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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  SECOND MEETING OF  INTER-PROGRAMME EXPERT TEAM ON CODES MAINTENANCE  OFFENBACH, GERMANY, 28 MAY - 1 JUNE 2018 |  | IPET-CM-II / Doc. 2.4(8)  24.05.2018  -------------------------  ITEM 2.4  ENGLISH ONLY |

BUFR

New BUFR sequence for the reporting as basic ship AWS data

*Submitted by Jon Turton (UK Met Office), David Berry (JCOMM)*

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**Summary and Purpose of Document**

This document proposes a new BUFR sequence for the reporting of basic ship AWS data.

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**ACTION PROPOSED**

The meeting is requested to approve the contents of this proposal for validation status.

**ANNEXES:**

**DISCUSSIONS**

During the period between IPET-DRMM IV and IPET-CM II there has been a discussion over the need for a trimmed version of the VOS template for those ships using basic AWS systems. This has been led by the UK Met Office and ECMWF. One potential solution discussed, making use of the flexibilities of BUFR, was the use of sub-sequences from Table D sequence 3-08-014 (Synoptic reports from sea stations suitable for VOS observation data) on an ad-hoc basis. It was noted that the use of ad-hoc sequences was not ideal and that there was a preference for a new sequence to be formalised. This document proposes that sequence.

**PROPOSAL**

Add new entry to BUFR Table D

**Category 08 – Surface report sequences (sea)**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Sequence for reporting of basic ship AWS observations |  |
| 3 08 018 | 3 01 093 | (Ship identification, movement, date/time, horizontal and vertical coordinates) |  |
|  | 3 02 001 | (Pressure and 3-hour pressure change) |  |
|  | 3 02 072 | (Temperature and humidity data) |  |
|  | 1 01 000 | Delayed replication of 1 descriptor |  |
|  | 0 31 000 | Short delayed replication factor |  |
|  | 3 02 056 | (Sea / water temperature) |  |
|  | 1 01 000 | Delayed replication of 1 descriptor |  |
|  | 0 31 000 | Short delayed replication factor |  |
|  | 3 02 064 | (Ship or other marine platform wind data) |  |