station	POSITION	NAME ON THE WEB SITE	RETENTION (in hours)	MANAGEMENT	COMMENTS
FZNT23 KNHC			SW_AND_TROPICAL_N_ATLANTIC_AND_CARIBBEAN_SEA FORECAST	15	REPLACE	
FZNT24 KNHC			GULF OF MEXICO FORECAST	15	REPLACE	
FZUS74 KLCH			LAKE CHARLES, LA FORECAST	15	REPLACE	
WHUS54 KLCH			LAKE CHARLES, LA WARNING	15	REPLACE	
FZUS74 KBRO			BROWNSVILLE, TX FORECAST	15	REPLACE	
WHUS54 KBRO			BROWNSVILLE, TX WARNING	15	REPLACE	
FZUS74 KCRP			CORPUS CHRISTI, TX FORECAST	15	REPLACE	
WHUS54 KCRP			CORPUS CHRISTI, TX WARNING	15	REPLACE	
FZUS74 KHGX			HOUSTON, TX FORECAST	15	REPLACE	
WHUS54 KHGX			HOUSTON, TX WARNING	15	REPLACE	
FZUS74 KLIX			NEW ORLEANS, LA FORECAST	15	REPLACE	
WHUS54 KLIX			NEW ORLEANS, LA WARNING	15	REPLACE	
FZUS74 KMOB			MOBILE, AL FORECAST	15	REPLACE	
WHUS54 KMOB			MOBILE, AL WARNING	15	REPLACE	
FZUS72 KTAE			TALLAHASSEE, FL FORECAST	15	REPLACE	
WHUS52 KTAE			TALLAHASSEE, FL WARNING	15	REPLACE	
WEXX20 PAAQ			TSUNAMI ADVISORY WATCH WARNING	15	REPLACE	
WEXX30 PAAQ			TSUNAMI PUBLIC MESSAGE WARNING	15	REPLACE	
FZNT24 KWNM		Porthsmouth [N]	SANDY_HOOK_NJ_TO_MURRELLS_INLET_SC FORECAST	15	REPLACE	
FZUS71 KAKQ			WAKEFIELD, VA FORECAST	15	REPLACE	
WHUS51 KAKQ			WAKEFIELD, VA WARNING	15	REPLACE	
FZUS71 KLWX			WASHINGTON, DC, MARYLAND FORECAST	15	REPLACE	
WHUS51 KLWX			WASHINGTON, DC, MARYLAND WARNING	15	REPLACE	
FZUS72 KILM			WILMINGTON, NC FORECAST	15	REPLACE	
WHUS52 KILM			WILMINGTON, NC WARNING	15	REPLACE	
FZUS72 KIMHX			NEWPORT_MOREHEAD FORECAST	15	REPLACE	
WHUS52 KIMHX			NEWPORT_MOREHEAD WARNING	15	REPLACE	
FZUS71 KPHI			PHILADELPHIA, NEW JERSEY FORECAST	15	REPLACE	

HEADER	NAVTEX station	POSITION	NAME ON THE WEB SITE	RETENTION (in hours)	MANAGEMENT	COMMENTS
WHUS51 KPHI			PHILADELPHIA, NEW JERSEY WARNING	15	REPLACE	
WEXX20 PAAQ			TSUNAMI ADVISORY WATCH WARNING	15	REPLACE	
WEXX30 PAAQ			TSUNAMI_PUBLIC_MESSAGE WARNING	15	REPLACE	
FZNT26 KNHC	San Juan [R]		CARIBBEAN SEA AND SW N ATLANTIC FORECAST	15	REPLACE	
WHCA52 TJSJ			SAN_JUAN_PR WARNING	15	REPLACE	
FZCA72 TJSJ			SAN_JUAN_PR FORECAST	15	REPLACE	
WEXX20 PAAQ			TSUNAMI ADVISORY WATCH WARNING	15	REPLACE	
WEXX30 PAAQ			TSUNAMI_PUBLIC_MESSAGE WARNING	15	REPLACE	
METAREA XI						
FQJP61.RJTD	NAHA [G]		ROUTINE SYNOPSIS AND FORECAST FOR NAHA NAVTEX AREA	30	REPLACE	
WWJP71 RJTD			IMPORTANT WARNING FOR NAHA NAVTEX AREA	30	REPLACE	
WWJP81 RJTD			VITAL WARNING FOR NAHA NAVTEX AREA	30	REPLACE	
FQJP62.RJTD	MOJI [H]		ROUTINE SYNOPSIS AND FORECAST FOR MOJI NAVTEX AREA	30	REPLACE	
WWJP72 RJTD			IMPORTANT WARNING FOR MOJI NAVTEX AREA	30	REPLACE	
WWJP82 RJTD			VITAL WARNING FOR MOJI NAVTEX AREA	30	REPLACE	
FQJP63.RJTD	YOKOHAMA [I]		ROUTINE SYNOPSIS AND FORECAST FOR YOKOHAMA NAVTEX AREA	30	REPLACE	
WWJP73 RJTD			IMPORTANT WARNING FOR YOKOHAMA NAVTEX AREA	30	REPLACE	
WWJP83 RJTD			VITAL WARNING FOR YOKOHAMA NAVTEX AREA	30	REPLACE	
FQJP64.RJTD	OTARU [J]		ROUTINE SYNOPSIS AND FORECAST FOR OTARU NAVTEX AREA	30	REPLACE	
WWJP74 RJTD			IMPORTANT WARNING FOR OTARU NAVTEX AREA	30	REPLACE	
WWJP84 RJTD			VITAL WARNING FOR OTARU NAVTEX AREA	30	REPLACE	
FQJP65 RJTD	KUSHIRO [K]		ROUTINE SYNOPSIS AND FORECAST FOR KUSHIRO NAVTEX AREA	30	REPLACE	
WWJP75 RJTD			IMPORTANT WARNING FOR KUSHIRO NAVTEX AREA	30	REPLACE	
WWJP85 RJTD			VITAL WARNING FOR KUSHIRO NAVTEX AREA	30	REPLACE	
FZMY70 PGUM	Marianas (Guam) [V]		MARIANA_ISLANDS FORECAST	15	REPLACE	
WHMY50 PGUM			MARIANA_ISLANDS WARNING	15	REPLACE	

HEADER	NAVTEX station	POSITION	NAME ON THE WEB SITE	RETENTION (in hours)	MANAGEMENT	COMMENTS
FZMY50 PGUM			COASTAL_WATERS_MARIANA_ISLANDS_FORECAST	15	REPLACE	
WEPA40 PHEB			TSUNAMI_ADVISORY_WATCH_WARNING	15	REPLACE	
METAREA XII						
FZPN23 KWNM	Point Reyes [C]		PT_ST_GEORGE_CA_TO_PT_PIEDRAS_CA_FORECAST	15	REPLACE	
FZUS76 KEKA			EUREKA_CA_FORECAST	15	REPLACE	
WHUS56 KEKA			EUREKA_CA_WARNING	15	REPLACE	
FZUS76 KMTR			SAN_FRANCISCO_CA_FORECAST	15	REPLACE	
WHUS56 KMTR			SAN_FRANCISCO_CA_WARNING	15	REPLACE	
WEPA41 PAAQ			TSUNAMI_ADVISORY_WATCH_WARNING	15	REPLACE	
WEAK51 PAAQ			TSUNAMI_PUBLIC_MESSAGE_WARNING	15	REPLACE	
FZAK67 PAJK			EASTERN_GULF_OF_ALASKA_FORECAST	15	REPLACE	
FZAK61 PAFC	Kodiak [J]		WESTERN_GULF_OF_ALASKA_FORECAST	15	REPLACE	
FZAK61 PAJK			SOUTHEAST_AK_FORECAST	15	REPLACE	
FZAK63 PAFC			NORTH_GULF_COAST_AK_FORECAST	15	REPLACE	
WHAK57 PAJK			JUNEAU_AK_WARNING	15	REPLACE	
WHAK58 PAFC			ANCHORAGE_AK_WARNING	15	REPLACE	
FZAK77 PAJK			JUNEAU_AK_FORECAST	15	REPLACE	
FZAK78 PAFC			ANCHORAGE_AK_FORECAST	15	REPLACE	
FZAK80 PAFC			ICE_SEA_ADVISORY_FORECAST	15	REPLACE	
WEPA41 PAAQ	Honolulu [O]		TSUNAMI_ADVISORY_WATCH_WARNING	15	REPLACE	
WEAK51 PAAQ			TSUNAMI_PUBLIC_MESSAGE_WARNING	15	REPLACE	
FZHW61 PHFO			HONOLULU_HI_FORECAST		REPLACE	
FZHW70 PHFO			HONOLULU_HI_FORECAST		REPLACE	
WHHW70 PHFO			HONOLULU_HI_WARNING	15	REPLACE	
FZHW60 PHFO			HAWAII_FORECAST	15	REPLACE	
WEHW40 PHEB			TSUNAMI_ADVISORY_WATCH_WARNING	15	REPLACE	
WEHW50 PHEB			TSUNAMI_PUBLIC_MESSAGE_WARNING	15	REPLACE	
FZPN22 KWNM	Cambria [Q]		PT_PIEDRAS_CA_TO_MEXICAN_BORDER_FORECAST	15	REPLACE	

HEADER	NAVTEX station	POSITION	NAME ON THE WEB SITE	RETENTION (in hours)	MANAGEMENT	COMMENTS
FZUS76 KLOX			LOS_ANGELES_OXNARD,_CA FORECAST	15	REPLACE	
WHUS56 KLOX			LOS_ANGELES_OXNARD,_CA WARNING	15	REPLACE	
FZUS76 KSGX			SAN_DIEGO,_CA FORECAST	15	REPLACE	
WHUS56 KSGX			SAN_DIEGO,_CA WARNING	15	REPLACE	
WEPA41 PAAQ			TSUNAMI_ADVISORY_WATCH WARNING	15	REPLACE	
WEAK51 PAAQ			TSUNAMI_PUBLIC_MESSAGE WARNING	15	REPLACE	
FZPN24 KWNM		Astoria [W]	US_CANADIAN_BORDER_TO_PT_ST_GEORGE,_CA FORECAST	15	REPLACE	
FZPN25 KWBC			WASHINGTON AND OREGON WATERS FORECAST	15	REPLACE	
FZPN26 KWBC			CALIFORNIA WATERS FORECAST	15	REPLACE	
FZUS76 KPQR			PORTLAND,_OR FORECAST	15	REPLACE	
WHUS56 KPQR			PORTLAND,_OR WARNING	15	REPLACE	
FZUS76 KSEW			SEATTLE,_WA FORECAST	15	REPLACE	
WHUS56 KSEW			SEATTLE,_WA WARNING	15	REPLACE	
FZUS76 KMFR			MEDFORD,_OR FORECAST	15	REPLACE	
WHUS56 KMFR			MEDFORD,_OR WARNING	15	REPLACE	
WEPA41 PAAQ			TSUNAMI_ADVISORY_WATCH WARNING	15	REPLACE	
WEAK51 PAAQ			TSUNAMI_PUBLIC_MESSAGE WARNING	15	REPLACE	
FZAK62 PAFC	Kodiak [X] Area 17 ?		BERING SEA FORECAST	15	REPLACE	
FZAK64 PAFC			WESTERN_AK FORECAST	15	REPLACE	
FZAK62 PAFG			ARCTIC FORECAST	15	REPLACE	
FZAK61 PAFG			WESTERN_ALASKA FORECAST	15	REPLACE	
WHAK58 PAFC			JUNEAU,_AK WARNING	15	REPLACE	
WHAK59 PAFG			ANCHORAGE,_AK WARNING	15	REPLACE	
FZAK78 PAFC			JUNEAU,_AK FORECAST	15	REPLACE	
FZAK79 PAFG			ANCHORAGE,_AK FORECAST	15	REPLACE	
FZAK80 PAFC			ICE_SEA_ADVISORY FORECAST	15	REPLACE	
WEPA41 PAAQ			TSUNAMI_ADVISORY_WATCH WARNING	15	REPLACE	
WEAK51 PAAQ			TSUNAMI_PUBLIC_MESSAGE WARNING	15	REPLACE	

Appendix III
ETMSS Planned Actions

Project #19: Developing the MPERSS capabilities including the Arctic Ocean

Project Leaders: Henri Savina, Oyvind Breivik

Project Description:

The primary objective of Marine Pollution Emergency Response Support Systems (MPERSS) is to have in place a coordinated, global system for the provision of meteorological and oceanographic information for marine pollution emergency response operations outside waters under national jurisdiction. The areas covered have the same geographical distribution as those for the GMDSS, and Area Meteorological Coordinators have been identified for all of them.

- **Expected Outcomes:**
 - New MPERSS capability for the Arctic Ocean
 - Recognition of MPERSS services outside the WMO (e.g., IMO)
 - Updated user requirements for MPERSS
- **Key Activities:**
 - Coordinate with Issuing and Ice services to implement the MPERSS for the Arctic Ocean
 - Interact/outreach to key International bodies (e.g., IMO/MEPC)
- **Timeline, Major milestones:**
 - Initial MPERSS capability established – July 2011
- **ETs, Other Contributing Organizations:**
 - ETMSS, ETSI, ETOOFS

Project #20: Supporting Issuing Services and AMOCs for GMDSS in the Arctic Ocean

Project Leader(s): *Vasily Smolyanitsky, Henri Savina*

Project Description:

The Arctic METAREAs are characterized by the ice cover occurrence during the whole year which is a serious obstacle for navigation and a factor of risk. The ice Services provide support for both for efficiency of ice navigation and the safety of navigation in the ice covered waters. The goal of the GMDSS in the Arctic is to warn the navigators on the danger of encountering the ice within the route of navigation and to support further decision-making of changing the route or requesting ice-breaker support and/or support from the Issuing ice Services. Canada, Norway and Russian Federation are Preparation Services for METAREA XVII-XXI and adjacent parts of METAREA I and IV with support from Denmark and USA.

Following WMO/IHO/IMO decisions the GMDSS in the new Arctic METAREAs should be maintained in an Initial Operational Capability (IOC) since 1 July 2010 and implemented in Full Operational Capability (FOC) since 1 July 2011. To that effect ETSI will a) update relevant IHO and WMO publications for a complete and unambiguous definitions of ice information to be included into the GMDSS text broadcasts and "disclaimer" for additional information for ice navigation, b) establish operating procedures to coordinate text ice information between adjacent Arctic METAREAs to ensure continuity of the ice edge at the METAREA boundary. Simultaneously, additional (graphic and/or binary) sea ice information on Ice Logistics Portal (www.bsis-ice.de/lceportal) will be organized by METAREAs with links from Ice Logistics Portal to GMDSS website and reciprocal links from GMDSS website. The ETSI will also review and provide amendments on the IMO/WMO Guidance Document for the World Wide Met-Ocean Information for reference to WMO No. 574 – Sea Ice Services in the World, monitor provision of ice information in the Antarctic, monitor and determine what countries transmit graphic ice charts by radiofax and advise WMO Secretariat to update Publication No. 9 accordingly.

- **Expected Outcomes:**
 - Experimental suite of Met-Ocean products for the Arctic (text)
 - Experimental suite of Met-Ocean products for the Arctic (graphic)
- **Key Activities:**
 - Development of integrated sea ice-marine weather text products
 - Development of integrated sea ice-marine weather graphic products
- **Timeline/milestones:**
 - July 2011: Text suite available
- **ETs, Other Organizations and participants:**
 - ETSI, ETMSS, ETOOFS

Project #21: **Update WMO 471 and 558 for sea state in MSI**

Project Leader(s): **Henri Savina, Val Swail**

Project Description:

There is a significant room for improving the provision of sea state, that should be considered as the most important parameter, in Maritime Safety Information (MSI). At the moment, the majority of Issuing Services preparing GMDSS MSI provide information on the significant wave height only, generally using the Douglas scale. This is very limited in comparison with data available from the NWP and certainly the constraints and needs of ships at sea. Many accidents occurred in coastal or open seas due to sea state, where significant wave heights were far below the thresholds fixed for the vessels, but in situations where the sea state was complex (e.g. cross seas) or unusual (e.g. steep sea, risk of abnormal or freak waves). Key parameters should be proposed to provide more useful information for the safety of ships, especially in complex and dangerous seas. Type of parameters, and the related thresholds if any, should be defined in association with the ship masters, owners and manufacturers. The provision of improved sea state products should then be promoted among the Issuing Services and the WMO recommendations and guidelines updated accordingly.

- **Expected Outcomes:**

- Guidelines and recommendations for updating WMO 471 and 558 on Sea State in MSI
- Promote the provision of improved sea state products among the issuing services

- **Key Activities:**

- Review the documents
- Update key parameters/guidance
- Coordinate with the user survey (Proj. #4)

- **Timeline, Major milestones:**

- ETWS to provide input: May 10
- ETMSS to incorporate inputs into the survey: Dec. 2010

- **ETs, Other Contributing Organizations**

- ETMSS, ETWS, ETOOFS

Project #22: Catalogue on Met-Ocean Object Class for ENC and e-Navigation**Project Leader(s):** *Henri Savina***Project Description:**

Since 1999, ETMSS has been working on the implementation of graphical/numerical Maritime Safety Information (MSI) broadcast within the GMDSS. The WMO Executive Council, at its sixtieth session (Geneva, June 2008) re-emphasized the continuing importance to mariners in receiving graphical products via radio transmissions and requested JCOMM to continue researching methods for transmitting graphical products to marine users. On the other hand, the WMO Executive Council, at its sixty-first session (Geneva, June 2009), encouraged WMO Members to investigate low-cost options for on-demand approaches that are compatible with Electronic Navigation Charts (ENC). In addition, the imminent increase of ENC systems on SOLAS vessels as regulatory material and the emergence of the e-navigation concept within IMO should reinforce the priority given to this requirement and the need to find appropriate resources to develop a suitable service. Both the ETMSS and ETSI have been working on this issue and ETSI has already developed the *Sea Ice Objects Catalogue* in accordance with IHO standards. The ETMSS has initiated the development of a catalogue on *Met-Ocean Object Classes and Attributes*, which would be an essential tool to enable NMHSs to develop products specifically for Electronic Navigation Chart Systems, allowing the implementation of software to decode and display met-ocean information by the manufacturers of these systems, using the S-57 and S-100 chart data exchange standards.

The IMO e-Navigation concept reinforce the need to go forward on this issue, to be able to finalize the catalogue on Met-Ocean Object Class for ENC and e-Navigation, especially for parameters included in MSI. A strong support and contribution from ETSI is expected, as the Team has already developed such catalogue for sea ice. WMO, through the Secretariat and ETMSS, need also to be proactive in dealings with IHO and IMO on e-navigation development, to ensure compatibility between e-navigation and future metocean services by Members.

- **Expected Outcomes:**

- Met-Ocean object class for parameters included in MSI (wind, wave height, etc...) and additional met-ocean parameters (surface current,...), based on templates from the Ice Objects Catalogue.

- **Key Activities:**

- Coordinate with IHO to validate requirement
- Finalize the draft object catalogue

- **Timeline/milestones:**

- Oct 2010: Meeting between WMO/IHO/IMO
- Jan 2012: Finalize the met-ocean object class

- **ETs, Other Organizations and participants:**

- ETMSS, ETWS, ETSI, IHO, IMO

Project #23: Facilitate implementation of QMS among members of the provision of MMS

Project Leader(s): Henri Savina

Project Description:

Quality Management Systems (QMS) for aviation has being undertaken within a global regulatory environment. If such regulations do not presently exist for marine services, IMO is moving in this general direction. In order to ensure the use of best practises and the improvement of value for mariners, JCOMM promotes the implementation of Quality Management Systems (QMS) within the NMS preparing MSI. JCOMM should take the lead within WMO in the provision of support to developing countries in implementing QMS as they further developed their marine services. A process for moving forward will be prepared and guidelines for implementation of QMS by Issuing Services will also be drafted by Bryan Boase, member of MAN with specific responsibility for QMS. Those documents will be reviewed by ETMSS and MAN.

As a first step, a QM training, focused on Internal Audit procedures, was provided to Issuing Services by a QM specialist supporting the Australian Bureau of Meteorology during the Workshop for Enhancement of Maritime Safety Services in May 2010. That allowed awareness and demystification of QMS practices for participants, and acquisition of an insight into the practical implementation of a QMS within an NMHS. Participants were formally provided with an *"introduction to internal QM auditing processes" certificate* at the end of this item, which indicated they had had an introduction to internal QM auditing processes.

- **Expected Outcomes:**
 - Issuing Services are trained for QMS
 - Guidance documents for QMS implementations
- **Key Activities:**
 - QMS trainings
 - Preparations for guidance documents on implementations
- **Timeline, Major milestones:**
 - MSS training workshop – May 2010
 - Draft documents on QMS implementation – Sept. 2010 (ETMSS-3)
- **ETs, Other Contributing Organizations:**
 - ETMSS, ETSI, ETOOFS, MAN

Project #28: Coordinate and Support the implementation of GMDSS in the Arctic Ocean**Project Leader(s):** *Vasily Smolyanitsky, Henri Savina***Project Description:**

Recognizing the increased use in the Arctic region by the marine community, the IMO decided to expand the GMDSS into the whole Arctic Ocean, enhancing a proposal submitted by the Russian Federation. It therefore established in 2006 a joint IMO/IHO/WMO Correspondence Group (CG) on Arctic Maritime Safety Information (MSI) services to address this issue. Five (5) new NAV/METAREAs have been defined. Canada (METAREAs XVII & XVIII), Norway (METAREA XIX) and the Russian Federation (METAREAs XX & XXI) offered to act as the new Issuing Services for these new areas. The aim of "Full Operational Status" being declared at COMSAR 15 in March 2011 was proposed by the CG. The Expert Team on Maritime Safety Services has been active in this joint IMO/IHO/WMO Correspondence Group in ensuring that all relevant issues for the METAREA Issuing Services are properly addressed. In addition, the focal points for METAREAs I, II and IV also agreed to provide assistance to the new METAREA Issuing Services in developing their operating plans for the implementation of the GMDSS in the Arctic areas. During the workshop on Enhancement of Maritime Safety Services (Melbourne, May 2010), the status of implementation of the system was reviewed, including any difficulties or major issues encountered. The workshop was pleased to note the progress being made by all three Issuing Services, covering the five new METAREAs, with a July 2010 date for extended testing of GMDSS broadcasts, and a target July 2011 implementation date, both likely to be met. A number of common issues across the Arctic METAREAs were noted. Some were agreed as requiring wider discussion within the ETMSS, such as possible review and modification of METAREA boundaries, protocols for ensuring consistency between GMDSS and national products, coordination and consistency across METAREA boundaries, and the service gap over Hudson Bay.

- **Expected Outcomes:**

- GMDSS services implemented in the Arctic METAREAs in 2011

- **Key Activities:**

- Revise WMO Manuals and Guides for Marine Meteorological Services for Sea Ice
 - Procedures for coordinated delivery of services in the Arctic METAREAs
 - Support issuing services for implementation of the GMDSS

- **Timeline/milestones:**

- June 2010: Revise Manuals and Guides
 - Oct 2010: Procedures established
 - July, 2011: GMDSS services implemented in the Arctic Ocean

- **ETs, Other Organizations and participants:**

- ETSI, ETMSS

Project #35: Enrichment of the GMDSS website

Project Leader(s): Henri Savina

Project Description:

The JCOMM GMDSS-Weather Website (<http://weather.gmdss.org>) continues to provide access, in complement to the official dissemination channels, to the in-force official Maritime Safety Information (scheduled forecasts and warnings) prepared for the GMDSS. Météo-France has developed, manages and hosts this website, which has been in operation since 2004. Most of the MSI prepared for SafetyNET dissemination by the METAREA Issuing Services are included (the messages prepared for the Arctic to be added when available). A number of NAVTEX bulletins (around 10 %) are also already available (e.g., METAREAs I, II, III, IV and XI) [see for example <http://weather.gmdss.org/II.html>]. The aim is to provide access to most of the NAVTEX products in the near future. In this context, Issuing Services are urged to ensure that NAVTEX messages prepared for transmitters within their area of responsibility are available on the GTS and to collect the related metadata for inclusion on the GMDSS website. The objective is to reach a rate between 50 and 70 % before JCOMM-IV in 2012.

- **Expected Outcomes:**

- Inclusion of significant part of the MSI prepared for NAVTEX dissemination
- Link to graphical products (e.g., IPY website)

- **Key Activities:**

- Make necessary arrangements for the availability of the NAVTEX products on the GTS (50-70%)
- Collection of metadata related to the NAVTEX products

- **Timeline, Major milestones:**

- 10% May 2010
- 30% Oct. 2010 (By ETMSS-3)
- 50-70% by JCOMM-IV

- **ETs, Other Contributing Organizations:**

- ETMSS