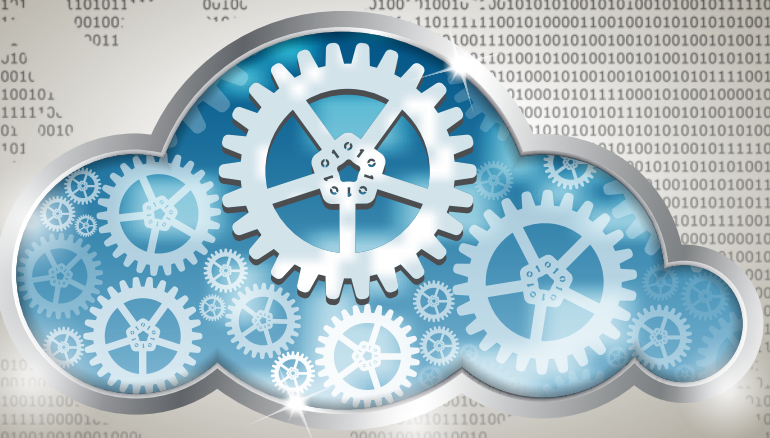

Physics Dynamics Coupling in Weather and Climate Models

Sept. 20-22, 2016
Pacific Northwest National Laboratory
Richland, WA, USA

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Weather and climate models include complex representations of dynamics (fluid motions) and physics (e.g. radiative transfer, chemistry, cloud processes) that span timescales from fractions-of-a-second to millennia. The coupling of these processes is complex and difficult to represent. The PDC16 workshop will work to address challenges in the development of advanced algorithms to accurately and efficiently represent process interactions that determine fundamental characteristics of weather and climate systems.

TOPICS OF INTEREST

- Conceptual issues in model or process formulation, including conservation and consistency
- Discretization of individual processes and process interactions
- Solution sensitivity to static or dynamic changes in spatial and temporal resolution
- Test strategies, results, and intercomparison
- Optimization, algorithmic efficiency and high-performance computing

SCIENTIFIC ORGANIZING COMMITTEE

- Hui Wan, Chair (PNNL)
- Phil Rasch (PNNL)
- Markus Gross (CICESE)
- Nigel Wood (Met Office)
- Christiane Jablonowski (U Michigan)
- Sylvie Malardel (ECMWF)

PDC16 Website and Registration
events.pnnl.gov

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