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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. 7.2(6)  05.04.2019  -------------------------  ITEM 7.2  ENGLISH ONLY |

MANUAL ON CODES: TABLE-DRIVEN CODE FORMS

Reports on status of migration

Status of the migration to TDCF in RA VI

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**Summary and Purpose of Document**

The document describes the status of migration to Table-Driven Code Forms in RA IV and related activities of Members since the last meeting.

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**ACTION PROPOSED**

The meeting is requested to note the information.

**ANNEXES:**

1. None

**DISCUSSIONS**

1. Background of this report
2. Countries in the Regional Association VI

Following countries are forming RA-VI according to the WMO country profile database. List shows which of them have a function of the WIS centres (NCs, DCPC and GISCs) according to the WIS centres database.

* Albania (NC – no principal GISC)
* Armenia (NC)
* Austria (NC)
* Azerbaijan (NC)
* Belarus (NC)
* Belgium (NC)
* Bosnia and Herzegovina (NC)
* Bulgaria (NC)
* Croatia (DCPC)
* Cyprus (NC)
* Czech Republic (NC, DCPC)
* Denmark (NC)
* Estonia (NC)
* Finland (NC, DCPC)
* France (NC x 9, DCPC x 9, GISC)
* Georgia (NC)
* Germany (NC, DCPC x 10, GISC)
* Greece (NC)
* Hungary (NC)
* Iceland (NC)
* Ireland (NC)
* Israel (NC)
* Italy (NC, DCPC x 2)
* Jordan (NC)
* Kazakhstan (NC x 2)
* Latvia (NC)
* Lebanon (NC – no principal GISC)
* Lithuania (NC)
* Luxembourg (NC)
* Malta (NC – no principal GISC)
* Monaco (NC – no principal GISC)
* Montenegro (NC)
* Netherlands (NC, DCPC)
* Norway (NC x 2, DCPC)
* Poland (NC)
* Portugal (NC x 2)
* Republic of Moldova (NC)
* Romania (NC)
* Russian Federation (NC x 3, DCPC, GISC)
* Serbia (NC, DCPC)
* Slovakia (NC)
* Slovenia (NC)
* Spain (NC x 2, DCPC)
* Sweden (NC, DCPC)
* Switzerland (NC)
* Syrian Arab Republic (NC)
* The former Yugoslav Republic of Macedonia (NC)
* Turkey (NC)
* Ukraine (NC)
* United Kingdom of Great Britain and Northern Ireland

1. RA-VI Member activities related to TDCF

3.1 Activities report of Russian Federation

Number of stations in the AoR of Russian Federation that transmit observation data to international exchange is presented in the table:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Country | Synoptic data, number of stations | | Radiosonde data, number of stations | | Climate data, number of stations | |
| FM-12 | FM-94 BUFR | FM-35 | FM-94 BUFR | FM-71 | FM-94 BUFR/CREX |
| 1 | Russian Federation | 882 | 882\* | 111 | 43 + 66 | 229 | 0 |
| 2 | Azerbaijan | 7 | 0 | 1 | 0 | 6 | 0 |
| 3 | Armenia | 3 | 3\* | 1 | 1 | 4 | 4 (CREX) |
| 4 | Belarus | 27 | 27\* | 3 | 3 | 12 | 12 |
| 5 | Georgia | 9 | 9 | 0 | 0 | 7 | 0 |
| 6 | Kazakhstan | 82 | 82\* | 9 | 0 | 42 | 0 |
| 7 | Kyrgyzstan | 7 | 0 | 0 | 0 | 5 | 0 |
| 8 | Moldova | 16 | 0 | 0 | 0 | 4 | 0 |
| 9 | Tajikistan | 26 | 0 | 0 | 0 | 12 | 0 |
| 10 | Turkmenistan | 20 | 0 | 0 | 0 | 13 | 0 |
| 11 | Uzbekistan | 19 | 19\* | 0 | 0 | 12 | 0 |
| 12 | Ukraine | 32 | 32\* | 6 | 0 | 32 | 0 |
| 13 | Mongolia | 41 | 41 | 7 | 7\* | 32 | 0 |

\* *Transcoded from data in traditional codes*

Status of the migration to TDCF:

* Armenia and Belarus handled the migration to TDCF in full.
* Russian Federation has not yet made the transition to the TDCF on climate data. From April 25, 2019, the radio sounding data in FM-94 BUFR will be added to the international exchange from 66 stations of Roshydromet.
* Mongolian radiosonde data in FM-94 BUFR are transcoded from FM-35. WMO Secretariat pointed out the inadmissibility of such data.
* Russian Federation transcodes Armenian and Moldovan observations from FM-12 to FM-94 BUFR. Data from Moldova are not transferred to the international exchange, since not represented by the NMHS of Chisinau in WMO Volume C1.
* Russian Federation joined the international experiment announced by WMO in 2019 - every month to transmit daily climate data in the FM-94 BUFR code. Station 27612 (Moscow, VDNH) participates in the experiment. Data file in FM-94 BUFR code is created the NMHS and transmitted to dissemination system. Futher FGBU “Aviamettelecom” converts file into a WMO-format bulletin and push to the GTS.

3.2 Status of migration to TDCF from other countries of the region

Following the status report from the WG-TDI TDCF Project-2 following from 2013 following countries producing and distributing SYNOP, TEMP and CLIMAT data:

* Austria
* Croatia
* Cyprus
* Czech Republic
* Denmark and Faroe Islands
* Finland
* France
* Germany
* Greece
* Hungary
* Ireland
* Israel
* Italy
* Jordan
* Netherlands
* Norway
* Poland
* Portugal
* Romania
* Slovakia
* Spain
* Sweden
* Switzerland
* Turkey
* United Kingdom of Great Britain and Northern Ireland

Most counties of the region have to provide their actual status report on production and distribution of the TEMP and CLIMAT data following *MTDCF Questionnaire or any other means.*