

Meeting of the CCI ET on Climate Monitoring including marine and satellite data and products

27 – 29 October 2009, Offenbach, Germany

Purpose of the meeting

- To review the status of activities planned during the meeting in Tarragona, Spain in
- To discuss recommendations for ad hoc climate monitoring related teams that CCI may wish to consider over the next 4 years so that the ET can provide specific recommendations.
- To set new activities that can be achieved before the next session of the Commission Of Climatology

1. Major issues and outcomes

1.1 Phenology

The team agreed that phenology, while holding a great deal of potential for climate monitoring, is not yet ready, on a global basis, for real time climate monitoring at the present time as rigorous standards are not yet being adhered to around the world. As phenological experts around the world are working hard towards meeting the standards, the team decided there is no need to provide any recommendations in this regard.

1.2 Satellite data and products

The Team encourages the satellite community to continue their work to derive climate data records for Essential Climate Variables (ECVs) and recommends that the Chair of OPACE 2 set up an Ad hoc team in 2-3 years time to re-assess and bridge the gap between satellites data and products and climate monitoring."

1.3 WMO Annual Statement of the Climate – ranking

The WMO is seeking guidance on how to deal with yearly rankings when they are using multiple data sets that might give two different ranks for the year. ET 2.2 members recommended that the Secretariat use the rankings from a mean time series developed by all the global temperature time series widely accepted by WMO scientific community. This is currently just the UK (HadCRU), NASA and NOAA/NCDC. So the result would be $\text{HadCRU} + \text{NCDC} + \text{NASA} / 3$. Deke Arndt from NCDC Climate Monitoring Branch and John Kennedy of the Hadley Centre's climate monitoring group agreed to produce and provide the average time series, the ranking from the average time series, and a figure of the average time series for WMO use, along with these products for their own countries.

1.4 Actions

- WMO to make available for members of the Expert Team, information and documents on Climate Watch Systems
- A case study on sea level rise in Malaysia will be undertaken with the possible visit of someone from Malaysia for an on-the-job training with the Satellite community in Europe (Peter Albert-Schulz-Wan).
- A case study on solar energy and rainfall in Morocco with the possible visit of two experts in Morocco to work (on the job-training) with the European satellite community. P.Albert, Schulz, Rainer etc..).

1.5 Other topics (Wind data)

Wind data discussions, no conclusions or recommendations.

2. Main Conclusions and recommendations

2.1 CLIMAT messages

The ET recommended that GCOS expand the domain of the CBS lead centres for GCOS to seek out CLIMAT messages from all potentially CLIMAT reporting stations (RBCN, etc.) rather than just GSN stations and provide a special focus on data sparse regions of the deep tropics.

2.2 Translation of the BAMS article

The ET recommends WMO to encourage Members to translate the BAMS article for their own purpose and use but does not recommend CCI to undertake the translation. It requests members to provide links and/or copies of the translated article to the WMO secretariat for archive and distribution.

2.3 Return periods for extreme events

The ET recommends that the chair of OPACE 2 to set up an Ad-hoc Team to develop guidance on return period estimates and attribution of extreme events such as drought, heat waves, floods producing regional precipitations anomalies, etc. that are major societal impacts.

2.4 ET 2.1 activities

The ET recommends that ET2.1 continues its current mandate for the next CCI inter-session and develop new indices based on the GCOS ECVs.

2.5 Capacity building in Climate monitoring

The ET recommends that CCI reinforces capacity building in climate monitoring for developing countries in general and that RCC's emphasize capacity building in climate monitoring as well as their more traditional focus.

2.6 Ranking of global temperature

The ET recommended that the Secretariat use the rankings from a mean time series developed by all the global temperature time series widely accepted by WMO scientific community. This is currently just the UK (HadCRU), NASA and NOAA/NCDC.
So the result would be HadCRU + NCDC + NASA/3

2.7 Bulletin of American Meteorological Society (BAMS)

The ET recommends WMO to encourage Members to translate the BAMS article for their own purpose and use but does not recommend CCI to undertake the translation. It requests members to provide links and/or copies of the translated article to the WMO secretariat for archive and distribution.