



Coastal Applications Initiative

Strategic Plan: 2009-2013

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GOMIAP



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NASA Science Mission Directorate

Study the Earth from space to advance scientific understanding and meet societal needs

Applied Sciences Program

Expand and accelerate the realization of societal benefits from Earth system science

Coastal Applications Initiative

Strengthen the Use of NASA Science Data in Coastal Management Decisions

Gulf Of Mexico Initiative

- Measuring, understanding, and providing improved tools for climate-related coastal policies and management decisions;
- Developing climate variability and sea level change applications;
- Encouraging collaborative and institutional innovation to meet the goals and expectations of NASA, GOMA, and the broader coastal management communities;
- Encouraging a regional approach to research and applications that helps develop the local-state expertise, the necessary bio-physical baselines, and the focused understanding necessary to deal with the tightly interrelated issues of coastal change, coastal vulnerability, and natural/built community resilience;
- Extending the Gulf of Mexico Initiative results to other regions and contributions to National policy and priorities.

GOMA



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Targeted Priorities

- Regional Sediment Management and Wetland Restoration
- Water Quality and Nutrient Monitoring for Assessment of Ecosystem Health
- Climate Change
- Sea Level Change

Goal 2: Extend NASA Science Data

- Interface with NASA's Research and Analysis Program to better understand and influence future sensor and mission considerations relative to anticipated or potential socioeconomic benefits;
- Assess the evolution and transition of sensor capabilities as satellites age and are replaced, thus providing long-term sensor continuity;
- Strengthen cooperative engagements within NASA and with other government agencies and non-governmental organizations to develop effective and efficient collaborations for national coastal-related applications.

Goal 1: Understand Coastal Issues

- Ensure that relevant research occurs and that the results are applied by resource managers and policy-makers;
- Demonstrate the utility of NASA Earth science results and applications;
- Foster knowledge transfer from the end-user, to and through the science community, and on to the policy makers; and
- Assess current and future NASA missions, data, research progress and solicitations for opportunities to demonstrate the value of the Nation's science investments.

Goal 3: Engage Broader Coastal Management

- Identify and participate in working groups, non-government organizations, and coastal management councils similar to GOMA and SIMOR
- Establish partnerships analogous to the NGI and GOMA where applications and enhancements to decision support is practical;
- Conduct exploratory investigations, building on advances from Gulf of Mexico, and identify similar ecosystems that may benefit from applications
- Assess the adaptation of applications to suit regional requirements

GOMAP



FY09 Coastal Applications Initiative

Maintain

- Steering Committee
 - Multi-agency, multi-level representation
 - Applications guidance
- Workshop Participation
 - User-community engagement
 - Priorities identification
- Implementation Projects
 - Resident capacity
 - Basis for competitiveness
 - Extend ~4 Investigations to Implementation
- COAST
 - Indispensable tool within the initiative
 - Demonstrated interest from user-community

Tactical

- Integrate New Technology
 - New sensors
 - New applications of existing sensors
- Adapt to New Information Requirements
 - GOMA GAP II
 - Terrestrial & anthropogenic forcings
- Adopt a Policy Profile from Projects Profile
 - Inter-agency partnerships
 - Inter-agency & policy-maker engagement
 - Facilitate integration points
- DEVELOP

Growth Areas

- NASA Collaborations
 - NOAA access
 - University for rotational talent
- SIMOR
 - Inter-agency
 - Policy-makers
- IOOS/GCOOS
 - Institutional NOAA integration point
 - Logical NASA integration point
- Competitive Partnering
 - ROSES & other calls
 - MSFC: Expanding on Mobile Bay projects
 - COAST & Worldwind

Conclude

- Coastal Mgt & RPC
 - RSM, RSM+, CREWS
 - Healthy Forest
- Complete GOMA Pilot Project in Mobile Bay
- Postpone 7-3-1 Cycle Until FY10
 - Steering Committee review
 - May have 4 implementation projects rather than a recycle
- Grants Mgt

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