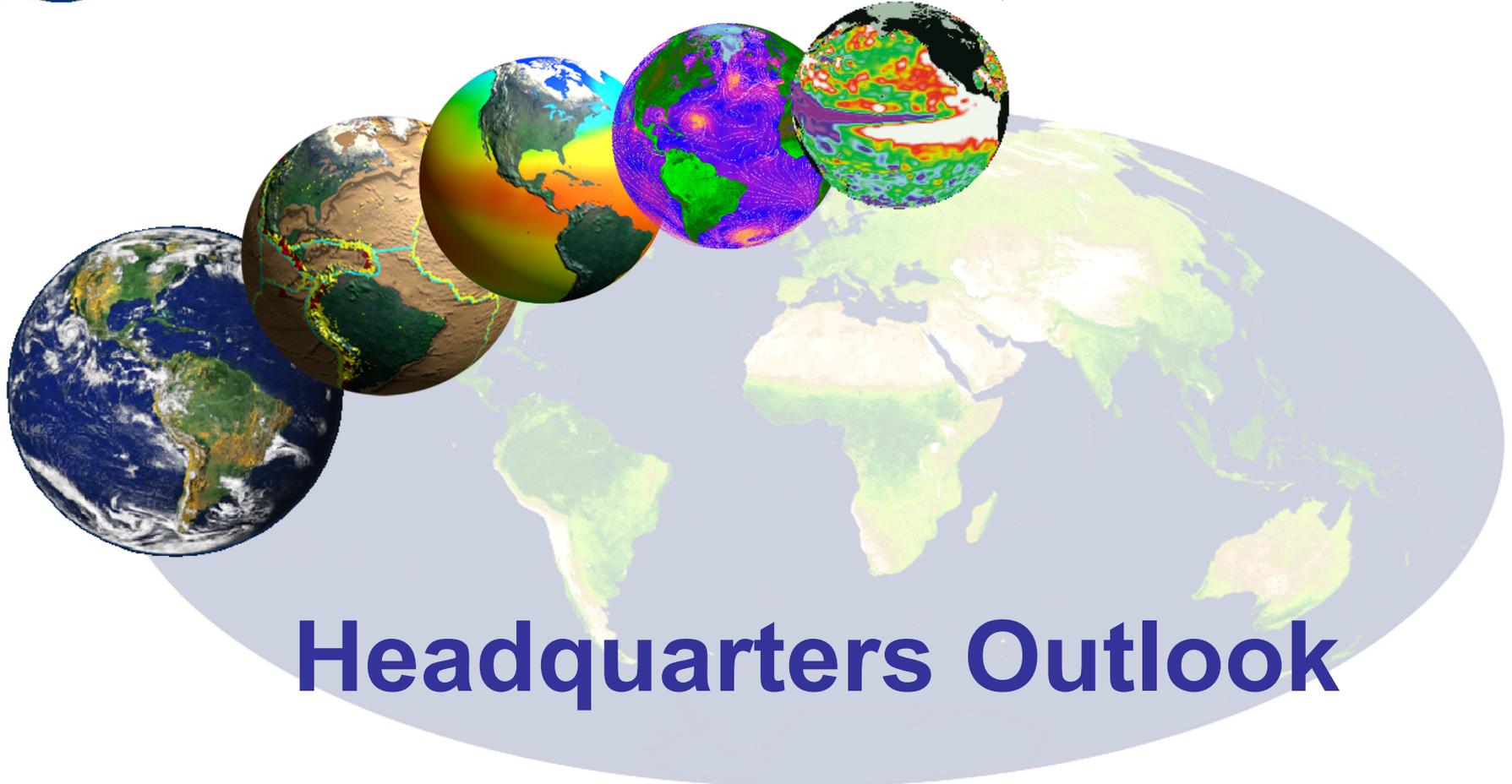




**ECOSTRESS Science Team Meeting
June 28-20, 2018, Marriott Courtyard, Cocoa Beach, FL**



Headquarters Outlook

**Woody Turner
Earth Science Division
NASA Headquarters**

June 29, 2018

Commitment

- Congratulations!
- Things are different now. Historic day.
- July 2014: ECOSTRESS EV-1 selection
- June 2018: ECOSTRESS in orbit
- Cost = \$30M instrument + \$30M ISS
- ECOSTRESS earned the “STRESS” in its acronym
- Lessons learned must be shared with HQ, JPL, other Centers
- A mission at 1/10 the cost → 10x the science

ISS

- Relatively suddenly ISS is hot real estate
 - A bad neighborhood for Earth Science has become popular
 - RapidScat (9/2014); CATS (1/2015)
- ECOSTRESS: a market leader
 - Thank God for the ISS orbit and the diurnal cycle!
 - Good for 1 year on orbit + a 1-year extension, if working, per Simon
- DESIS (6/2018)
- GEDI (11/2018)
- OCO-3 (2019)
- HISUI (2019)
- ISS carrying the ideal suite of biological sensors in space!
- Watch data policy with HISUI

ECOSTRESS Science & Applications Team Solicitation

- Check out A.7 in ROSES 2018
- Release when community has data to work with
 - Nominally 6 months after IOC (end January 2018) at LPDAAC
 - If some data available earlier, can release sooner
- Proposals due 90 days after release of ROSES amendment to A.7
- Option to propose team leadership
- Budget for 1 team meeting per year
- Budget: ~\$80,000 - \$180,000 per project per year for 3 years

ECOSTRESS Science & Applications Team Solicitation 2

- Proposals should focus on use of L2, L3, and L4 products
- Open to production of alternative L3 and L4 products
- Efforts that advance the three ECOSTRESS science objectives
- Evaluation and improvement of ECOSTRESS data products
- New research and innovative analyses using ECOSTRESS data products alone or in combination with data products from other sensors (e.g., NASA, other U.S. agencies, international) that advance the understanding of the climate system, the water cycle, the carbon cycle, ecosystems and their biodiversity, and/or extreme weather events
- Applications of ECOSTRESS products for agriculture, water management, disaster response and mitigation, managing ecosystems for conservation and more sustainable resource use, and the forecasting of weather and extreme events
- Enhanced validation strategies, techniques, and data products

Decadal Survey: SBG

- Calls for multispectral or hyperspectral TIR imagery
- Descope Options: “In the event costs exceed maximum cost level recommended here, relaxed instrument requirements and/or eliminating the TIR instrument are advised.” page 3-64
- Maximum recommended development cost = \$650M (in FY18 \$)
- Designated Observables study plans being drafted by NASA Centers now; due July 16
- 2018 HypsIRI Science and Applications Workshop
- Please register! (<https://hyspiri.jpl.nasa.gov/events/2018-hyspiri-science-and-applications-workshop>)

Thank You