Summer Graduate Workshop

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Boulder, Colorado 8 -13 July, 2007

Data Assimilation for the Carbon Cycle

Background image courtesy of Constance Brown, SAHRA, Journal of Arid Environment

This workshop is part of the Thematic Program: Statistics and Computer Models supported by the Institute for Mathematics Applied to Geosciences and is also sponsored by the Mathematical Sciences Research Institute. Morning sessions will include tutorial lectures and afternoon sessions will use computer exercises to gain enhanced understanding of the topics presented in lecture. Each day will also feature a special invited lecture on a topic related to the geosciences, ecology or applied mathematics.

Students in the geosciences, ecology, and mathematics will be exposed to multidisciplinary science through a focus on estimating the sources and sinks of carbon for the Earth system. One goal is to train the next generation of researchers to work within a multidisciplinary science team. Participants will obtain an overview of this problem and specific skills in tackling inverse problems and working with geophysical and biogeochemical models.

Lectures and discussion will be supplemented by a series of computational examples and exercises based on state-of-the-art atmospheric and biogeochemical models and will include problem-solving with NCAR's Data Assimilation Research Testbed (DART) facility.

Principal lecturers and invited speakers

James Clark, Duke University
Inez Fung, University of California - Berkeley
Eugenia Kalnay, University of Maryland
Jeffrey Anderson, David Baker, Douglas Nychka, and David Schimel, NCAR

Meetings will be at the National Center for Atmospheric Research's Mesa Laboratory, located on the foothills above beautiful Boulder, Colorado

Application Procedures

A letter of application stating your research interests is required. Workshop registration and information can be found at **http://www.image.ucar.edu/Workshops/CDAS_2007.**

Applications and recommendations must be received by 31 March 2007.

MSRI
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