



2015 US CLIVAR Summit Wrap-Up & Next Steps

Sonya Legg, SSC Co-Chair

Outcomes

- Simulating presentations and discussions through Science Sessions
 - Addressing the challenges in observing, understanding, and forecasting ENSO
 - Addressing the challenges to define the hiatus and to differentiate and assess its underlying mechanisms and predictability
- Identification of near-term panel priorities with specific recommendations and action items regarding:
 - Status and needs of sustained observing systems, including **polar** and deep ocean deployments
 - Analysis systems and synthesis of climate parameters
 - Climate variations and impacts across timescales
 - Opportunities to advance science on predictability of coastal shelf **ecosystems**
 - Process study feedback and approach to evaluating studies
 - Implementing process understanding in models
 - Predictability and prediction on S2S and **decadal** timescales, including **extremes**
 - Quantifying uncertainty in climate and ocean predictions
 - Connecting prediction and climate information development
 - Communicating advances in understanding gained through CLIVAR with intermediaries and practitioners in applications

Next Steps

Summit Report

Panel and SSC telecons in fall and winter/spring

- Critical importance of inter-Summit dialogue and progress on action items
- Engage new reports from NRC and International CLIVAR

Calls for new WG (up to one new) and workshops in September

Nominations of new Panel co-chairs this fall

Calls for new US Panel members (winter); new International Panel members (tbd)

Opportunity to contribute to **research highlights**, showcasing US CLIVAR-related papers through US CLIVAR website (contact Kristan)

Panel meetings next Summer (dates and locations tbd)

Measuring Progress

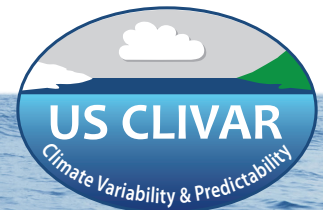
Reviews of 5-year Project Office proposal called for defining approaches for evaluating scientific and programmatic progress

➤ Establish metrics to measure

- Improved depth of understanding; improved observing systems; improved models; improved analyses; improved predictions
- Improved quantification of uncertainty in observations, analyses, predictions, projections
- Effectiveness of integration across sciences (e.g., interdisciplinary engagement; linking observations and models)
- Lessons learned and best practices employed
- Transition of practices from research to operations
- Impact on capacity building and training, including diversity
- Community engagement and communication efficacy
- Effectiveness of international partnerships; of inter-program partnerships

➤ Conduct external program reviews

- Of 5-year proposals
- Through NRC
- Through ad-hoc external committee



Upcoming Workshops/Meetings

◆ US CLIVAR

- Observing and modeling climate variability in the Intra-Americas Seas, Sep. 9-11
- Translating process understanding to improve climate models, Oct. 15-16
- Connecting paleo and modern oceanographic data to understand AMOC over decades to centuries, May 23-25, 2016

◆ International CLIVAR & WCRP

- Southern Ocean air-sea fluxes, Sep. 21-25, Frascati, Italy
- Energy flow through the climate system, Sep. 29-Oct 2, Exeter, UK
- Charting the course for future climate and ocean research, Open Science Conference, Sep. 19-21, 2016, Qingdao, China

◆ AGU, Ocean Sciences, AMS Meetings

- US CLIVAR-Organized Sessions
- International CLIVAR Town Hall

Thank You

Science Session Organizers and Presenters

Panel Co-chairs for organizing and convening sessions

Panelists for preparation, participation, and taking action

Special thank you to **Kristan and Jill** for excellent support

Thanks to outgoing Panelists:

POS

Yan Xue
Subra Bulusu
Antonieta Capotondi
David Halpern

PSMI

Gad Levy
Tom Farrar
Alessandra Giannini
Jennifer Kay
Lou St. Laurent
Aneesh Subramanian

PPAI

Gregg Garfin
Bruce Anderson
Hyemi Kim
Andrea Ray

SSC meeting in
Javelina Room at
noon

