

National Aeronautics and Space Administration



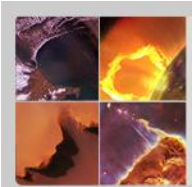
Apologies
for missing
the meeting!

Doctor grounded
me for one week.

NASA Earth Science Division
Physical Oceanography Program Update
Aquarius Science Team, Buenos Aires
Eric J. Lindstrom

12 November
2013

ESD Operating Missions



Aquarius

OSTM/Jason 2 (NOAA)



Jason

QuikSCAT*

TRMM

EO-1

Landsat-7 (USGS)

Aqua

ACRIMSAT

Terra

SOFIE

GRACE (2)

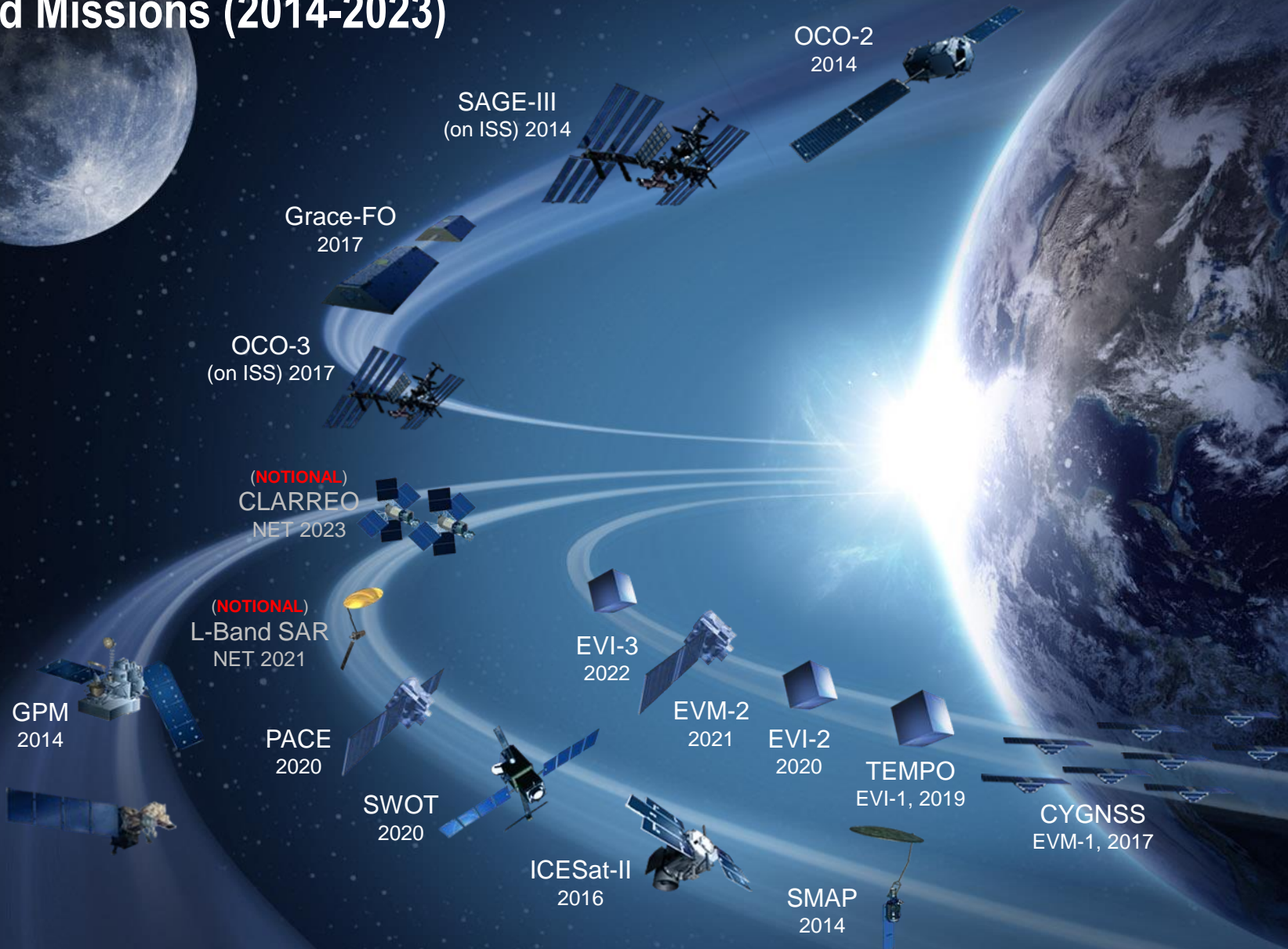
Aura

CALIPSO

CloudSat

NPP

NASA Earth Science Planned Missions (2014-2023)



NASA Physical Oceanography Program

Support missions on orbit: Jason-2 (Altimetry), QuikSCAT (Winds), Aquarius (Sea Surface Salinity),

Support missions in development: Surface Water and Ocean Topography (SWOT), Jason-3 (Altimetry), RapidSCAT (Winds)

Support “virtual missions”: Next Generation SST (GHRSSST), Atlantic Meridional Overturning Circulation (AMOC)

Support Climate Focus Area/Ocean Observing: US CLIVAR, USGCRP, GOOS, GCOS, OOPC, GODAE OceanView,, NOAA COSC, IOOC, CEOS,



Funding for NASA PO – ROSES 13

- Ocean Surface Topography Science Team
- SWOT Science Definition Team
(completed - new starts first quarter 2013)

- Sea Level Change (May)
- Terra and Aqua (May)
- Physical Oceanography R&A (June)
- Sea Surface Salinity Science Team (July)
- Ocean Vector Winds Science Team (October)
- SPURS Analysis and Synthesis (November)

Total standing stock of ~160 projects. On average review ~250 proposals/year, selecting ~50. Panels for all in process.



Outlook (1 of 2)

Sequestration cuts in March 2013 were about 8% for Physical Oceanography Program. This is being absorbed by re-phasing of funding.

Government shutdown in October had numerous impacts. Expect some delay in ROSES announcements as we recover lost panels.

Now under continuing resolution until 15 January. Another round of sequestration cuts hits on that date unless a new budget formula is enacted.

Budget stress likely to continue for foreseeable future. Major impacts to PO Program **may** include;

- delay of SPURS 2
- delayed building of SST Science Team
- more “incremental funding”
- more pressure on PI for cost and billing control



Outlook (2 of 2)

Ocean salinity science team proposals received at the end of July are under review. The process was delayed somewhat by Government shutdown. Selections in January.

This month PO Program will receive SPURS Synthesis proposals and proposals to lead the planning of SPURS-2.

SPURS-2 is being planned for one year starting (nominally) in September 2015, centered around 5N in the eastern tropical Pacific (Gulf of Panama). Proposals for the field campaign will be solicited in ROSES 2014 (due out in February 2014).



Next Science Teams 2014

- SWOT Science Definition Team [Jan 14-16, DC]
- Ocean Vector Winds [May 2-6, Brest, France]
- Atlantic MOC [Sept 9-11, Seattle]
- Ocean Salinity [Sept 15-19, USA TBD]
- Ocean Surface Topography [Oct, Europe, TBD]
- Sea Surface Temperature [Oct/Nov, USA]

Foreign travel to conferences is now strictly limited. Most science teams fit the definition of “operational meetings” but also meet criteria for definition as a “conference” and will likely be treated as such.



Interagency/International meetings of note

- Fall AGU (SF, 9-13 Dec 2013) – EJL receives Ocean Sciences Award!
- Tropical Observing System Workshop (SIO, 27-30 Jan 2014) – Salinity and Satellite whitepapers
- AGU/ASLO/TOS Ocean Sciences Meeting (HI, 24-28 Feb 2014) – Salinity special session
- TBC – SPURS-2 Planning Meeting (TBD, 12-14 March 2014) – Planning for field campaign in Gulf of Panama region w/Sept 2015 start.





Thank you



GLOBAL OCEAN OBSERVING SYSTEM

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The oceans are the basis of the life support system. GOOS measures ocean warming and provides an opportunity for the human system to respond.

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