

# YOTC MJO Task Force – 7th Telecon

**Meeting time:** 21:00 GMT, 1<sup>st</sup> February 2011.

## **Participants**

Task Force:

Duane, Matt, Ken, Frederic, Daehyun, Rich, Hai

## **Proposed Agenda**

*To summarize items that were discussed at the ad-hoc meeting of the TF held in the previous week during the AMS meeting. Not all members were present at the AMS, so it was necessary to provide this time for further discussion and updates.*

## **Meeting Minutes** (by Matt and Duane)

### **1. Updates on CMIP5/CMIP3 and related analysis**

Ken circulated a draft outline of a paper on the analysis of the CMIP5 models. The outline was assembled jointly by Ken and Daehyun (document called MJOTF\_CMIP5\_analysis\_outline\_draft.doc). Ken summarized the approach as:

*Approach:* Given the large number of models expected in CMIP5, we will likely only apply level 2 diagnostics to a select set of models. In addition to considering the established level 1 diagnostics, we can also use the new metrics discussed in Seattle to compare the full suite of CMIP5 vs. CMIP3 models. Based on yet to be determined metrics criteria, we suggest establishing a skill cutoff to retain a subset of models for level 2 analysis. For process-oriented diagnostics the large number of models with diverse fidelity to simulate the MJO will be analyzed. Specifically, it will be examined whether each process-oriented diagnostic could distinguish good-MJO models from bad-MJO models.

Ken is seeking input to this outline, especially with regards to the process-oriented diagnostics specified at the end.

It was discussed whether help (such as in the form of a graduate student) was needed to do this analysis, but it was later decided that no help was necessary at this time.

Matt asked whether a figure from this analysis (such as the proposed Fig.7 showing the maximum positive correlation vs. time-lag of the model projections onto the WH04 COEFs) could be included in the next IPCC report. Duane and Ken saw no reason why it could not be, and that it could be a good idea to suggest this to the appropriate IPCC lead authors (e.g. Gabriel Lau, lead author of chapter 14).

A response from Peter Glecker (representing the WGNE/WGCM Metrics Panel) regarding the proposed MJO diagnostic has not yet been received.

Related to the proposed Fig 14, Daehyun and Eric are working on gross moist stability diagnostics.

**ACTION:** Someone to contact Jia-Lin Lin regarding his plans for CMIP5?

## **2. Forecast activities**

Frederic was able to report that ECMWF has accepted the request from NCEP allowing NCEP to display the ECMWF MJO forecasts on their web page in real time.

## **3. GEWEX GCSS collaboration + Diabatic heating profiles MIP**

Duane provided an update on this activity. Prince Xavier at UKMO has been identified to help out as part of the GCSS component. Xianan Jiang, on behalf of the MJO TF, will contact Prince to work out a more detailed specification that can be discussed and finalized and then sent out soliciting model participation.

## **4. Meetings of interest**

Ken is attending the “3rd International Workshop on Global Change Projection: Modeling, Intercomparison, and Impact Assessment” in Japan in March. He has submitted an abstract on *Diagnostics and Metrics for Evaluating GCM Simulations of the Asian-Australian Monsoon* with the MJO-TF as a co-author.

**ACTION:** Ken to send his abstract to the MJO-TF.

We are still planning on having a strong presence (and side meeting of the MJO-TF) at the WCRP OSC in Denver in October 2011.

## **5. Next telecom**

1<sup>st</sup> week of March? Some conflict with a DYNAMO meeting may occur.

**ACTION:** Matt to organize time/date for next telecom.