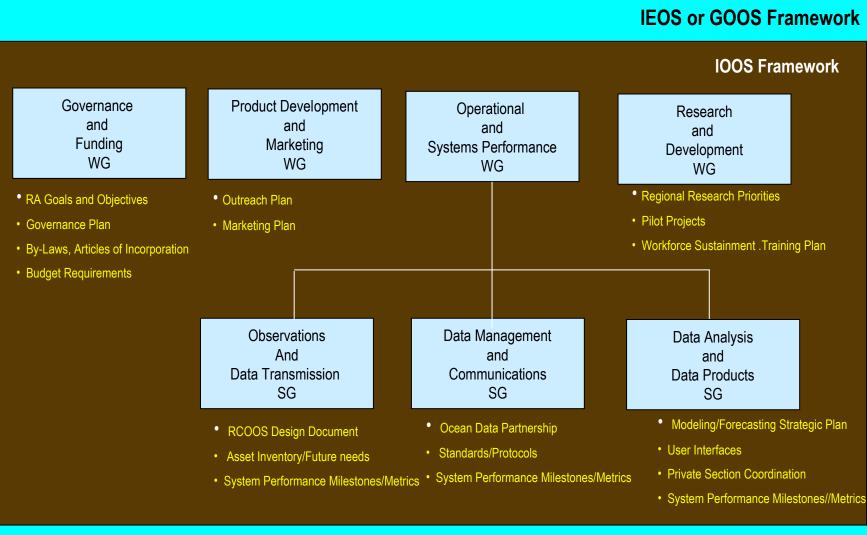
Business Plan Overview

The SouthEast Coastal Ocean Observing Regional Association (SECOORA)



SECOORA Planning Framework

GEOSS Framework



C. Hood

Business Plan – structure

- Executive summary
- Business concept/mission
- Operations Plan
 - Observations and Data Transmission
 - Data management and communication
 - Data analysis and modeling
- Marketing Plan
- Research and Product/Service Development
- Appendices (governance, conceptual design, details of operations and marketing plans)



Business Plan – Concept and Mission

Concept and Mission

- Not-for-profit entity to provide information in a common manner based on sound scientific practice.
- Purpose: A partnership of and fiscal agent for interested parties to develop and operate an RCOOS that provides relevant coastal information to address user needs
- Defines location of RA head-of-tide to EEZ boundary in NC, SC, GA and FL; recognizes overlap with adjoining RAs
- Defines initial objectives: safe and efficient marine operations (e.g. search and rescue), preserving and restoring healthy ecosystems (e.g. fisheries), predicting and mitigating against coastal hazards (e.g. coastal inundation)



Business Plan -> Operations Plan structure

- For each subsystem
 - Current state
 - Desired future state and how to achieve transition
 - ➢ Gap analysis
 - Controls
 - Performance measures
 - ➢ Issues



Observations and Data Transmission Subsystem

H. Seim (chair), A. Alvera-Azcarate, A. Wren, B. Weisberg,
B. Bendix, C. Merz, D. Savidge, E. Buckley G. Morrison, J. Law, J. Cleary, J. Nelson, J. Morrison, L. Leonard, M. Neely, M. Muglia, N. Shay, P. Lumpkin, R. Harrell, R. Styles, R. Jahnke, R. Cole, S. Vargo

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Observations and Data Transmission ('05 sticky dots)

	Current State	Transition Actions	Desired Future State (1 yr)	Transition Actions	Desired Future State (3-5 yrs)
Operations	 Autonomous systems running quasi-independently Most systems research oriented and marginally "operational" 	 Initiate observation asset inventory Characterize existing observation procedures/protocols Define./instantiate obs- related testbed activities Generate Operations Plan for confederated obs. system 	 Existing obs resources/assets inventoried Focused testbeds addressing key obs-related applications/constraints Preliminary Obs operations plan in place 	 Generate Operations plan for integrated observation system Generate Observation Metrics Plan Develop SLAs commensurate with support and expected use Complete engineering trades 	 > Optimized Obs operation strategy in place > Cost/benefit metrics routinely collected > Each assets works within a reasonable Service Level Agreement
Infrastructure	 Large number of assets in place, but not effectively managed from an enterprise perspective Low bandwidth connections to instrumentation 	 Generate Preliminary Development Plan for coordinating/evolving federated obs assets Set up effective cross-system linkages 	 All obs assets inventoried and managed Coordinated regional approach for obs procurement/maintenance Clear link between required obs infrastructure and desired end use 	➤Develop Enterprise Obs Plan that response to desired architecture and leverages economies of scale	>Optimized observations infrastructure in place
Relationships and Procedures	 Governance process still in development Roles and responsibilities between stakeholders not well defined Obs protocols not standardized 	 Ratify TOR Use TOR to set up long-term governance structure Articulate obs roles ands resp Generate 5-year Strategic Plan Generate work plan for this year Set up committee to oversee certification process Collect lesson learned from other RAs 	 >Effective governance mechanism in place >Certification effort underway > 5 year Strategic Plan in development with section on Obs/Data Trans. >Viable annual work plan in place > Effective liaisons in place with other RAs and relevant groups 	 ≻Generate an RA obs development plan consistent with top-down and bottom-up drivers ≻Generate SECOOR obs protocol 	 Fully certified RA SECOORA recognized as intellectual leader in RA development in obs coordination
Resources	 High dependency on earmarks Limited coordination between projects Sustainment activities in infancy 	≻Generate viable Business Plan for obs sustainment	 Generate viable Value proposition Generate plan to diversify funding sources for obs sustainment 	➤Generate and execute tactical plans for ob sustainment consistent with the overall business strategy	 SECOORA can effective compete for grants, RFP, other opportunities related to obs sustainment There is significant local and private sector investment in obs sustainment

Operations

Intra-regional coordination of data collection, formatting and QA/QC

Infrastructure

Inventory of assets, personnel, and redundancy

Prioritization of infrastructure replacement

 \succ Expansion plans

Relationships

Greater coordination among all partners and activities

Resources

Transfer of certain products to operation[s? al agencies]

Define requirements and funding levels

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Will coordinate observing and to the extent possible support data collection related to SECOORA priorities in the SE

Current state: -variety of ongoing observing activities -inventory of regional observing assets – static at present

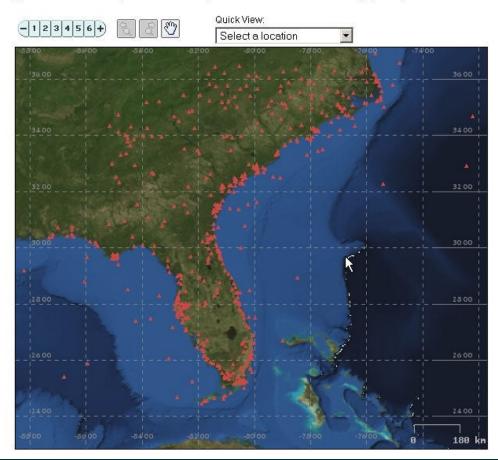


Station and Variable Inventory

This map is a static overview of known observation stations monitoring the coastal ocean of the Southeast US.

The dataset for this map is also available as an Excel Spreadsheet • ESRI Shapefile

This map and dataset were created as an improvement the SECOORA Asset map completed in Fall 2005. The data were furth single dataset containing ~543 stations. Questions? Contact Jesse Cleary (jcleary at email dot unc dot edu).



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Year 1 goals:

-should move to dynamic inventory (that includes sensor metadata) to monitor system-wide performance

-define desired initial sampling scheme consistent with priorities

-compile operating requirements from existing programs

-develop operating agreements (SLAs?)

-establish pilot programs (on system accuracy, new observing technologies...)

-coordinate planning with National Backbone





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Year 5 vision:

- -a robust, effective observing system has evolved through testing, gap analysis
- -performance and maintenance requirements are well established
- -established logistic and infrastructure support coordinated with Backbone resources
- -automated monitoring of system components and measures of system performance (virtual operations center)
 -ecological and biogeochemical sensing systems increasingly operational
- -regional technical and engineering expertise established and coordinated



Gap Analysis:

-initial – comparison of desired outcome of physical state estimation system with existing inventory

-test utility of the observing system to specific applications in pilot studies
-re-evaluate based out testing outcomes
-repeat procedure for non-physical observing system



Controls:

-timely response to repairs, maintenance, tactical/adaptive sampling->distributed network of support teams along coastline -balance redundancy/timeliness against costeffectiveness of centralized operations -should consider vessel support, onshore infrastructure, personnel, existing capabilities -should require adherence to reporting (e.g. metadata) and QA/QC standards



Performance measures:

-use virtual operations center to monitor system components

-VOC to provide feedback on performance to data providers

-flag data gaps, track failure point, use to target evaluation and upgrade efforts

-short list of metrics: # of reporting stations/sensors, # of obs/month, transmission delay, accuracy, # of streams including QA/QC



Issues:

-coordination with National Backbone and among regional partners on:

- -location of assets
- -regional priorities
- -logistic support ships, comms, calibrations
- -robust regional satellite remote sensing
- -developing and testing new observing technologies
- -test-bed support
- -sufficient pool of trained personnel

