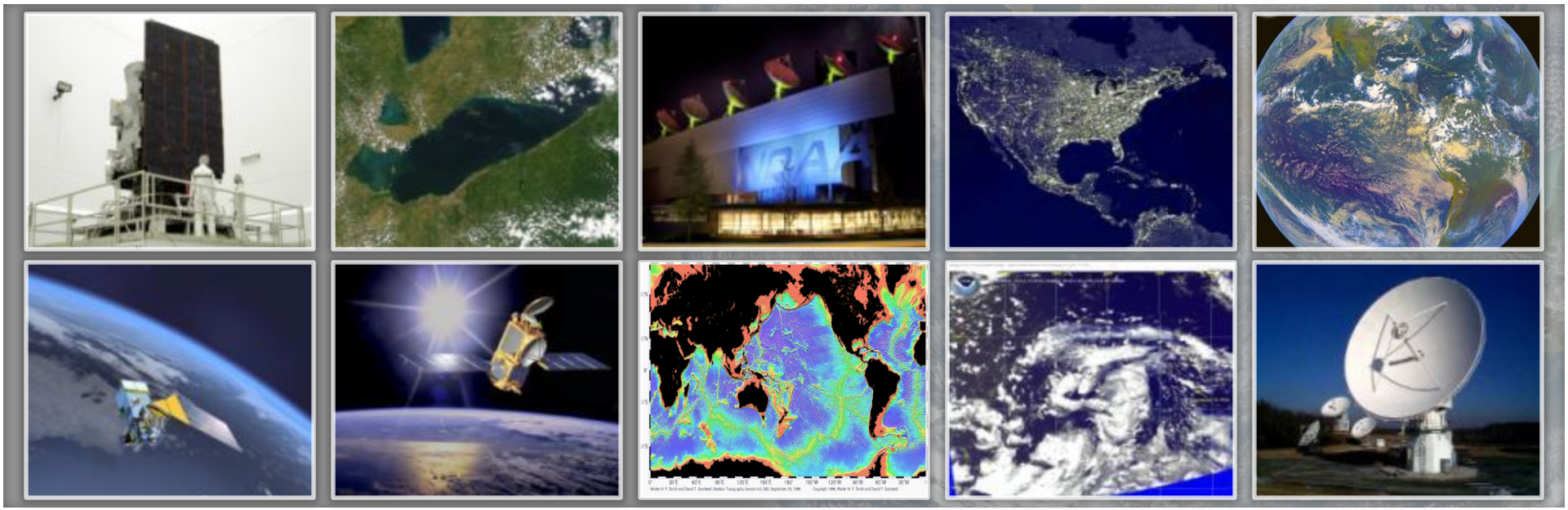
NOAA Satellite Programs Overview



Dr. Kathryn Sullivan, NOAA Administrator

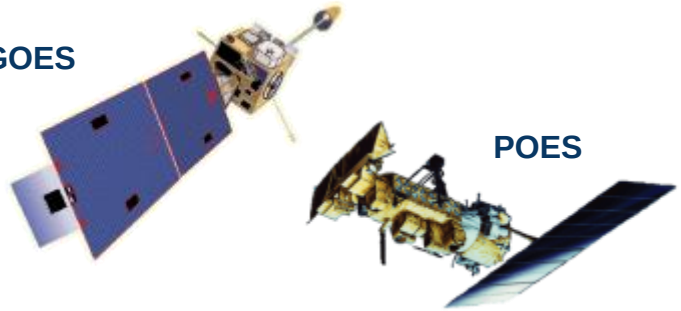
Presentation to Space Studies Board

April 4, 2014

NESDIS Principal Activities

Providing On-Orbit Satellite Operations

- 24/7 Satellite operations & product processing
  - Geostationary satellites (GOES)
  - Suomi National Polar-orbiting Partnership (S-NPP)
  - Polar-orbiting satellites (POES)
  - Defense Meteorological Satellite Program (DMSP)
    - DMSP is operated by NOAA on cost reimbursable basis for the Air Force
  - Jason-2 altimetry satellite (started in Fall 2008)



Using data from International Partnerships

- MetOp
- COSMIC

Acquiring Next Generation Satellites

- GOES-R Satellite Series
- Joint Polar Satellite System (JPSS)
- Jason-3 altimetry satellite
- DSCOVR (Solar Wind Continuity)

Year in Review

- FY14 Omnibus fully supports GOES-R and JPSS programs
- JPSS is well-managed, on time and on budget
  - FY14 enacted $820.9M
  - FY14 funds supports purchase of long-lead parts for ATMS, CrIS
  - FY15 request $916.3M
- GOES-R on track and committed to launch in early 2016
  - FY14 enacted $914.9M
  - FY15 request $980.8M
- DSCOVR on track for January 2015 launch
  - FY14 enacted $23.7M
  - FY14 funds supported DSCOVR for refurbishment
  - FY15 request $21.1M

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Year in Review

- COSMIC-2
  - First six satellites scheduled to launch in 2016, second launch in FY 2018
  - FY15 request $6.8M
  - Ground system will have capability to ingest foreign and commercial RO data
- Jason-3
  - FY14 enacted only provided $18.5M for Jason-3 program
  - Launch vehicle payments and European partnership threatened
  - Administration requested reprogramming of $17M
  - FY15 request $25.7M
- Solar Irradiance, Data and Rescue (SIDAR) replacing former Polar Free Flyer
  - FY15 request $15M
  - Accommodations for TSIS, SARSAT and ADCS

Polar Program Robustness

FY	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Polar Fly Out																										
S-NPP				F	E	E	E	D	E	E	E															
JPSS-1					L	F	F	F	F	F	F	U	U	U	D											
JPSS-2										L	F	F	F	F	F	F	U	U	U	U	D					
Aqua (6+14)				S	S	S	S	S	S	S	S															
NOAA-18				S																						
NOAA-19				S	S																					
DMSP-19				S	S	S	S	S																		

	Within Design Life
E	Extended Life
F	Full Capability
L	Launch Date
S	Less than Full Capability
D	Expected De-orbit Date
U	Orbital Drift

Polar Program Robustness

- Overall less robust system of systems in the mid 2020's
- Taking IRT recommendations seriously
- Moving out to procure additional long lead parts for mission critical instruments
- Established an Integrated Product Team (IPT) to examine gap filler and/or gap mitigation and Polar Follow-On options


NOAA