

US CLIVAR MJO WG

Telecon Minutes

August 9, 2007; 11:00am-12:00pm US West Coast

Telecon Participants: Waliser, Weickmann, Zhang, Sperber, Savage, Schubert, Gottschalck, Vintzileos, Pegion

1) Workshop Progress

Appreciation was expressed to Jill Reisdorf for assembling the workshop webpage.

Sig Schubert will contact J. Bacmeister to ascertain his availability for giving a presentation that is central to the workshop theme in the TDB slot in Session 4.

The chairs (or a chosen alternative prior to the workshop) will lead the discussion at the end of their respective session. The chairs are to generate a list questions to stimulate discussion among the attendees. The questions will be circulated to the working group for comment. Though not discussed, we should consider posting the approved questions on the Workshop Agenda so that the audience will come prepared to engage in discussion of the outstanding issues. This item could probably be taken up in the September time frame.

2a) Observational Manuscript

Work assignments have been proposed for the initial paper describing the MJO diagnostics:

Intro – Waliser/Sperber

Data – Kim/Waliser

Results – Hendon/Maloney/Higgins

Summary – Zhang/Wheeler/Sperber

Though it was noted that none of the “Results” members were able to participate in today’s telecon, it was recommended that HMH develop the strawman of the plots to be included in the paper from those already generated on the web, and pass this around to the panel for comment before writing text.

2b) Model Data

Below is the status of model data that members have offered to D. Kim for analysis in anticipation of the Workshop and for preparation of a MJOWG modeling manuscript. Model data that has been processed by D. Kim is posted at:

(http://climate.snu.ac.kr/mjo_diagnostics/index.htm [click on Simulations => MJOWG])

CFS (W. Wang) - processed and webpage available

ECHAM4/OPYC (Sperber) – analysis in progress

GEOS 5 (Schubert) – near final version of geos5 simulation to be sent in the very near future; if final version of geos5 deviates from this, then an update may be provided.

GFDL (Stern) - in preparation for sending data

NCAR (Neale) – 2 simulations in progress
NCAR/OSU (Maloney) – in preparation
Super-parameterization (Khairoutdinov) – ready for sending

3) Forecast metrics

Klaus thanked the representatives from BMRC, CMC, ECMWF, NCEP and The Met Office for making phase plots of RMM1 vs. RMM2 available for publication on his forecasting website.

Duane, Klaus, Nick, and Jon agreed to make a draft proposal for the modeling centers to consider using the same seasonal cycle (1st 3 harmonics) from which to calculate daily anomalies and the same observed EOF's on which to project the forecast anomalies. It was agreed that CMAP precipitation (in lieu of OLR) and 850hPa and 200hPa zonal winds from NCEP Reanalysis would be used for generating the multivariate EOF's. MJO forecasts should be made two ways: (1) using the raw anomalies, and (2) remove the 120 day mean of the last 120 days of the analysis (or possibly in a sliding fashion up to the forecast day) from the raw anomalies. If agreement is reached, the actual RMM1 and RMM2 values (not plots) would be submitted to Jon Gottschalek so that all forecast results can be plotted uniformly, and to facilitate the construction of a multi-model forecast. Where available, the results from ensemble member forecasts should be submitted so that uncertainty spread can be plotted in a manner similar to that used by The Met Office.

It was anticipated that drafting the proposal would take about 1 week, agreement from the centers another 1-2 weeks, and implementation within 1-2 months, hopefully in time for the workshop.

It was decided to entrain other modeling centers who have expressed an interest in making forecasts after the proposal has been approved by the current modeling centers.