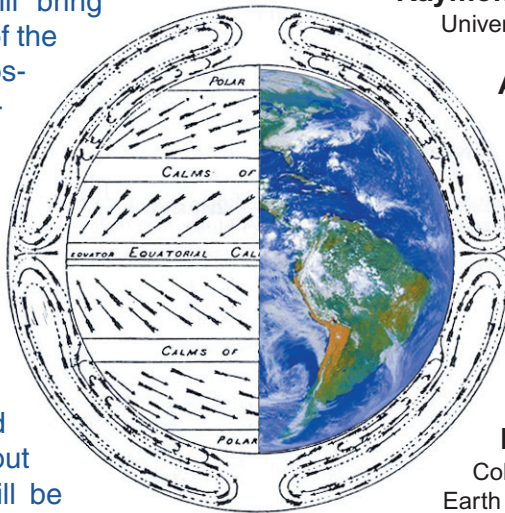


Global Circulation *of the* Atmosphere

November 4 – 6, 2004 • California Institute of Technology

Despite the considerable advances in our ability to simulate the global circulation of the atmosphere numerically, basic features of the Earth's climate—for example, storm track position and many aspects of the tropical climate—remain poorly understood. For improvement and interpretation of climate simulations, and for an understanding of past and future climate changes, an understanding of the dynamical mechanisms responsible for the maintenance and variability of the global circulation of the atmosphere is indispensable. The way to achieve this understanding is to use theory to synthesize available data and simulations.

This three-day conference will bring together experts in the theory of the global circulation of the atmosphere, with the aim of assessing the current state of our understanding and defining important outstanding questions. The first day of the conference will focus on tropical circulations, the second day on extratropical circulations, and the third day on interactions of tropical and extratropical circulations. About one half of the conference will be devoted to invited talks, with the rest allocated to contributed talks and posters.



Invited Speakers

Chris Bretherton

University of Washington

Kerry Emanuel

Massachusetts Institute of Technology

Isaac Held

Princeton University, GFDL/NOAA

Richard Lindzen

Massachusetts Institute of Technology

Edward Lorenz

Massachusetts Institute of Technology

Raymond Pierrehumbert

University of Chicago

Alan Plumb

Massachusetts Institute of
Technology

David Neelin

University of California, Los
Angeles

Walter Robinson

University of Illinois

Richard Seager

Columbia University, Lamont Doherty
Earth Observatory

Kyle Swanson

University of Wisconsin

The Global Circulation of the Atmosphere Conference 2004 is being hosted by the Division of Geological and Planetary Sciences and the Division of Engineering and Applied Science of the California Institute of Technology and is supported by the Davidow Research Fund.

Organizers: Tapio Schneider (Caltech) and Adam Sobel (Columbia).

www.ese.caltech.edu/gca2004