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## CURRENT COLLABORATIVE RESEARCH EFFORTS

STAR researchers routinely collaborate with other NOAA scientists, academic institutions (including Cooperative Institutes), U.S. government agencies, and international governments and organizations. STAR's collaborations, grouped by Division, are summarized below.

### Satellite Meteorology and Climatology Division

#### Across NOAA

Partner	Research Areas
Joint Center for Satellite Data Assimilation	Hyperspectral infrared remote sensing; new instrument development
NESDIS / Office of Systems Development	Satellite product algorithms; new instrument development; calibration / validation
National Weather Service	Calibration / validation
OAR / Atlantic Oceanographic and Meteorological Laboratory	Hurricane observing system strategies; hurricane model evaluation and verification techniques
OAR / Earth Systems Research Laboratory	Hurricane observing system strategies; ozone mapping; greenhouse gases

#### Academic

Partner	Research Areas
City College of New York	Remote sensing applications
University of Colorado	Calibration / validation, microwave technology
Florida State University	Data assimilation
University of Maryland, Baltimore County	Remote sensing applications
University of Maryland, College Park	Weather / climate products and algorithms
Massachusetts Institute of Technology	Calibration / validation
Texas A&M University	Radiative transfer, aerosols, clouds
Utah State University	Calibration / validation
University of Wisconsin	Calibration / validation

#### U.S. Government

Partner	Research Areas
NASA - overall	Sensor science teams
NASA - Langley	NPP CrIS calibration / validation
NIST	Calibration

**International**

<b>Partner</b>	<b>Research Areas</b>
Brazil Ministry of Science and Technology	Large-Scale Biosphere-Atmosphere Experiment in Amazonia
CEOS	Calibration / Validation Working Group; Atmospheric chemistry Subgroup; Land Surface Imaging Constellation; Fundamental Climate Data Records
China Meteorological Administration	GSIC coordination (inter-calibration); ozone instruments
GSICS	Intercalibration
Ukrainian Hydromet Service	Product validation and improvement
World Meteorological Organization	Precipitation processing; sustainable land management

**Satellite Oceanography and Climatology Division****Across NOAA**

<b>Partner</b>	<b>Research Areas</b>
OAR	Ocean acidification; freshwater ice, sea ice / arctic; CoastWatch; coral reefs
NWS (includes NCEP, Ocean Prediction Center, National Hurricane Center, Central Pacific Hurricane Center, Alaska Region)	Ocean winds, hurricanes, sea surface temperature, sea ice; CoastWatch
NOS	Ocean color; harmful algal blooms; CoastWatch
NMFS	CoastWatch; Chesapeake Bay fisheries; coral reefs
Coral Reef Conservation Program	Coral reefs

**Academic**

<b>Partner</b>	<b>Research Areas</b>
CICS	Sea surface temperature
CIOSS	Ocean color, scatterometry and altimetry product development/applications
CIRA	SST and ocean color
Brigham Young University	Scatterometry
University of Colorado at Boulder	Coral reefs
Cornell University	Coral reefs
University of Delaware	CoastWatch; sea Ice
University of Exeter (UK)	Coral reefs
University of Florida	Sea surface temperature
Florida State University	Synthetic aperture radar

Group for High Resolution SST	Sea surface temperature
University of Hawaii	CoastWatch; ocean color
James Cook University (Australia)	Coral reefs
Johns Hopkins University APL	Synthetic aperture radar
Louisiana State University	Synthetic aperture radar
University of Maryland	Physical oceanography/altimetry applications
University of Massachusetts Microwave Remote Sensing Lab	Scatterometry
University of Miami	SST; coral reefs
University of Miami/CIMAS	SAR; CoastWatch
Moss Landing Marine Lab	Ocean color
Universidad Nacional Autónoma de México (Mexico)	Coral Reefs
Nova Southeastern University	Coral Reefs
University of Queensland (Australia)	Coral Reefs
University of South Carolina	CoastWatch
University of Southern California	Ocean color, water quality
University of South Florida	Coral Reefs
University of Texas	Coral Reefs
Texas A&M University	Coral Reefs
University of Washington Polar Science Center	Sea Ice

### U.S. Government

Partner	Research Areas
NASA - general	Ocean color; sea surface temperature; synthetic aperture radar; coral reefs
NASA - GSFC	Ocean color; sea ice
NASA - JPL	Scatterometry; sea ice
National Science Foundation SEARCH	Sea ice
Naval Research Laboratory	VIIRS ocean calibration / validation (sea surface temperature, ocean color); synthetic aperture radar
NIST	Ocean color / MOBY
Southern California – Coastal Water Research Project	Ocean color; water quality

### International

Partner	Research Areas
Australian Institute of Marine Science	Coral reefs
Australian Research Council	Coral reefs
Canadian Ice Service	Sea ice; synthetic aperture radar winds; oil spills
Canadian Space Agency	Radarsat hurricane applications project
University of Edinburgh	Sea surface temperature
European Space Agency	Envisat synthetic aperture radar; ocean color (CoastColour)

International Ocean Color Coordination Group	CEOS/GEO ocean color radiometry virtual constellation
ISRO	Oceansat-2 (ocean color; scatterometry)
Italian Space Agency	COSMO Sky Med synthetic aperture radar
JAXA	ALOS (synthetic aperture radar); GCOM-W2 (scatterometry); GCOM-C (ocean color)
Meteofrance	Sea surface temperature
NATO Undersea Research Center	Synthetic aperture radar hurricane research
World Bank / Global Environment Facility	Coral reefs
World Meteorological Organization	Sea surface temperature

## Cooperative Research Programs

### Across NOAA

Partner	Research Areas
GOES-R project	Sounding algorithms; cloud algorithms; precipitation algorithms; cryosphere algorithms
National Weather Service	Satellite Requirements and Solutions steering team; Mesoscale Calibration Working Group; blended pre
National Weather Service – National Centers for Environmental Prediction	Chemical and aerosol assimilation and forecasting
National Ocean Service	Ecological modeling and prediction
OAR	Hurricane model evaluation and verification techniques; improved water budget observations; water cycle observations; Arctic climate and observing systems

### Academic

Partner	Research Areas
City College of New York	Cooperative Remote Sensing Science and Technology Center (CREST)
Colorado State University	Cooperative Institute for Research in the Atmosphere (CIRA)
University of Maryland / North Carolina State University	Cooperative Institute for Climate Studies (CICS)
Oregon State University	Cooperative Institute for Oceanographic Satellite Studies (CIOSS)
University of Utah	Atmospheric particulates
University of Wisconsin	Cooperative Institute for Meteorological Satellite Studies (CIMSS)

**U.S. Government**

<b>Partner</b>	<b>Research Areas</b>
Environmental Protection Agency	Environmental modeling - Chesapeake Bay watershed
National Aeronautics and Space Administration	Science requirements and new applications for satellite missions, including precipitation, cloud, aerosols, snow and ice.
National Center for Atmospheric Research	Hurricane and precipitation research
U.S. Geological Survey	Environmental modeling - Chesapeake Bay watershed

**International**

<b>Partner</b>	<b>Research Areas</b>
GEOSS	Satellite capacity building and training
GEWEX	Climate
WCRP	Snow and ice research and observing system
WMO	Tropical cyclones; satellite climatology

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