VALIDATION REPORT

BUFR template for snow water equivalent (SWE)

IPET-CM-II / Doc. 2.4 (4)

**1. Responsible Organizations**

Leading organization (if any): ECMWF

Participating organization(s): DWD

**2. Requirements and Purposes**

Global Cryosphere Watch (GCW) community has requested the development of a BUFR sequence for the exchange of snow observations including the snow water equivalent alongside the snow density and snow depth. The need is originated by the increasing number of stations in, such as North America and Germany, providing snow water equivalent, many of them together with snow density and/or snow depth. Snow water equivalent and snow density correspond to the model snow mass prognostic variables, so they are very relevant for assimilation in NWP systems. ECMWF has supported the GCW Snow Watch Team in the development of the new sequence.

**3. Description of Proposal**

See Document 2.4 (4) of IPET-CM II

**4. Declaration of Validation Complete**

Proposal has been Validated.

Participating organizations: DWD-ECMWF

Proof documents:

BUFR message and outputs

**5. Proposed Implementation Date and Procedure**

Implementation date: November 2018

Applicable procedure: Fast-track

**6. Deviation from initial proposal**

Choose an item.

1) Major changes, otherwise omitted

**7. Remarks**

Supplementary information, otherwise omitted