

Minutes of WGNE MJO Task Force, Telecon, 0800UTC 22 Jan 2015

In attendance: Eric Maloney, Steve Woolnough, Matt Wheeler, Adrian Matthews, Nick Klingaman, Tieh-Yong Koh, Min-Seop Ahn, Ken Sperber, Camille Risi, Paolo Ruti, Tomoki Miyakawa

Agenda

1) Status of the CMIP5 analysis and paper (Min-Seop and Daehyun)

Min-Seop present a very nice summary of his work with Daehyun on the MJO in CMIP5 models:

MJO Indices:

- Most CMIP5 models underestimate the MJO amplitude and eastward propagation, especially in OLR signal.
- Most CMIP5 models simulate fast MJO propagation speed compared to observation.

Process Orientated diagnostics:

- RH-metric is relatively well correlated with MJO amplitude and eastward propagation of precipitation and wind signal.
- GEF-metric is relatively well correlated with MJO amplitude and eastward propagation of precipitation signal.
- NGMS-metric is relatively well negative correlated with not only eastward propagating speed of precipitation and wind signal but also MJO amplitude and eastward propagation of precipitation signal.

Min-Seop will start writing soon and would like any feedback in the next couple of weeks, especially on

- a) The treatment (presentation) of models which don't have all the data required for all the diagnostics
- b) Whether he should add mean state and variance diagnostics
- c) Presentation of figures with many lines from different models on them

Action: Feedback to Min-Seop via e-mail in the next couple of weeks.

2) Status of the air-sea interaction paper (Steve and Nick)

Paper submitted in November; waiting for reviews.

Next step to start developing, some air-sea interaction diagnostics and thinking about how to interpret them.

3) Status of MJO-DH paper (Steve and Nick)

The three component papers have been reviewed for JGR and are under revision.

One response to the reviewers comments has led to a 4th synthesis paper led by Nick which is in draft form to go back with the resubmissions. The four papers will be published together.

Action: Steve/Nick/Xianan/Prince to circulate copies of accepted versions

4) 2015 MJOTF meeting at IUGG, Prague (22 June – 2 July) or S2S Workshop, Jeju Island (23-27 June)

S2S meeting will have a focus on Monsoons, and would have been a good opportunity for MJOTF to meet in conjunction with wider S2S project and Monsoon

sub-project at a nicely focused meeting, but clash with IUGG means small interest in attendance from wider TF. Steve will attend workshop, but others welcome. Will have a face-to-face meeting of the TF in association with IUGG, noting that it may not be possible for everyone to attend.

Action: Steve and Eric to put plans in place for MJOTF meeting at IUGG

- 5) Planning for the 2016 joint meeting between the MJOTF, S2S, and YMC. (Tieh Yong, Eric)

Tieh-Yong presented two options, for meeting venues at Nanyang Technological University

- a) NTU location mid-west of Singapore
 - a. Cost of lecture room ~S\$950 /day
 - b. Accommodation in hotels well connect by public transport to venue, including one with bulk booking and preferential rate.
- b) Main NTU campus in far west of Singapore
 - a. Cost of lecture room ~S\$600 /day
 - b. Accommodation on campus, about 40-45 mins from downtown.

Both venues have similar meeting facilities and associated accommodation costs, no strong preference expressed for either venue.

Ken raised possibility of involving Monsoon Panel and S2S Sub-monsoon project. There followed some discussion about defining the focus of the meeting, but interaction with the Monsoon community strongly welcomed.

Paolo raised the possibility of local sponsorship of the meeting by either NTU or the Singapore Met Service, there was some discussion about whether Singapore Met Service would be prepared to sponsor a meeting not at their venue, and the size of meeting room at CSSR (~50?)

Action: Decisions to be made by End of March to allow appropriate planning; dates, venue, focus

Action: Tieh-Yong to investigate possibility of NTU funding meeting?

Action: Eric to discuss with representatives of Singapore Met Service about supporting meeting

Action: Eric to discuss with Chidong about YMC involvement

Action: Eric and Steve to contact Frederic, Andy, Duane

Action: Ken to discuss with Monsoon Panel and Monsoon Subproject

- 6) Year of the Maritime Continent Planning meeting, Singapore, January 27-30 (Eric)

Eric reported that he will be attending the planning meeting for the Year of Maritime Continent a proposed field campaign in 2017-2018. The purpose of the meeting is “finalize” the science document and discuss plans for the campaign. Eric will present MJO related issues including interaction of the MJO with the MC, MJO modelling issues and the joint MJOTF-S2S Maritime Continent Project in the context of the YMC.

Action: Any suggestions for material to Eric in next few days

- 7) A recent proposal to S2S on tropical-extratropical teleconnections on subseasonal to seasonal timescales. (Eric)

Eric introduced a proposal from Cristina Stan and David Straus submitted to the S2S project on sub-project “Tropical-Midlatitude Interactions and Teleconnections on

Subseasonal-to-Seasonal timescales”.

There was clearly interest in this activity from the TF and it was recognized that this had been on our agenda in the past with little activity, and would make a good activity for the TF to be involved in going forward. Some comments we raised about lack of profile of Southern Hemisphere teleconnections, and Mid-latitude to tropical connections in the document.

Steve noted that there had been some discussion at the S2S, WCRP, WGSIP level about whether this activity should be an S2S sub-project or a wider activity which engaged with S2S and other WMO projects.

Frederic clarified after the telecon that a new S2S sub-project has been created very recently on this topic (interactions and teleconnections between midlatitudes and tropics). Cristina Stan and Hai Lin have accepted to co-lead this activity and will draft a science plan soon. It is clear that the S2S database will be ideal for this type of study. There were talks with WGSIP which also has a teleconnection sub-project to merge both sub-projects, but it was decided, at least for the first few years, to keep the activities separate since the WGSIP focus is more on ENSO and decadal teleconnections which would have made the topic too broad.

Action: Any comments to Eric and Steve in next few days, with them to feedback to Cristina and David

8) AOB:

Paolo highlighted two meetings of potential interest

a) 30th Session of the WGNE, College Park, MD, 23-26 March

Jon Gottschalck will attend on behalf of the TF

b) “Our common Future Under Climate Change”, Paris 7-10 July

This meeting is organized by ICSU, UNESCO and Future Earth ahead of the COP21 meeting in December.

<http://www.commonfuture-paris2015.org/>

9) The recent NOAA process-oriented diagnostics call in the U.S. (Eric)

There was no opportunity to discuss this topic

Meeting Closed 0930 UTC.

Other items for potential discussion at future meeting

a. Tomoki and Xianan on CMT (follow-up from Montreal)

b. Jon on MJO prediction diagnostics and assessment

c. Wider discussion on interactions with S2S project on predictability associated with the MJO