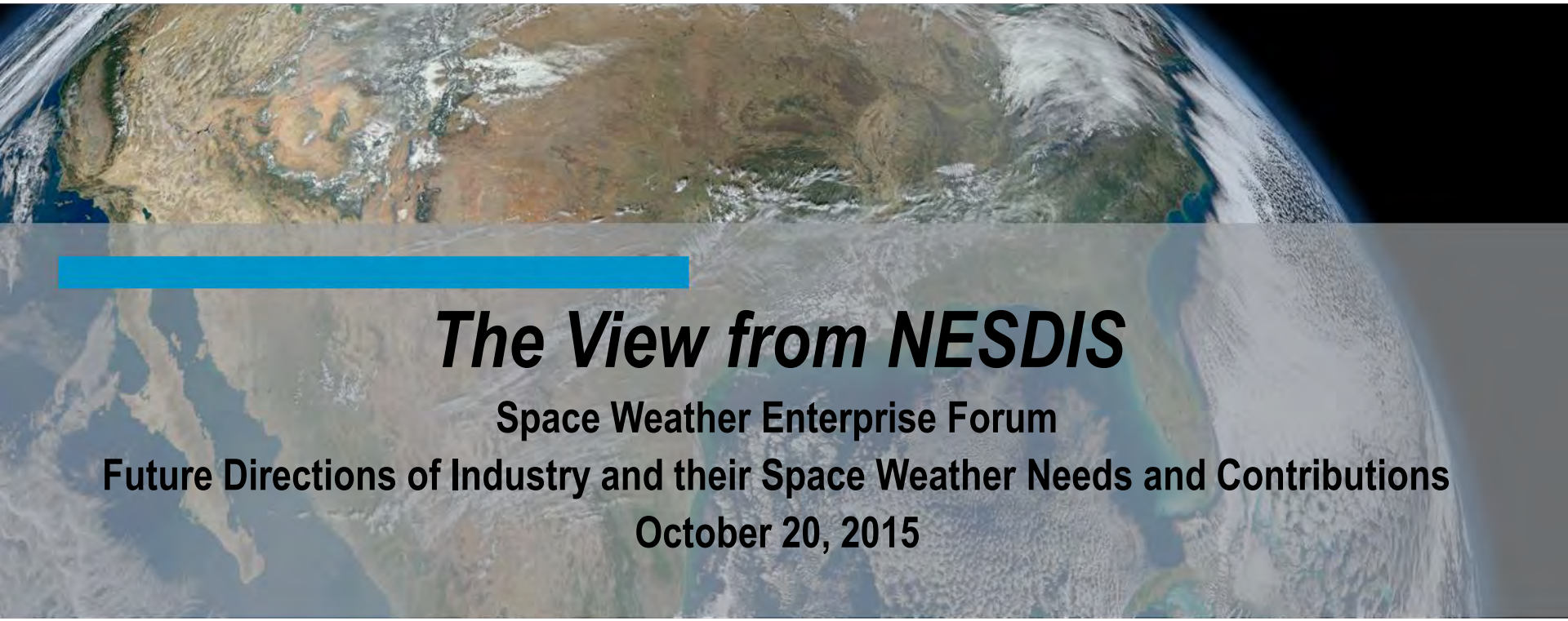


The View from NESDIS

Space Weather Enterprise Forum

Future Directions of Industry and their Space Weather Needs and Contributions

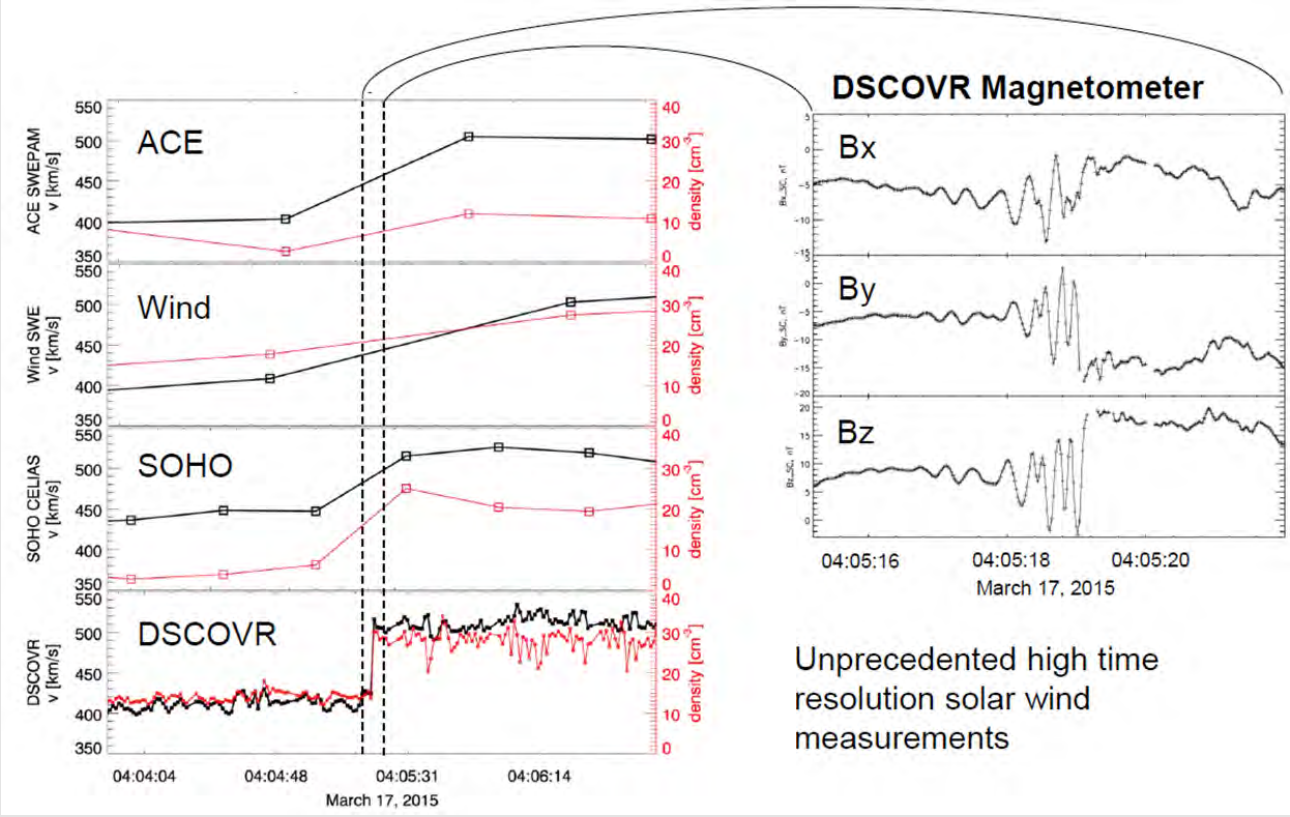
October 20, 2015

NOAA Satellite and Information Service

Dr. Stephen Volz, Assistant Administrator

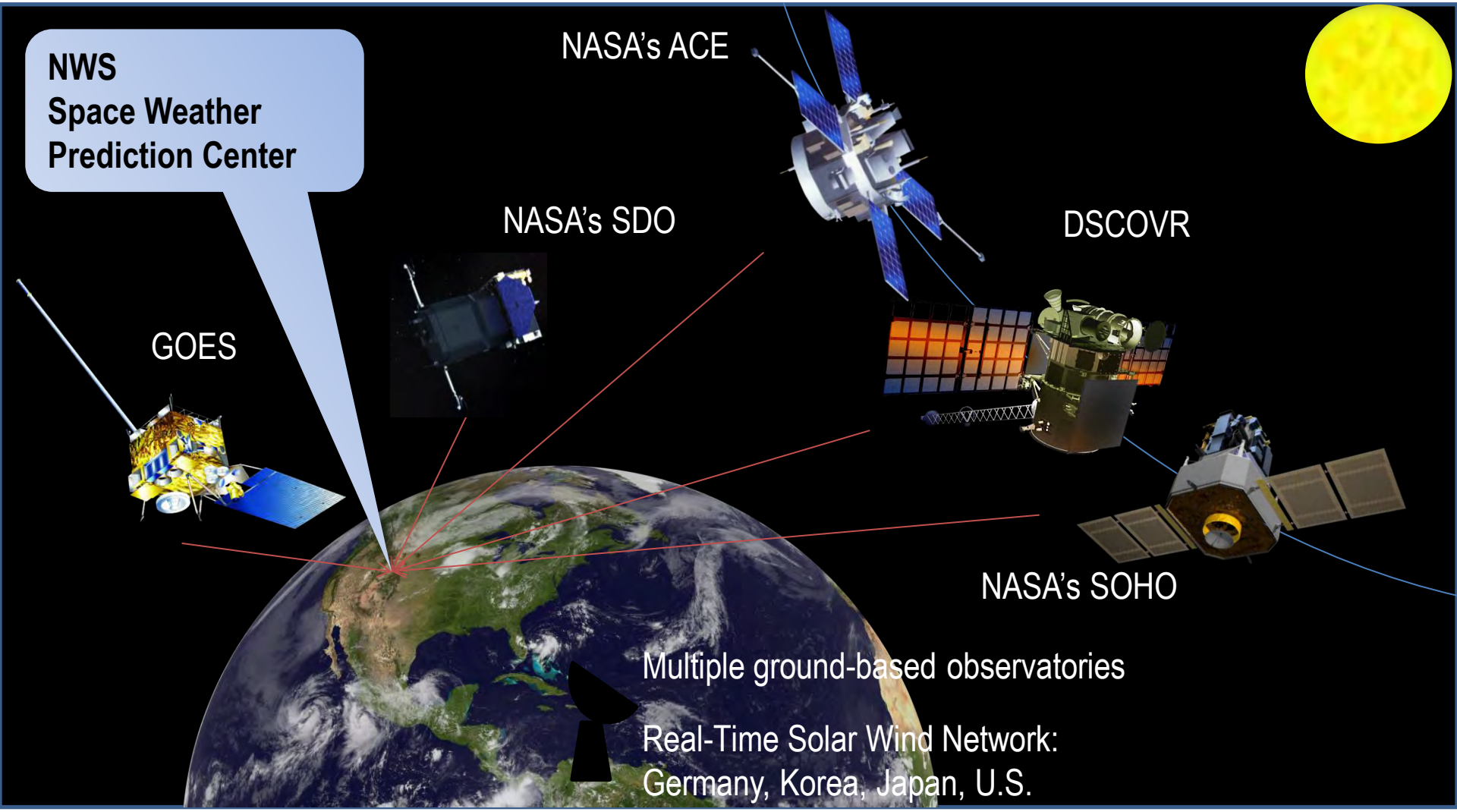
DSCOVR Update

- **Reached final L1 orbit in June; in checkout phase**
- **Operational handover from NASA to NOAA later this month**
- **Evaluating performance of Faraday Cup, successfully checked out Magnetometer**



The Nation's Operational Space Weather System

Research AND Operations



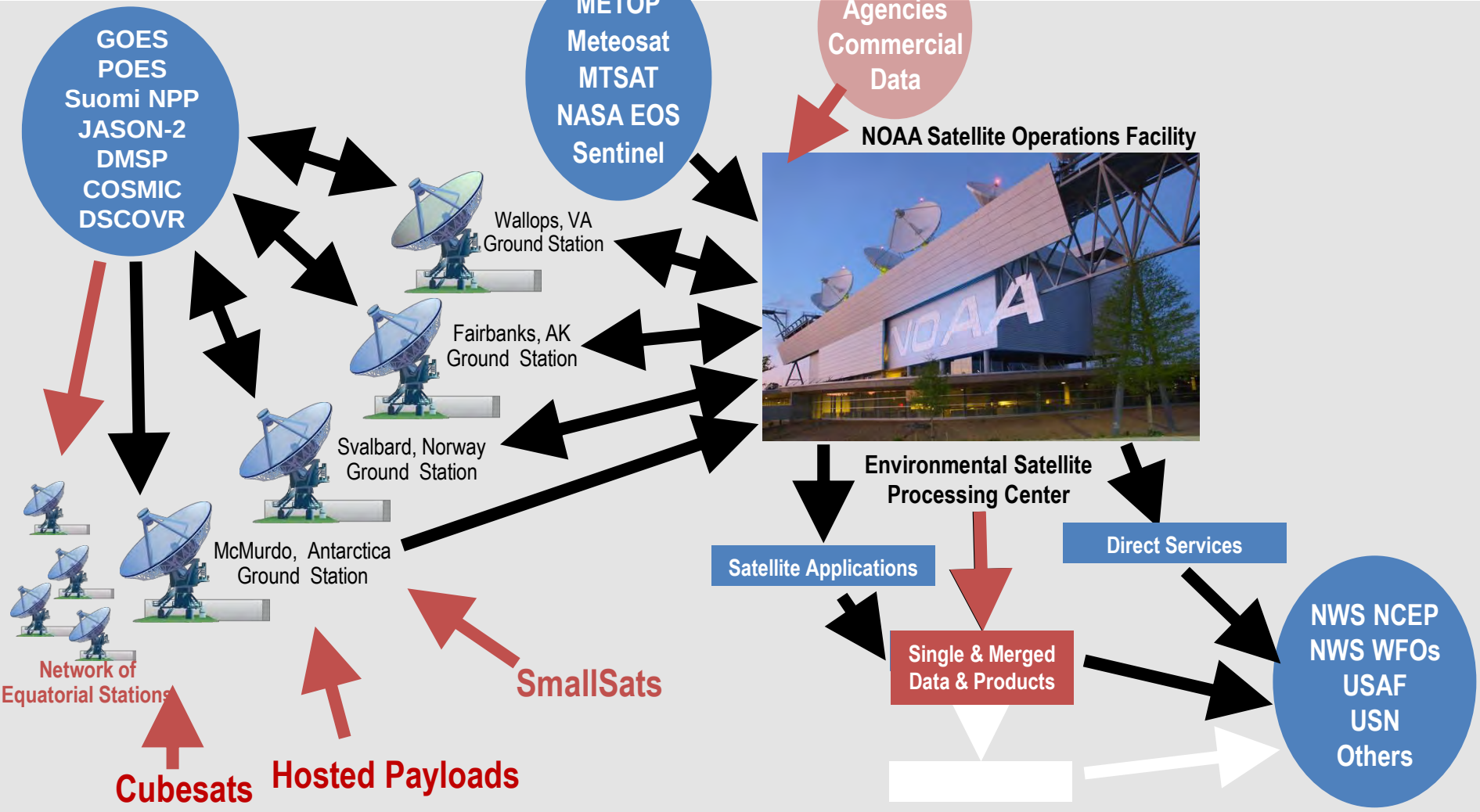
Developing the Future NESDIS Architecture

"Develop a space-based observing enterprise that is flexible, responsive to evolving technologies, and economically sustainable"

-FY15 NOAA Annual Guidance

- Opportunity to start with a clean slate: Enterprise Ground, New Technologies, Improved efficiencies in acquisition and operations
- Architecture work underway; ongoing through FY16
- Architecture Studies include Space Weather; activities underway
  - Space Weather Follow-on studies included in NESDIS FY16 President's Budget
  - SWORM Space Weather Action Plan will contribute to future planning

How Could Future Data Flow Change?



NOAA's Commercial Space Activity: Engagement Through RFIs

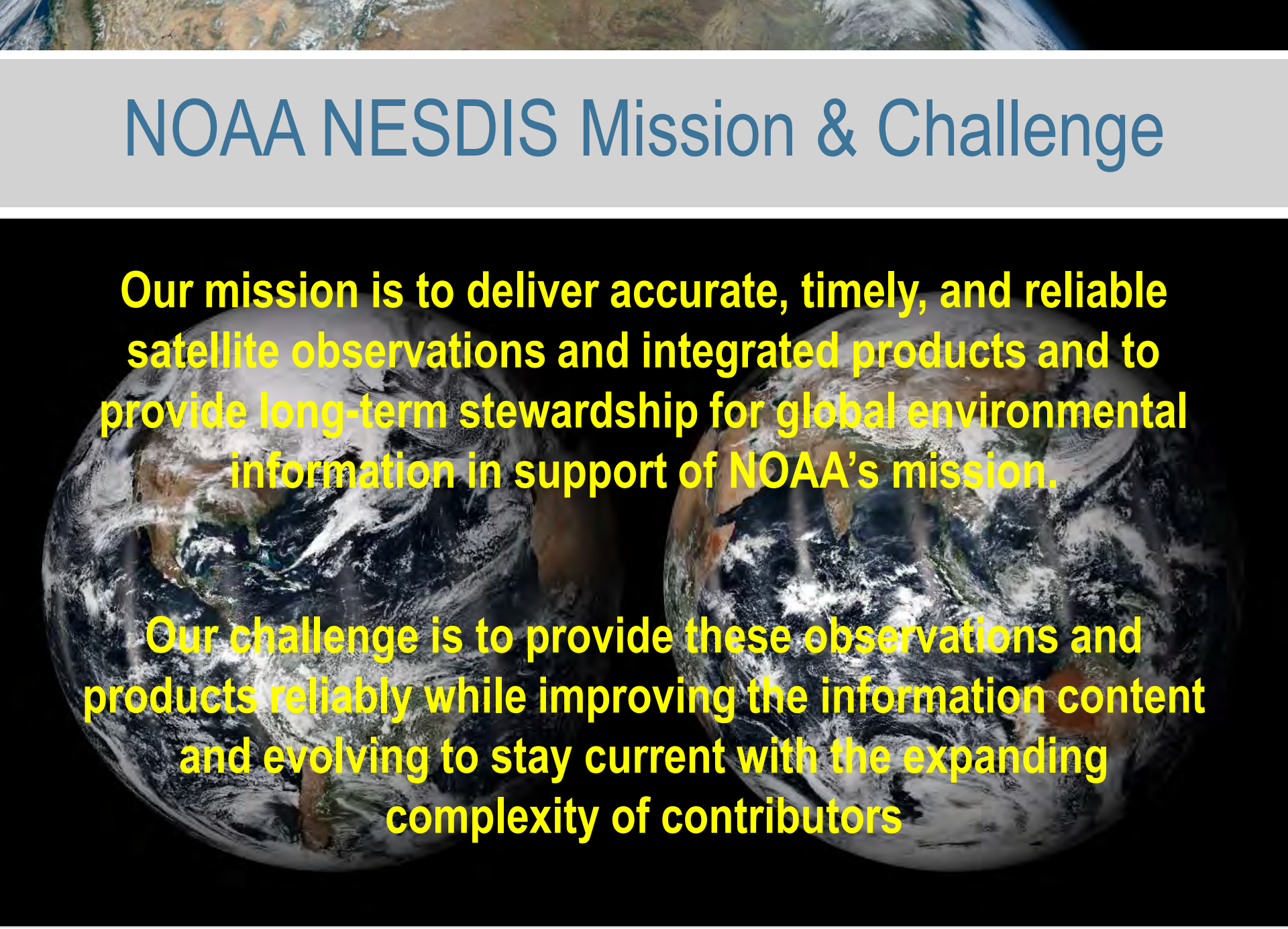
- RFI on GNSS-RO commercial capabilities released in September 2014
- RFI for A-DCS/SARSAT hosting opportunity released in August 2014
- RFI on solar wind data released in January 2014
  - Requested:
    - prices for the purchase of solar wind data
    - prices for a hosted payload to provide access to space for instruments
  - The responses indicated that although there is no current service, there continues to be interest in the private sector for providing such data

NOAA's Commercial Space Activity: NOAA Policy and NESDIS Process

- NOAA Commercial Space Policy
  - Draft recently released for public comment
  - Comment period closed October 1; NOAA is reviewing comments received

- NESDIS Commercial Space Activities Assessment Process
  - Defines NESDIS process for engaging with the commercial sector to leverage commercial solutions to meet NOAA's space-based observation requirements
  - Will be released for public comment
  - NESDIS held a public workshop on April 28, 2015 to engage with the commercial sector and interested stakeholders
  - NESDIS plans to hold a second public workshop to discuss the NESDIS Commercial Process during the public comment period

NOAA NESDIS Mission & Challenge



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

Our challenge is to provide these observations and products reliably while improving the information content and evolving to stay current with the expanding complexity of contributors