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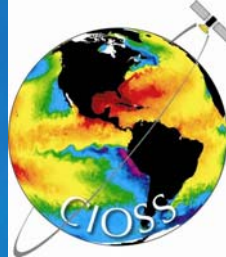
Cooperative Institute for Research in the Atmosphere



University of Wisconsin-Madison Space Science and Engineering Center



Cooperative Institute for Meteorological Satellite Studies



Cooperative Institute For Oceanographic Satellite Studies

Oregon State UNIVERSITY

NESDIS Cooperative Institutes

Ingrid Guch



COLUMBIA UNIVERSITY
IN THE CITY OF NEW YORK



National Oceanic and Atmospheric Administration
Cooperative Remote Sensing Science and Technology Center



NOAA NESDIS Cooperative Institutes Program

FOCUS ON RESEARCH

- Important NOAA University/Non-Profit Research Institutions Partnership Program
- Focal point in facilitating and enhancing scientific research between the federal government, various universities, and non-profit research institutions
- Research collaborations of scientific research workers nationally and internationally

Cooperative Institute for Climate Studies (CICS) - NOAA/University of Maryland

- MOU signed in 1983
- **Focus** — CICS research themes involve activities in five general research task areas. They are: Remote Sensing Research and Development; In Situ Measurement Research and Development; Analysis of Remotely Sensed, In Situ and Model Generated Data; Data Assimilation Studies; Data Collection and Archival.
- **Federal staff on site**
- **Funding mechanism - Cooperative Agreement**
(Administered by NWS until 1999 when it was transferred to NESDIS)
- **Current Cycle — September 1, 2001 – June 30, 2009**

NOAA NESDIS Cooperative Institutes Program

ORGANIZATIONAL STRUCTURE

- Originate with:
 - Open Competition - Federal Register Notice
 - Memorandum of Understanding/Memorandum of Agreement
- Operate within “Research Themes”
- Legally governed through “cooperative agreements” as the funding instrument
- Multi-year funding
- Institutional Programs and Catalog of Federal Domestic Assistance (CFDA-11.440 & 11.432)
- Formal (versus informal) collaborative research agreements within NOAA

NOAA/NESDIS Cooperative Institutes Program

Memorandum of Understanding/Agreement between the National
Oceanic and Atmospheric Administration (NOAA)
and the (name of other party)

- I. Purpose and Scope
- II. References and Authority
- III. Substance (description of what is being agreed to, responsibilities, commitments, and the term and conditions of performance)
- IV. Period (duration of the Agreement)
- V. Modification/Cancellation Provision (provisions for future modifications or cancellations)
- VI. Other Provisions - Clarifications on possible conflicts (NOAA/University/Institution Directives)
- VII. Signature of Each Party

NOAA NESDIS Cooperative Research Institutes

- CICS – Cooperative Institute for Climate Studies – University of Maryland – College Park

Established: July 12, 1983

- CIMSS – Cooperative Institute for Meteorological Satellite Studies – University of Wisconsin – Madison

Established: July 14, 1980

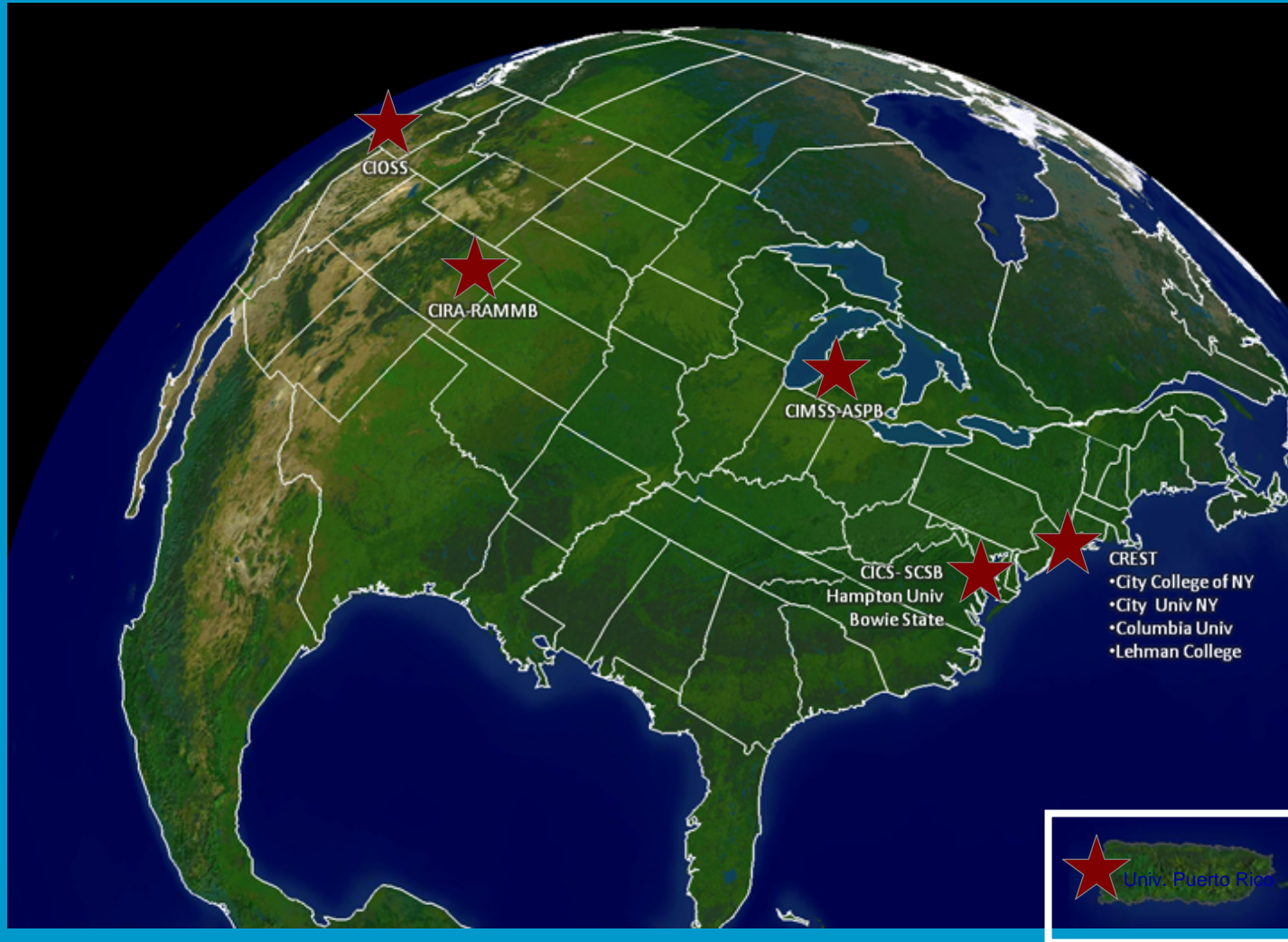
- CIOSS – Cooperative Institute for Oceanographic Satellite Studies – Oregon State University

Established: VADM Lautenbacher signed the MOA 12/23/03. Signed by OSU President 10/02/03.

- CIRA – Cooperative Institute for Research in the Atmosphere – Colorado State University

Established: September 18, 1980
(Host NOAA Line Office is OAR)

NOAA NESDIS Cooperative Institutes Geographical Locations



NOAA/NESDIS Cooperative Institute Research Themes

CICS (Cooperative Institute for Climate Studies)

University of Maryland

- Global Energy and Water Cycle
- Climate Diagnostics and Prediction
- Atmospheric Chemistry

CIOSS (Cooperative Institute for Oceanographic Satellite Studies)

Oregon State University

- Satellite Sensors and Techniques
- Ocean-Atmosphere Fields and Fluxes
- Ocean-Atmosphere Models and Data Assimilation
- Ocean-Atmosphere Analyses
- Outreach, Education and Training

CIMSS (Cooperative Institute for Meteorological Satellite Studies)

University of Wisconsin-Madison

- Weather Nowcasting and Forecasting
- Clouds and Radiation
- Global Hydrological Cycle
- Environmental Trends
- Climate

CIRA (Cooperative Institute for Research in the Atmosphere)

Colorado State University

(Host NOAA Line Office is OAR)

- Global and Regional Climate Studies
- Local and Mesoscale Area Weather Forecasting and Evaluation
- Cloud Physics
- Applications of Satellite Observations
- Air Quality and Visibility
- Societal and Economic Impacts
- Crosscutting Research Area 1: Numerical Modeling
- Crosscutting Research Area 2: Education, Training, and Outreach

Cooperative Institute for Meteorological Satellite Studies (CIMSS) - NESDIS/NASA/University of Wisconsin

- **MOA signed in 1980**

(revised in 1989 to include NASA (Langley Research Center & Goddard Space Flight Center))

- **FOCUS** - Research themes involve activities in general research task areas such as: Satellite Data Product Development; Satellite Data Processing Techniques; New Remote Sensing Instrumentation and Applications; Satellite Data Assimilation Studies and Satellite Data Collection and Archive.

- **Federal staff on site**

- **Funding Mechanism - Cooperative Agreement**

- **Current Cycle - January 1, 2006 – June 30, 2010**

Cooperative Institute for Oceanographic Satellite Studies (CROSS) - NOAA/Oregon State University

- **MOA** Signed 12/23/03 by VADM Lautenbacher. Signed October 2, 2003 by OSU President Edward J. Ray.
- **FOCUS** – FOCUS - Development, calibration, and validation of satellite sensors, techniques, algorithms, applications, surface parameters, and surface fluxes; data assimilation and use of satellite-derived fields to force and evaluate numerical models of the ocean and atmospheric circulation; and the analysis of data derived from satellites or in conjunction with satellite data to improve the understanding of satellite ocean remote sensing, satellite oceanography, and the ocean-atmosphere system.
- **Federal Staff are not located on site at this time.**
- **Funding Mechanism – Cooperative Agreement**
- **Five Year Cycle - April 1, 2003-March 31, 2008**

Cooperative Institute for Research in the Atmosphere (CIARA) - NOAA/Colorado State University

- MOU signed 1980
- **FOCUS** – Global and Regional Climate Studies; Local and Mesoscale Area Weather; Forecasting and Evaluation; Cloud Physics; Applications of Satellite Observations; Air Quality and Visibility; Societal and Economic Impacts; Crosscutting Research areas 1 & 2: Numerical Modeling; Education, Training and Outreach.
- Federal staff on site
- Funding Mechanism - Cooperative Agreement
- Current Cycle – July 1, 2001-June 30, 2009

(Hosted and Administered by OAR)

Cooperative Remote Sensing Science and Technology Center (CREST)

(A Research Partnership with NESDIS – not a Cooperative Institute)

***A consortium of the City College of the City University of
New York (CCUNY)***

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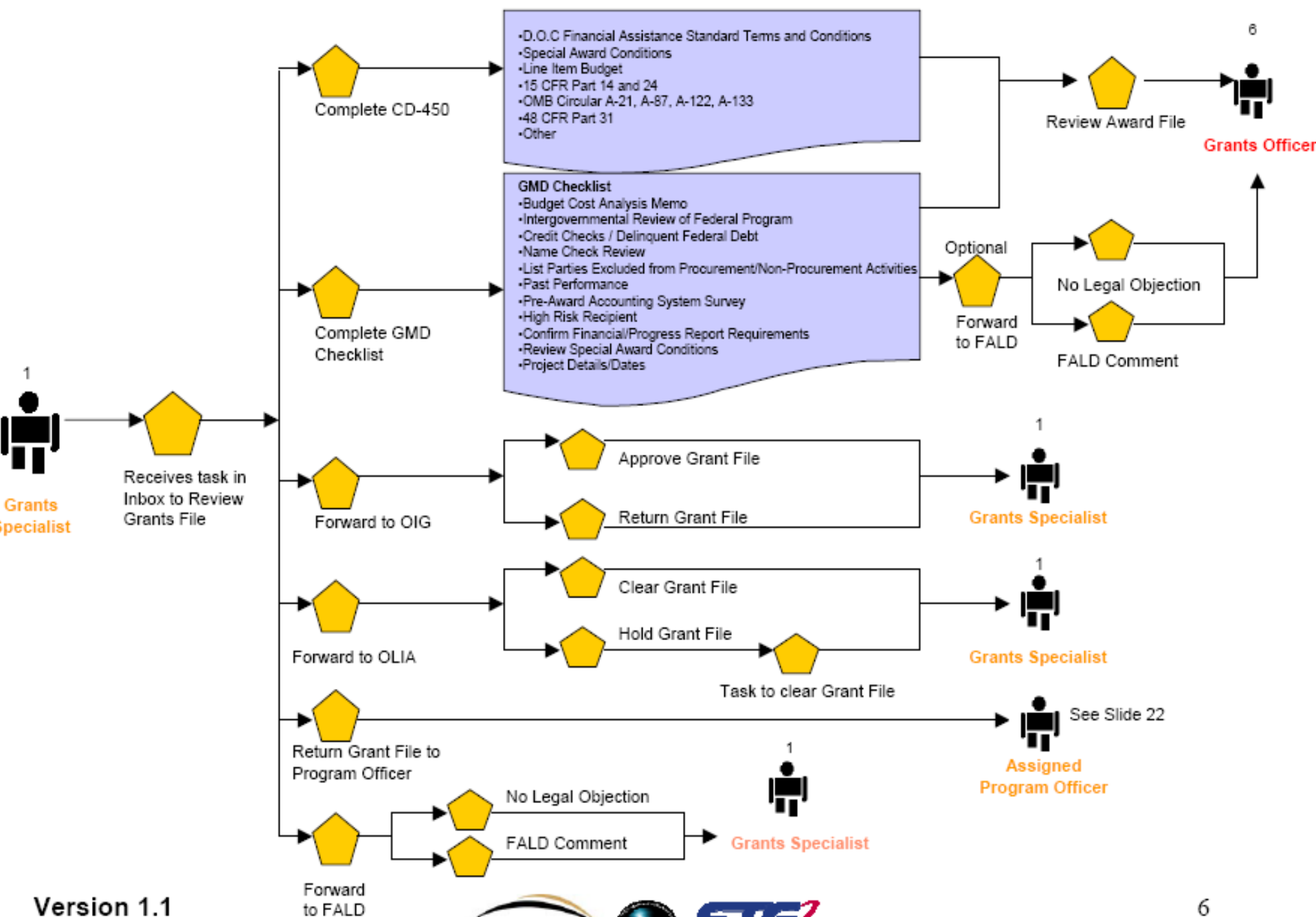
**Bronx Community College
Bowie State University
Columbia University
Hampton University
Lehman College
University of Maryland, Baltimore
University of Puerto Rico**

CREST Mission and Purpose

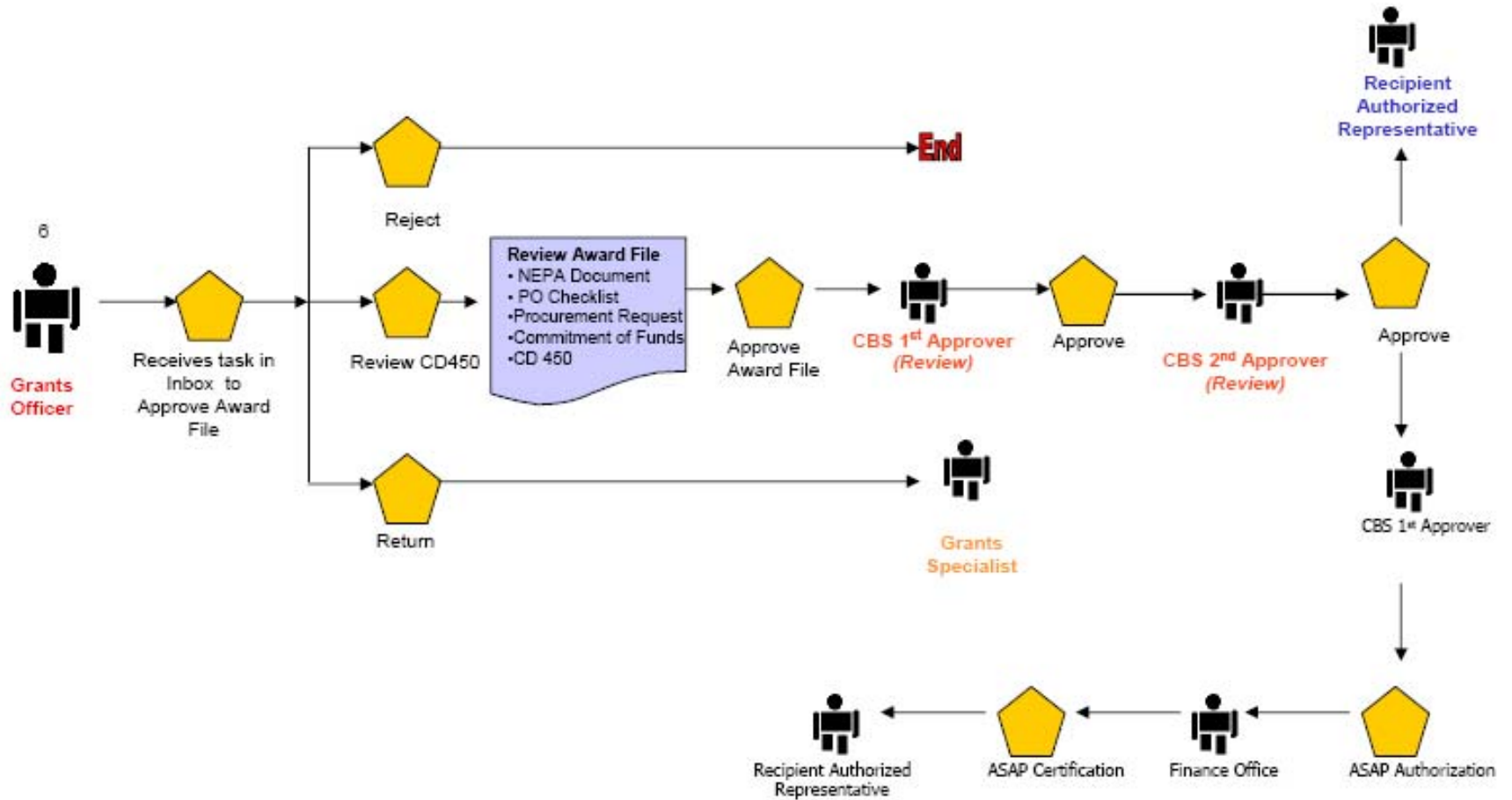
- *To conduct research consistent with NOAA's missions of environmental assessment, prediction, and environmental stewardship*
- *To create a framework to recruit and train graduate students from under represented minorities for professional opportunities within NOAA*
- *Create methodologies to improve the capabilities of NOAA to describe and predict changes in the Earth's environment*

Center Research Themes

- Atmospheric Remote Sensing and Air Quality Monitoring
- Estuarine, Coastal and Marine RS and Water Quality Monitoring
- Remote Sensing Applications for Environmental Assessment and Forecasting



Application: Review/Approve Grant File – Grants Officer



NOAA NESDIS Cooperative Institutes Program

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