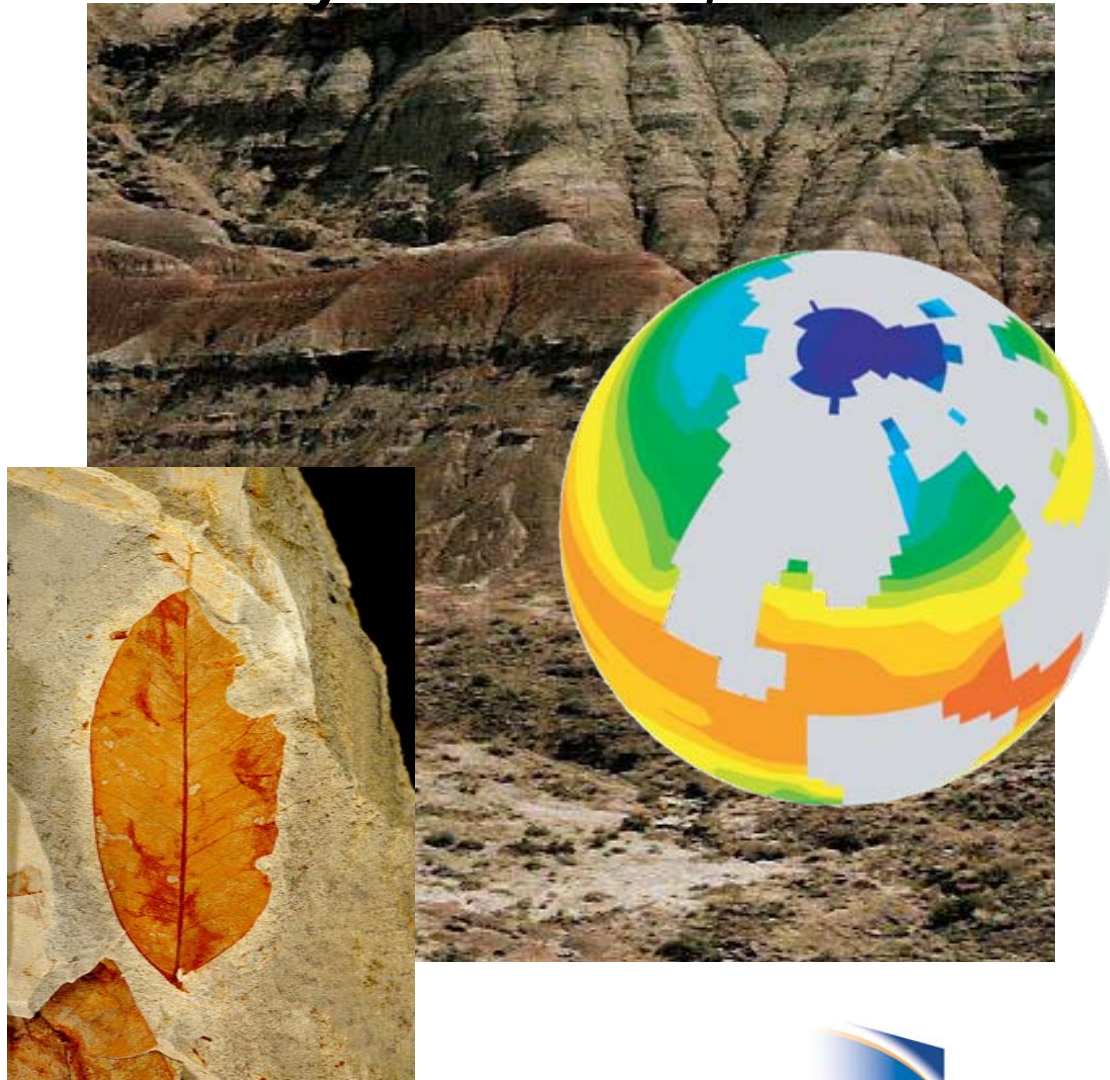


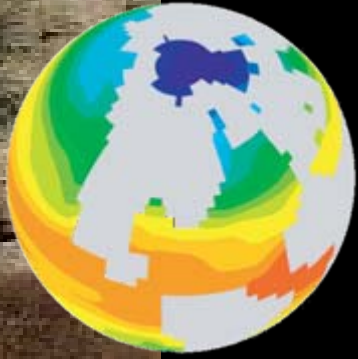
# PETM Data Model Integration Workshop

## Santa Fe, New Mexico

### May 31- June 1, 2007

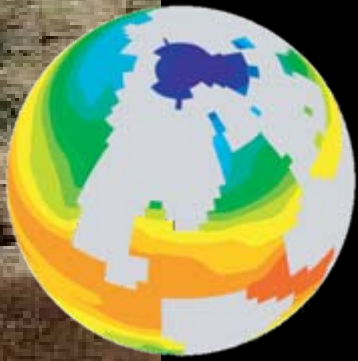


NCAR



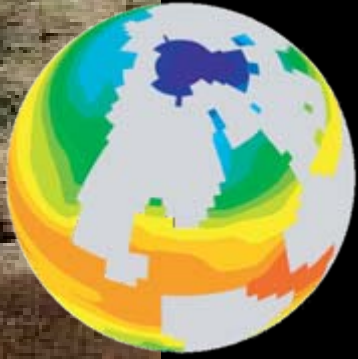
# Primary Goals:

- Develop strategies for addressing major challenges in global reconstruction and modeling at the PETM
- Develop strategies for better integration of models and data



# Key Challenges:

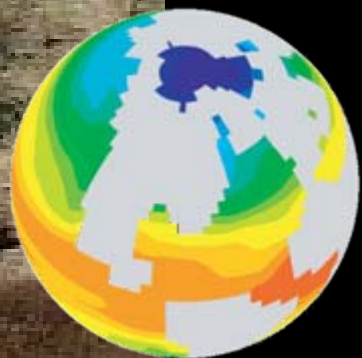
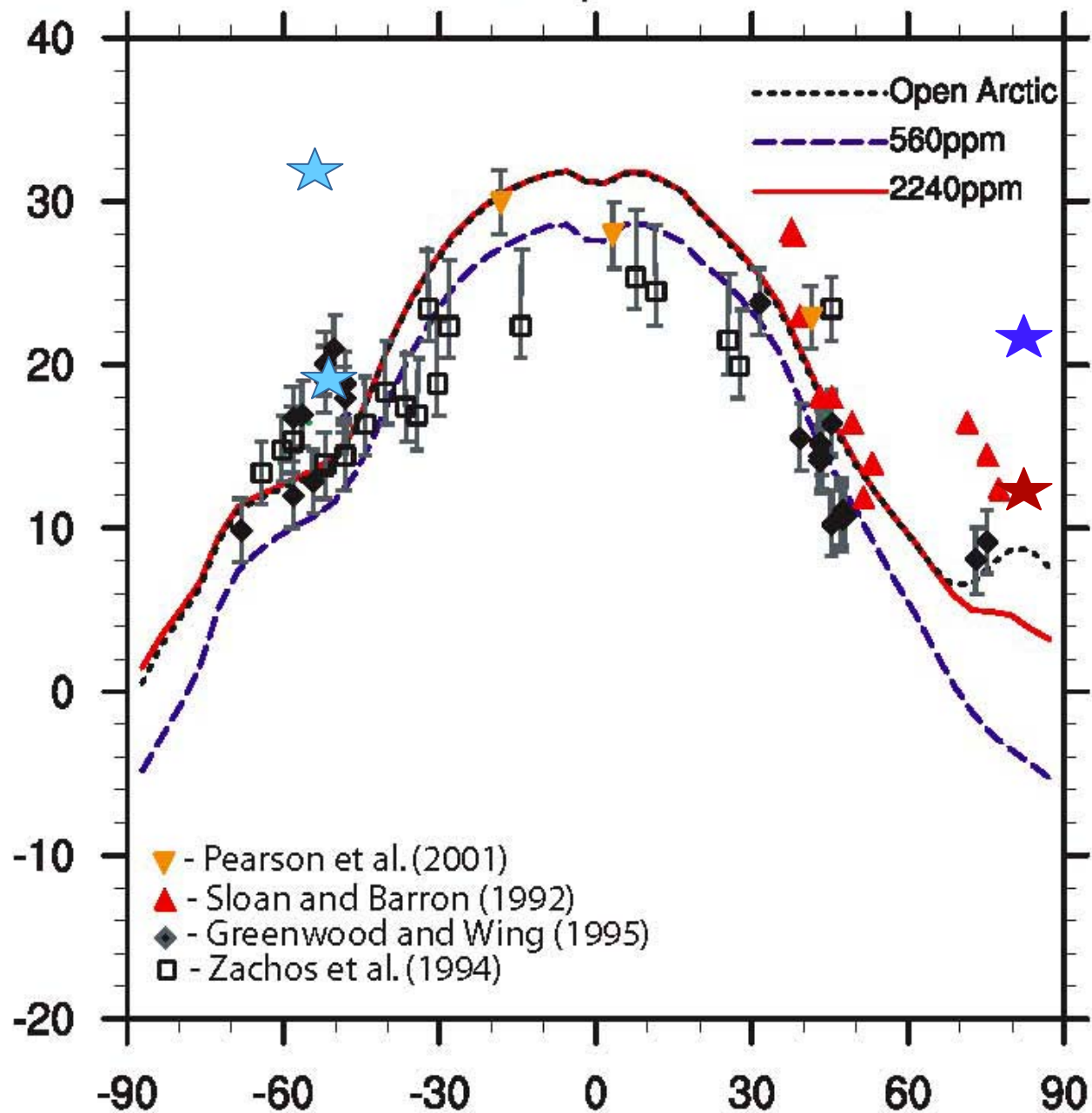
- Quantity and timing of greenhouse gas release
- Impact on (or role of) global ocean
- Mechanisms for high latitude warmth, equable climate, cool tropics
- Role and response of vegetation

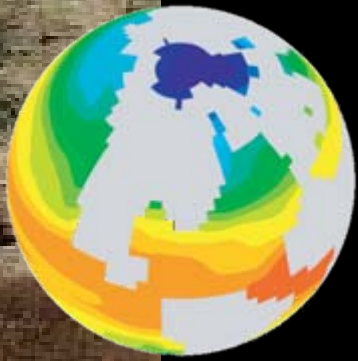


# Modeling Challenges:

- Representation of chemistry, isotopic tracers
- Representation of topography, soils, vegetation
- Reconciling resolution of models w/ field data
- Visualizing data from field and models

# Mean Annual Temperature Gradient





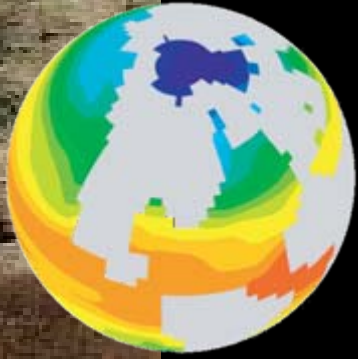
# Meeting Overview

## Day 1

Current state of understanding:  
data and modeling

New data on PETM climate

PETM climate and model-data  
comparison



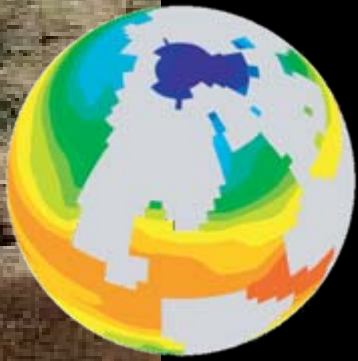
# Meeting Overview

## Day 2

Biogeochemistry at the PETM

Carbon at the PETM

Discussion of strategies for Data-  
Model Integration



# Workshop outcomes:

- (1) Synthesis of 'best' ocean data for the PETM in one paper (or map) for ease of comparison with models
- (2) Key model fields from multiple experiments plotted in standardized format.
- (3) Continue to develop experiments that focus on chemistry, carbon, isotope tracers, regional models