

# Outstanding Modeling Issues

- ✧ More deeply-considered and precise modeling intercomparison framework
  - ✧ **For hindcast intercomparison:**
    - ✧ Common initialization
    - ✧ Uniform experiment design
    - ✧ Common diagnostics
  - ✧ **For CSRM intercomparison**
    - ✧ Forcing datasets still in process
    - ✧ Resolution sensitivity needs to be examined
    - ✧ Forcing methods (e.g. WTG vs. traditional) still being refined
    - ✧ Development of common framework

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- ✧ Pursue integration of DYNAMO observations into GASS/MJOTF diagnosis of November 2011 DYNAMO event
- ✧ Collaborate with WGNE MJO task force on entraining DYNAMO observations into model process-oriented diagnosis.
- ✧ Pursue generation of ECMWF forecast tendencies for the DYNAMO domain. Who is contact?
- ✧ Pursue venue for focused radar-modeling workshop, including integration of model development community. 2014 ASP summer colloquium possible venue. Proposals due late summer 2013.
- ✧ Further thoughts needed on how DYNAMO observations can be directly used to diagnose large-scale models (e.g. divergence, diabatic heating profiles).

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- ✧ How to diagnose MJO initiation in models may not be possible in same way as observations, and so some ideas needed.
- ✧ Metrics for hindcast model skill for case studies needed
- ✧ Maritime Continent effect on MJO simulation success. Same issue for IOD.
- ✧ Model success at hindcasting DYNAMO MJO initiation very mixed. Anecdotally, models may be having more trouble than for other events in the broader record
- ✧ Importantly, effect of ocean coupling on hindcast skill should be assessed.