

# Climate Test Bed (CTB) Seminar Series

Presents

## **Kathy Pegion**

**NOAA/ESRL/CIRES  
Boulder, Colorado**

## **The Seasonal Footprinting Mechanism in CFSv2: Simulation and Impact on ENSO Prediction**

**11:00 AM – 12:00 NOON , Thursday, February 14, 2013  
EMC Conference Room #2155**

NOAA Center for Weather and Climate Prediction  
5830 University Research Court, College Park, MD 20740

### **Abstract**

The seasonal footprinting mechanism (SFM) is thought to be a precursor to the El Niño Southern Oscillation (ENSO). Fluctuations in the North Pacific Oscillation (NPO) impact the ocean via surface heat fluxes during winter, leaving a sea-surface temperature (SST) “footprint” in the subtropics. This footprint persists through the spring, impacting the tropical Pacific atmosphere-ocean circulation throughout the following year.

The simulation of the SFM in the NCEP/Climate Forecast System, version 2 (CFSv2) is likely to have an impact on operational predictions of ENSO and potentially seasonal predictions in the United States associated with ENSO teleconnection patterns. The ability of the CFSv2 to simulate the SFM and the relationship between the SFM and ENSO prediction skill in the NCEP/CFSv2 are investigated.