

Overview, Goals and Context

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Advance physical understanding by bringing together different perspectives (energetics, dynamics, radiative processes).

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Thank you to AGCI, John Katzenberger, Emily Jack-Scott

Context

- US-CLIVAR Workshop (Feb. 2017) narrowly focused on Arctic-midlatitude weather linkages.
- Need for input to the new Polar Amplification Model Intercomparison Project.

Breadth

- Both poles
- Tropical-extratropical connections
- Ocean-atmosphere interaction
- Stratosphere-troposphere coupling
- Forced vs. internal variability (signal-to-noise)
- Theory
- Modeling
- Observations

Goal: Brainstorming

- Take advantage of the broad set of expertise in the room to foster new ideas and approaches.
- What do we know and how well do we know it?
- What are the outstanding questions?
- How to make progress as a community?
- Frame questions to be addressed in the Polar Amplification “MIP”

Outcomes

- Flexible depending on what emerges from our discussions this week.
- Workshop report at a minimum.
- Possible Perspective piece in *Nature Climate Change* on emergent issues and themes.
- Experimental design for the Polar Amplification “MIP”

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Up Next

- Summary of US-CLIVAR Workshop (Xiangdong)
- Interactive prompts to stimulate discussion and interaction.