

Model-Observation Integration: Some thoughts

Three ways observations, process modeling feed GCMs:

- Physical insights communicated in person, meetings, journals (sometimes, may be hard to apply).
- Datasets directly comparable to model climatology or AMIP-like runs, globally, regionally, or in single columns
- Other process diagnostics (e. g. scatterplots, derived variables etc.)

Model developers are busy solving obvious GCM problems. Is the E Pacific ITCZ and underlying ocean one of them? If so, we may need to make that case.

Observationalists and process modelers need to be aware of the GCM parameterizations used for representing 'their' processes, and their strengths and weaknesses.