

# NOAA Report on the Status of Current and Future Satellite Systems

Presented to CGMS-43, Plenary Agenda Item E.1

## Supporting NOAA's Mission

NOAA is a science-based services agency engaged with the entire Earth system science enterprise.

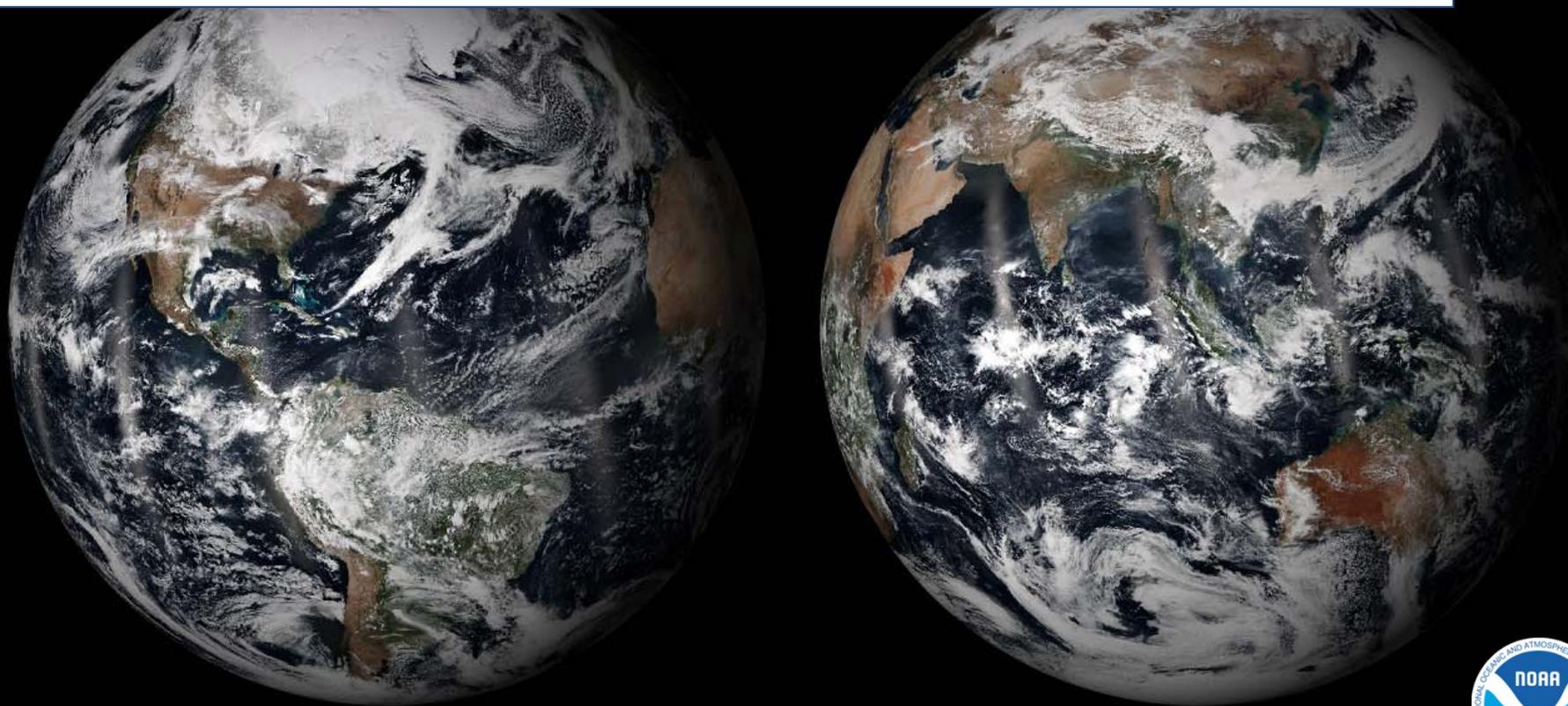
NOAA's Top Four Priorities:

- To provide information and services to make communities more resilient
- To evolve the National Weather Service
- To invest in observational infrastructure
- To achieve organizational excellence



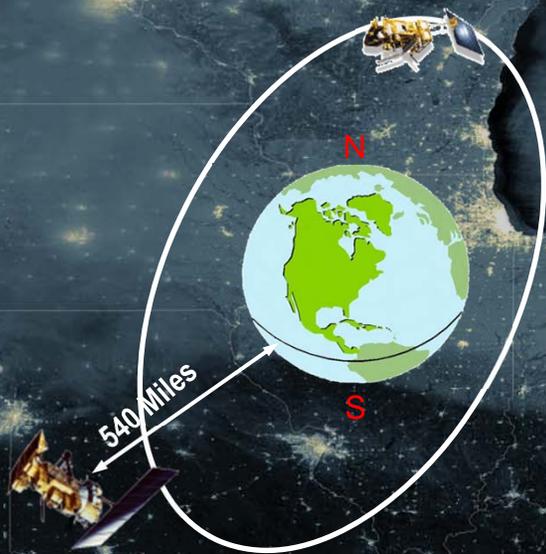
## NOAA-NESDIS Mission

Our mission is to deliver accurate, timely, and reliable satellite observations and integrated products and to provide long-term stewardship for global environmental data in support of the NOAA mission.

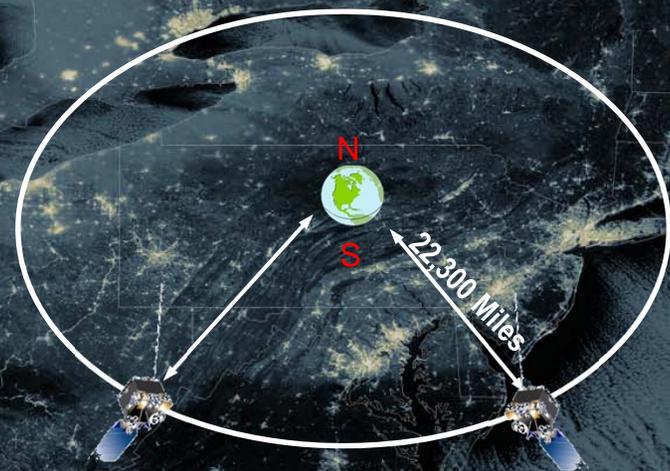


## Two Orbits, One Mission

Polar-orbiting Operational  
Environmental Satellites (POES)  
Followed by S-NPP and JPSS-1 thru -4



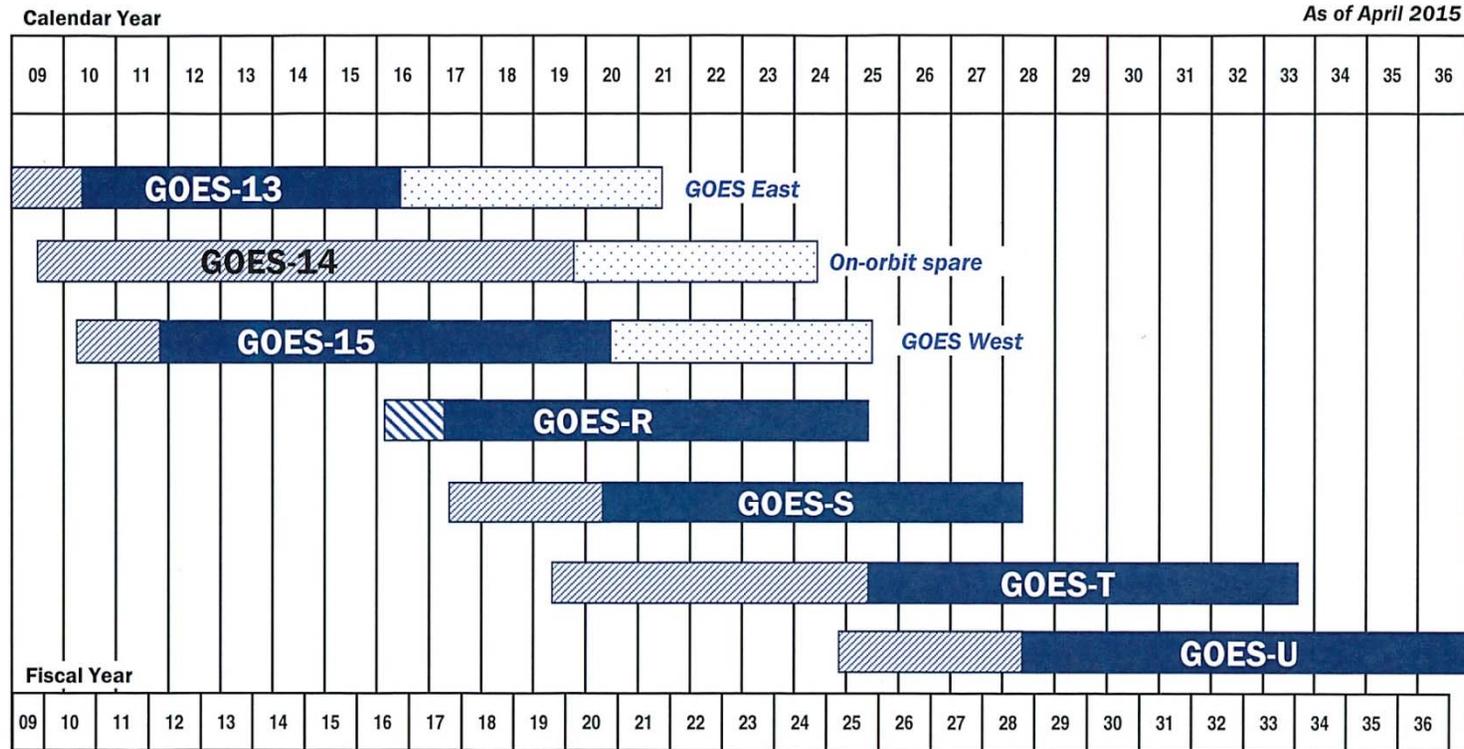
Geostationary Operational  
Environmental Satellites (GOES)-R,  
Through GOES-U



NOAA/NASA

S-NPP image of North America

# GOES Flyout Chart



Approved: *Stephen V. [Signature]* 4/21/2015  
 Assistant Administrator for Satellite and Information Services

**GOES: Geostationary Operational Environmental Satellite**

- On-orbit Storage
- Test & Checkout
- Operational
- Fuel-Limited Lifetime



## NOAA's Established LEO and GEO Platforms

From Low Earth Orbit

- JPSS + Polar Follow-On (JPSS 3 - 4) will establish NOAA's LEO coverage in the afternoon orbit well into the 2030s

From Geostationary Orbit

- GOES-R/S/T/U series, following on the GOES-N/O/P series, provides the US continental coverage well into the 2030s

Together, these platforms form the backbone of our observing network for the coming decades

## Refocusing our Organization

### Office of System Architecture & Advanced Planning

- Next generation satellite systems planning

### Office of Projects, Planning & Analysis

- Increased focus on project execution

### Office of Satellite Ground Services

- Development lead for future integrated ground system

### National Centers for Environmental Information

- Consolidated environmental services



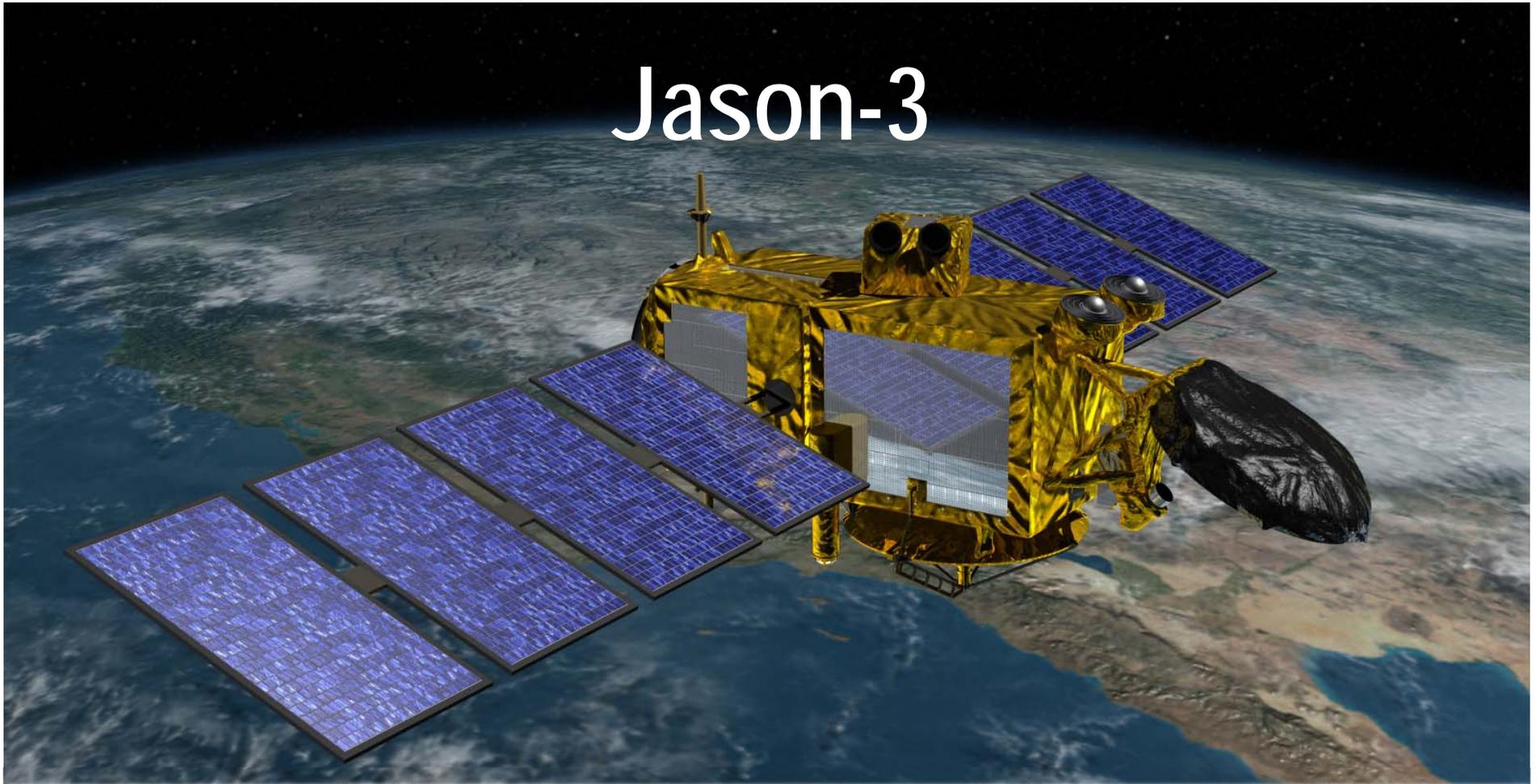


# DSCOVR

- Launched 11 February 2015
- Expected to arrive at L1 on 7 June 2015

Credit: SpaceX

# Jason-3



- Jason-3 (Ocean Surface Topography Mission) scheduled for launch on 22 July 2015



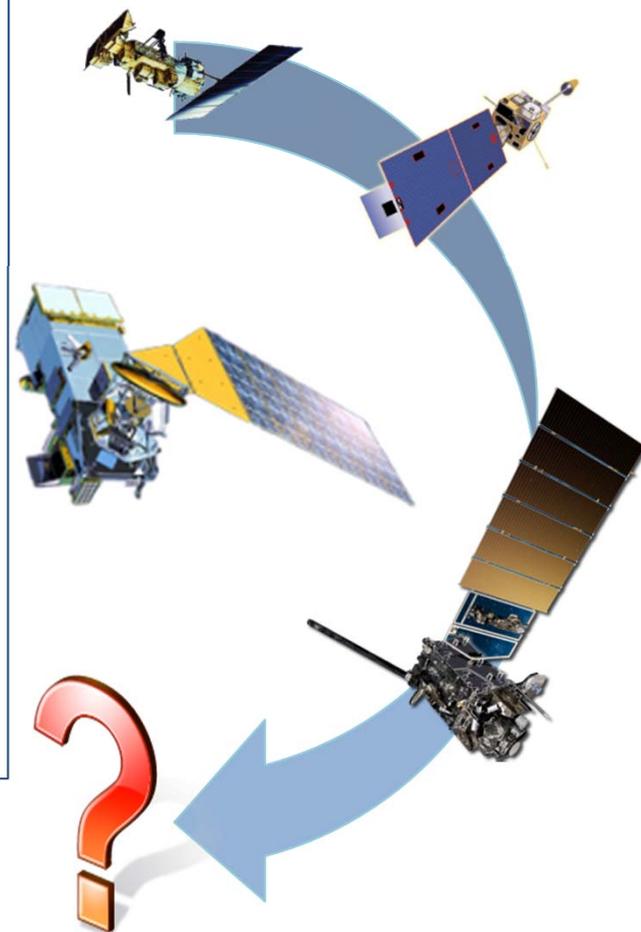
## What's Ahead

- U.S. task force planning for space weather follow-on mission
- Developing commercial satellite process
- Maintain planned satellite launch schedules
- Maintain 24x7 satellite operations, product development, processing and distribution
- Operate and maintain NOAA's long-term archival storage capacity and provide access to preserved climatological, oceanographic and geophysical data



## Transition to the Future

- Evolve a space-based observing enterprise
- Increased responsiveness to evolving technologies
- Increased flexibility



## Remembering Gary Davis



- Long-serving CGMS representative
- Oversaw development & launch of 32 satellites
- Negotiated numerous international agreements, including with EUMETSAT and JMA

**Coordination Group for  
Meteorological Satellites**

