

WORLD METEOROLOGICAL ORGANIZATION

IPET-SUP-3/Doc.

COMMISSION FOR BASIC SYSTEMS
OPEN PROGRAMME AREA GROUP ON INTEGRATED OBSERVING SYSTEMS

ITEM: 8.1

INTER-PROGRAMME EXPERT TEAM ON SATELLITE UTILIZATION AND
PRODUCTS

THIRD SESSION

Original: ENGLISH

GENEVA, SWITZERLAND, 2-5 MAY 2017

**Report by Commission for Climatology Task Team
on the Use of Remote Sensing Data for Climate Monitoring**
(Submitted by Rainer Hollmann)

Summary and Purpose of Document

This document provides an update of recent developments within the CCI TT URSDCM.

ACTION PROPOSED

The third session is invited to:

- (a) Take note, discuss and provide feedback

Appendices: A.

B.

C.

DISCUSSION

REPORT

1. During the 16th session of the CCI a task team on the use of remote sensing data for climate monitoring has been set up in the OPACE 2: Climate Monitoring and Assessment.
2. The composition of the team is Rainer Hollmann (Germany), Brian Wardlow (USA) acting as co-leads. Further member are Matilde Rusticucci (Argentina), Yuriy Kuleshov (Australia), Saviz Sehat (Iran), Nana Ama Browne Klutse (Ghana).
3. The following Terms of References have been defined: Promote the use and assess the suitability in climatology of space-based data, radar data and data from other remote sensing platforms, work closely with the WMO Space Programme, CBS, CIMO and GCOS on developing guidance for NMHSs and other user entities to benefit from remote sensing data and products and be able to properly and practically use them for climate analysis and monitoring and for the development of improved climate services.
4. The work plan is compiled of three pillars: (1) gathering information on RADAR climatologies (2) gathering information on LIDAR climatologies and (3) gathering information on Satellite based climatologies. In a 2nd step it is planned to investigate based on the CEOS/CGMS established ECV inventory for which of the CDR also ICDRs been generated and provided to user.
5. In 2016 the TT URSDCM held one teleconf on the status of the work plan. As part of the work plan the team compiled an overview paper on available RADAR climatologies in the WMO regional associations. The team realized that most climatologies have been generated in WMO RA VI and RA II whereas information from the remaining WMO RA seems to be not available in public literature. After final iteration and approval of the document by the TT during the next teleconf in 2017, a distribution is foreseen to the national climate monitoring focal points for information.
6. The TT URSDCM does noted that although a comprehensive network of RADAR instruments is run by Members the raw data rarely and sustainable archived together with the necessary meta data.
7. The 2nd and 3rd topics of its work plan are further delayed, partly because of the delay in the creation of the ECV inventory. It is expected that these topics will be addressed in due course of 2017.
8. R.H. supported the SWCEM workshop providing guidance on climate monitoring.

Appendix/ices: