

Poster Session 3 “**Soundings and large-scale diagnostics I**”

Manuel Zuluaga

- Description of the set of instruments and data collection (soundings, aircraft observations, Island and ships) that were deployed during DYNAMO including instrumentation issues, data processing procedures, and some preliminary results (Brown, Ciesielski, Johnson, Chen)
- Analyses of oceanic and atmospheric fields using dynamic and thermodynamic variables for the description of the processes involved during each of the three MJO disturbances during the DYNAMO period (Halkides, Judt, Li, Kubota)
- Discussed the role of the extratropics and Atlantic basin in the generation of the MJO and question their importance in the develop of the convective envelopes (Hirata)
- Overview of the DYNAMO field catalog, NCAR scientific data website, and communication overview through the outreach approach (Moore, Rockwell and Williams)

MJO index

Satoru Yokoi

- RMM is based on combination of global OLR and winds data.
- MJO index capable to determine its initiation: Regional-scale, temporally non-filtered, OLR.
 - Spatio-temporal filtered OLR (like WK99).
 - But, low-level easterly over the Maritime continent is also important.
 - Projection of OLR anomaly onto RMM PCs.
 - Selection of MJO events detected by RMM.
- Other posters:
 - Symmetric and asymmetric MJOs.
 - Boreal summer ISV index
 - Real time, multivariate EOF of OLR and u850.
- Indices of equatorial waves: Spatio-temporal filtering

Large Scale and Soundings Posters: Synoptic Internal Variability in the MJO

Brandon Kerns

- Preferred spatial scale of 20-30 degrees lat/long.
- Preferred time scale centered around 6 days.
- Modes of variability (possibly) accounting for the internal variability:
 - Kelvin waves?
 - MRG waves?
 - Rossby waves?
 - WIGs?
 - TD type systems?
- How can we objectively attribute day-to-day convection
to the various modes and/or the MJO itself?
 - Grid Point Contribution: which convective systems “project on to” RMM?
 - This approach can potentially be used with other modes
- To what extent do the systems affect the overall MJO?
 - Initiation
 - Dry air
 - Convective heating distribution
 - Dynamics
 - Downstream teleconnections