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| **World Meteorological Organization****JOINT WMO/IOC TECHNICAL COMMISSION FOR OCEANOGRAPHY AND MARINE METEOROLOGY (JCOMM)****EXPERT TEAM ON SEA ICE (ETSI)****Sixth Session****STEERING GROUP FOR THE PROJECT GLOBAL DIGITAL SEA ICE DATA BANK (GDSIDB)****Fourteenth Session**Helsinki, 28 February to 3 March 2017 | **Intergovernmental Oceanographic Commission (of UNESCO)****ETSI-6/GDSIDB-14/Doc. 1.2.1**Submitted by:Secretariat, ETSI 05.I.2017**DRAFT**  |

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**PROVISIONAL AGENDA**

**Tuesday 28 February 2017 (09:00 – 17:00)**

**1. Opening of the meeting**

1.1 Opening

1.2 Adoption of the agenda

1.3 Working arrangements

**2. Reports**

**2.1 Guidance and Requirements from JCOMM and WMO-IOC including MAN-13**

**2.2 Report by the Chairperson of the ETSI**

**2.3 Reports on national and regional practices**

2.3.1 Reports by the Members of the ETSI

2.3.2 BSIM, EIS, NAIS, IICWG reports

2.3.3 Iceberg services (IIP)

2.3.4 Report on collaboration in the Southern Ocean sea ice and icebergs analysis

2.3.5 Updates on global and regional sea ice and icebergs services and best practices for WMO-574

 Actions – add para 1 May

**3. WMO sea ice guidance material**

**3.1 Updates to technical publications**

3.1.1 Review of icebergs and fresh-water ice documentation

 action make available, find appri form

3.1.2 Updates to “SIGRID-3” version 3 (WMO/TD-No.1214)

 action – tech updates for version 3.1 1 April

 action – update IOC with version 3.1 attributes

 action – significant updates for version 4 – sep 2017 draft for IICWG

3.1.3 Updates to “Ice chart color standard” (WMO/TD-No.1215)

 action – tech updates for version 1.1

3.1.4 Review of sea ice in ENC/ECDIS

3.1.4.1 Updates to “Ice Objects Catalogue” (JCOMM-TR-080)

3.1.4.2 Updates “S-411 Ice Information Product Specification” (JCOMM-TR-081)

see item 3.1.2

action: update s-411 to follow s-100 version 2

action update portrayal following changes to SIN vol III and POLARIS

3.1.4.3 Items for review during joint ETMSS-ETSI discussion (agenda items 4.2, 4.4)

3.1.5 Review of “Sea ice nomenclature” (WMO-No. 259)

3.1.5.1 Updates and changes to volume I - Sea ice terminology

Action .- add new terms

Vol II

action – develop a draft, add satellite images and extend metadata for photos

3.1.5.2 Updates to volume III – Sea ice coding tables and symbology

Action: simplify icebergs symbols

3.1.5.3 Management of the document (electronic and hard copies) (disc. - discussion)

Action: develop a rec for JCOMM to approve the changes and endorse SIN, SIGRID, IOC, S-411, 574

3.1.6 Review of coding tables related to sea ice in WMO Manual on Codes (WMO–No.306)

**3.2 Harmonization and management issues**

3.2.1 New and outstanding issues

3.2.1.1 Floating ice best practices and observation protocols in GCW (doc)

Action: follow SIN, map to SIGRID

3.2.1.2 Ice numerical forecasting and input for ETOOFS manual (doc/disc.)

Action – NIS will contribute

3.2.1.3 “Old ice in summer”, “Manual for sea-ice observers”) (disc.)

3.2.2 Harmonization issues –duplication versus reference of material (disc.)

3.2.3 Management of the sea ice standards (disc.)

3.2.3.1JCOMM web-site (<http://jcomm.info>) (disc.)

 3.2.3.2 GCW portal (<http://globalcryospherewatch.org/>)

 Action provide updates to JCOMM web-site on sea ice docs

**3.3 (15:30-16:00) Ice Services contribution to WMO YOPP 2018-2019 and feedback (ETSI/WCRP PPP SG teleconference, 30’)**

 Action: interaction and contribution to YOPP

**Wednesday 1 March 2017 (09:00 – 17:00)**

## 4 Joint ETMSS/ETSI Discussion

Under this agenda item, the participants will be presented with reports by representatives of IMO, WMO, IHO and IMSO on overall activities and actions in relation with the GMDSS. Focus should be given to information relevant for the Issuing Services (identification of non-appropriate practices for metocean MSI prepared for SafetyNET or NAVTEX broadcasts, suggested improvements, expected or planned evolutions or emerging technologies with potential consequences for the NMHS issuing GMDSS MSI). In particular, satellite distribution systems (including focus on Arctic areas, information on the new System Definition Manual), potential new provider for service transmission and associated impacts, the implementation of the Polar Code, the IMO resolutions and WMO documentation relevant to the World-Wide Met-ocean Information and Warning Service (WWMIWS) and the GMDSS modernization would be valuable.

### 4.1 Reports by Partner Organizations for GMDSS Implementation

4.1.1 IHO Update

4.1.2 WMO Update

4.1.3 IMO Update

4.1.4 IMSO Update

### 4.2 Implementation Matters relating to the GMDSS Maritime Safety Information (MSI) Broadcast System and Services

4.2.1 Progress on Electronic Navigational Charts (ENC) - S-411 and S-412

4.2.2 Polar matters (GMDSS, Polar code)

4.2.3 Outcome of the 3rd session of the IMO Sub-Committee on Navigation, Communications and Search and Rescue (NCSR-3; Mar 2016)

### 4.3 Review of Guidance Documents for METAREA Coordinators

4.3.1 WMO Manual on Marine Meteorological Services, WMO No. 558.

 Action: develop more changes, e.g. on space, check that addition are in 558

 Action: develop mechanism on feedback and participate in Client Consultation Committte

4.3.2 WMO Guide on Marine Meteorological Services, WMO No. 471.

 Action: check how sea ice and icebergs coding are reflected in 471

4.3.3 WMO - IMO resolution on Met-ocean services Assembly resolution A.1051(27)

4.3.4 Joint IMO/IHO/WMO Manual on MSI (MSC.1/Circ.1310)

### 4.4 Emerging Technologies/Modernization

### 4.4.1 Manufacturers’ presentations (Inmarsat, Iridium)

4.4.2 Update on GMDSS Modernisation Plan

**Thursday 2 March 2017 (08:30 – 14:00)**

**5. Sea ice climatology (14th session of the Steering Group for the GDSIDB project)**

**5.1 Reports by ETMC and GDSIDB members**

5.1.1 Progress on MCDS – report and guidance from JCOMM ETMC

 Action: GDSIDB to CMOC jointly with ETMC

 Action: look after VOS and other obs in Polar regions and improve situation

 Action: check schema for sea ice climatology in 471

5.1.2 Status of GDSIDB project at AARI and NSIDC

 Action: continue as it is, ask the ETSI members for regular updates

 Action; adverse the data, develop procedures for errors and QC

5.1.3 Review of sea ice and icebergs climatology products

 Action: develop links to national climatologies in weather.gmdss.org (Pub.9 Vol D)

Action: review the list of existing climatologies

 Action: develop climatologies for use with Polar Code

5.1.4 CMOC-GDSIDB / Polar GDAC – status and plans

**5.2 Sea ice information systems and product delivery**

5.2.1 Review of the WMO guidance material related to sea ice climatology

5.2.2 Sea ice and icebergs information in WMO GTS and WIS

5.2.3 Review of ice information portals

* Ice Logistics Portal
* Polarview
* GCW portal
* Sea ice in APRCC-network

**5.3 Proposals for new contributions to the GDSIDB from Member States**

**5.4 Offsite technical visit:** an excursion to Maritime Rescue Sub-Center (MRSC Helsinki) of the Finnish Border Guard and to the Vessel Traffic Services (VTS) Center operated by the Finnish Transport Agency.

**Friday 3 March 2017 (08:30 – 17:00)**

**6. Sea ice training and CB**

**6.1 Sea ice analysis workshops**

6.1.1 Report on 4th and 5th Ice analyst workshops

6.1.2 Future themes for IAW

 Action: support min-IAW in Sep 2017

 Action: support IAW-6 in May-June 2018

**6.2 Training material (COMET, etc)**

 Action: statistics for COMET modules

**7. Requirements to sea ice services and information**

7.1 Polar code in effect from Jan 1st 2017 and its implications for Ice Services

7.2 Ice navigation portfolios and predefined packages

### 7.3 Role of ice services in Search and Rescue (SAR)

 Action: use text from IICWG as a starting point, modify procedures for contact lists

### 7.4 Updates for sea ice in the WMO Rolling Requirements Review

7.5 JCOMM Questionnaires and user feedback

 Action: develop a minimum set of rec for a safe ice navigation

Action: write a summary for EC-PHORS

 Action: provide input to WMO Secretariat for WMO-IMO meeting

Action: follow what is happening with seas ice IMO STCW

**8. Collaboration and Partnership**

8.1 Relations to IICWG and JCOMM bodies

8.2 Polar Initiative activities (EC-PHORS, GCW, PPP, SAON, APRCC-network)

8.3 Relations to other WMO/IOC (GFCS, GEBCO) and international (IHO, IMO, AC/PAME) programmes

**9. ETSI future activities and working plan for the current intersessional period**

9.1 Proposals for JCOMM-5 Scientific and Technical Workshop

9.2 ETSI membership and ToR

9.3 Update to WP projects

 Action: Update WP

**10. Other issues**

**11. Review of action items**

**12. Closure of the session**

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