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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  SECOND MEETING OF  INTER-PROGRAMME EXPERT TEAM ON CODES MAINTENANCE  OFFENBACH, GERMANY, 28 MAY - 1 JUNE 2018 |  | IPET-CM-II / Doc. 2.4 (1)  06. 04. 2018  -------------------------  ITEM 2.4  ENGLISH ONLY |

BUFR

**BUFR descriptors for flagged ancillary data**

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**Summary and Purpose of Document**

This document proposes new entries to BUFR tables B in order to encode flags related to the presence and quality of ancillary data used in the generation of a product.

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**ACTION PROPOSED**

The meeting is requested to approve the contents for inclusion within the next update to the WMO Manual on Codes.

**DISCUSSIONS**

EUMETSAT uses ancillary data from a number of sources in order to generate level 2 products. Examples of this are inputs from other satellites, instruments, or data from NWP models. In the past, these data have been encoded using local descriptors which essentially encode the same flag content but for different data sources.

With the intent of adopting a cleaner approach, and also of enabling data producers to encode such associated flag values in a general fashion, it is proposed to add a new code table to BUFR Table B.

The following two examples demonstrate how the new flag table would be applied:

Table 1: Use of new descriptor to indicate presence of good, collocated data from an ancillary instrument, in this case the future MetImage instrument on board an EPS-SG satellite.

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptor** | **Name** | **Value** | **Note** |
| 0 02 019 | Satellite instruments | MetImage | Future instrument |
| 0 33 092 | Ancillary data | Present, good, collocated |  |
| 0 02 019 | Satellite instruments | Missing | Cancel |

Table 2: Use of new descriptor to indicate presence of good, collocated data from an ancillary instrument, in this case NWP data from the ECMWF model.

|  |  |  |  |
| --- | --- | --- | --- |
| **Descriptor** | **Name** | **Value** | **Note** |
| 0 01 030 | Numerical model identifier | ECMWF IFS | ECMWF |
| 0 33 092 | Ancillary data | Present, good, collocated |  |
| 0 01 030 | Numerical model identifier | Missing | Cancel |

**PROPOSAL**

***“Amend”, “add”, “delete” are the keywords***

*Add* the following element to BUFR Table B/33:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptor** | **Name** | **Units** | **Scale** | **Reference** | **Width** |
| 0-33-092 | Ancillary data | Code table | 0 | 0 | 3 |

*Add* the following associated code table:

0-33-092 Ancillary data

|  |  |
| --- | --- |
| ***Code Figure*** | ***Description*** |
| 0 | Data present, good, collocated |
| 1 | Data available but of degraded quality and not used |
| 2 | No spatiotemporally collocated data available |
| 3-6 | Reserved |
| 7 | Missing value |