

ET2.2: Expert Team on Climate Monitoring including the Use of Satellite and Marine Data and Products

Terms of Reference

- a) To review and advise on the development of the WMO annual state of the climate report and to facilitate coordination of global and regional climate monitoring activities for the benefit of all organizations engaged in this work;
- b) To review and contribute to the generation of optimized integrated satellite and *in situ* datasets for marine, terrestrial and atmospheric climate monitoring;
- c) To take actions as deemed appropriate to assess and improve the interoperability, availability and homogeneity of data used for global and regional climate monitoring;
- d) To coordinate with GCOS and GEOSS as appropriate, and with the WMO Space/GEO programme on cross-cutting initiatives;
- e) To promote and coordinate processing the remotely sensed data, such as satellite and radar, and archiving them in a format suitable for climate monitoring;
- f) To coordinate monitoring activities of institutions that are monitoring global, regional and/or national climate conditions and to share data, information and/or data assimilation techniques to integrate remotely-sensed data and *in situ* data that would help improve the monitoring of climate variability and change;
- g) To identify the needs and requirements for global and regional long-term reanalysis projects to ensure they are suitable for monitoring climate variability and change;
- h) To create guidelines and information on verification of national and global extremes;
- i) To coordinate and manage a global extremes database, updated annually;
- j) To ensure effective collaboration with relevant partners including the JCOMM Expert Team on Marine Climatology;
- k) Liaise as required with the CBS ET-SAT (OPAG on IOS) which has similar responsibilities, so as to maximize complementarity and minimize duplication;
- l) To develop and provide guidelines on the implementation, use and evaluation of satellite data and products in climate monitoring and climate change detection;
- m) To establish a feedback mechanism with satellite data and product producers, on practical needs and improvements in the use of these data and products in climate monitoring and climate change detection;
- n) To explore, document and make recommendations for addressing the needs for capacity building in each region, pertinent to this topic;
- o) To submit reports in accordance with timetables established by the OPAG chair and/or Management Group.

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