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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 (12a)  (30. 5. 2016)  -------------------------  ITEM 3.2  ENGLISH ONLY |

3. BUFR AND CREX

**GRUAN requested proposals for reporting radiosounding metadata suitable for FT-2016-2 and/or FT-2017-1 as appropriate**

*Submitted by Alexander Kats (Russia)*

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**Summary and Purpose of Document**

This document contains selected set of proposals considered in more details in the document 3.2(12) “Radiosounding meta-data reporting: clarifications and amendments required discussion”

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**ACTION PROPOSED**

The meeting is invited to consider the proposals and to approve them for the next fast track 2016-2 and/or 2017-1 as appropriate.

**DISCUSSIONS**

Following the document 3.2(12) “Radiosounding meta-data reporting: clarifications and amendments required discussion” selected set of proposals addressing GRUAN[[1]](#footnote-1) community request on reporting radiosounding metadata is proposed for FT-2016-2 and/or FT-2017-1.

**PROPOSAL**

1. Add new entries to existing Code tables

Add new entry to Code table 0 02 013 “Solar and infrared radiation correction”:

8 Solar and infrared corrected as specified by GRUAN

Add new entry to Code table 0 02 017 “Correction algorithms for humidity measurements”:

7 GRUAN solar radiation and time lag correction

Add new entries to Code table 0 02 081 “Type of balloon”:

7 Totex TA type balloons

8 Totex TX type balloons

Add new entries to Code table 0 02 083 “Type of balloon shelter”:

4 Automated unmanned sounding system

Add new entries to Code table 0 35 035 “Reason for termination”:

16 Increasing pressure

17 Invalid and/or missed data time limits exceeded

1. Add element description to 0 35 035 “Reason for termination” in Table D for 3 01 128:

Reason for ascent termination

1. Add new Table B descriptors and respective Code tables

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **FXY** | **Element Name** | **BUFR Unit** | **BUFR Scale** | **BUFR reference value** | **BUFR width (bits)** | **CREX Unit** | **CREX Scale** | **CREX width (characters)** |
| 0 02 088 | Volume of gas used in balloon | m3 | 3 | 0 | 13 | m3 | 3 | 4 |
| 0 02 089 | Baseline check significance | Code table | 0 | 0 | 4 | Code table | 0 | 2 |
| 0 02 090 | Baseline check data significance | Code table | 0 | 0 | 5 | Code table | 0 | 2 |
| 0 03 025 | Type of flight rig | Code table | 0 | 0 | 4 | Code table | 0 | 2 |

Code tables

**0 02 089**

***Baseline check significance***

Code figure

0 Manufacturer’s baseline check unit

1 Weather screen

2 GRUAN Standard humidity chamber

4-30 Reserved

31 Missing value

**0 02 090**

***Baseline check data significance***

Code figure

0 Verified instrument reading

1 Reference instrument reading

2-14 Reserved

15 Missing value

**0 03 025**

***Type of flight rig***

Code figures

0 Solo (single radiosonde)

1 Block

2 Bar

3 Cross

4 T-rig

5 Double T-rig

6 Complex

7-14 Reserved

15 Missing value

1. GRUAN is GCOS Reference Upper Air Network aimed for providing long-term reference observations of upper air essential climate variables. [↑](#footnote-ref-1)