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Governors' South Atlantic Alliance (GSAA) Issue Area Project and Resource Needs "Snap Shot"

This Snap Shot is designed to collect brief information on the prospective projects and resource needs of the GSAA Issue Area Technical Teams to progress the GSAA Action Plan and Implementation Plan.

Issue Area: Clean Coastal and Ocean Waters

Project Title: Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.

Action to be Addressed: *CCOW 2A Implementation Step 1) Acquire contiguous datasets and catalog regionally mapped data and initiatives (i.e. LiDAR) to identify gaps on regionally contiguous datasets that may be useful in modeling climate changes impacts;*

Implementation Step 2) Map regional hotspots for saltwater intrusions and other high priority water quality issues; and

Implementation Step 3) Use existing GIS layers to model climate change impacts on land cover for proximal watersheds of coastal waters and tributaries in the South Atlantic Region.

Resources Needed: Cost requirements to be determined once data needs are presented for accomplishing Implementation Step 1). It is anticipated that the HVA and RIMS Project Teams would be able to provide expertise on project.

Expected Timescale: It is estimated to take one year from start date to acquire needed data. Analysis of data to get into regional dataset format to be added to RIMS portal would require up to two years from start date.

Description

Background: *The CCOW has identified climate change mitigation and adaptation strategies to be an important priority not only for the CCOW team, but for other IATTs as well. CCOW 2A and included Implementation Steps would address this priority issue. Acquiring the necessary datasets and putting them into a regional format will allow for the data to be viewed on the GSAA Portal and used in management decisions.*

Objectives: *Data needed to support CCOW 2A would be collected and compiled into a regional dataset format. Data would then need to be analyzed to address issues related to water quality issues in the region. Once this analysis is completed, the datasets could be added to the GSAA Portal to be utilized in management decisions.*

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Any new datasets would then need to be housed and served by an appropriate entity with the capabilities to update datasets as needed. Existing datasets could be linked to existing locations through the GSAA Portal.

Approach/Methods: Once the CCOW compiles a list of needed data, an entity with technical expertise and knowledge would be needed to analyze the data to get it into a format that is useful for regional analysis.

Potential Partners:

GCRC Water Quality Monitoring Portal: <http://www.gcrc.uga.edu/wqmeta/>

USGS

NOAA/CCEHBR

DHEC

Georgia Geologic Survey

HVA Project Team

RIMS project Team