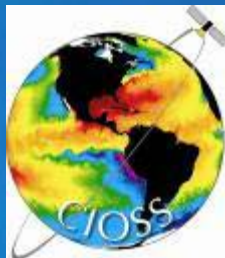




Cooperative Institute for Research in the Atmosphere



Cooperative Institute For Oceanographic Satellite Studies

Oregon State UNIVERSITY

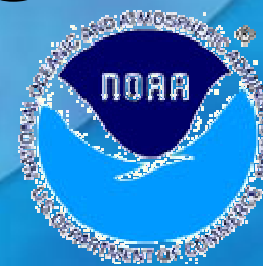


University of Wisconsin-Madison Space Science and Engineering Center

Cooperative Institute for Meteorological Satellite Studies

# NESDIS Cooperative Institutes

Ingrid Guch



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

# 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

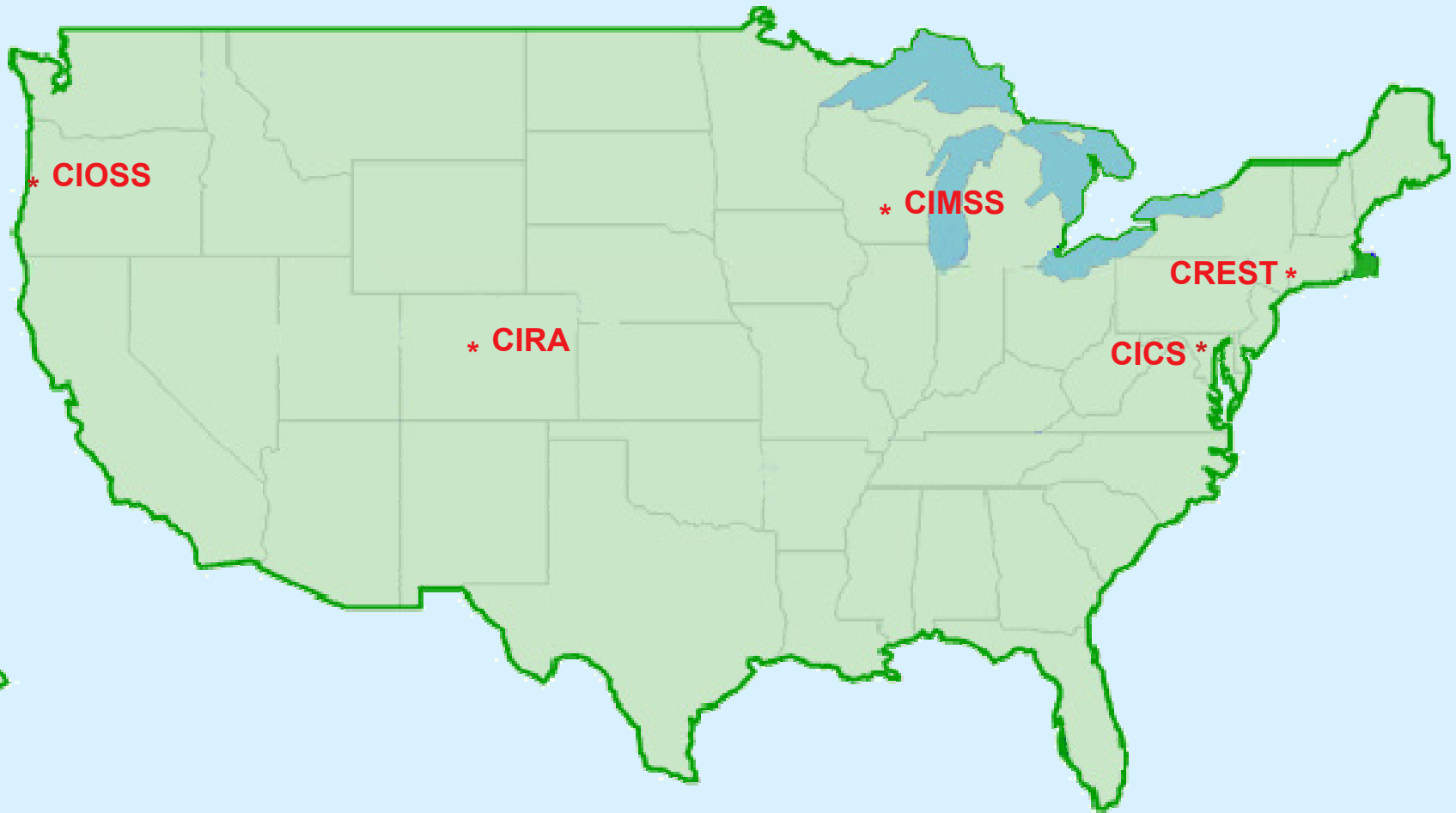
- CLOSS – Cooperative Institute for Oceanographic Satellite Studies – Oregon State University

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

(Proposed Themes)

- 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 Climate Studies (CICS) - NOAA/University of Maryland

- MOU signed in 1983
- **Focus** — CICS research themes involve activities in five general research task areas. The 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)
- **Five Year Cycle — September 1, 2001 – August 31, 2006**



# 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**
- **Five-Year Cycle - October 1, 2000 – December 31, 2005**

(Extended period of performance for 3 months in 2005 to create a new funding cycle)

# 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
- Five Year Cycle – July 1, 2001-June 30, 2006

(Hosted and Administered by OAR)

# NOAA NESDIS Cooperative Institutes

## Proposal Process for 5-Year Institutional Award



# **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)*

**WITH**

**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

# NOAA NESDIS Cooperative Institutes Program

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