MEETING GOALS and OBJECTIVES:

Review Final Scenarios Selection Roadmap

Continue assessment of Rupp methodology on GCM performance

Discuss filtering process for CA Water Management needs

Sacramento Climate Data – Dave Curtis

Next Subgroup: Friday, October 18
Scenario Selection for Water Management in California

California Department of Water Resources – Climate Change Technical Advisory Group
September, 2013

**Objective:** Select a manageable suite of climate change scenarios for water management purposes in California.

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**Step 1.**
Filter latest suite of GCMs* for those that do not produce reasonable climatologies and distributions of anomalies for temperature and precipitation along the West Coast/California.

This will probably be done using the methodology proposed by Rupp et al. (OCCRI) currently in draft. Needs to be reviewed by CCTAG/DWR.

**Culled GCMs (not used/discardd)**

**Remaining GCMs**

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**Step 2.**
Further refine suite of GCMs by culling those that exhibit poor performance for Temperature, Precipitation, and Humidity for California. (No downscaling)

**Parallel Processes**
- Initiate study to evaluate GCM performance using a decision support tool to compare observed historical and simulated historical periods for use in future scenario evaluation activities
- Initiate separate/parallel process for devising scenarios and analysis methodologies for flood protection activities

A) Develop comparison methodology
B) Establish criteria and criteria weighting for measuring performance of each GCM
C) Perform GCM Comparisons

**Culled GCMs (not used/discardd)**

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**Step 3.**
Compile a suite of preferred GCMs for Water Management Analysis

**Step 4.**
Evaluate downscaling methodologies and formulate recommendations (Process/methodology for doing this as yet to be determined.)

**Step 5.**
Develop recommendations for compressing or reducing the number of individual GCM runs for specific applications

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* Coupled Model Intercomparison Project Phase 5 (CMIP5)
Figure 2. Relative error of the ensemble mean of each metric for each CMIP5 GCM. Models are ordered from least (left) to most (right) total relative error, where total relative error is the sum of relative errors from all metrics.
THANK YOU!