

An Update from the NESDIS Center for Satellite Applications and Research (STAR)

Mike Kalb

Acting Director/Deputy Director, NOAA/NESDIS/STAR

5th CICS-MD Science Meeting

11/29 - 12/1/2016

Satya Kalluri

**Division Chief, STAR/Cooperative Research Programs
(CoRP)**



NESDIS Strategic Plan

5th CICS-MD
Science Meeting

11/29 -
12/1/2016

- Continuity
- Data and Information
- Architecture
- Use-Inspired Science
- Partnerships
- People





NESDIS Strategic Plan -

5th CICS-MD
Science Meeting

11/29 -
12/1/2016



Where CICS can help the most!

- **Data and Information**
 - Provide a comprehensive and trusted set of products to serve user's needs
 - Strengthen support of NOAA's data stewardship needs
- **Use-Inspired Science**
 - Develop, support or adapt algorithms to provide state-of-the-art science products
 - Use data science to enhance mission value of environmental data
 - Provide integrated reference data sets that describe the state of the environment
 - Provide oversight to ensure data are accurate and meets quality requirements

Satellite Updates

- GOES

- GOES-R (-16) launched On 11/19/16 at 642 pm
- ABI, GLM, space weather
- Everything is going great (next plans/next slide)

- JPSS

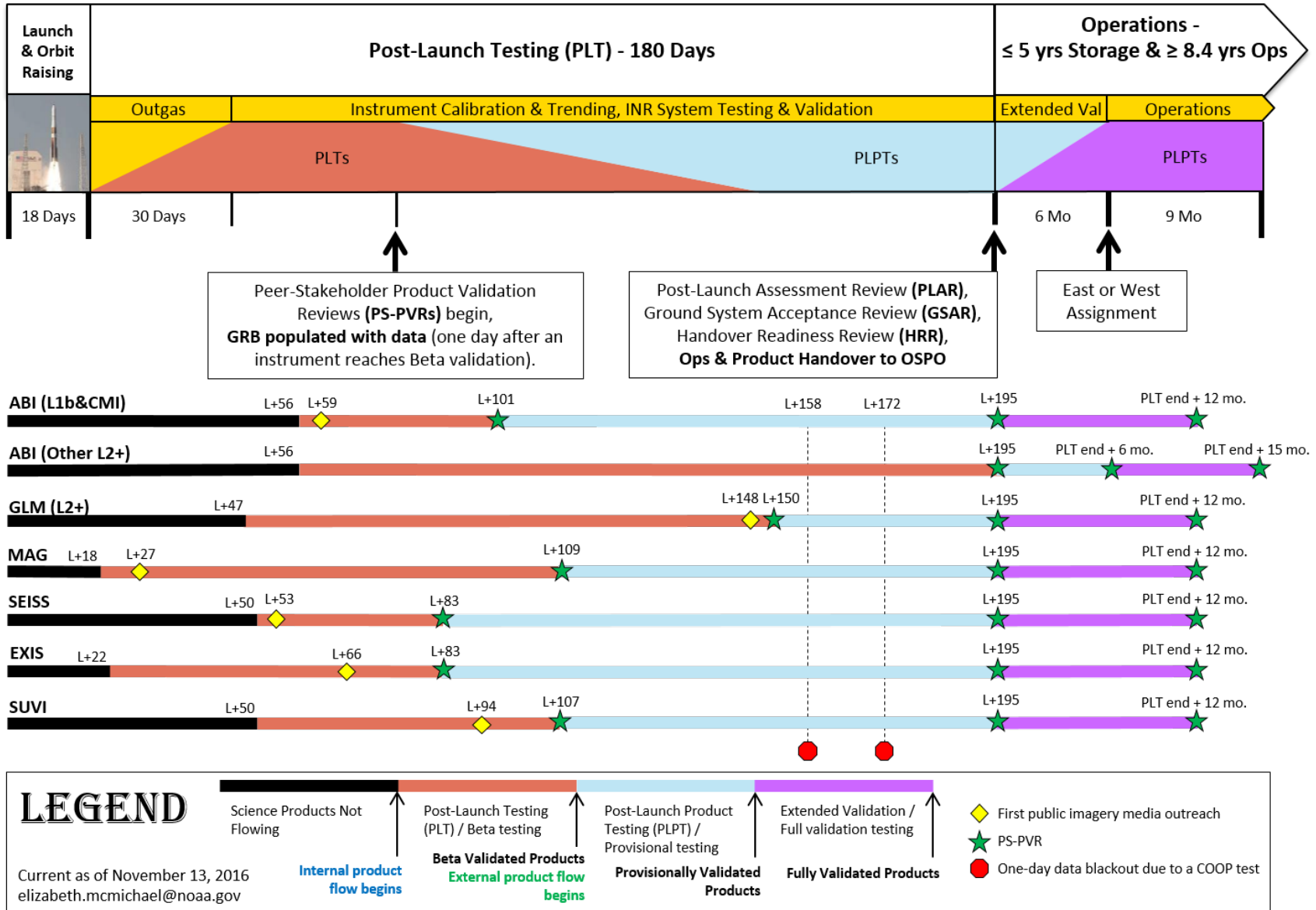
- JPSS-1 scheduled for 4Q FY17
- Some instrument and ground systems issues prompted delay
 - Science/algorithms 🌟👍

- Partnerships

- Jason-3, DISCOVER, GCOM-W, GPM
- COSMIC-2A



GOES-R Post-Launch Science Product Validation Schedule



Note: All dates are coordinated with Flight/MOST PLT SOE group and are subject to change.

STAR and Use-Inspired Science: Maximizing User Value

- We are bringing GOES-R observation upgrades into operational use with new products and algorithms.
- At the same time, we need to improve our ability to effectively bring use inspired science to operations and to take advantage of the growing capacity of observations from outside sources.
- This will require a more nimble science organization accessing data from partners and potentially commercial suppliers, maximizing user value through expanded application, and use sound business practices to be cost effective, agile, and responsive to emerging opportunities.

NESDIS IRT Review

- **NESDIS Independent Review is being led by Tom Young.**
 - Panel of experts to give a tailored, independent assessment of all NESDIS programs and governance
 - One year in duration, starting in Fall 2016
- **Previous IRT report from July 20, 2012 had 23 recommendations**
http://www.spacepolicyonline.com/pages/images/stories/NESDIS_IRT_Final_Report.pdf
- **Goal of the IRT is to review the overall health and direction of the enterprise**
 - Includes review of all line offices, missions, and the new NESDIS Strategic plan

Update from CoRP/CI's

- **NESDIS internal audit of CI grants application and awards process underway**
 - Purpose is to determine if the grants award process is following DOC guidelines and processes
 - Auditor requested a few CI grant applications and access to the grants on line portal
 - Expected to be completed by end of December 2016
- **OSGS is proposing to start a new CI for Systems Engineering**
 - No firm schedule yet

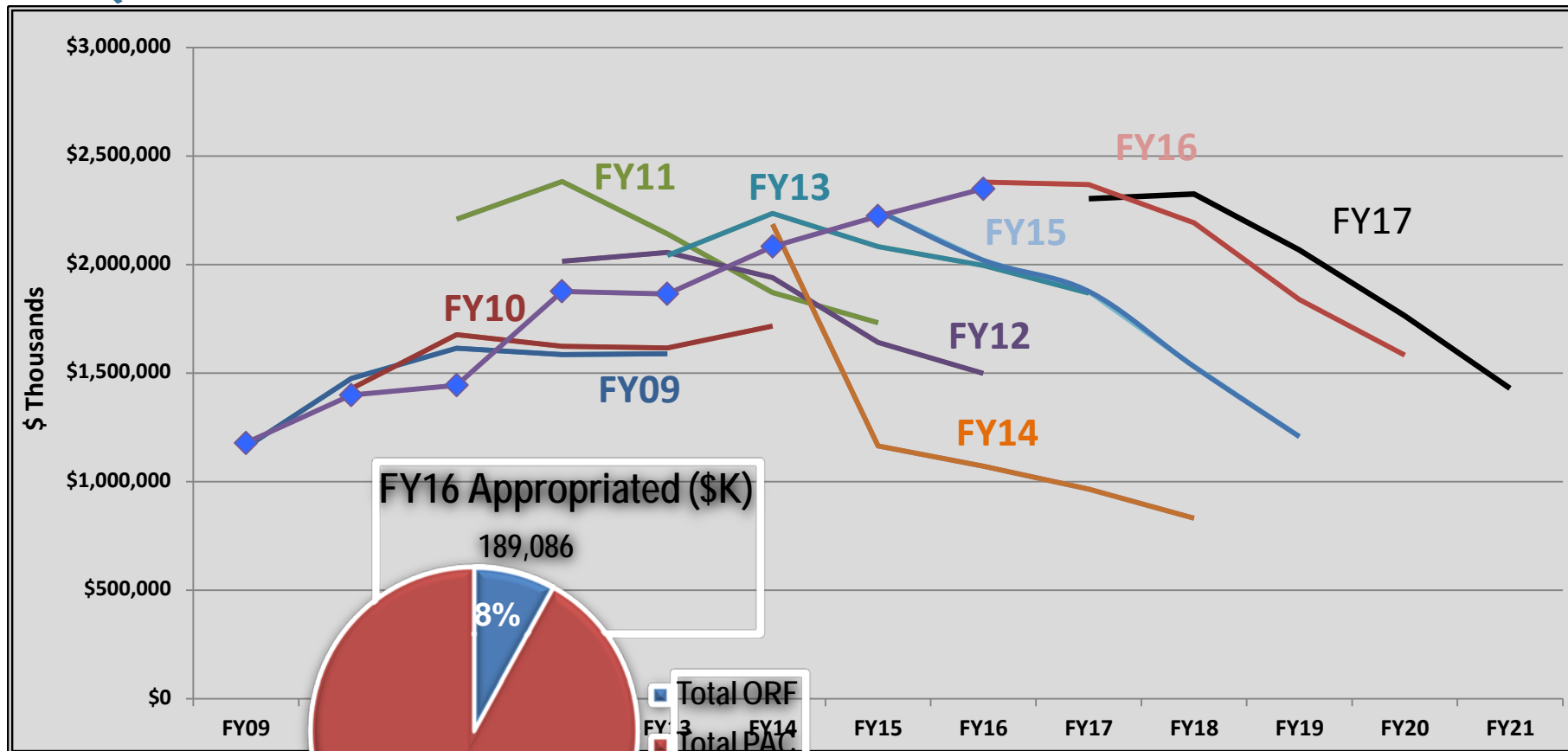
NESDIS Administrative Changes

- **Harry A. Cikanek**, currently the Director, Joint Polar Satellite Systems, will be detailed as the Director, Center for Satellite Applications and Research (STAR)
- **Gregory A. Mandt**, currently the Systems Program Director for GOES-R Program, will be detailed as the Director, Joint Polar Satellite Systems
- **Michael Kalb** will resume and continue his role as Deputy Director for STAR; and
- **Michael Stringer**, currently the Assistant System Program Director for the GOES-R Program, will be detailed as the Systems Program Director for the GOES-R Program.
- **Tom Karl** retired as NCEI Director, Margarita Greg is acting; search underway for a NCEI Director

Pending Department of Commerce approval, these details will be effective January 2017

NESDIS Requested and Enacted Budgets

(In continuing resolution at the time of this briefing - November 2016)



◆ Enacted Budget

FY 2017 NESDIS Overview

- FY 2017 Budget Request provides **\$2.303.6 million total for NESDIS:** a \$45.7 million decrease (1.9%) from the FY 2016 Enacted
 - +\$0.5 million for Technical Adjustments
 - +\$3.0 million for Calculated Inflationary Adjustments
 - -\$49.2 million for Program Changes
- This request supports the priorities of the Administration, Department of Commerce and NOAA. In meeting these priorities, in FY 2017 NESDIS will:
 - Launch GOES-R, and continue building S, T, and U to ensure continuous Geostationary coverage of the western hemisphere
 - Launch JPSS-1, continue to build JPSS-2, and plan for PFO to ensure availability of data for weather prediction models
 - Launch COSMIC-2A constellation of six satellites, together with the USAF and Taiwan, providing critical tropical Radio Occultation measurements
 - Assess viability of Commercial Data through pilot purchases
 - Maintain 24x7 satellite operations, product development, processing and distribution, and maintain the critical national environmental data archive



Summary

- **STAR and the NESDIS CIs will continue to be a vital part of NESDIS science and acquisition programs**
- **Goal is to be an agile and nimble science enterprise that meets and exceeds stake holder expectation in satellite derived products and information**