

# MJO Breakout Session

- 1:45-2:15 Guang Zhang: The MJO in a conventional GCM
- 2:15-2:35 Jim Benedict: SP-CAM Coupled to a Slab Ocean
- 2:35–2:55 Charlotte DeMott: The Boreal Summer Simulation of SP-CAM
- 2:55-3:15 Duane Waliser: Boreal summer MJO, SP-CAM cloud profiles, YOTC/WCRP MJO task force, DYNAMO, etc
- 3:15-3:30 BREAK
- 3:30-4:00 Discussion

# MJO in Renewal Proposal

## (Derived from Summer Meeting)

- Study the sub-grid-scale cloud regime simulated by the MMF as a function of MJO phase.
- Aquaplanet with zonally-asymmetric basic states (surface flux feedbacks, advection).
- Examine the intraseasonal moist static energy (MSE) budget of the MMF, focusing on 1) the tropical gross moist stability, 2) the ability of surface fluxes and radiative feedbacks to destabilize the MJO, and 3) the role of horizontal MSE advection.
- Analyze the MMF's ability to simulate the mean state and intraseasonal variability of monsoon systems in Asia and the Americas during boreal summer.
- Analyze MMF results to determine how tropical synoptic waves and depressions affect the momentum and moisture budgets of the MJO.
- CMMAP will participate through membership and diagnostic activities in the nascent WCRP/ WWRP MJO Task Force, a successor to the MJO Working Group.. Links will also be forged to a proposed Climate Process Team aimed at improving parameterized convection in global models.
- Use MMF results to guide the incorporation of moisture into shallow water models of tropical circulations. Create very simple analytical models of the MJO, which are key to physical understanding.
- DYNAMO and other external efforts