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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  FIRST MEETING OF  INTER-PROGRAMME EXPERT TEAM ON CODES MAINTENANCE  GENEVA, SWITZERLAND, 24 - 28 JULY 2017 |  | IPET-CM-I / Doc. 2.2 (1)  (30. 5. 2017)  -------------------------  ITEM 2.2x  ENGLISH ONLY |

Additions to GRIB2 templates and tables

**new GRIB2 Code Table 4.2 entries**

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**Summary and Purpose of Document**

This document proposes several new GRIB2 Code Table 4.2 parameters.

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**ACTION PROPOSED**

The meeting is requested to review the proposed new parameters and approve them for implementation within the November 2017 fast-track (FT2017-2) update to the WMO Manual on Codes.

**DISCUSSION**

The Global Precipitation Measurement (GPM) mission is an international network of satellites providing worldwide rain and snow observations every three hours. It was jointly initiated by the U.S. National Aeronautics and Space Administration (NASA) and the Japan Aerospace Exploration Agency (JAXA) but includes a consortium of other international space agencies as well. As part of this mission, new GRIB2 parameters are requested by NASA for use in precipitation products.

In addition, a new parameter is requested by the U.S. National Centers for Environmental Prediction (NCEP) for use in output from an oceanographic model.

**PROPOSAL**

Add new entries to GRIB2 Code Table 4.2:

**Discipline 0 (Meteorological Products), Category 1 (Moisture)**

|  |  |  |
| --- | --- | --- |
| Number | Parameter | Unit |
| 87 | Stratiform precipitation rate | kg m-2 s-1 |

**Discipline 3 (Space Products), Category 1 (Quantitative products)**

|  |  |  |
| --- | --- | --- |
| Number | Parameter | Unit |
| 30 | Random error of precipitation rate | kg m-2 s-1 |
| 31 | Probability of liquid precipitation | % |

**Discipline 10 (Oceanographic Products), Category 1 (Currents)**

|  |  |  |
| --- | --- | --- |
| Number | Parameter | Unit |
| 4 | Rip current occurrence probability | % |