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| WORLD METEOROLOGICAL ORGANIZATIONCOMMISSION FOR BASIC SYSTEMS-----------------------------SECOND MEETING OFINTER-PROGRAMME EXPERT TEAM ONCODES MAINTENANCEOFFENBACH, GERMANY, 28 MAY - 1 JUNE 2018 |  | IPET-CM-II / Doc. 6.112.03.2018-------------------------ITEM 6.1ENGLISH ONLY |

SUMMARY AND CONCLUSION OF PROPOSALS

Summary on Amendments since IPET-CM-I
 and update of status of validation

*Submitted by the Secretariat*

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**Summary and Purpose of Document**

This document is to record implementation of amendments to Manual on Codes (WMO-No. 306) since the previous meeting of IPET-CM and to update the status of proposals under validation.

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**ACTION PROPOSED**

The meeting will note the implementation of amendments to Manual on Codes, and review and update the status of proposals and, if needed, to discuss further actions for implementation of these proposals.

**REFERENCES:**

Final reports,

- Report of IPET-DRMM, fourth meeting (Geneva, Switzerland, 30 May-3 June 2016)

- Report of IPET-DRMM, third meeting (Beijing, China, 20-24 July 2015)

- Report of IPET-DRMM, second meeting (College Park, USA, 28 April-2 May 2014)

- Report of IPET-DRMM, first meeting (Tokyo, Japan, 1-5 July 2013)

- Report of IPET-DRC, fourth meeting (Exeter, UK, 21-25 May 2012)

**ANNEXES:**

 1. Implementation of amendments during the intersessional period

 2. Status of proposals

**DISCUSSIONS**

1. In accordance with the *Procedures for amending WMO Manuals and Guides that are the responsibility of the Commission for Basic Systems* (Rec.15(CBS-Ext.(2014)/Res.21(Cg-17)/revised by Res.12 (EC-68)), the amendments by the fast-track procedure and the procedure for adoption between CBS sessions were approved by WMO Members (focal points or PRs).

2. This document is to place these amendments on record, which details are no more shown in the Abridged final report with resolutions and recommendations of CBS sessions. After the previous meeting of IPET-CM, the amendments listed in the Annex I have been implemented or adopted and waiting for implementation.

3. Proposals on amendments to the Manual on Codes, which have been approved for validation, are listed in the Annex II along with those waiting for implementation or implemented after the previous meeting of IPET-CM.

4. The meeting will review and update the status of these proposals under validation, and make arrangements, if needed, to properly validate them with centres concerned.

5. Proposals in the Annex II, which have been significantly modified through validation process, should be discussed separately under a new specific agenda item.

Implementation of amendments during the intersessional period

**ANNEX I**

1. [Adoption between CBS sessions 2017](http://www.wmo.int/pages/prog/www/WMOCodes/Amendments/2017/betweenCBS/02952-2017-OBS-WIS-DRMM-DRC_en.pdf) (8 November 2017)

2. [Fast-track 2017-2](http://www.wmo.int/pages/prog/www/WMOCodes/Amendments/2017/fastTrack/FT2017-2_en.pdf) (8 November 2017)

3. [Fast-track 2018-1](http://www.wmo.int/pages/prog/www/WMOCodes/Amendments/2018/fastTrack/FT2018-1_en.pdf) (2 May 2018)

4. [*Adoption between CBS sessions 2018*](http://www.wmo.int/pages/prog/www/WMOCodes/Amendments/2018/betweenCBS/02952-2017-OBS-WIS-DRMM-DRC_en.pdf) *(7 November 2018: waiting for implementation)*

Note: English documents are available from the links. Some of them are also available in other languages, replacing "en" with "fr", "ru", "es" or "ar" (Item 4), or with "fr", "ru" and "es" (Items 2 and 3) in the links.

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| **STATUS OF PROPOSALS****ANNEX II****STATUS OF PROPOSALS**1. The following tables are to highlight the proposals under validation for facilitating validation exercise and also to record those implemented or adopted after the previous meeting of IPET-CM.2. Proposals at validation stage have no status of Manual on Codes (WMO-No. 306) and MAY NOT be applied in operational data and products.3. It should be noted proposals at validation stage may be modified during validation exercise.  It is recommended to update the proposals whenever modified.**FM 92 GRIB**

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| ID | Approval | Proposals | Status | Remarks |
| 2017-2.2.1 | CM-I | [New GRIB2 Code table 4.2 entries](#A2017_2_2_1), [Reporting quality values in GRIB2](#A2017_2_2_1) | FT2017-2, **FT2018-1** |  |
| 2017-2.2.2 | CM-I | [New GRIB2 Code table 4.2 entry](#A2017_2_2_2) | FT2017-2 |  |
| 2017-2.2.3 | CM-I | [New GRIB2 Code table 4.2 entries](#A2017_2_2_3) | FT2017-2 |  |
|  |  |  |  |  |
| 2016-2.2.8 | DRMM-IV | [Encoding fields from Limited Area models combining conformal projections and bi-periodic spectral geometry](#A2016_2_2_8) | Val |  |
|  |  |  |  |  |
| 2015-2.1.2 | DRMM-III | [New GRIB2 Regulations and notes to make it clear that forecast times may be negative](#A2015_2_1_2) | ABC2017 |  |
| 2015-2.2.1/2.2.2 | DRMM-III | [New parameters in GRIB2 Code table 4.2~~/New GRIB2 parameters and product definition template for observational satellite data~~](#A2015_2_2_1) | Val |  |
|  |  |  |  |  |
| 2014-2.2.2 | DRMM-II | [A product definition template for statistics over an ensemble](#A2014_2_2_2) | Val |  |
|  |  |  |  |  |
| 2012-2.2.9 | DRC-IV | [GRIB template for 4-D Trajectory grid definition](#A2012_2_2_9) | Val |  |

**FM 94 BUFR/FM 95 CREX**

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| ID | Approval | Proposals | Status | Confirmed at meeting |
| 2017-2.4.1 | CM-I | [New BUFR entries for GPM precipitation data](#A2017_2_4_1) | FT2017-2 |  |
| 2017-2.4.2 | CM-I | [New BUFR entries for radiosonde descent data](#A2017_2_4_2) | FT2017-2, Val |  |
| 2017-2.4.3 | CM-I | [New BUFR entries for FY-3 VASS Products](#A2017_2_4_3) | FT2017-2, **FT2018-1** |  |
| 2017-2.4.4 | CM-I | [BUFR template for surface observations from n-minute period](#A2017_2_4_4) | Val |  |
| 2017-2.4.5 | CM-I | [New BUFR sequence for describing satellites contributing to an observed geophysical quantity](#A2017_2_4_5) | Val |  |
| 2017-3.1.1 | CM-I | [Regulations for radiosonde descent data](#A2017_3_1_1) | Val |  |
| 2017-3.1.2 | CM-I | [Regulations for reporting SHIP data in TDCF (B/C10)](#A2017_3_1_2) | **ABC2018** |  |
| 2017-3.1.3 | CM-I | [Implementation of the Decision 15 of EC-69 regarding the International Exchange of Snow Data](#A2017_3_1_3) | **ABC2018** |  |
|  |  |  |  |  |
| 2016-3.2.7 | DRMM-IV | [Additional bio-geochemical sequences for data from Argo profiling floats](#A2016_3_2_7) | Val |  |
| 2016-3.2.10 | DRMM-IV | [Revised note for encoding geographic coordinates in BUFR and new element descriptors for encoding coordinate reference systems and fixed reference mean sea level](#A2016_3_2_10) | ABC2017**,**FT2016-2 |  |
|  |  |  |  |  |
| 2014-3.2.7 | DRMM-II | [BUFR template for n-minute AWS data (3 07 092)](#A2014_3_2_7) | Val |  |
| 2014-3.2.9 | DRMM-II | [Proposed BUFR sequence for reporting observations from offshore platforms](#A2014_3_2_9) | FT2017-2 |  |
|  |  |  |  |  |
| 2013-3.2.4 | DRMM-I | [Satellite-derived winds in BUFR](#A2013_3_2_4) | FT2017-2 |  |

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**COMMON CODE TABLES** |
| ID | Approval | Proposals | Status | Confirmed at meeting |
| PFC2017-2.1 |  | Corrections to Common Code table C-2 by South Africa | **FT2018-1** |  |
| PFC2017-2.2 |  | New entry in Common Code table C-2 by Japan | **FT2018-1** |  |
| PFC2017-2.3 |  | New entry in Common Code table C-12 by France | **FT2018-1** |  |
|  |  |  |  |  |
| 2017-2.5.1 | CM-I | [New Common Code table C-12 entries for CIMSS](#A2017_2_5_1) | FT2017-2 |  |
| 2017-2.5.2 | CM-I | [New Common Code table entries for Spire Global, Inc.](#A2017_2_5_2) | FT2017-2 |  |
| 2017-2.5.3 | CM-I | [New entries in Common Code tables C-5 and C-8 by India](#A2017_2_5_3) | FT2017-2 |  |
| 2017-2.5.4 | CM-I | [Common Code table for master table version numbers of GRIB, BUFR and CREX](#A2017_2_5_4) | **ABC2018** |  |
| 2017-2.5.5 | CM-I | [New entries to Common Code table C-3/BUFR Table 0 22 067 for Argo floats](#A2017_2_5_5) | FT2017-2 |  |
| 2017-2.5.6 | CM-I | [New Common Code table entries in C-5 and C-8 for FY-4A](#A2017_2_5_6) | FT2017-2 |  |
| 2017-2.5.7 | CM-I | [New entry in Common Code table C-5 to include satellite identifier for Sentinel 3B](#A2017_2_5_7) | FT2017-2 |  |