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### **3. PROGRAMME ACTIVITIES, CLOSE PARTNERS AND GUIDANCE**

#### **3.4 WGNE HIGHLIGHTS**

The CAS MG was reminded of the purpose of WGNE, that it has responsibilities across all timescales for improving atmosphere models. A list of current WGNE projects was provided and more details were given regarding the MJO-Task Force, WGNE drag project and WGNE aims around verification and evaluation. The desire for closer working between the Climate Metrics and Diagnostics Panel, and Joint Working Group for Forecast Verification Research, was conveyed along with the general WGNE aim of developing more seamless, comprehensive, process-orientated evaluation and verification methodologies across timescales.

A selection of the recommendations/actions arising from WGNE-31 which were thought to be of relevance to CAS-MG was shown. These were:

- WGNE suggested ... that the CAS-17 TECO in July 2017 could provide an opportunity to engage Panasonic and other private sector modelling groups to work with WGNE towards a contribution in the session under emerging technologies.
- The GAW SSC Chairperson to be invited as an ex-officio member of WGNE.
- WGNE recommends to WMO/CBS to encourage modelling centres to adopt and exchange the WMO recommended verification upper air scores.
- That the TC verification information compiled by WGNE ... be brought to the attention of the WWRP Working Group on Tropical Meteorological Research and CBS.
- For the OBS4MIPS initiative, to make data available at higher spatial and temporal available to facilitate joint efforts across time scales.
- Discuss with GEWEX key systematic errors not currently covered by projects:
  - a) Convective rain over orography;
  - b) Light rain (convective & drizzle problems);
  - c) Boundary layer cloud (fog & stratocumulus over land);
  - d) Too large/intense/few ('blobby') convective rainfall systems in 2-4km models;
  - e) Moderate complexity aerosol development.
- Suggest to S2S to take forward what has been done so far on by WGNE on aerosols to seasonal timescales.
- WGNE members to remind colleagues about the existence of, and encourage centres to more actively use TIGGE data.

The WGNE co-chairs intend for WGNE to focus on its core task of diagnosing and fixing systematic errors and, as part of this, would like to pursue closer working with GEWEX GASS and GLASS. The 5<sup>th</sup> WGNE systematic errors workshop will take place from 19 to 23 June 2017 in Montreal, Canada. The next regular WGNE meeting will be joint with the other WCRP modelling working groups (WGCM, WGSIP, etc.) at the Met Office, in October 2017. The WGNE co-chairs suggest considering a similar joint meeting with some of the WWRP groups in the future.