Welcome to VOCALS
First Modeling Workshop
NCAR, May 18-29, 2007
VOCALS will develop and promote scientific activities leading to improved understanding, simulation and prediction of the Southeast Pacific (SEP) coupled ocean-atmosphere-land system on diurnal to inter-annual timescales.

VOCALS is one of the principal components of WCRP/CLIVAR VAMOS*, and has links with the GEWEX GCSS group.

* VAMOS Variability of the American MOnsoon Systems http://www.eol.ucar.edu/projects/vamos/
Cold SSTs, coastal upwelling
Coastally trapped Kelvin waves and ocean eddies
Unresolved issues in heat and nutrient budgets
Important links between clouds and aerosol

Cloud-topped ABLs, with mesoscale structures
Influenced by and influential on remote climates (ENSO)
Poorly simulated by atmosphere-ocean GCMs
Monitoring
Satellites, Buoys, Maintenance cruises

AIRBORNE
NCAR C-130 (and others)
Stratocumulus, aerosol

SHIP
Ron Brown (and others)
Ocean eddies, DMS fluxes

Modeling
CGCM Biases
Numerical Predictions

VOCALS-REX

Monitoring
Satellites, Buoys, Maintenance cruises
VOCALS Timeline

Planning Phase

2003 - 2006

2007

Modeling and REx Workshops

IUGG Perugia

Field site surveys

VOCALS REx

2008

2009

VOCALS Conference

2010

Field and modeling synthesis/analysis

2003 - 2006

2007

2008

2009

2010
VMW1 - GOALS

1) **Revise** the scientific hypotheses of VOCALS modeling

2) **Identify** the models to be used in VOCALS, discuss their readiness, and review their difficulties with the key processes in the region;

3) **Design** strategies for model validation using current and anticipated VOCALS datasets;

4) **Determine** whether there are any critical gaps in the plan of the VOCALS REx;

5) **Discuss** the development of a Multi-Scale Seasonal Prediction (MUSSIP) system.