

2013 U.S. CLIVAR Summit

July 9-11, 2013

Annapolis, Maryland

Meeting Objectives & Outcomes

Bob Weller, SSC Chair



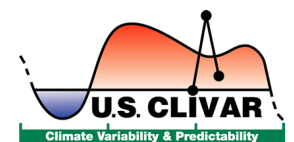
Main Objectives for Summit

- Context – provide update on U.S. and International CLIVAR programs and plans
- Cross-panel Interaction – foster dialogue among panels on common or joint topics
- Panel Business – review progress and identify gaps and opportunities
- Implementation Planning – identify action items to progress on new Science Plan goals and research challenges

Agenda

- **Tues, Jul 9 (Orientation and Context)**
 - U.S. CLIVAR Overview
 - Draft Science Plan Update
 - International CLIVAR Update
 - U.S. Agency Engagement
 - Research Challenges and ST/WG Reports
 - Inter-panel Interaction

**** Summit Reception from 6:30-8:00pm ****
- **Wed, July 10 (Panel Business)**
 - Charge to Panels – “back to basics”
 - Implementation Action Items
 - Panel Breakouts
- **Thurs, July 11 (Implementation Actions)**
 - Panel Summaries and Action Items
 - Cross-panel Action Items
 - National Climate Assessment
 - SSC meeting through Friday



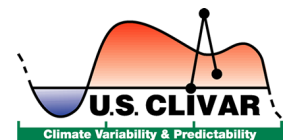
Process Study Model Improvement (PSMI) Panel Breakout

- Guide and assess use of process research and obs campaigns to improve parameterization and model development (CPTs)
 - 3 current CPTs (**Ruiyun Sun, Lou St. Laurent, Meibing Jin**)
 - Successes, pitfalls, lessons
- Review and coordinate U.S. plans for process studies
 - KESS (**written**)
 - CLIMODE (**written**)
 - VOCALS (**written**)
 - GO Amazon (**written**)
 - DYNAMO (**Augustin Vintzileos**)
 - DIMES (**Lou St. Laurent**)
- Further develop and consider new process studies
 - Calwater2/ACAPEX (**Ruby Leung**)
 - LatMIX (**Tamay Ozgokmen**)
 - ASIRI/Bay of Bengal (**Bob Weller**)
 - SAMOC (**Igor Kamenkovich**)
 - OSNAP & NA Bloom2 (**Baylor Fox-Kemper**)



Phenomena, Observations and Synthesis (POS) Panel Breakout

- Observations, Science and Society
 - IOOS & FOO (**Eric Lindstrom**)
 - Observable modes of climate variability (**Art Miller**)
 - Extremes (**Matt Barlow**)
- Reanalyses and Surface Fluxes (Joint with PPAI)
- Role of Satellite Observations
 - Polar climate (**Xiangdong Zhang**)
 - Sea level (**Don Chambers**)
 - Satellite observations, subsurface sensing, and continuity (**Xiao-Hai Yan**)
 - Water cycle missions (**Jared Entin**)
 - Integrated water cycle workshop (**Ruby Leung**)
 - Obs4MIPS (**Duane Waliser**)
- Tropical Variability and Observations
 - Measurements needs for tropical Pacific (**Antonietta Capotondi**)
 - Upper ocean processes, global drifter program and tropical moored arrays (**Rick Lumpkin**)
 - TAO observing system experiments (**Yan Xue**)



Predictability, Predictions and Applications Interface (PPAI) Panel Breakout

- State Estimation and Prediction
 - Session Goals (**Arun Kumar and Bruce Anderson**)
 - NOAA MAPP activities and Task Force (**Annarita Mariotti**)
 - Joint Session with POS on Reanalysis and Surface Fluxes
- Communication and Decision Support
 - Session Goals (**Bruce Anderson and Arun Kumar**)
 - Status of NMME (**Jin Huang**)
 - Role of CLIVAR & Decision Making (**Lisa Goddard**)
 - Role of CLIVAR Science and Service (**Robin O'Malley**)
 - Applications Process Teams (**Gregg Garfin**)



Joint POS / PPAI Session

- Reanalysis and Surface Fluxes
 - Ocean synthesis and surface flux analysis workshop (**Arun Kumar**)
 - Ocean reanalysis intercomparison workshop (**Jim Carton**)
 - Links with land surface (**Alexander Gershunov**)
 - Coupled ocean-atmosphere-ice reanalyses (**Dimitris Menemenlis**)
 - Initialization of seasonal predictions (**Yan Xue**)
 - Needs and next steps (**Michael Bosilovich**)

Anticipated Outcomes

- Evaluation of status, gaps, and opportunities
- Specific recommendations and actions items regarding:
 - AMOC Science Team and 8 Working Groups
 - Observing and data systems
 - Reanalyses and ocean state estimation
 - Process studies from field phase through synthesis
 - Successes and lessons from CPTs
 - Coordinated prediction and projection efforts
 - Contributing to the National Climate Assessment
- Identification of cross-panel implementation activities