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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  THIRD MEETING OF  INTER-PROGRAMME EXPERT TEAM ON CODES MAINTENANCE  MARRAKECH, MOROCCO, 15 - 19 APRIL 2019 |  | IPET-CM-III / Doc. 8.3  25.03.2019  -------------------------  ITEM 8.3  ENGLISH ONLY |

ADMINISTRATIVE ISSUES

Common Code tables C-1 and C-11

*Submitted by the Secretariat*

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**Summary and Purpose of Document**

This document is to raise an issue on use of Common Code tables C-1 and C-11 for identification of originating / generating centres.

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**ACTION PROPOSED**

The meeting will consider how to adjust use of C-1 and C-11.

**ANNEXES:**

**DISCUSSIONS**

1. Common Code table C-1 (Identification of originating/generating centre) is to define identifiers of originating/generating centres in 8-bit width and is referred to by:

F1F2 for alphanumeric codes, --- FM 47 GRID family (fully migrated?)

F3F3F3 for alphanumeric codes, --- Satellite code forms (almost migrated?)

Code table 0 in GRIB Edition 1 --- this corresponds to C-1 referred from Octet 5 below

**Code table 0 01 033 in BUFR Edition 3** --- also used by Edition 4

Octet 5 in Section 1 of GRIB Edition 1 --- only GRIB Edition 1

Octet 6 in Section 1 of BUFR Edition 3. --- only BUFR Edition 3

Common Code table C-11 (Originating/generating centres) is in 16-bit width and is referred to by:

**BUFR 0 01 035 (Originating centre)** --- available for any Editions

CREX Edition 2, ooooo in Group Poooooppp in Section 1 --- only CREX Edition 2

GRIB Edition 2, Octets 6–7 in Section 1 --- only GRIB Edition 2

BUFR Edition 4, Octets 5–6 in Section 1 --- only BUFR Edition 4

2. In view of the above definition and applicability, C-1 should not be referred to by FM 92 GRIB Edition 2 and FM 94 BUFR Edition 4, however, several sequences in BUFR Table D actually refer to C-1 through the element descriptor 0 01 033. This contradiction should be resolved in the manner not to impact existing BUFR messages.

3. Even after FM 92 GRIB Edition 1 and FM 94 BUFR Edition 3 were abolished, centres have preferred to assign same entries in C-1 and C-11, using code figures less than 255. Since C-1 is still valid, it is not violation of applicable rules, however, C-11 through the element descriptor 0 01 035 are preferable in new BUFR templates. Otherwise, sequences that refer to C-1 cannot be used by centres, which are defined only in C-11 with code figures more than 255. C-1 is being saturated (about 20 code figures remain) and it is a potential issue.

**PROPOSAL**

1. To adjust the issue in item 2, amend "Code table 0 01 033 in BUFR Edition 3" to "Code table 0 01 033 in BUFR" editorially, which would not impact existing BUFR messages.

2. Recommend use of 0 01 035 in new sequences of BUFR Table D, amending the name to "Originating/generating centre" editorially, which would not impact existing BUFR messages.

3. Recommend use of code figures more than 255 in C-11 to avoid unnecessary confusion and amendments, while C-1 will be valid and unchanged in principle.