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| WORLD METEOROLOGICAL ORGANIZATIONCOMMISSION FOR BASIC SYSTEMS-----------------------------FIRST MEETING OFINTER-PROGRAMME EXPERT TEAM ONCODES MAINTENANCEGENEVA, SWITZERLAND, 24 - 28 JULY 2017 |  | IPET-CM-I / Doc. 8.2 (7)(22. 7. 2017)-------------------------ITEM 8.2ENGLISH ONLY |

Status of migration

**Status of migration to TDCFs within JCOMM**

*Submitted by* *David Berry (on behalf of JCOMM)*

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**Summary and Purpose of Document**

This document summarises the templates for reporting marine observations on BUFR on the GTS.

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**ACTION PROPOSED**

The team are invited to note the progress to table driven codes within the marine community.

**ANNEXES:**

 1. List of BUFR templates in use within JCOMM observations programme area.

**DISCUSSIONS**

Annex I summarises the templates for reporting marine meteorological and oceanographic observations in BUFR. The majority of marine observations for buoys, VOS and profiling Argo floats are now reported in either TAC and BUFR or BUFR only. Table 1 lists the number of reports distributed in BUFR and TAC on the GTS and retrieved by the sources listed. Migration to BUFR for E-ASAP observations was completed in 2016. Migration of BATHY reports to BUFR is underway and is almost complete[[1]](#footnote-1). A BUFR template for TRACKOB is available but has been reported to include limited metadata and to be of limited effectiveness1. Efforts are underway within the JCOMM Ships Of Opportunity Programme to revise the template.

**Table 1: Number of observations from marine platforms reporting in TAC and BUFR over the periods specified.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Platform** | **Format** | **Sampling period** | **Count** | **Source** |
| VOS | BUFR | 2017/06/01 – 2017/06/30 | 145841 | JCOMMOPS[[2]](#footnote-2) |
|  | TAC | 2017/06/01 – 2017/06/30 | 159029 | JCOMMOPS |
|  | BUFR | 2017/06/29 – 2017/06/29 | 6489 | Paul Poli (Météo-France) |
|  | TAC | 2017/06/29 – 2017/06/29 | 7281 | Paul Poli (Météo-France) |
| Argo | BUFR | 2016/03/01 – 2017/02/28 | 12396 / month | Anh Tran (Fisheries and Oceans Canada) |
|  | TAC | 2016/03/01 – 2017/02/28 | 12446 / month | Anh Tran (Fisheries and Oceans Canada) |
| Moored buoy | BUFR | 2017/06/29 – 2017/06/29 | 8867 | Paul Poli (Météo-France) |
|  | TAC | 2017/06/29 – 2017/06/29 | 8562 | Paul Poli (Météo-France) |
| Drifting buoy | BUFR | 2017/06/29 – 2017/06/29 | 17888 | Paul Poli (Météo-France) |
|  | TAC | 2017/06/29 – 2017/06/29 | 14653 | Paul Poli (Météo-France) |

**PROPOSAL**

 None, for information purposes.

**Annex I**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***TAC*** | ***Description*** | ***Current template(s)*** | ***Status*** | ***Plans/comments*** |
| **FM13-XIV SHIP** | **VOS data** | [B/C10 - Regulations for reporting SHIP data in TDCF](http://www.wmo.int/pages/prog/www/WMOCodes/BC_Regulations/BC10-SHIP.doc)  | Operational (TM308009) |  |
| **VOS data** | [Synoptic reports from sea stations suitable for SHIP observation data from VOS stations](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/SHIP_VOSobs.doc)  | Operational (TM308014) | Replaces / supersedes TM308009 |
|  | **Offshore platforms** | Template for the representation of observations from offshore platforms  | Validated (TM308017) | Proposed FT2017-2 implementation |
| **FM18-XII BUOY** | **Drifting buoy data** | Template for the representation from drifting buoys | Operational (TM315009) | Simplified template specific to drifting buoys |
| **Moored buoy data** | Template for the representation of data from moored buoys | Operational (TM315008) | Simplified template specific to moored buoys, including directional and non-directional wave data |
| **Wave buoy data** | Template for the representation of data from moored buoys | Operational (TM315008) | Plans to update template to include additional wave parameters.  |
| **Argo data** | [Sub-surface profiling floats](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/BUOYTESACBATHY.doc)  | Operational (TM315003) | Additional sequences being defined as required to extend template. |
| **FM36-XI Ext. TEMP SHIP** | **ASAP data** | [B/C25 - Regulations for reporting TEMP, TEMP SHIP, TEMP MOBIL data in TDCF](http://www.wmo.int/pages/prog/www/WMOCodes/BC_Regulations/BC25-TEMP.pdf) | Operational (TM309052) | No specific plan for this template |
| **ASAP data** | UKMO template for representation of radiosonde data with geopotential height as the vertical coordinate | Operational (revisited in July 2010) |  |
| **FM62-VIII Ext. TRACKOB** | **TRACKOB data** | [TRACKOB data](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/TRACKOB_TM308010.doc) – ThermoSalinoGraph (TSG) data and metadata | Operational (TM308010) | Plans to update template to include additional metadata. |
| **FM63-XI Ext. BATHY** | **XBT data** | [New BUFR template for XBT Temperature Profile data](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/NEW_Proposed_XBT_Template_revJA_ver10.2.doc) | Operational (TM315004)  |  |
| **FM64-XI Ext. TESAC** | **CTD / TESAC** | Template for the representation of data derived from a ship based lowered instrument measuring subsurface seawater temperature, salinity and current profiles. | Operational (TM 315007) |  |
| **FM65-XI Ext. WAVEOB** | **Wave buoy data** | [Templates for the wave observations from different platforms suitable for WAVEOB data](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/WAVEOB_TM308015_r3.doc) | Operational (TM308015) and (TM308016) |  |
| **N/A** | **Sea-level data** | [BUFR/CREX templates for tsunameter data and dart buoy system messages](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/TSUNAMETER_TM306027.doc)  | Operational (TM306027) | No specific plan for this template |
| **Sea-level data** | [BUFR/CREX templates for reporting time series of tide data](http://www.wmo.int/pages/prog/www/WMOCodes/Ref_Templates/TIDE_timeseries.doc) | Validation | Template should undergo validation |

1. [SOT-9-Doc 10.4.2-BUFR Template and implementation for XBT-XCTD-TSG data](http://jcomm.info/index.php?option=com_oe&task=viewDocumentRecord&docID=18421) [↑](#footnote-ref-1)
2. <http://www.jcommops.org/ftp/SOT/MAPS/2017-06-VOS_TAC_TDC.png> [↑](#footnote-ref-2)