



# International Ocean Vector Winds Science Team

## May 2017

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NASA Headquarters  
Washington, D.C.

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NASA HQ 5/2017

# Evolution since last IOVWST

## Program Planning Activities - NASA HQ

- The long ending of QuikSCAT continues (2009 to present)
- End of ISS RapidScat (ISS Power loss – August 2016)
- ROSES 2017 (US OVWST recompetition)
- Decadal Survey (in progress 2017)

## Program Science Activities

- Seeking more synergy with other measured variables
- 2016 Multi-variable workshop (UW, April 2016)
- Planned 2017 follow-on workshop (27-30 Nov 2017, U.Washington Conf. Center, POC Peter Gaube and Kyla Drushka)

# Evolution of US OVWST



- OVWST Re-compete in ROSES 17
- Proposals due 10/30/17
- Expect ~60 proposals. Selection of ~20 proposals (33%) BT ~May 2018. \$3.5M available (but certainty pending FY18 appropriation)
- Expect a similar size team with some newer topical foci and new participants. Expect more:
  - Science from the OVW climatology (ten years+)
  - Development/work on products from variety of sources (e.g. L-Band)
  - Science from RapidSCAT
  - Synergy with other science teams (SST, Salinity, OSTST)

# Building more science synergy

- Over time can we develop more synergy with SST, SSS, and OSTST teams within NASA Physical Oceanography (and others)?
  - SST Science Team meeting
  - L-Band winds (Aquarius/SMOS/SMAP)
  - A NRT Ocean Product (CEOS Ocean Variables Enabling Research and Applications for GEO - COVERAGE)
- Science team meetings can be considered “Self-Organized Learning Environments”
  - What we get out is more than the sum of the individual funded projects.

# End of QuikScat



- It has been proposed to terminate the QuikScat mission by end September 2017.
- Currently under NASA ESD Senior Review for extension beyond Sept 2017.
- Discussion of health of satellite and potential for products at this meeting (for report out to Senior Review next week in DC).



# Further Guidance

- Need your engagement during next year to further the evolution of the Tropical Pacific Observing System (TPOS 2020 is a GOOS project) (They want winds!)
- Please engage Paul Chang and others involved in the CEOS Ocean Vector Winds Virtual Constellation.



# Questions?



# BACKUP





# OVWST Organization

- Ernesto Rodriguez, QuikSCAT **Project Scientist**, JPL
- Mark Bourassa, OVWST **Team Leader**, FSU
- Eric Lindstrom, OVW **Program Scientist**, NASA HQ



# Project Scientist

- The QuikSCAT Project Scientist is responsible for:
  - 1) Maintaining the set of science requirements for the QuikSCAT mission.
  - 2) Monitoring the scientific aspects of QuikSCAT that impact the overall mission cost, schedule, and performance.
  - 3) Serving as the primary representative of the 22 member science team within the JPL Quikscat Project.
  - 4) Working with the science community to define quantitative science requirements for future ocean vector winds measurements in light of QuikSCAT results.
  - 5) Acting as the single point of contact for the scientific representation and decisions required by the QuikSCAT Project and NASA.
  - 6) Tasking OVWST members and subgroups to address key technical issues as necessary.



# Team Leader

- In close association with the JPL QuikSCAT Project Scientist, the Team Leader will have the following responsibilities in addition to his research activities:
  - 1) As necessary, author and coordinate the OVWST's corporate input with regard to Science Requirements related to NASA's ocean vector winds products;
  - 2) Coordinate with appropriate foreign and interagency partners (technical or scientific) to facilitate data access for OVWST science team members and scientific collaboration with like groups;
  - 3) Organize, plan, and chair Science Team meetings and author reports of the meetings;
  - 4) Organize, plan, and chair Ocean Vector Winds Special Sections at appropriate professional society meetings;
  - 5) Organize, plan, and solicit publication of OVWST results in special journal issues or sections of journals; and
  - 6) Assist NASA Headquarters Program Scientist to coordinate OVWST and Research and Analysis (R&A) program activities where synergistic and/or promising developments are possible.



# OVWST Member Responsibilities

- 1) Deliver scientific breakthroughs and well-cited publications.
- 2) Report these results/publications to the QuikSCAT project and OVWST.
- 3) Attend and actively support science team meetings on a regular basis (generally one OVWST meeting and one specialized workshop per year).
- 4) Respond, as necessary, to requests from the Project Scientist and Team Leader for scientific and technical input.

# NASA Physical Oceanography Program

**1) Support missions on orbit:** Jason-2, Jason-3 (altimetry), QuikSCAT (winds), SMAP (sea surface salinity), GRACE (ocean gravity)

**2) Support missions in development:** Surface Water and Ocean Topography (SWOT), Sentinel-6A&B (altimetry), Venture Class (ocean proposals)

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

**4) Support Climate Focus Area/Ocean**

**Observing:** US CLIVAR, USGCRP, GOOS, GCOS, OOPC, GODAE OceanView,, NOAA COSC, IOOC, CEOS, ....