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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. 2.5 (4)(14. 6. 2017)-------------------------ITEM 2.5ENGLISH ONLY |

MANUAL ON CODES: TABLE DRIVEN-CODE FORMS

**Common Code table for master table version numbers
of GRIB, BUFR and CREX**

*Submitted by* *the Secretariat*

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**Summary and Purpose of Document**

This document is to introduce a new Common Code table for master table version numbers of GRIB, BUFR and CREX, which are currently specified in GRIB Code table 1.0 and in the notes to the Specifications of Octet Contents/Sections of BUFR and CREX.

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**ACTION PROPOSED**

The meeting will consider the introduction of the Common Code table.

**ANNEXES:**

 1.

**DISCUSSIONS**

1. FM 92 GRIB, FM 94 BUFR and FM 95 CREX are table-driven code forms (TDCF), to which original data are converted and from which original data are derived through relevant TDCF tables.

2. GRIB has Code table 1.0 to specify the master table version numbers, however, it is not clearly connected to discipline 0, which is specified in GRIB Code table 0.0.

3. The version numbers of BUFR master table of discipline 0 are specified in Note 5 to Section 1 of the Specifications of Octet Contents of BUFR and similarly for CREX. Since these are not exactly TDCF tables, the full benefit of "table-driven" has not been utilized, which may be a source of the table versioning issue.

4. The following proposal is to introduce a common code table to specify master table version numbers of GRIB, BUFR and CREX of discipline 0 and other possible disciplines of mater tables.

5. This introduction of Common Code table C–0 is a legal initiative and a sort of editorial adjustment. WMO Members and other TDCF users could practically deal with the version numbers the same as before until their software becomes capable of referring to the common code table.

6. The common code table also contributes to mitigating the issues of inconsistency between TDCF (typo of implementation dates identified), unstable notes expanding every half year and consequential growing volume of Manual on Codes.

**PROPOSAL**

**Amend:**

Octet 10 of Section 1 in Specifications of Octet Contents of FM 92 GRIB to

10 GRIB master table version number (see Common Code table C–0 and Note 1)

Octet 14 of Section 1 in Specifications of Octet Contents of FM 94 BUFR to

14 BUFR master table version number (see Common Code table C–0 and Note 2)

vv and bb in Group No. 1 of Section 1 in Specifications of Sections of FM 95 CREX to

vv: CREX master table version number (see Common Code table C–0)

bb: BUFR master table version number used (see Common Code table C–0)

Notes 2 and 3 to Class 00 of BUFR/CREX Table B to

(2) BUFR master table version numbers are described in Common Code table C–0 and Note 2 to Section 1 of BUFR regulations.

(3) CREX master table version numbers are described in Common Code table C–0.

**Delete:**

Note 5 to Section 1 of Specifications of Octet Contents of FM 94 BUFR,

Note 3 to Specifications of Sections of FM 95 CREX.

**Add:**

a note to GRIB Code table 1.0,

Note: This code table is deprecated. See Common Code table C–0 instead.

Common Code table C–0,

COMMON CODE TABLE C–0: *GRIB, BUFR and CREX master table version number*

Octet 10 in Section 1 of GRIB Edition 2

Octet 14 in Section 1 of BUFR Edition 4

Group No. 1 in Section 1 of CREX Edition 2

COMMON CODE TABLE C–0: GRIB, BUFR and CREX master table version number

Master table Version number

 number GRIB BUFR CREX Effective date

 0 0 0 0 Experimental

 1 1 November 1988

 2 1 November 1993

 3 2 November 1994

 4 8 November 1995

 5 6 November 1996

 6 5 November 1997

 7 4 November 1998

 8 1 3 May 2000

 9 8 November 2000

 1 10 2 7 November 2001

 2 11 3 5 November 2003

 3 12 4 2 November 2005

 4 13 5 7 November 2007

 5 14 6 4 November 2009

 6 15 7 15 September 2010

 7 16 16 4 May 2011

 8 17 17 2 November 2011

 9 18 18 2 May 2012

 10 19 19 7 November 2012

 11 20 20 8 May 2013

 12 21 21 14 November 2013

 13 22 22 7 May 2014

 14 23 23 5 November 2014

 15 24 24 6 May 2015

 16 25 25 11 November 2015

 17 26 26 4 May 2016

 18 27 27 2 November 2016

 19 28 28 Pre-operational to be implemented by next amendment

 1–254 Not available

Notes:

(1) Introduction of Common Code table C–0 is a legal initiative. WMO Members and other TDCF users could practically deal with the version numbers the same as before until their software becomes capable of referring to the common code table.

(2) CREX master table version numbers 8–15 are not used.