



Our ref.: OBS/WIS/DRMM/DRC

GENEVA, 18 February 2011

Annexes: 2 (available in English, French, Russian and Spanish only)

Subject: Amendments to the *Manual on Codes* (WMO-No. 306)

Action required: To consider the amendments to the *Manual on Codes* (WMO-No. 306) and inform the Secretariat of your concurrence on the amendments within the two months following the date of dispatch of this letter

Dear Sir/Madam,

The sixty-first session of the Executive Council (Geneva, June 2009) approved Recommendation 6 (CBS-XIV) – Procedures for amending the *Manual on Codes* including the procedure for adoption of amendments between CBS sessions in view of rapid development in the field. The procedure for adoption of amendments between CBS sessions is provided in Annex I.

In accordance with the procedure for the adoption of amendments to the *Manual on Codes* between CBS sessions, and as requested by the president of CBS, I am pleased to attach herewith in Annex II draft amendments to the *Manual on Codes*. These amendments, if approved by Members of WMO, will be implemented on the first Wednesday following the six months after the date of notification of the approval.

I would be grateful if you could consider these draft amendments, and if you could inform me of your concurrence on these amendments as soon as possible but within the two months following the date of dispatch of this letter.

If you have comments and/or objections to some or all of these draft amendments, I would be grateful if you could designate a focal point responsible to discuss these comments and/or objections with the CBS Inter-Programme Expert Team on Data Representation and Codes (IPET-DRC). Contact information of your focal point is highly appreciated so that the Secretariat can initiate the discussions between the focal point and the team.

To: Permanent Representatives (or Directors of Meteorological or Hydrometeorological Services) of Members of WMO (PR-6553)

cc: President and vice-president of CBS )  
Chair and co-chair of OPAG-ISS ) (for information)  
Chair and vice-chair of IPET-DRC )

The amendments proposed here contain those not only to Table Driven Code Forms (TDCF) but also to FM12 SYNOP, which is widely used by WMO Members. I would therefore encourage you to get your relevant experts involved in this reviewing and approving process, and your prompt feedback would be highly appreciated. Please note that those WMO Members having not replied within the two months following the dispatch of this letter are implicitly considered as having agreed with the draft amendments.

The list of amendments approved by the WMO Members will be included in an issue of the Operational Newsletter on the World Weather Watch and Marine Meteorological Services available on the WMO server ([http://www.wmo.int/pages/prog/www/ois/Operational\\_Information/Newsletters/current\\_news\\_en.html](http://www.wmo.int/pages/prog/www/ois/Operational_Information/Newsletters/current_news_en.html)) after the two months following the dispatch of this letter. The date of issue of this Operational Newsletter will be considered as the date of notification of the approved amendments. With a view to limiting the mailing costs, the Secretariat will not issue any other correspondences to inform the WMO Members of this list of approved amendments. However, if you experience difficulties in accessing the Operational Newsletter on the WMO server, do not hesitate to inform us and the Secretariat will send you the list by mail.

Yours faithfully,

A handwritten signature in black ink, consisting of a stylized initial 'J' followed by a long, sweeping horizontal line that extends to the right.

(J. Lengoasa)  
for the Secretary-General

# WORLD METEOROLOGICAL ORGANIZATION

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## OBS/WIS/DRMM/DRC, ANNEX II

### AMENDMENTS TO THE *MANUAL ON CODES* (WMO-No. 306)

#### 1. Introduction

1.1 The amendments to the *Manual on Codes* detailed in paragraph 2 are submitted by the CBS Inter-Programme Expert Team on Data Representation and Codes (IPET-DRC), in particular as an outcome of its meeting<sup>2</sup> held in Brasilia, Brazil from 31 August to 3 September 2010.

1.2 The amendments are intended to satisfy the following requirements:

##### **For BUFR/CREX**

- Note to BUFR/CREX descriptors 0 20 019 and 0 20 020 for correct reporting weather phenomena in accordance with Code table 4678 for w'w' and the following notes

##### **For B/C regulations**

- Amendments to "Regulations for reporting traditional observation data in TDCF: BUFR or CREX" for incorporating regional or national reporting practices in templates and for reporting high resolution upper air data
- Elimination of the template corresponding to CLIMAT TEMP, which has been obsolete

##### **For traditional alphanumeric codes (TAC)**

- Regulation for past weather reporting in hourly synoptic observations for consistency between TAC and B/C regulations

#### 2. List of amendments to the *Manual on Codes*

(Note: this Annex includes extracts of the amendments developed by the IPET-DRC)

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<sup>2</sup> See Report of the second meeting of the Inter-Programme Expert Team on Data Representation and Codes (IPET-DRC)

## 1 BUFR/CREX

### 1.1 A note to BURF/CREX descriptors 0 20 019 and 0 20 020

(Reference: Item 3.3.18 in the report of IPET-DRC-II)

#### Add Note under Class 20, referring to 0 20 019 and to 0 20 020

- (8) 0 20 019 (Significant present or forecast weather) and 0 20 020 (Significant recent weather phenomena) shall be used in accordance with Code table 4678 (Reference: *Manual on Codes*, WMO-No. 306, Volume I.1).

## 2. B/C Regulations

### 2.1 Amendments to B/C Regulations

(Reference: Item 3.4.1 in the report of IPET-DRC-II)

#### Modify Regulations B/C 1.9, 5.9 and 10.7

#### **B/C 1.9 “Instantaneous” data required by regional or national reporting practices**

If regional or national reporting practices require inclusion of additional “instantaneous” parameters, the sequence descriptor 3 07 080 shall be supplemented by the required element descriptors being preceded by a relevant time period descriptor set to zero, i.e. 0 04 024 = 0 or 0 04 025 = 0.

#### **B/C 5.9 “Instantaneous” data required by regional or national reporting practices**

If regional or national reporting practices require inclusion of additional “instantaneous” parameters, the sequence descriptor 3 07 090 shall be supplemented by the required element descriptors being preceded by a relevant time period descriptor set to zero, i.e. 0 04 024 = 0 or 0 04 025 = 0.

#### **B/C 10.7 “Instantaneous” data required by regional or national reporting practices**

If regional or national reporting practices require inclusion of additional “instantaneous” parameters, the sequence descriptor 3 08 009 shall be supplemented by the required element descriptors being preceded by a relevant time period descriptor set to zero, i.e. 0 04 024 = 0 or 0 04 025 = 0.

#### Modify Regulations B/C 25

#### **General**

A BUFR (or CREX) message should be sent when the 100 hPa level is reached. In any case, a BUFR (or CREX) message shall be produced when the sounding is completed containing data from the entire sounding.

If high resolution data are reported, only one BUFR message should be sent when the 100 hPa level is reached and only one BUFR message shall be produced when the sounding is completed, provided that all standard and significant levels are properly identified in compliance with the relevant B/C 25 Regulations.

#### **B/C 25.7.2.2 Extended vertical sounding significance – Flag table 0 08 042**

- m) All bits set to 0 indicate a level determined by national decision or a level of no significance that has been included when high resolution data are reported.

### 2.2 Discontinuation of CLIMAT TEMP reports

(Reference: Item 4.2 in the report of IPET-DRC-II)

**Delete B/C35 - Regulations for reporting CLIMAT TEMP, CLIMAT TEMP SHIP data in TDCF (TM309054)**

**3. TAC**

**3.1 Past weather reporting in hourly synoptic observations**

*(Reference: Item 4.3 in the report of IPET-DRC-II)*

**Add new article (d) to Regulations 12.2.6.6.1 and 12.2.6.7.1**

(d) One hour for intermediate observations if taken every hour.

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