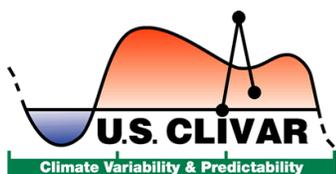


Welcome to VOCALS

First Modeling Workshop

NCAR, May 18-29, 2007



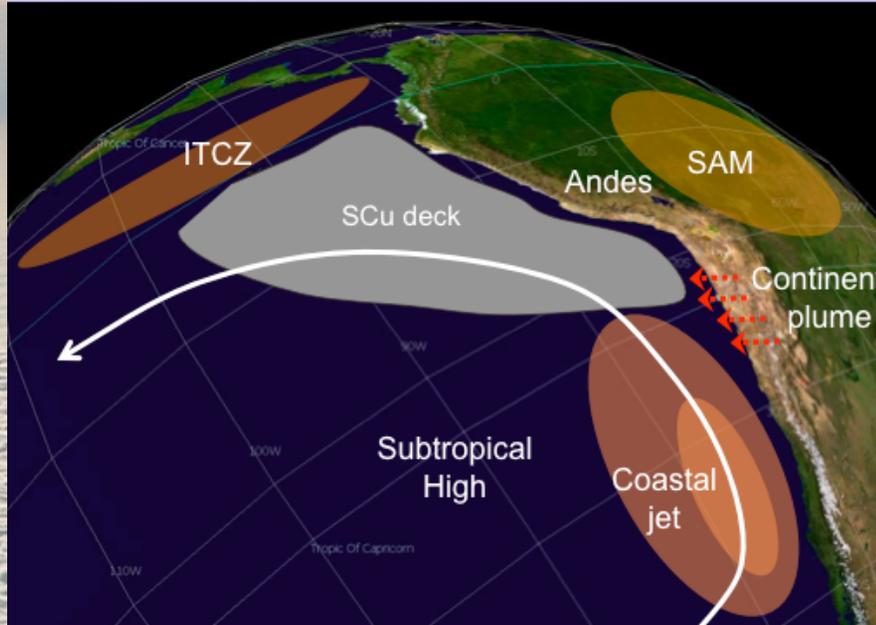


VOCALS will develop and promote scientific activities leading to improved understanding, simulation and prediction of the Southeast Pacific (SEP) coupled ocean-atmosphere-land system on diurnal to inter-annual timescales

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

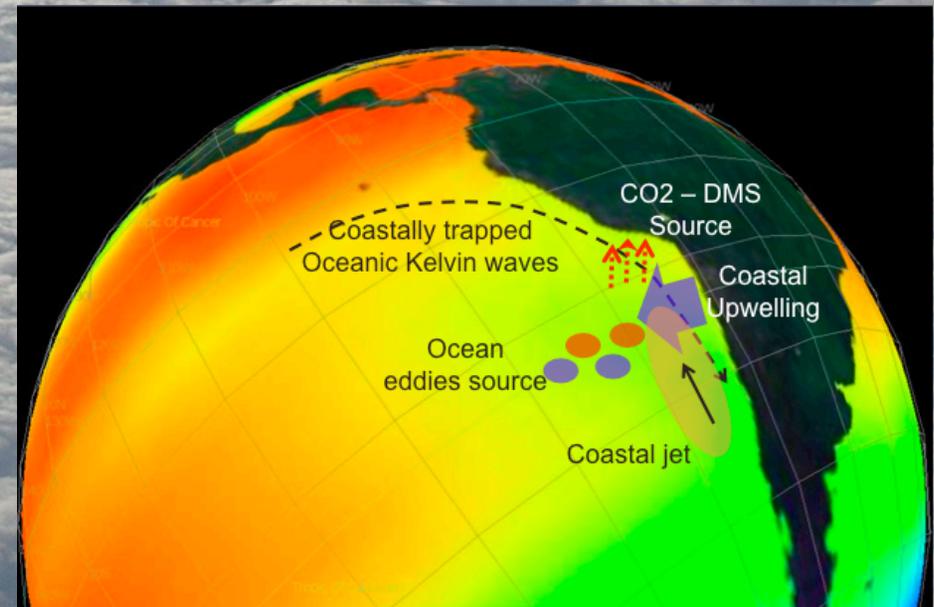
* VAMOS Variability of the American MOonsoon Systems <http://www.eol.ucar.edu/projects/vamos/>

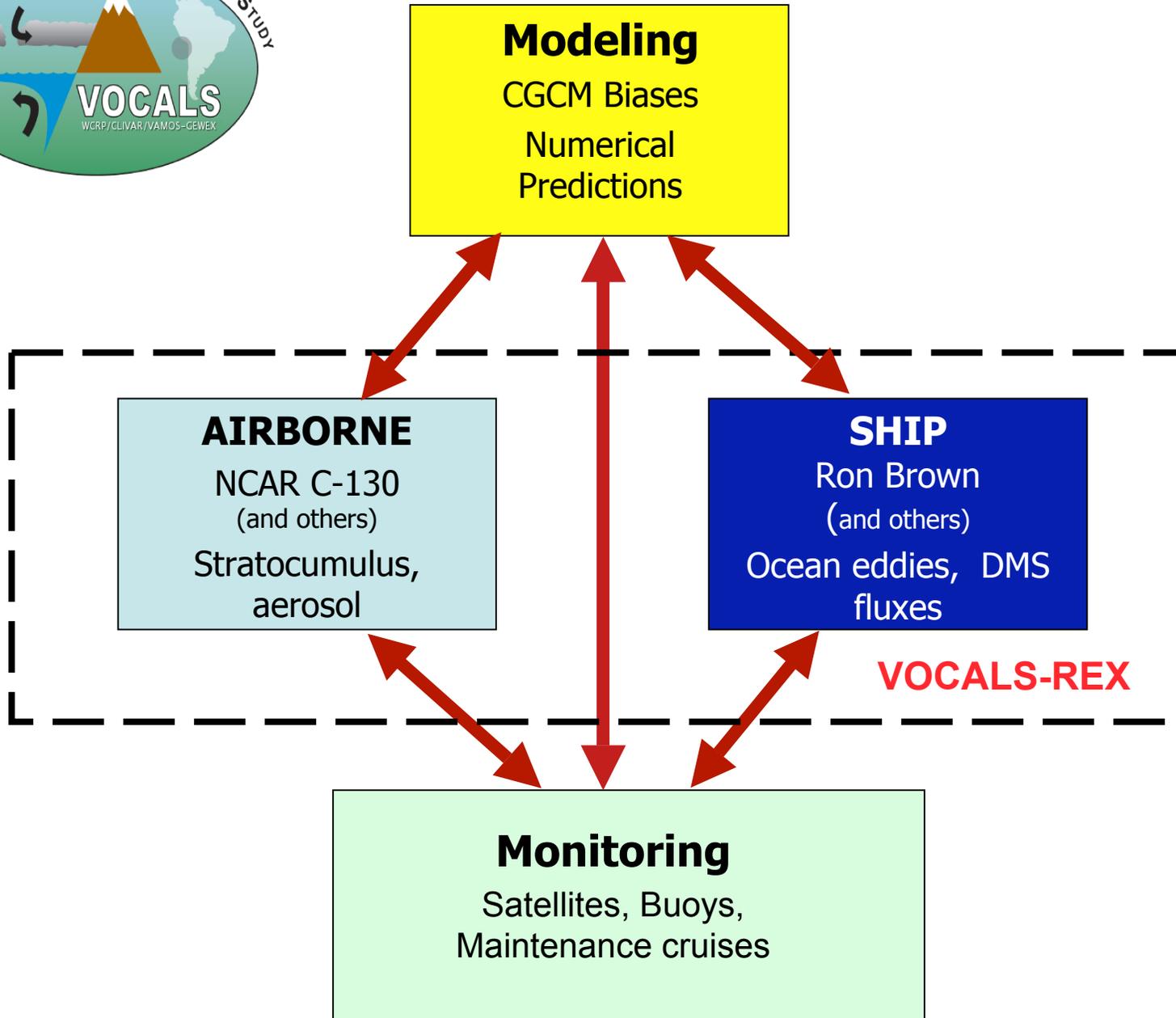
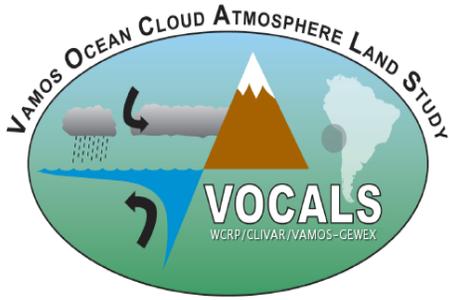
The Southeastern Pacific



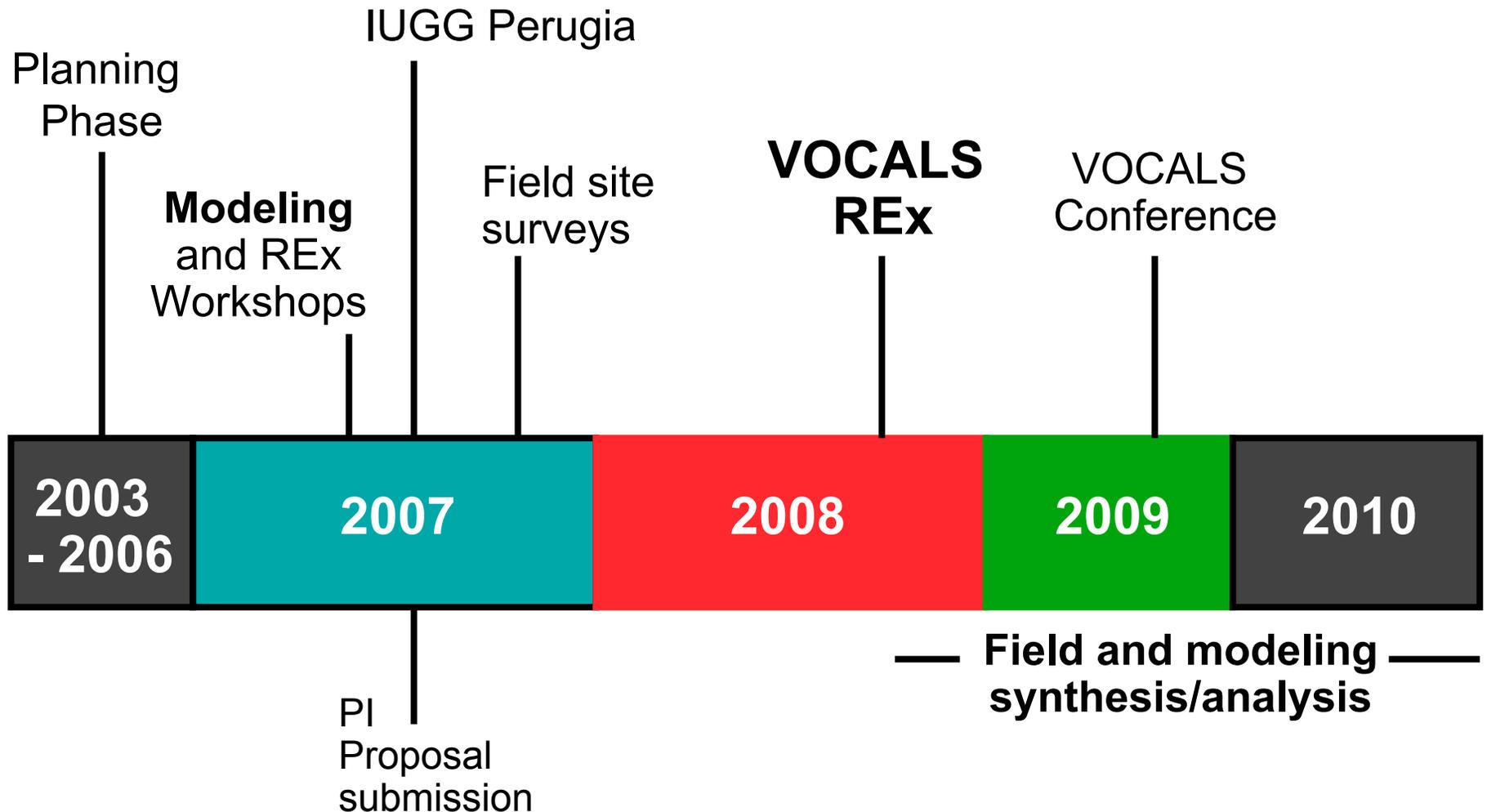
- Cold SSTs, coastal upwelling
- Coastally trapped Kelvin waves and ocean eddies
- Unresolved issues in heat and nutrient budgets
- Important links between clouds and aerosol

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





VOCALS Timeline



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.