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| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  FIRST MEETING OF  INTER-PROGRAMME EXPERT TEAM ON DATA REPRESENTATION MAINTENANCE AND MONITORING  TOKYO, JAPAN, 1 - 5 JULY 2013 |  | IPET-DRMM-I / Doc. 2.2 (4) Rev1  (19.VI.2013)  -------------------------    ITEM 2.2    ENGLISH ONLY |

**New parameters in GRIB2 Code Table 4.2**

*Submitted by J. Ator (USA)*

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**Summary and Purpose of Document**

This document proposes some new table entries in GRIB2 Code Table 4.2.

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**ACTION PROPOSED**

The meeting is requested to review the proposed new entries and approve them for pre-operational implementation.

**DISCUSSION**

Various entities in the U.S.A. have proposed new parameter entries in GRIB2 Code Table 4.2. After our own careful review of the submissions, we feel the below entries are appropriate and of sufficient interest to others for inclusion in the standard range of the table.

We believe that these entries are trivial enough that they should not require a full validation procedure; however, we are happy to undertake that if there is any objection from the meeting. In that case we would ask for volunteers to assist with the validation.

We would also be happy to provide links to appropriate references or scientific literature if there are any further questions about any of the following proposed parameters.

**PROPOSAL**

**GRIB2 Code Table 4.2**

**Discipline 0 (Meteorology), Category 0 (Temperature)**

21 Apparent Temperature K

**Discipline 0 (Meteorology), Category 2 (Momentum)**

36 Amplitude function for Rossby wave envelope for meridional wind m s-1

**Discipline 0 (Meteorology), Category 17 (Electrodynamics)**

0 Lightning strike density m-2 s-1

**Discipline 2 (Land surface), Category 4 (Fire weather products)**

4 Fosberg index Numeric