|  |  |  |
| --- | --- | --- |
| WORLD METEOROLOGICAL ORGANIZATION  COMMISSION FOR BASIC SYSTEMS  -----------------------------  THIRD MEETING OF  INTER-PROGRAMME EXPERT TEAM ON DATA REPRESENTATION MAINTENANCE AND MONITORING  BEIJING, CHINA, 20 - 24 JULY 2015 |  | IPET-DRMM-III / Doc. 7.2 (4b)  (8. 7. 2015)  -------------------------  ITEM 7.2  ENGLISH ONLY |

Migration to Table-Driven Code Forms

**Status of the MTDCF in Canada**

*Submitted by* *Yves Pelletier (Canada), Charles Paterson (Canada)*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Summary and Purpose of Document**

A progress report on the MTDCF in Canada

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ACTION PROPOSED**

The Team is requested to note the information.

**ANNEXES:**

1.

**DISCUSSION**

Within Canada the status of migration to TDCF can be roughly broken down as follows:

* SYNOP bulletins available in BUFR parallel to TAC in June 2015, full international and CMC NWP validation to follow. These are all SYNOP reports in bulletin form (collected).
* Approximately half (15 of 31 sites) produce TEMP and PILOT reports from on-site software
* Drifting buoys produce BUFR in a provisional templates
* Moored buoys, SHIP, and CLIMAT reports are still available in TAC only. The migration is in work plans, but prior requirements need to be fulfilled in order for the migration work to begin.

SYNOP

Canada currently produces BUFR SYNOP data for of its 871 SYNOP sites. The data is being sent in collected reports on the GTS, in parallel with alphanumeric data, under headers ISxx01 to ISxx39 CWAO. The BUFR SYNOP data is encoded from a real-time central database of observational data (not converted from TAC SYNOP). The main issue is currently with the limited amount of the metadata required in template 3 07 080 that we are able to provide. For instance, we are able to provide barometer elevation but not other station or instrument elevation metadata at this time. We expect to be able to provide more station metadata in the BUFR SYNOP following upgrades to our station metadata systems.

RADIOSONDES

Currently, there is parallel BUFR data for 15 of 31 upper-air sites in Canada. The BUFR data is produced at the source, using vendor software, and is NOT converted from TAC. It may, however, be of somewhat lower resolution than similarly produced data from other operators. Most sites require upgrades to physical network software infrastructure in order to process and transmit BUFR data. The available bulletins are distributed under the following headers:

IUJB01/IUKB01/IUSB01/IUWB01 CAYT – St. John’s

IUJB01/IUKB01/IUSB01/IUWB01 CWLW - Kelowna

IUJB01/IUKB01/IUSB01/IUWB01 CWMW - Maniwaki

IUJB01/IUKB01/IUSB01/IUWB01 CWEU - Eureka

IUJB01/IUKB01/IUSB01/IUWB01 CWLT - Alert

IUJB01/IUKB01/IUSB01/IUWB01 CWQI – Yarmouth

IUJB01/IUKB01/IUSB01/IUWB01 CWZC - Moosonee

IUJB01/IUKB01/IUSB01/IUWB01 CYJT - Stephenville

IUJB01/IUKB01/IUSB01/IUWB01 CYQD – The Pas

IUJB01/IUKB01/IUSB01/IUWB01 CYPL – Pickle Lake

IUJB01/IUKB01/IUSB01/IUWB01 CYRB - Resolute

IUJB01/IUKB01/IUSB01/IUWB01 CYVP – Kuujjuaq

IUJB01/IUKB01/IUSB01/IUWB01 CYXY – Whitehorse auto-launcher (not on circuit – 14-19 May 2015)

IUJB01/IUKB01/IUSB01/IUWB01 CYZV – Sept-Iles

IUJB01/IUKB01/IUSB01/IUWB01 CZXS – Prince George