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Information Service

2017

National Environmental Satellite, Data, and Information Service (NESDIS)

Ajay Mehta, Deputy Director Joint Polar Satellite System





	Defense Space Sector		
NASA	CONTRACT OF CONVERT	Science for a changing world	THE NT OF DEALERS
Focus on Earth system research	Focus on weather and space weather observations and applications	Focus on land remote observations and land use applications	Focus on intelligence gathering and weather and environmental applications to support military operations
Usually no more than one satellite per new research area. No backup satellites and less demanding reliability requirements	Operational, continuous missions. 2-4 satellites per block purchase, spares on ground or in space	Operational, continuous missions – utilizing capabilities provided by NASA (Landsat series)	Operational, continuous missions – block purchase of satellites, spares on ground or in space
Large, changing array of research observations dictated by national research priorities	· · · · · · · · · · · · · · · · · · ·	Core set of observational requirements, increasing in response to operational needs	
Partners with both NOAA and USGS to leverage satellite building expertise	History of relying on NASA for	Independent space and ground segment development capability	
	research Usually no more than one satellite per new research area. No backup satellites and less demanding reliability requirements Large, changing array of research observations dictated by national research priorities Partners with both NOAA and USGS to leverage satellite building	Focus on Earth system Focus on Weather and space research Focus on weather and space Usually no more than one satellite Focus on yeather observations and applications Usually no more than one satellite Operational, continuous missions. vastellites and less demanding Operational, continuous missions. Large, changing array of research Operational, continuous missions. Large, changing array of research Core set of observational requirement Partners with both NOAA and USGS History of relying on NASA for	Focus on Earth system research reliability requirementsFocus on weather and space weather observations and applicationsFocus on land remote observations and land use applicationsUsually no more than one satellite per new research area. No backup satellites and less demanding reliability requirementsOperational, continuous missions. 24 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 24 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 24 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 04 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 04 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 04 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 04 satellites per block purchase, spares on ground or in spaceOperational, continuous missions. 04 satellites provided by NASA (Landsat series)Large, changing array of research observations dictated by national research prioritiesCore set of observational requirements, with requirements increasing in response to operational needsPartners with both NOAA and USGS to leverage satellite buildingHistory of relying on NASA for space segment development

NOAA Satellite & Information Service: National Environmental Satellite, Data, & Information Service (NESDIS



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NESDIS Mission and Vision



OUR MISSION

NESDIS' mission is provide secure and timely access to global environmental data and information from satellites and other sources to both promote and protect the Nation's environment, security, economy quality of life.

OUR VISION

Our vision is to expand understanding of our dynamic planet as the **<u>Trusted</u>** source of <u>Environmental</u> data.



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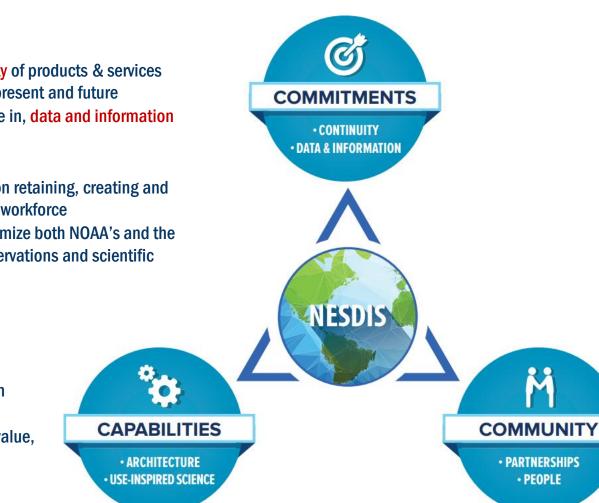
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Enduring focus on continuity of products & services delivered by NOAA – past, present and future

NESDIS Strategic Plan

Solution Dedication to, and expertise in, data and information

Community

- People: NESDIS will focus on retaining, creating and developing an agile, expert workforce
- Through partnerships, maximize both NOAA's and the Nation's value through observations and scientific capabilities

Capabilities

- Importance of considering, analyzing and planning an integrated observing system architecture
- Delivering ever-increasing value, including new and better information products and services, through science



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NESDIS Organization



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		Cherish Johnson Chief Financial Officer/ Chief Administrative Officer		Kelly TurnerIrene ParkerChief of StaffChief Information 0			Karen St Germain Office of System Architecture & Advanced Planning		
HEADQUARTERS			Charles Wo Internati Interagency <i>P</i>	ional &				. Paese (Acting) Space Commerce	
SATELLITE OPERATIONS & ACQUISITIONS	Steven Pete Office of Sate Ground Serv	ellite Office	essa Griffin of Satellite and ict Operations	Center fo	alb (Acting) or Satellite and Research	Gregory Mandi GOES-R Series Program Office	Joi	Harry Cikanek int Polar Satellite System (JPSS) Program Office	Suzanne Hilding Office of Projects, Planning & Analysis
					National	i regg (Acting) Centers for al Information			

Revised: 08/18/2016



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NESDIS Principal Activities



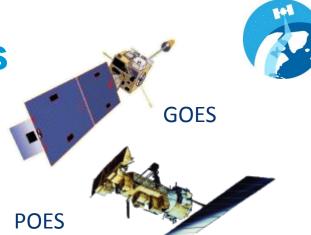
- **Providing on-orbit satellite operations**
- Acquiring next-generation satellites
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- Provide data processing and operational product distribution



Use-inspired product development

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Providing long-term data stewardship and short, mid, and long term environmental assessments





JPSS



GOES-R

ATMS Total Precipitable Water Product





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NESDIS Locations



Cooperative Institutes

<u>CIRA</u>: Cooperative Institute for Research in the Atmosphere <u>**CIMSS**</u>: Cooperative Institute for Meteorological Satellite Studies <u>**CREST**</u>: Cooperative Remote Sensing Science and Technology Center <u>**CICS**</u>: Cooperative Institute for Climate and Satellites





Current NOAA Constellation







NESDIS Recent and Upcoming Launches





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Global Constellation of Earth Observing Satellites







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