YOTC MJO Task Force – 6th Telecon

Meeting time: 21:00 GMT, 7th December 2010.

Participants

Task Force:
Duane, Matt, Ken, Harry, Frederic, Augustin, Daehyun, Joshua

Others:
Jon Petch (representing GEWEX GCSS)
Steve Woolnough (University of Reading and CASCADE)

Proposed Agenda

Items missed in previous telecon

* Discuss opportunity for GEWEX GCSS collaboration - subproject on MJO
* Synthesis paper(s) for CMIP5
* Diabatic heating profiles model intercomparison project (see Nov 15 e-mail from Duane)

New items

* Report on the recent "Sub-seasonal to Seasonal Prediction" workshop held at the Met Office, Exeter, 1-3 December 2010.
* Meetings of interest

Meeting Minutes (by Matt and Duane)

1. Sub-seasonal to Seasonal Prediction Workshop in Exeter

Harry and Frederic attended this workshop. Harry gave a presentation on the MJO TF. The aim of the workshop was to promote, at a high level (e.g. through WWRP/WCRP/THORPEX) research and activities in weather-climate prediction with lead times of greater than 1 week but less than 3 months. The main outcome was that improvements on this time scale could be most effectively achieved by developing a grand global ensemble of subseasonally-focussed model forecasts in a similar fashion as TIGGE (noting that the TIGGE forecasts currently cut out at 10-15 days). TIGGE is thought of as a very good role model due to its standardisation, coordination among many modelling centres, and its resulting high uptake. As a result, a high-level committee across WWRP-WCRP was proposed to look at the feasibility of this, with a document to be written and circulated. The MJO-TF should presumably receive a copy of this document for comments.

Collaboration between the MJO TF and GEWEX GCSS activity (next item), was also discussed at the workshop, with agreement among those present that it makes sense to have the MJO as a GCSS focus.

2. GEWEX GCSS collaboration + Diabatic heating profiles MIP

These items were discussed together due to their overlap.

Jon Petch described the activities of the GCSS. Their general approach has been to run multiple different models (with clouds resolved to various degrees) for particular case studies. Examples of the different modelling approaches are very high-resolution experiments, initialized experiments, longer lower-resolution runs and even single-column models. GCSS provides the framework to have all of these multi-model case studies available to people to answer their own research questions.

Synergy with YOTC modelling and CINDY/DYNAMO can also be expected. The former includes the cases study experiments for the MJO/CCEWs proposed at the Busan MJO TF meeting. Thus the project might involve a long-term simulation along with hindcast experiments for a couple/few cases during YOTC.

An initial email request has led to interest by at least 15 modeling groups.

ACTION: Xianan Jiang (with help/direction from Duane) to work with someone at Met Office (with help/direction from Jon Petch) to further develop the experimental guidelines for contribution to the diabatic heating profiles MIP. Jon and Chris Bretherton to help identify the person at the Met Offie for this.

3. Synthesis papers for CMIP 5

CMIP5 is the current coupled modelling intercomparison project that is being worked on. The previous one was CMIP3. There was no CMIP4 to keep in line with the naming of the IPCC AR5. Duane recently attended a meeting of WGCM (UKMO in October) during which it was put to the Task Force to coordinate work and papers on the performance of the models for the MJO. CMIP5 model runs are not yet complete, so it makes sense to exercise our MJO diagnostics on CMIP3. Ken and Daehyun volunteered to lead this. Others to be included are Eric and Jia-Lin Lin.

4. Meetings of interest

We can now submit abstracts to the WCRP Open Science Conference. Duane is helping lead a session designed to include YOTC and MJO TF – presumably much of which will be in the form of posters. We are thinking of holding our next MJO TF meeting in conjunction with this meeting.

There is also a YOTC Science Symposium being held in Beijing during 16-18 May 2011. Mitch Moncrieff is to soon send details on this. (Recently an email invitation/announcement has been circulated)