

UNITED STATES DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION



Office of Oceanic and Atmospheric Research (OAR)

Andrew McKenna (OAR/CFO), Claudia Womble (OAR/WPO), Shannon Simmons (OAR/WPO), and Steve Mayle (OAR/GFDL)



OAR Overview



- Oceanic and Atmospheric Research (OAR)—or "NOAA Research"—provides the research foundation for understanding the complex systems that support our planet. Working in partnership with other organizational units of the National Oceanic and Atmospheric Administration, a bureau of the Department of Commerce, NOAA Research enables better forecasts, earlier warnings for natural disasters, and a greater understanding of the Earth. Our role is to provide unbiased science to better manage the environment, nationally, and globally.
- NOAA OAR Website
 - Labs & Program Offices
 - "About Us" Organizational Chart
 - Contact Information



FY2024 Procurement Forecasts



- Maintaining, repairing, and renovating facilities CONUS and OCONUS.
 OAR locations may include:
 - Atlantic Oceanographic & Meteorological Laboratory (AOML Miami, FL)
 - □ Air Resources Laboratory (ARL)
 - Atmospheric Turbulence & Diffusion Division (ATDD)
 - **□** Global Monitoring Lab Baseline Observatories
 - Mauna Loa, Hawaii
 - **❖** American Samoa
 - **☐ Great Lakes Environmental Research Laboratory (GLERL)**
 - **Lake Michigan Field Site (LMFS, Muskegon, MI)**
 - **□** Geophysical Fluid Dynamics Laboratory (GFDL, Princeton, NJ)

Subcontracting Opportunities

Opportunities

Possible subcontracting opportunities with OAR's Weather Program Office (WPO):

WPO Subcontracting Opportunities				
<u>Requirement</u>	<u>Prime</u>	Prime Address	POC	
Earth System Modeling Framework (ESMF): 1305M222DNWWK005/1305M223FNRMT0019	University Corporation for Atmospheric Research (UCAR)	3090 Center Green Drive Boulder, CO 80301	Dan Rosen, daniel.rosen@ noaa.gov	
Earth Prediction Innovation Center (EPIC): 1305M321DNRMN0002	Raytheon Company	22260 Pacific Boulevard Dulles, VA 20166	Peter Pfolchan, peter.g.plofchan @rtx.com	
EPIC Project Coordinator: 47QRAD20D8141/1305M321FNRMT0152	Cherokee Nation Strategic Program, L.L.C.	10838 E Marshall Street Suite 200E Tulsa, OK 74116	John Coffey, john.j.coffey@ noaa.gov	



NOAA Small Business Industry Day National Marine Fisheries Service

Julie Whitaker | June 22, 2023
Branch Chief
Office of Management and Budget
MB Acquisitions

Mission

NOAA Fisheries is responsible for the stewardship of the nation's ocean resources and habitat. We provide vital services for the nation, all backed by sound science and an ecosystem-based approach to management:

- Productive and sustainable fisheries
- Safe sources of seafood
- Recovery and conservation of protected resources
- Healthy ecosystems

Conservation and Sustainable Seafood



Who We Are

14 Headquarters Offices

5 Regional Offices

6 Science Centers





Deputy Assistant Administrator for Regulatory Programs Samuel Rauch III



Assistant Administrator for Fisheries
Janet Coit



Director of Scientific
Programs and Chief Science
Advisor
Cisco Werner, Ph.D.



Deputy Assistant
Administrator for
Operations
Jim Landon (A)



Where We Work

Alaska Region

Regional Office: Juneau, AK

Science Center Headquarters: Seattle, WA (Sand

Point)

Science Center Laboratories:

Auke Bay, AK Kodiak, AK Lena Point, AK

West Coast Region

Regional Office: Arcata, CA Long Beach, CA Sacramento, CA

Portland, OR

Seattle, WA

Science Center Headquarters:

La Jolla, CA - Southwest Santa Cruz, CA Seattle, WA - Northwest Newport, OR

Science Center Laboratories:

Monterey, CA Pt. Hammond, OR Manchester, WA Mukilteo, WA Pasco, WA

Greater Atlantic Region

Regional Office:

Glouchester, MA

Science Center Headquarters:

Woods Hole, MA

Science Center Laboratories:

Milford, CT Washington, DC Orono, ME Sandy Hook, NJ Narragansett, RI

Pacific Islands Region

Hawaii, Guam, American Samoa, and the Commonwealth of the Northern

Science Center: Honolulu, HI

Regional Office: Honolulu, HI

Program and Regulatory Offices

Office of Aquaculture

Office of Law Enforcement

Office of International Affairs & Seafood Inspection

Office of Science & Technology

Office of Sustainable Fisheries

Office of Protected Resources

Office of Habitat Conservation

Southeast Region

Regional Office:

St. Petersburg, FL

Science Center

Headquarters:

Miami, FL

Science Center Laboratories:

Panama City, FL

Pascagoula, MS

Beaufort, NC (shared with NOS)

Galveston, TX



Helping America Prepare and Respond to Climate Change Under the

Inflation Reduction Act

Climate-Ready Fisheries (\$349 million)

- Expand and Modernize Stock Assessments
- Data Acquisition and Management (\$145 million)
- Climate, Ecosystems, and Fisheries Initiative (\$40 million)

Region-Specific Fisheries and Protected Resources

- Regional Fisheries Management Councils (\$20 million)
- North Atlantic Right Whale (\$82 million)
- Red Snapper (\$20 million)
- Pacific Salmon (\$42 million)

Tribal Fish Hatcheries (\$300 Million)

- Mitchell Act Hatcheries (\$60 million)
- Non-Mitchell Act Hatcheries (\$240 million)

Habitat Restoration and Fish Passage (\$484 million)

Arctic Research (\$2.9 million)

Efficient Permitting (\$15.5 million)

Facilities (\$95 million)



NOAA Fisheries Acquisitions

<u>Year</u>	# of Awards Appropriated	Obligations	
2018	1,174	\$181,721,851	\$970,334,000
2019	1,039	\$188,465,910	\$989,181,000
2020	1,110 \$1,013,006,000	\$215,502,133	
2021	835	\$295,937,575	

Strategic Sourcing Vehicles such as ProTech helps reduce Procurement Acquisition Lead Time (PALT)



2024 Acquisition Forecast

of Actions Est \$ Range NAICS

> 13 1.1M to 2.0M 236220

> > 532411 541690

16 2.1M to 5.0M 541690

> 541519 541618

10.1M to 20M 236220

2024 Forecast as of June 7, 2023

- 94 Total Actions
- 81 New Requirements
- 13 Recompetes

Geographic Places of Performance

Region **Regional Priorities** Alaska Region

West Coast

Pacific Island

Southeast Region

Greater Atlantic

Sustainable Fisheries Mgt

Habitat Restoration Fish Passage

Coral Reef

Deepwater Horizon Recovery

Wind Energy

Department of Commerce Website Search Downloaded Here: Forecast Updated Weekly



2024 Protech & Non-Protech Acquisition Forecast

Fisheries Protech Forecast (8 opportunities currently available)

- NMFS OAA EEJ Translation Services
- OST Statistics, Technical and Consulting Support
- OST Economics and Human Dimension Research
- OST Assessment, Monitoring and Collaboration Support
- PIRO OLE VMS Support
- OHC Dolphin Restoration in Louisiana
- Office of Aquaculture NEPA Support Recompete
- AKR ESA S7 Support

Non-ProTech Forecast Information (84 opportunities currently available)

- Vessel Charter Services
- Procure Scientific Equipment
- Facilities/Construction
- IT Software/Hardware
- Scientific/Technical/Environmental Consulting
- Unmanned Underwater Vehicle (UAV)
 Technology



Non-Protech Acquisition in FY 2024

Description: Mesophotic Deep Benthic Coral Vessel and Asset Support for Deepwater Horizon in the Gulf of Mexico.

Program Office: Fisheries Office of Habitat Conservation (OHC)

NAICS Code/Description: 541620 / Environmental Consulting Services

Est. Amount: \$5.1M - \$10M (2 years)

Competition: Competitive

Place of Performance: Gulf Shores, Alabama

Est. Solicitation Date: 1st quarter of FY 2024 (Oct-Dec 2023)

Est. Award Date: 2nd quarter of FY 2024 (Jan-Mar 2024)



Thank you



Kelvin Xu

Office of the Chief Administrative Officer





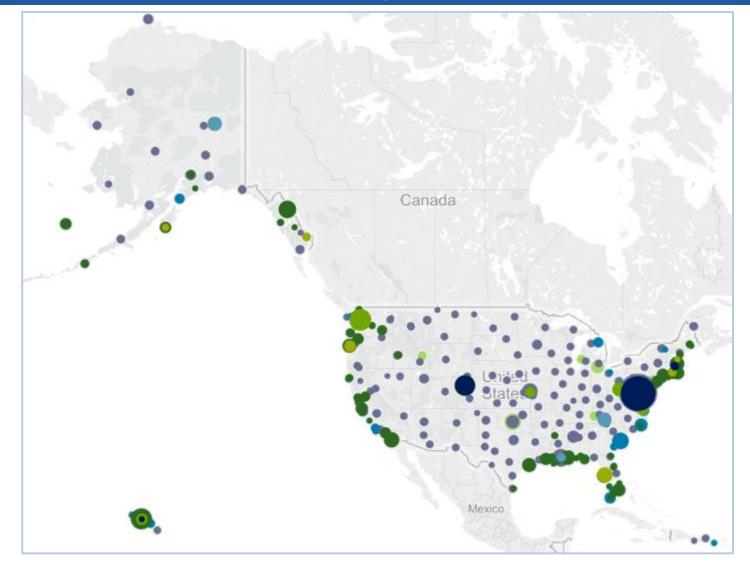


Provide a foundation for NOAA's mission accomplishment through a broad range of agency-level administrative programs and enterprise facilities management



Services the NOAA National Footprint











- Provide strategic facilities planning
- Manage the portfolio of owned and leased facilities by providing capital investment planning, environmental assessments, managing construction, and conducting modernization projects
- Track agency consumption of energy, natural resources, and manufactured materials, and its contributions to greenhouse gas emissions
- Provide facilities and logistics operations for Hawaii,
 Seattle, and Silver Spring campuses to ensure common services to more than a third of NOAA's workforce



Safety & Security Management



- Provide guidance, oversight and continuous improvement for safety and occupational health
- Manage access to facilities and associated compliance with Homeland Security Presidential Directive-12 regulatory requirements
- Coordinate with the Department of Commerce Office of Security regarding physical security and anti-terrorism risk protection
- Implement responses to changing policies and procedures for Foreign National Visitor and Guest access to Commerce facilities
- Provide for physical security services at corporate campuses



Asset Management



- Manage all General Services Administration (GSA)
 Occupancy agreements for office and warehouse space, including 170 GSA occupancy agreements, 1,100 commercial lease contracts and 600 permits
- Manage licenses to house communications and scientific equipment and ground leases for owned property
- Account for 177,000 personal property assets valued at over \$8.2 billion
- Maintain the vehicle management program covering 1,159 GSA-leased vehicles and 412 NOAA-owned vehicles valued at \$32.7 million



Administrative Services & Programs



- Provide regulatory guidance, support policy dissemination through advisory services, and enable compliance with legislative demands, Office of Management and Budget and Commerce directives
- Manage agency responsiveness to Government Accountability Office and Office of Inspector General audits and actions and nine Federal Advisory Committees
- Provide logistics services from mail and printing services to transit subsidy for employees
- Provide advisory services, subject matter expertise and customer service with records retention and disposition



Primary Locations

National Weather Service Headquarters

Silver Spring, MD

National Water Center

- Tuscaloosa, AL
- 65,000 sq ft, LEED Gold facility
- Center of excellence for water resources science and prediction and catalyst to transform water prediction through enterprise collaboration
- Operations Center
- NWC has hosted more than 110 scientific meetings with over 3200 participants







Vision

A "water-ready" nation, capable of addressing the nation's challenges relating to water extremes, water scarcity, and water quality through improved water prediction and related decision support services.

Mission

Collaboratively research, develop and deliver timely and consistent, state-of-the-science national hydrologic analyses, forecast information, data, guidance, and decision-support services to inform essential emergency management and water resources decisions across all time scales.

Stakeholder Priorities



Need integrated understanding of near- and long-term outlooks and risks

- Provide consistent, high resolution ("street level") analyses, predictions and data to address critical unmet information and service gaps
- Transform information into actionable intelligence by linking hydrologic, infrastructure, economic, demographic, environmental, and political data





OWP Contracting Overview

Administrative and Professional Services

- Project Management and PMO Support
- Development, Support, and Rollout of OWP Training

Scientific Services

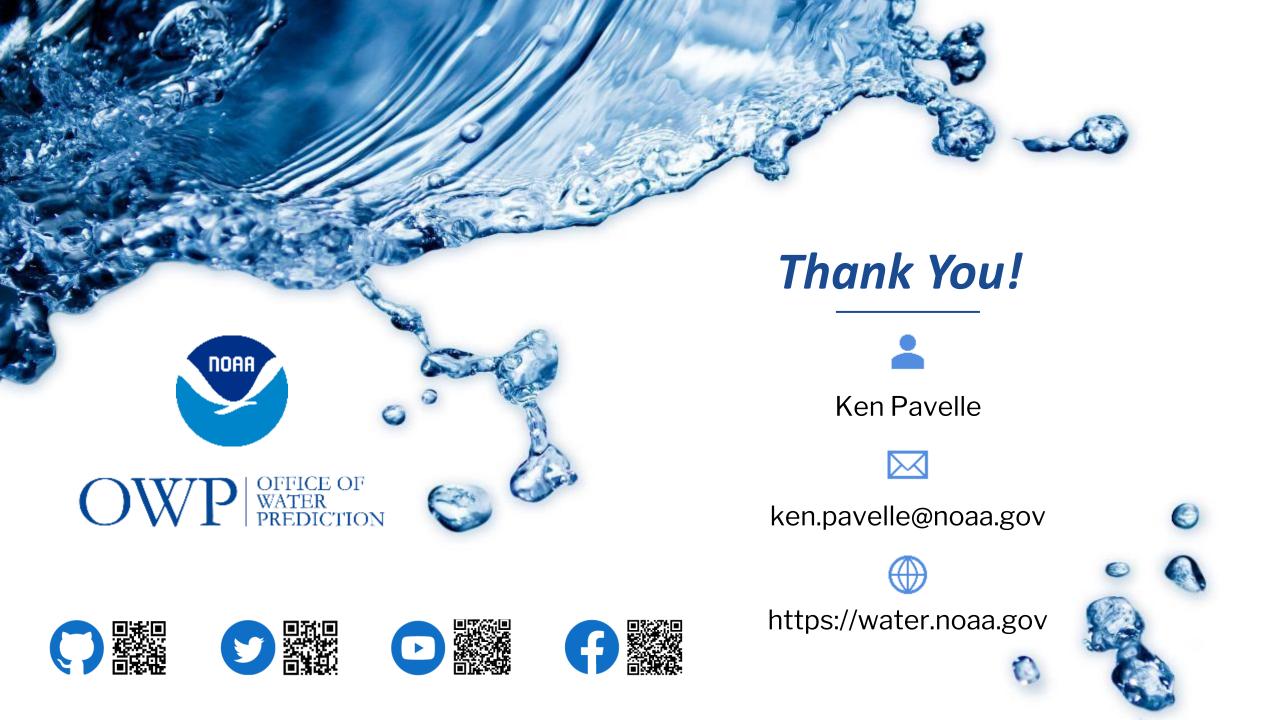
- Hydrologic and Hydraulic Modeling (and related major components of the water cycle)
- Geospatial Services

IT Management Services

- On-Premises and Cloud-Based System Administration
- Web and Data Services
- Hardware, Software, Licenses, etc.

Procurement Forecasts

	Requireme nt #	Short Name	Description
	REQUIREMENTS -23-0995	WPCIS - IT Support	Information technology service management support for the NWS OWP. Includes on-premises hardware support at four geographical locations (primarily in Tuscaloosa, AL). Services to include installation and maintenance of physical hardware, maintenance of physical and virtual systems, help desk / ticketing support, IT security, building network, audio-visual and peripheral support, windows and apple workstations, and related activities.
101	REQUIREMENTS - 23-0998	WPCIS - Software	Software engineering and computational science, and operational support for much of the software











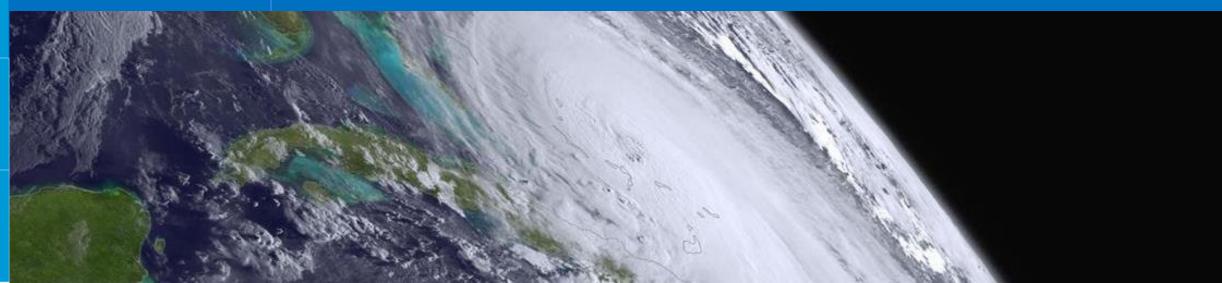






Office of Central Processing

Olga Brown-Leigh NWS, Office of Central Processing









Overview













- Welcome
- Organizational Structure
- Major Portfolio Overview
- **High Level Efforts**
- **Questions and Answers**

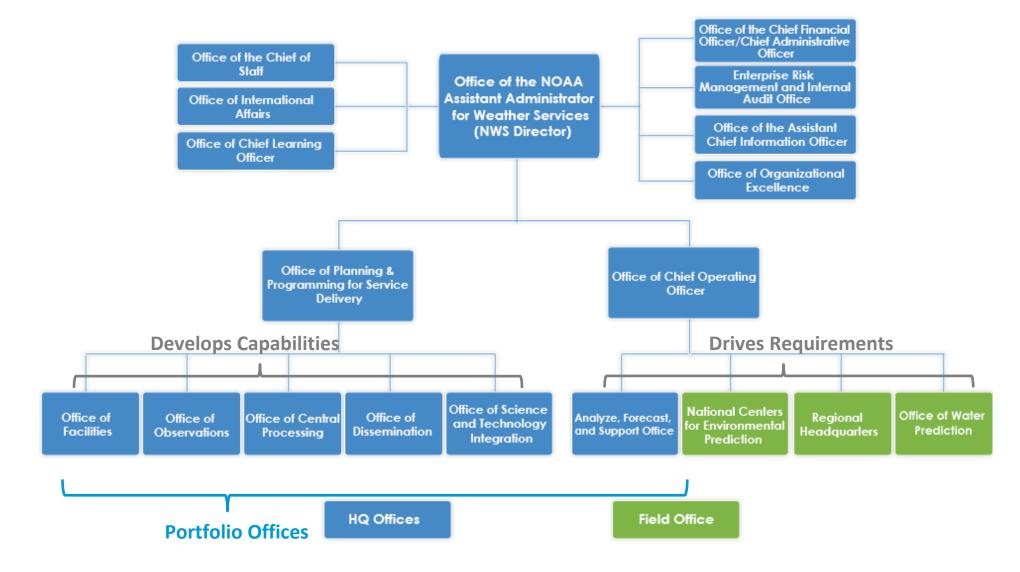






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NWS Organizational Chart









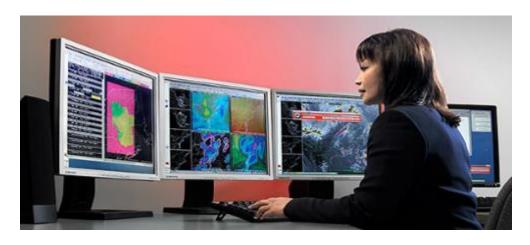


Weather and Climate Operational Supercomputing System (WCOSS)

- 24x7 weather and climate forecasting capabilities
- Highly available, geographically separate primary and backup operational supercomputing systems
- Development supercomputing capability including resources for NOAA HFIP activity
- Associated storage resources, wide area network, and support services
- Numerical environmental prediction model development and testing



Advanced Weather Interactive Processing System (AWIPS)



- Integration and display of meteorological and hydrological data, satellite, and radar data at NWS field offices
- Acquires and processes data from sensors and local sources
- Computational and display functionality at operational sites
- Interactive communications system to interconnect NWS operational sites
- Initiates weather and flood warnings and forecasts in a rapid and highly reliable manner
- Communication interface to much of NOAA's real-time environmental data for internal and external users









National Centers for Environmental Prediction (NCEP) Central Operations (NCO)

- 24x7 monitoring of NCEP Production suite
- 24x7 system maintenance and administration service
- Transition models into operations
- Quality assurance of observations and products
- Software development for data processing, display, interaction, and product generation
- Supports on-demand requirements including dispersion forecasts
- Deploys and supports centralized dissemination systems for the **Integrated Dissemination Program**



Hydrology Information Technology (IT)

- Advanced Hydrologic Prediction System (AHPS)
- Web-based suite of river-forecast products
- Expansion of advanced river forecast information to throughout the United States
- Community Hydrologic Prediction System (CHPS)
- IT infrastructure enabling access to hydrologic models at all 13 **River Forecast Centers**

National Centers and Regional IT Infrastructure

- Maintenance of IT infrastructure and standards to enable National Centers and regional offices, including forecast offices to effectively work together
- Computing that occurs outside of AWIPS
- Local area networking
- IT Security
- Data center power and cooling











NCEP Central Operations







Complete installation of National Ice Center (NIC) into NWS environment



 Sustain 99% on-time product generation on operational supercomputers











Central Processing Overview – High Level Efforts



AWIPS Program



- Revamping applications used to create and issue warnings
- Application consistency between Tsunami Warning Center Operations
- Developing approach for IDSS Management System
- System Administration (SysAdmin) support services of Operational Proving Ground (OPG)
- Engineering Analyses for high priority NWS requirements









Central Processing Overview – High Level Efforts



AWIPS Program



- Revamping applications used to create and issue warnings
- Application consistency between Tsunami Warning Center Operations
- Developing approach for IDSS Management System
- System Administration (SysAdmin) support services of Operational Proving Ground (OPG)
- Engineering Analyses for high priority NWS requirements









Central Processing Overview – High Level Efforts







Implement National RFC Service Backup operationally



 Modernized AHPS code implementation on Integrated Dissemination Program (IDP) system



CP Portfolio Initiatives



Engineering load capacity studies to support SSMC2 data center consolidation











Office of the Assistant Chief Information Officer Enterprise Program Management Office

NOAA Small Business Industry Day

Beckie Koonge. NWS Assistant Chief Information Officer June 22, 2023









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NWS Office of the Chief Information Officer (OACIO)

- Oversees Information Technology (IT) planning and evaluating activities
- Performs assessment, accreditation, auditing of NWS FISMA systems
- Conducts review of IT systems investment to ensure high quality cost-effective IT initiatives
- Provides overall strategic planning and policy oversight for NWS assets and resources
- Manages NWS wide procurement of Adobe, RedHat, Microsoft, Smartsheet, VMWare licenses















OACIO Contracting Overview

Assessment & Authorization (A&A)

- Perform annual A&A services for all NWS FISMA systems
- Conduct annual penetration testing

FISMA

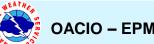
Perform FISMA IT Security Compliance services in support of program

CPIC/FITARA

- Manage NWS portfolio of Major and Non-Major IT Business Cases
- Oversee portfolio management of IT investments, budget, and contracts
- Review all IT Acquisitions for ACIO approval under \$10M and coordinate the IT Authority requests to the Dept Of Commerce CIO

SSMC2 IT Support Services and the NWS National Active Directory

 Provide network infrastructure support, management, and connectivity services to desktop users within the NOAA8850 accreditation boundary



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PROCUREMENT FORECASTS

Contract	Description	Existing Period of Performance	New Period of Performance	Total Contract Value
NWS A&A BPA 8(a) set aside	Perform annual A&A services for all NWS FISMA systems; Conduct annual penetration testing	OY2: 08/20/22 - 08/19/23 6 Month Extension: 08/20/23 - 02/19/24	Base: 02/20/24 - 02/19/25 OY1: 02/20/25 - 02/19/26 OY2: 02/20/26 - 02/19/27 OY3: 02/20/27 - 02/19/28 OY4: 02/20/28 - 02/19/29	\$48,000,000 (estimated)
FISMA Compliance Hybrid 8(a) set aside	Perform FISMA IT Security Compliance services in support of program	Base: 09/19/21 - 09/18/22 OY1: 09/19/22 - 09/18/23 OY2: 09/19/23 - 09/18/24 OY3: 09/19/24 - 09/18/25 OY4: 09/19/25 - 09/18/26	New PoP Start: 09/19/26	\$7,533,733 (existing)
Enterprise Services Program Management Office NOAA Level Contract SMS	Manage NWS portfolio of Major and Non-Major IT Business Cases;Oversee portfolio management of IT investments, budget, and contracts; Review all IT Acquisitions for ACIO approval under \$10M and coordinate the IT Authority requests to the Dept Of Commerce CIO	Base: 06/19/23 - 06/18/24 OY1: 06/19/24 - 06/18/25 OY2: 06/19/25 - 06/18/26	New PoP Start: 06/19/26	\$6,337,018 (existing)
Enterprise Mission Enabling Services (EMES)/NOAA8850 8(a)	Provide network infrastructure support, management, and connectivity services to desktop users within the NOAA8850 accreditation boundary	Base: 02/06/23 - 02/05/24 OY1: 02/06/24 - 02/05/25 OY2: 02/06/25 - 11/05/25	New PoP Start: 11/06/25	\$4,499,279 (existing)







Office of Human Capital Services

Adam Santo Project Management Office







The Office of Human Capital Services (OHCS) is NOAA's human resource organization and a key point of contact with the Department of Commerce's Office of Human Resources Management. OHCS reports to NOAA leadership, including the NOAA Deputy Under Secretary for Operations and the NOAA Administrator.

OHCS offers essential leadership and consultation to make sure NOAA has the people and skills it needs to fulfill its mission — now and in the future.



Procurement Forecasts for FY 2024



OHCS wishes to hear from small business about:

- ➤ Human Capital Services
 - Digital recruitment such as social media and virtual career fairs
 - Workforce analytics to aid with recruitment for difficult-tofill positions and diversity
 - Leadership development, mentoring, and coaching
 - Work-Life balance
- > Human Resources
 - Staffing and classification
 - Onboarding and recruitment
 - Automation for records management
 - Administrative investigations

Contacts

Adam Santo NOAA/OHCS 240-463-3372 / adam.santo@noaa.gov

















NOAA Small Business Industry Day National Environmental Satellite, Data, and Information Service

Darrin Pape | June 22, 2023 Acquisition Liaison







Satellite Observations since 1958























1958

1966 1960

1970

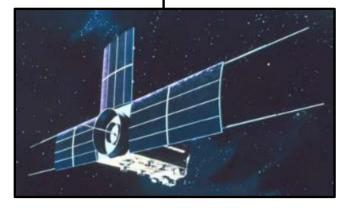
1972-2010

2016

2017

2018







NOAA-20

TIROS-1 NOAA-1









Security, Safety, and Prosperity

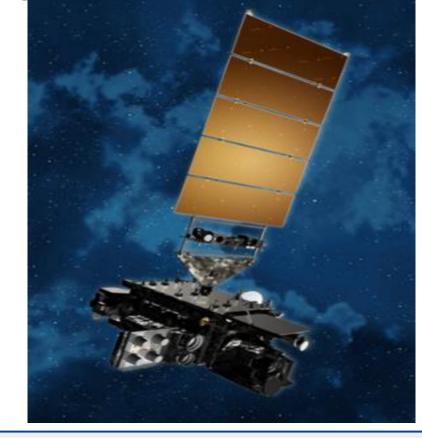


• Operates the Nation's weather satellites, 24/7



Acquires next-generation Earth observation satellites

- Provides data and imagery for predictive environmental and atmospheric modeling
- Provides definitive assessments of the U.S. and global climate
- Maintains one of the most significant archives of environmental data on Earth





95% of the data used in weather forecast models come from satellites























Helping Plan our Day

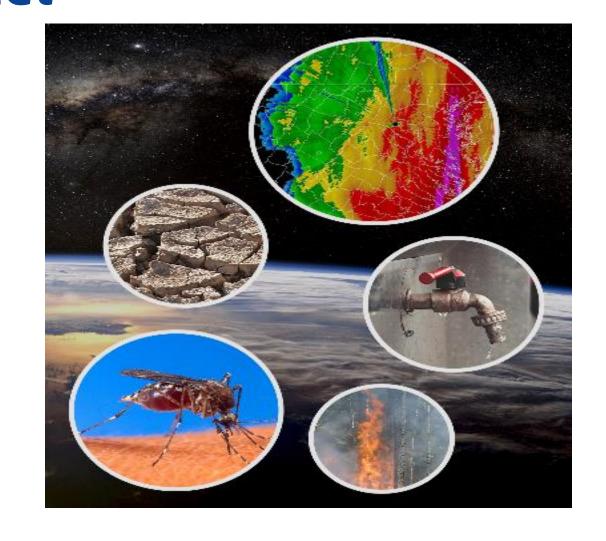
300 billion weather forecasts are used by Americans every year.

- **Protecting Our Health**
- **Keeping Us Secure**

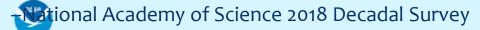
\$2 billion dollars per year is the estimated value of NASA and NOAA information services to the U.S. Navy's operational effectiveness.

- **Mitigating Natural Disasters**
- **Ensuring Resource Availability**

Extreme weather and fires have cost the federal government more than \$350 billion.









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NESDIS Organization





National Environmental Satellite, Data, and Information Service Organizational Chart





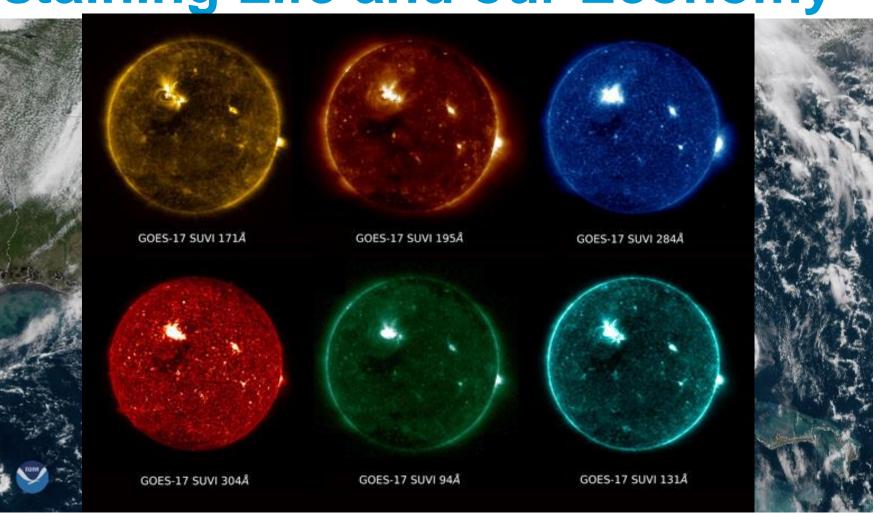














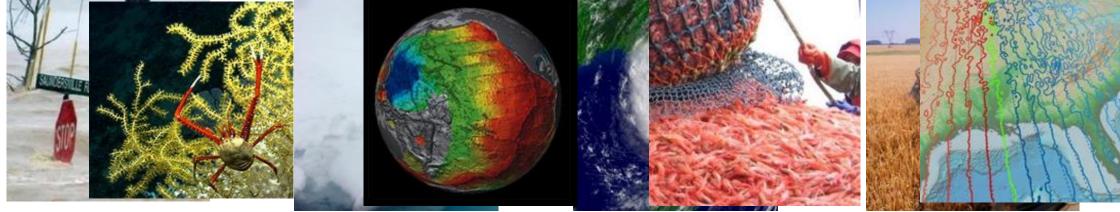




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Our Products: Climate & Weather





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Three Observation Viewpoints



Polar Satellites

Each satellite covers the Earth twice per day

- Pole-to-pole orbit is 102 minutes and views each location at the same time of day
- Global coverage every 12 hours with one satellite
- DOD in the early morning orbit;
 EUMETSAT in the mid-morning orbit;
 NOAA in the early afternoon orbit

Geostationary Satellites

Continuous monitoring of the Western Hemisphere

- Same geographic image over time
- Usable images between 60°N and 60°S
- Extremely low latency, ~5 min
- GOES-East and GOES-West for full Western Hemisphere coverage

Deep Space Satellites

Continuous monitoring of the surface of the Sun

- Located ~1 million miles from Earth, at the Lagrange Point 1 position of the Sun-Earth system
- Uninterrupted view of the sun
- Real-time solar wind monitoring.
 Provides 15 60 minutes warning time



















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GEOSTATIONARY ORBIT

■ NEAR-POLAR ORB ■ LAGRANGE POINT 1



DSCOVR

To be added: SWFO,

LRD: FY2024

Space Weather Follow-On

← In their orbits





FROM BOX 📚

GERWARY.

NATIONAL SPACE ORGANIZATION (MEPO).

EUROPERTRIWE ACTION

DEPARTMENT OF DEFENSE



Where Data Meets the Mission



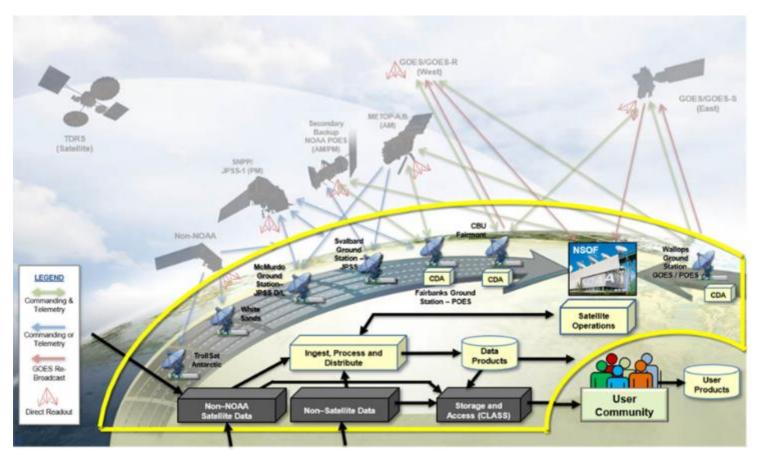












Asheville, NC - climate & environmental archives

Boulder, CO - space weather & geophysical data

Fairbanks, AK - data processing

Fairmont, WV - IT

Ft Collins, CO - satellite imagery &

products

Madison, WI - satellite imagery & products

Stennis, MS - ocean data

Wallops, VA - data processing

College Park, MD - satellite imagery/products and data assimilation

Greenbelt, MD - satellite engineering (NASA Goddard)

Silver Spring, MD - policy, planning, comms, IT

Suitland, MD - 24/7 satellite command and control







NESDIS Data Lifecycle



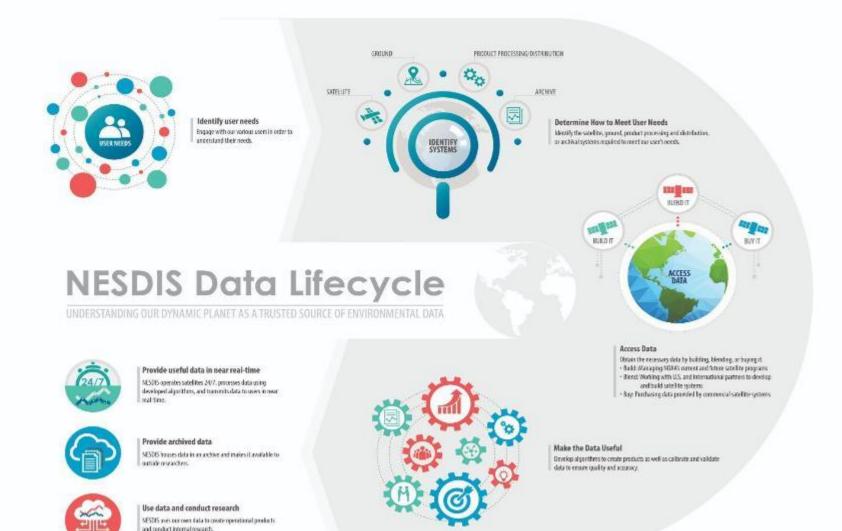
























- Provides Weather Data, 95% of the data used in weather forecasting models comes from satellites.
- Operates the Nation's weather satellites around the clock, 365 days a year
- Acquires next-generation earth and space weather observation satellites
- Provides definitive assessments of the U.S. and global climate
- Maintains one of the most significant archives of environmental data on Earth
- Administrative Professional Services
 - IT Management, Data Services, Hardware, Software, Licenses
 - Financial Management
 - General Administrative
 - Program and Project Management Support
 - Human Resources







Procurement Forecast Sample



https://www.commerce.gov/oam/vendors/procurement-forecasts

Forecas t ID	Short Title	Description	
30991	FY24 NCEI Office Support Services Recompete (HubZone)	The objective of this task is to provide office support services to NCEI in the areas of administration, workforce management, travel, budget and finance, grants, agreements, procurement, communications/outreach/education, property management, mailroom operations, and copy center operations. Estimated Value of \$10.1M to \$20M	
31142	FY24 SOCD IT HW	SOCD IT HW servers for satellite product development and dissemination for CoastWatch, Ocean Color, Sea Surface Temperature, and Ocean Surface Vector Winds. Estimated Value of \$501K to \$1M	
30842	NESDIS Facilities Project Management and Technical Support	NESDIS Facilities Project Management and Technical Support. Estimated Value of \$2.1M to \$5M.	







Thank You













Darrin Pape Acquisition Liaison



https://www.nesdis.noaa.gov/



