Agenda & Discussion

• Introductions
• CLIVAR & PPAI background
  – *Is an enabling mechanism* for “...coordinating and advancing research within the U.S.”
• Past milestones (WGAs; ...)
• 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