|  |  |  |
| --- | --- | --- |
| WORLD METEOROLOGICAL ORGANIZATIONCOMMISSION FOR BASIC SYSTEMS-----------------------------THIRD MEETING OF INTER-PROGRAMME EXPERT TEAM ONDATA REPRESENTATION MAINTENANCE AND MONITORINGBEIJING, CHINA, 20 - 24 JULY 2015 |  | IPET-DRMM-III / Doc. 3.2 (11)(15. 7. 2015)-------------------------ITEM 3.2ENGLISH ONLY |

BUFR and CREX

**New BUFR code table entries for high resolution radiosonde data**

*Submitted by Ying Wang, Guaiguai Liu (China)*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Summary and Purpose of Document**

This document proposes new code table entries for several BUFR descriptors for high resolution radiosonde data.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ACTION PROPOSED**

The meeting is requested to review the proposal and approve the contents for pre-operational use as part of fast track cycle FT2015-2.

**DISCUSSION**

CMA is planning to produce high resolution BUFR message of upper-air observations for domestic dissemination. The national BUFR template to present high resolution radiosonde observations is developed.

Some new code figures are needed in the code table for several existing Table B descriptors as shown below.

**PROPOSAL**

1. ***New entry in code table for BUFR descriptor 0-02-066 (Radiosonde ground receiving system)***

|  |  |
| --- | --- |
| Code figure | Meaning |
| 2 | ShangHai GTC1 |
| 3 | NanJing GTC2 |
| 4 | NanJing GFE(L)1 |

1. ***New entry in code table for BUFR descriptor 0-02-095 (type of pressure sensor)***

|  |  |
| --- | --- |
| Code figure | Meaning |
| 5 | Aneroid capsule (capacitive) |

1. ***New entry in code table for BUFR descriptor 0-02-097 (type of humidity sensor)***

|  |  |
| --- | --- |
| Code figure | Meaning |
| 9 | Shanghai carbon hygristor |
| 10 | Taiyuan carbon hygristor |

1. ***New entry in code table for BUFR descriptor 0-35-035(Reason for termination)***

|  |  |
| --- | --- |
| Code figure | Meaning |
| 14 | Signal disappear suddenly |
| 15 | Balloon disappear |

1. ***New entry in flag table for BUFR descriptor 0-08-042(Extended vertical sounding significance)***

|  |  |
| --- | --- |
| Bit | Meaning |
| 16 | Temperature equal to 0°C |