Agency Guidance Presentations

- Relevant agency mission and goals
- U.S. CLIVAR activities supported over the past 3-4 years
- Long-range (5-10 years) climate research areas of interest that intersect with U.S. CLIVAR
- Budget history and outlook
- How U.S. CLIVAR can engage and provide value
Agency Guidance

U.S. CLIVAR Summit
2013
Relevant Agency Mission and Goals (unchanged)

• How is the global ocean circulation varying on interannual decadal, and longer time scales?
• What changes are occurring in the mass of the Earth’s ice cover?
• How can climate variations induce changes in the global ocean circulation?
• How is global sea level affected by natural variability and human-induced change in the Earth system?
• How can predictions of climate variability and change be improved?
U.S. CLIVAR Activities Supported over the Past 3-4 Years

- Base support for U.S. CLIVAR Office
- Ocean state estimation
- Decadal climate variability research/workshops
- Atlantic Meridional Overturning Circulation research
- Satellite altimetry (OSTM/Jason-2, OSTST)
- Aquarius/Ocean salinity science team (2011 launch)
Long-range (~5-10 years) Climate Research Areas of Interest that Intersect with CLIVAR

– End-to-end systems for climate prediction
– Understanding the role of slowly varying components of the earth system (e.g. ocean and ice) in climate (particularly sea level rise)
– Observing system development (esp. space-based technology)
– Atlantic Meridional Overturning Circulation
– Decadal Climate Variability (particularly ocean role)
Budget History and Outlook

• Earth Science Division (ESD) budget has been relatively stable in recent years (~$1.7B/yr)

• NASA ESD budget is organized around missions and research – missions dominate and large parts of research funding follow from missions. Linkage of proposals to NASA remote sensing is very important.

• Physical Oceanography Research (~$25-30M/yr, ~160 projects)

• Research solicited through Research Opportunities in Space and Earth Science (ROSES) issues in mid-Feb each year.
  – Physical Oceanography (due end June each year) (success rate ~25%)
  – Ocean Salinity Science Team (due end July 2013)
  – Ocean Vector Winds Science Team (due end Oct 2013)
  – SPURS Synthesis (due end of Nov 2013)
  – Sea Level Rise (under review)
  – Ocean Surface Topography Science Team (recently selected)
How to Engage and Provide Value (continuing)

– PPAI - Climate/Decision Support interface
– PSMI - Process Improvement into ESMF, SPURS, ocean-ice sheet interaction,
– POS - Systematic measurements and development of climate data records, observing system priorities
– Map CLIVAR ambitions to agency goals, agendas, and priorities (can we carve CLIVAR into agency-friendly segments - the challenge continues)