

PPAI Breakout Panel Summary

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Agenda & Discussion

- **Introductions**
- **CLIVAR & PPAI background**
 - *Is an enabling mechanism* for “...coordinating and advancing research within the U.S.”
- **Past milestones (WGs; ...)**
- **Achievements since last summit**
 - NCAR summer colloquium on “Carbon-climate connections in the Earth System” ; Hurricane working group workshop ; Extremes working group workshop
 - Contribution to the U.S. CLIVAR Science plan

Agenda & Discussion

- MAPP (Modeling, Analysis, Predictions, and Projections) activities and Task Forces (*Annalisa Mariotti*)
 - Prediction/Predictability/Reanalysis/Model development/Drought
 - Task Forces
 - CMIP5 / Climate Predictions / Drought/*Reanalysis*
- Joint session with POS on reanalysis
 - Summary of GSOP Ocean fluxes workshop
 - Discussions on next steps

Agenda & Discussion

- **National multi-model ensemble (Jin Huang)**
 - Interagency supported
 - Availability of seasonal forecast data archives for prediction and predictability research
 - Moving from seasonal to sub-seasonal predictions
- **Session 2: Communication and decision support**

Agenda & Discussion

- **Role of CLIVAR science in decision making (Lisa Goddard)**
 - Advances in science not proportional to their use in decisions
 - **Challenge:** Pathways from forecast providers (CLIVAR) to decision makers
- **Role of CLIVAR science in support of adaptation (Robin O'Malley – USGS)**
 - DOI/USGS Climate Science Centers
 - Addressing management challenges driven specific questions
 - Usable/Actionable science
 - Horizon ~ 30-50 years; But would like to have information on 1-20 years
- **Application Process Teams (APTs) (Gregg Garfin; Andrea Ray)**
 - Collaboration with application communities
 - To help facilitate and organize communication
 - Discussion of various practical concepts for APTs

Recommendations and Actions Items

- **Review and revise the ToR (30th November, 2013)**
- **Ideas for workshops**
 - A gathering of CLIVAR and application community to understand research requirements
 - Predictability of high latitude climate variability
- **Integration with the other panels**
 - Communicate application relevant metrics
 - Seek input while revising TOR
 - Coordinate with POS on reanalysis strategy and foci
 - Inform on observing systems requirements necessary to maintain, and enhance, prediction skill (e.g., tropical Pacific)

Recommendations and Actions Items

- **Liaise with MAPP**
 - Liaise with MAPP task force on
 - Climate predictability & predictions
 - Reanalysis
 - Promote concept of CMEP like activity for assessment of seasonal predictability & predictions using NMME data sets
 - Feasibility of MAPP tasks forces as science teams

Recommendations and Actions Items

- **Develop some anchoring themes, and self organizing activities within PPAI; for example:**
 - **Connecting process studies, observations, and data assimilation → PSMIP; POS**
 - **Assimilation and onset of model biases → PSMIP; POS**
 - **Observing simulations experiments (equatorial Pacific ocean observing system) → POS**

Recommendations and Actions Items

- **Scope the concept for the Application Process Teams (APT)**
- **Develop connection with appropriate boundary organizations (e.g., DOI; NOS;...)**

Recommendations and Actions Items

- **Papers (or a thematic issue) in CLIVAR Variations, for example:**
 - **Address outstanding questions in**
 - **Communication and utilization of uncertainty in decision making**
 - **Connecting predictions and applications**
 - **Pathways to operations**