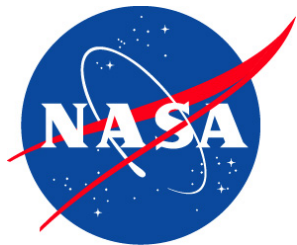


Agency Guidance Presentations

- 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

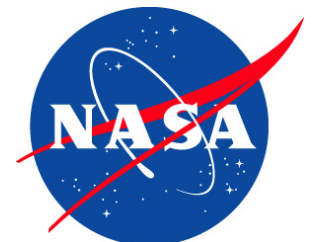
Agency Guidance

U.S. CLIVAR Summit
2013



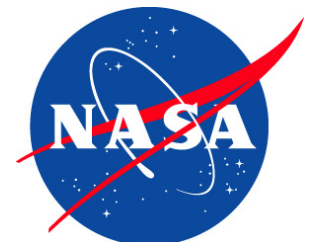
Relevant Agency Mission and Goals (unchanged)

- 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?



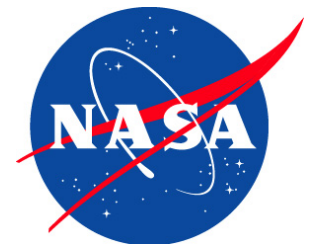
U.S. CLIVAR Activities Supported over the Past 3-4 Years

- 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)



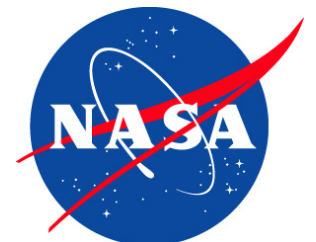
Long-range (~5-10 years) Climate Research Areas of Interest that Intersect with CLIVAR

- 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)

