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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  FOURTH MEETING OF  INTER-PROGRAMME EXPERT TEAM ON DATA REPRESENTATION MAINTENANCE AND MONITORING  GENEVA, SWITZERLAND, 30 MAY - 3 JUNE 2016 |  | IPET-DRMM-IV / Doc. 3.2 (5)  (20. 5. 2016)  -------------------------  ITEM 3.2  ENGLISH ONLY |

BUFR AND CREX

**Comments from Czech Republic**

*Submitted by the Secretariat*

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**Summary and Purpose of Document**

This document is to present comments from Czech Republic on amendments to Annex II to B/C25 Regulations.

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**ACTION PROPOSED**

The meeting will review the comments and draft amendments, if any.

**ANNEXES:**

1. Amendments to Annex II to B/C25 Regulations (PR-6892, 7 March 2016)

2. Comments from Czech Republic

**DISCUSSIONS**

1. In accordance with the "Procedures for Maintaining Manuals and Guides Managed by the Commission for Basic Systems" (Resolution 21 (Cg-17)) effective from 1 January 2016,

the Secretariat dispatched the circular letter (PR-6892) with draft amendments to the Manual on Codes, Volume I.2 to all WMO Members on 7 March 2016, in which amendments to Annex II to B/C25 Regulations are included (see Annex I to this document).

2. In response to the circular letter, the focal point for codes and data representation matters of Czech Republic, Ms Barbora Klikova, has submitted comments by Czech Republic as Annex II to this document.

3. The meeting will review the comments (questions and proposals) from Czech Republic, which are summarized below and draft amendments to the Manual on Codes, if any.

**Questions:**

1) If 3 01 128 is not obligatory to report additional information on radiosonde ascent, Czech Republic prefers to use own sequence composed of parameters available,

2) Relation of code table 0 02 011 (common code table C-2) to code table 0 02 015 and possibility of an entry, *PTU*, in code table 0 02 015,

3) Definition of *train regulator* in code table 0 02 016 (*unwinder*, *unwinding detainer* or *unwinding stabilizer*?),

4) Definition of *high bay* and *low bay* in code table 0 02 083,

5) The descriptor 2 05 YYY is more convenient to report reason for termination.

**Additional entries:**

6) New entry, *Vaisala DigiCORA III*, in code table 0 02 066,

7) New entries, *TA600*, *TA800* and *TX1200*, in code table 0 02 081,

8) New entries, *Increasing pressure* and *Max. interpolation time exceeded*, in code table 0 35 035.

**VIEWS BY IPET-DRMM**

1) ...

2) ...

...

**PROPOSAL**

**Add an entry:**

...

...

**ANNEX I**

**Amendment to Annex II to B/C25 Regulations**

**Amend notes to 3 09 052 in B/C25:**

Notes:

(1) Time of launch 3 01 013 shall be reported with the highest possible accuracy available. If the launch time is not available with second accuracy, the entry for seconds shall be put to zero.

(2) Long time displacement 0 04 086 represents the time offset from the launch time 3 01 013 (in seconds).

(3) Latitude displacement 0 05 015 represents the latitude offset from the latitude of the launch site. Longitude displacement 0 06 015 represents the longitude offset from the longitude of the launch site.

(4) If additional information on sounding is available, the sequence <3 09 052> shall be preceded by sequences suitable for reporting additional information on sounding systems.

(5) If the sounding data are obtained from upper-air systems where pressure is derived from geopotential height by integration of hydrostatic equation, the geopotential calculation method shall be recorded using 0 02 191 within the preceding sequences.

**Delete B/C25.11.**

**Amend Annex II to B/C25 as follows**

Additional information on radiosonde ascent

|  |  |  |
| --- | --- | --- |
|  |  | (Additional information on radiosonde ascent) |
| 3 01 128 | 0 01 081 | Radiosonde serial number |
|  | 0 01 082 | Radiosonde ascension number |
|  | 0 01 083 | Radiosonde release number |
|  | 0 01 095 | Observer identification |
|  | 0 02 015 | Radiosonde completeness |
|  | 0 02 016 | Radiosonde configuration |
|  | 0 02 017 | Correction algorithms for humidity measurements |
|  | 0 02 066 | Radiosonde ground receiving system |
|  | 0 02 067 | Radiosonde operating frequency |
|  | 0 02 080 | Balloon manufacturer |
|  | 0 02 081 | Type of balloon |
|  | 0 02 082 | Weight of balloon |
|  | 0 02 083 | Type of balloon shelter |
|  | 0 02 084 | Type of gas used in balloon |
|  | 0 02 085 | Amount of gas used in balloon |
|  | 0 02 086 | Balloon flight train length |
|  | 0 02 095 | Type of pressure sensor |
|  | 0 02 096 | Type of temperature sensor |
|  | 0 02 097 | Type of humidity sensor |
|  | 0 02 103 | Radome |
|  | 0 02 191 | Geopotential height calculation |
|  | 0 25 061 | Software identification and version number |
|  | 0 35 035 | Reason for termination |

**ANNEX II**

**Comments on Amendments to the Manual on Codes**

(Reply to WMO circular letter: 2016-03-07-PR-6892-OBS-WIS-DRMM-DRC)

CHMI accepts all draft amendments proposed by WMO. We wish to add following comments.

Written in blue is clarification of previously sent comments.

*Comments to*

**3. Amendment to Annex II to B/C25 Regulations**

**Additional information on radiosonde ascent – sequence <3 01 128>**

It looks like the sequence <3 01 128> is not obligatory to be used to report additional information on radiosonde ascent. We would probably prefer to use our own sequence composed of parameters available.

*Comments concerning the sequence <3 01 128>*

Descriptors 0 02 015, 0 02 016 and 0 02 083

We would appreciate more detailed explanation of code figures/bit numbers 0 02 015, 0 02 016 and 0 02 083 to be able to choose appropriate numbers.

* 0 02 015: This table looks like to be a part of table 0 02 011 which is already included in sequence <3 09 052>. We do not understand why there are so few entries. We would expect also at least *PTU radiosonde* be present in the table.
* 0 02 016: *Train regulator* – is it unwinder or unwinding detainer or unwinding stabilizer?
* 0 02 083:
  + *High bay* – how is it defined?
  + *Low bay* – how is it defined?

Descriptor 0 02 066

Radiosonde system is already described by descriptor 0 02 011. If descriptor 0 02 066 should also be used, there should be also other systems in the table. For CHMI, we propose to add entry *Vaisala DigiCORA III.*

Descriptor 0 02 081

We propose to add entries

* *TA600*
* *TA800*
* *TX1200*

for types of balloons of manufacturer Totex.

Descriptor 0 35 035

Available options are not compatible with what our system Vaisala DigiCORA is able to recognize as reason for termination. It recognizes “Increasing pressure” or “Max. interpolation time exceeded” which are not on the list. It does not recognize reason of increasing pressure or maximum interpolation time exceeded. If we choose option “Balloon burst” instead of “Increasing pressure”, it will not be completely correct because the reason could be e.g. string rupture too.

That is why we propose “Increasing pressure” and “Max. interpolation time exceeded” to be added to the list of code figures of descriptor 0 35 035.

The currently used descriptor 2 05 Y is more convenient to be used to report reason for termination for us at the moment.

Mgr. Barbora Kliková, Czech Hydrometeorological Institute (CHMI), Czech Republic, 6th May 2016. Contact details: klikova@chmi.cz