

# **CCSM/CLIVAR Tropical Biases Workshop**

## Acknowledgement

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GFDL for meeting facility

Special Thanks to Ms. Anna Valerio at  
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# Goals

- Brainstorm the issue of how to confront and overcome systematic model biases in the tropics on seasonal and longer timescales.
- Identify how consistent these biases are across the current generation of leading coupled models, the role of model resolution vs. parameterized physics, and diagnose how individual parameterized processes may be contributing to these biases.
- Propose hypotheses, strategies and possible solutions for addressing these problems.

# Day 1 (Wed 28 May)

- What do we know about tropical biases in current climate models?
- How similar are the biases seen in these models?
- What strategies/parameterization improvements have proved effective in improving tropical climate over the oceans in these models (i.e. history of model biases in individual models)?
- 5 hrs modeling center talks, 1.5 hrs AGCM & OGCM group discussions.

# Day 2 (Thur 29 May)

- How important is observational uncertainty in creating current biases or process errors?
- Are particular process studies called for?
- What new long-term observations (e.g. ARGO, enhanced TAO) would have maximal impact?
- To what extent do mean and seasonal biases impact our ability to forecast ENSO and ENSO related variability on SI timescales with CGCMs?
- 1 hr discussion results, 4.5 hrs process/small scale talks, 1.5 hrs discussion

# Day 3 (Fri 30 May)

- What have we learned from idealized or reduced physics models about tropical biases in real models?
- Are there promising avenues to pursue in the future?
- Should there be any organized plan or recommendations for CLIVAR activities to follow?
- 2 hrs reduced physics model/diagnostics talks, 1.5 hr discussion.

# Other Announcements

- Mini-CMIP: [http://pod.tamu.edu/~bias/mini\\_cmip](http://pod.tamu.edu/~bias/mini_cmip) ,  
[http://pod.tamu.edu/~bias/cmip\\_figs.html](http://pod.tamu.edu/~bias/cmip_figs.html) ,  
[http://www-pcmdi.llnl.gov/smip/tropical\\_biases](http://www-pcmdi.llnl.gov/smip/tropical_biases) ,  
<http://www.cesm.ucar.edu/experiments/ccsm2.0/b20.007/b20.007diags.html>
- Chris Bretherton will lead an effort to make the inter-model comparisons this summer
- Cash bar and hors d'oeuvres reception in the Holiday Inn between 6-7:30PM, May 28 (Day1)
- Lunch is being catered for Day 1&2 for \$12.25 PP/day