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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. 8.2  25.03.2019  -------------------------  ITEM 8.2  ENGLISH ONLY |

ADMINISTRATIVE ISSUES

Development of Reporting Practices

*Submitted by the Secretariat*

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**Summary and Purpose of Document**

This is to inform the meeting of the initiative to develop a new publication on reporting practices.

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**ACTION PROPOSED**

The meeting is invited to note the basic concept of the publication and agree with the initiative to be raised to a technical commission to be established through WMO reform.

**ANNEXES:**

I. List of FM codes and FM 94 BUFR templates

II. Variables in FM 12 SYNOP/FM 13 SHIP/FM 14 SYNOP MOBIL

**DISCUSSIONS**

[CURRENT SITUATION]

1. Reporting practices (RPs) are specified in Manual on Codes, Volume I.1 (WMO-No. 306) for observations, forecasts, analyses and statistics (data productions in total) in Traditional Alphanumeric Codes (TAC), which are produced by WMO and related Programmes.

2. RPs in Volume I.1 are extended to the Table-Driven Code Forms (TDCF) as specified in section d, Manual on Codes, Volume I.2 for specific traditional observations, i.e. land and sea surface, upper-air and climatological observations, which are referred to as B/C Regulations.

3. CBS-16 adopted "Ceasing maintenance of traditional alphanumeric codes" (Rec. 10 (CBS-16)), which was confirmed by EC (Decision 38 (EC-69)). Volume I.1 will cease its role as an official manual at an appropriate future time after the migration to TDCF is completed and will be kept for archives.

4. As long as Volume I.1 is valid during the transition period of migration, the regulations in the volume are available and could practically be referred as an interim measure for corresponding traditional data productions in TDCF, such as FM20 RADOB (Part A), FM62 TRACKOB and FM85 SAREP (Part A), together with B/C Regulations. Reporting of advanced data productions, however, are not to be standardized.

5. Manual on Codes, Volume I.3 also provides rules for data representations in details, which could apply to reporting, for some representations derived from data models, such as FM 205 IWXXM. Nevertheless, it needs to be reviewed if Volume I.3 could play the role of the Publication for RPs (PRP) for observers and forecasters.

Note: Hereunder, the WMO reform is not reflected to simplify the process.

[RISK OF NO ACTIONS]

6. It is expected that the development of new RPs will require a long process in association with other technical commissions. Therefore, it must be difficult to introduce RPs on a timely manner, if the action to develop RPs is not initiated well in advance.

[MODERNIZATION]

7. WMO has been developing and improving data productions. Nevertheless, their reporting has not been modernized for years, such as SYNOP family since 1 January 1981, TEMP family since 8 November 1995, FM71 CLIMAT since 2 November 1994. Modernization of the reporting shall also be a main subject for consideration in developing RPs.

[PUBLICATION STATUS]

8. WMO Technical Regulations (WMO-No. 49) and Manual on WIGOS (WMO-No. 1160) refer to Manual on Codes (WMO-No. 306) for *international exchange of coded information* and as *regulations governing exchanges in international code forms*, respectively.

Accordingly, PRP shall be in principle a manual with the same status of Manual on Codes. In relation to Volume I.3, it appears that PRP should be the Manual on Codes in a different volume or Volume I.2 (merged). A manual independent from the Manual on Codes could be an option but it needs review of relationship with Technical Regulations, Manual on WIGOS and Volume I.3 (possibly some others).

[PRP CONCEPT]

9. PRP deals with FM system code forms (Volume I.2) similar to Volume I.1.

It may be able to deal with, in different chapters, other forms developed and maintained outside of WMO (external forms, hereunder), only if the RPs need to be standardized within WMO, referring to the external forms as non-WMO standards.

10. Main roles of PRP should be therefore to standardize code forms, in particular, TDCF templates and to specify standard and recommended practices for reporting.

In standardization, maximum sets of variables should be selected so that the variables can meet requirements from different data productions for efficient and effective reporting. One typical example is a land surface observation, which could cover requirements from weather forecasting (WWW), cryosphere watch (GCW) and climatology (WCP).

11. Chapter of PRP could be divided into several sections, each of which may correspond to the "Production" factor in Category of Amendments (see item 8.1), such as Section 1 for a (WMO general standard practice) and Section 2 for b (WMO special standard practice).

[TIMELINE]

12. The timeline is roughly as follows, which will be adjusted according to the progress of WMO Reform and of standardization of reporting by each community.

April 2019 IPET-CM will agree with the initiation of arrangements for PRP.

2019-2020 The agreement will be raised to CBS through OPAG-ISS (ICT-ISS).

2020 CBS will invite other commissions to consolidate their requirements to PRP.

2020-2021 Responsible expert team (RET) for PRP, currently IPET-CM, will collect and adjust requirements from other commissions.

- RET will assist the commissions to develop standard TDCF templates that could meet requirements. Existing templates for advanced data production are not denied.

- RET will in parallel assist commissions to draft regulations for RPs.

- PRP will be finalized and recommended by CBS.

- PRP will be adopted by Cg.

～ in 5 years? PRP will be published.