

Snap Shot Response Matrix - Working Waterfronts

Snap Shot Title	Are you aware of funding/grant programs, within your organization or elsewhere, that could support this snap shot?				
	GSAA Admin Kristine Cherry	Sea Grant Rick Devoe	GADNR Brad Gane	SCDNR Robert Boyles	NCDENR Michelle Duval
<b>Issue Area: Working Waterfronts</b>					
Identify and inventory contemporary and historical, recreational working waterfront sites as well as public access infrastructure and support facilities		Some information may already be available through the CZM agencies, which could be primary sources/avenues for funding this work.	GADNR Marine Fisheries Section documents recreational sites and public access infrastructure as part of its ongoing Access Program under USFWS Sportfish Restoration funding. Contact: Shawn Jordan, (Shawn.Jordan@dnr.state.ga.us) or Bobby Goodman, (Goodman@dnr.state.ga.us)		
Identify areas that experience chronic navigational problems due to sedimentation or other navigational hindrances that could be alleviated by dredging.	The GSAA can partially fund travel and meetings for IATT members to meet with each other or attend relevant conferences/workshops.	See answer on right	Expense for GA state lead can be funded from CZM Program.		Didn't the GSAA build in some "minigrant" \$\$ for the IATTs for items such as this?
Working Waterfront Community Resource Clearinghouse	GSAA Phase 3 award from the NOAA Regional Ocean Partnership Grant includes an IATT Seed Fund for up to \$2500 per team to support Action Plan implementation, such as the proposed outreach materials.	SCSGC defers to the CZM folks on this one. GA SG could hire an intern to send outreach materials to our stakeholders		SC Boating Infrastructure Grant Program (BIG-P) potential? Contact: Scott Meister (843-953-9062; meisters@dnr.sc.gov)	

Snap Shot Title	Are there resources (e.g. funding, staffing, internship) in your organization that could be made available to this snap shot?				
	DOI Eric Strom	USMC Paul Friday	Sea Grant Rick Devoe	GADNR Brad Gane	SCDNR Robert Boyles
<b>Issue Area: Working Waterfronts</b>					
Identify and inventory contemporary and historical, recreational working waterfront sites as well as public access infrastructure and support facilities	Gary Merrill, USGS Geospatial Liaison, SE Region, SC WSC, glmerrill@usgs.gov (O) 803-750-6124 (C) 803-309-9516	MCIEAST is working to collect military mission footprint information from each Service in the SE. That data will then be merged into a combined military mission footprint and shared with SAA	SCSGC and GASG have GIS expertise on staff to do this - but funding would have to be provided. There is considerable expertise at state universities and colleges that could also be tapped		Yes--potentially. Contact: Robert Boyles (843-953-9304; boylesr@dnr.sc.gov)
Identify areas that experience chronic navigational problems due to sedimentation or other navigational hindrances that could be alleviated by dredging.			SCSGC will commit to support a SCSGC staff person (likely our coastal processes extension specialist) to attend the conference. GA SG could also send an extension person (with GIS expertise likely) to attend this meeting given full travel support funds. NCSG is aware of interests from ECU (grad student) to potentially investigate various aspects of working waterfronts for NC. It is not clear what the status of this student's interest is at this time as she has been out of the country for the summer.	Expense for GA state lead can be funded from CZM Program.	

Snap Shot Title	Is there an ongoing project/program in your organization connected to this snap shot that could be used to support implementation?					
	SECOORA Debra Hernandez	DOI Eric Strom	NOAA Ginny Fay	Sea Grant Rick Devoe	FLDEP Kelly Samek	GADNR Brad Gane
<b>Issue Area: Working Waterfronts</b>						
Identify and inventory contemporary and historical, recreational working waterfront sites as well as public access infrastructure and support facilities	Depending on the timing, the RIMS team would collaborate. The student could create the GIS layers in the appropriate format and the layers could be brought into the Portal. SECOORA has a significant number of academic members. We can use this network to try to identify students to conduct the work.	SC Statewide LIDAR project 3D Elevation Program (3DEP) National Hydrography Dataset (NHD)  USGS Water/NHD Community of UsersUSFWS Pelican Island National Wildlife Refuge Proposed Land Exchange -Refuge Manager and USFWS staff are currently evaluating the establishment of a visitor center in the historic waterfront district of the City of Sebastian, FL. POC -- Charlie Pelizza, Refuge Manager, at charlie_pelizza@fws.gov/ 772-581-5557 x.7	Virginia and Maryland Sea Grant programs have contracted to conduct WW inventories for their states. They are wrapping up the VA project and NC SG may be able to get a draft of the methodology and report if this would be of interest to the GSAA. NC SG discussed the possibility of doing something similar for NC, if it is something that would be put to good use. Maybe a regional effort would make sense and provide a consistent database for all the states. Also, there is this national effort : <a href="http://www.wateraccessus.com/">http://www.wateraccessus.com/</a>		Potentially w/ FI Coastal Management Program	GADNR Marine Fisheries Section supports a Access program through funding from USFWS. Staff could provide data in support of this snap shot. Contact: Shawn Jordan, (Shawn.Jordan@dnr.state.ga.us) or Bobby Goodman, (Goodman@dnr.state.ga.us)
Identify areas that experience chronic navigational problems due to sedimentation or other navigational hindrances that could be alleviated by dredging.		USFWS Cape Romain NWR and Savannah NWR may have ongoing projects that support/complement this snap shot. Cape Romain NWR POC - Raye Nilius, Project Leader, at raye_nilius@fws.gov/843-928-3264 x.217. Savannah NWR POC - Jane Griess, Project Leader, at jane_griess@fws.gov/843-784-9911.		See answer on left	Potentially w/ FI Coastal Management Program	
Working Waterfront Community Resource Clearinghouse	We would recommend that they should not create a new/separate web portal for this. Instead the info could be within the RIMS portal. We could come up with a really cool map based interface where users could click on a county and the information the WW team identified (e.g. tax incentives, financing opportunities) could be accessed. RIMS - D. Hernandez or J. Dorton, SECOORA		<a href="http://coastalsmartgrowth.noaa.gov/gettingstarted/welcome.html">http://coastalsmartgrowth.noaa.gov/gettingstarted/welcome.html</a> <a href="http://www.csc.noaa.gov/port/">http://www.csc.noaa.gov/port/</a>		Potentially w/ FI Coastal Management Program	Suggest using GSAA Portal, not a new one.

	SCDHEC Barbara Neale	SCDNR Robert Boyles	NCDENR Michelle Duval
<b>Issue Area: Working Waterfronts</b>			
Identify and inventory contemporary and historical, recreational working waterfront sites as well as public access infrastructure and support facilities	DHEC OCRM has done recreational inventories of boat ramps in the past..as well as beach access information that could be incorporated into this effort.		I think many of these data layers exist at the state level, certainly public access sites (boating, beach access); NC Wildlife Resources Commission (boating access), Erik Christofferson (erik.christofferson@ncwildlife.org) <a href="http://www.ncwildlife.org/Boating/WheretBoat.aspx">http://www.ncwildlife.org/Boating/WheretBoat.aspx</a> ; NC Division of Coastal Management (beach access), John Thayer (john.thayer@ncdenr.gov); NC Division of Marine Fisheries, Waterfront Access and Marine Industry Fund (WAMI) grants were issued to provide commercial/recreational access and protect historical working waterfront sites (contact: tricia.smith@ncdenr.gov).
Identify areas that experience chronic navigational problems due to sedimentation or other navigational hindrances that could be alleviated by dredging.	I can only think of the AIWW as a specific area where this is a problem that dredging would be appropriate.		Coordinate with NC DMF (Michelle Duval or Chris Batsavage) regarding inlet/connecting channel shoaling as well.
Working Waterfront Community Resource Clearinghouse		Yes. Scott Meister (see contact information at left)	Coordinate with RIMS on mapping piece; contact Dr. Mike Orbach (mko@duke.edu) as this would be an ideal master's project for the Duke CEM program

Snap Shot Response Matrix - Working Waterfronts and Disaster-Resilient Communities

Snap Shot Title	Are you aware of funding/grant programs, within your organization or elsewhere, that could support this snap shot?					
	GSAA Admin Kristine Cherry	DOI Eric Strom	Sea Grant Rick Devoe	FLDEP Kelly Samek	GADNR Brad Gane	SCDNR Robert Boyles
<b>Issue Area: Working Waterfronts and Disaster-Resilient Communities</b>						
Develop adaptation strategies facing water-dependent uses in vulnerable coastal areas	GSAA Phase 3 award from the NOAA Regional Ocean Partnership Grant includes an IATT Seed Fund for up to \$2500 per team to support Action Plan implementation, such as the proposed guidance document.		We should all leverage our limited resources to support this student - see note on right. But far more than a grad student is needed to adequately develop strategies based on true cost/benefit analyses of various actions taken or not.		GA CZM Coastal Incentive Grant for GA portion, specifically, but could be developed broadly to be applicable to the region.	
Transfer of Knowledge: Clean and Resilient Marina Program	GSAA Phase 3 award from the NOAA Regional Ocean Partnership Grant includes an IATT Seed Fund for up to \$2500 per team to support Action Plan implementation, such as the proposed webinar.	UNC-Wilmington (Micheal Mallin) has done a lot of research on the impacts of marinas on water quality, US Sailing has a clean regatta program and would be an excellent connection to many of the local clubs	The Clean Marina Program, which funds these efforts in every state.	<ul style="list-style-type: none"> <li>EPA's Pollution Prevention Grant Program to work in our Clean Marina Program and with the working waterfronts in Florida. These funds are available to any state in EPA Region 4 as long as the projects focus on some type of pollution prevention strategy – which both of these initiatives would depend on the scope. Any information gained from the projects that we currently have funded through our EPA grants could definitely be shared with other states.</li> <li>EPA also has funding for direct source reduction projects through their Source Reduction Grant Program that would possibly apply as well. These funds are usually geared to very specific projects.</li> <li>Florida Inland Navigation District (FIND) for both our Clean Vessel Act and Clean Marina Programs.</li> </ul>	Clean Vessel Act funding via USFWS. Program Manager: Shawn Jordan (Shawn.Jordan@dnr.state.ga.us)	Clean Marina Program/Clean Vessel Program potential; Contact: Scott Meister (contact information above)

Snap Shot Title	Are there resources (e.g. funding, staffing, internship) in your organization that could be made available to this snap shot?			
	Sea Grant Rick Devoe	FLDEP Kelly Samek	GADNR Brad Gane	SCDHEC Barbara Neale
<b>Issue Area: Working Waterfronts and Disaster-Resilient Communities</b>				
Develop adaptation strategies facing water-dependent uses in vulnerable coastal areas	SCSGC will offer a challenge grant (of no more than \$1.5K) to the other partners to co-support one grad student for this. GA SG has no funds available to support activities in this area beyond what we are already doing in St. Marys and Tybee Island	Potentially, Dept. of Economic Opp. is working accomplish this snapshot. (Julie Dennis)	GA CZM is conducting work now that touches on vulnerability of water-dependent uses in coastal GA. Contact Jill Andrews (Jill.Andrews@gadnr.org)	
Transfer of Knowledge: Clean and Resilient Marina Program			Staff could provide a summary of their issues, progress, and future efforts to support the snapshot	SC has a clean marina program that has shifted from DHEC to DNR. So there is awareness and expertise in both agencies with regard to this topic that I think could be drawn upon.

Snap Shot Title	Is there an ongoing project/program in your organization connected to this snap shot that could be used to support implementation?					
	TNC Mary Conley	DOI Eric Strom	NOAA Ginny Fay	Sea Grant Rick Devoe	FLDEP Kelly Samek	GADNR Brad Gane
<b>Issue Area: Working Waterfronts and Disaster-Resilient Communities</b>						
Develop adaptation strategies facing water-dependent uses in vulnerable coastal areas	TNC Disaster Resilience Tool ( <a href="http://www.coastalresilience.org/">http://www.coastalresilience.org/</a> ) may fit with goal of this snap shot. Contact: Mary Conley (mconley@tnc.org)/Zach Ferdana (zferdana@tnc.org).	Albemarle Sound Pilot Project, <a href="http://nc.water.usgs.gov/projects/asnmn/">http://nc.water.usgs.gov/projects/asnmn/</a> , Michelle Moorman, mmoorman@usgs.gov, 919-571-4013  USFWS Cape Romain NWR may have ongoing projects that support/complement this snap shot. Cape Romain NWR POC - Raye Nilus, Project Leader, at raye_nilus@fws.gov/843-928-3264 x.217.	Southeast and Caribbean Climate Community of Practice (includes other resilience and adaptation related resources, not just for climate); could also be a model for a Community of Practice site for the Working Waterfronts snapshot for a Community Resource Clearinghouse (see above) <a href="http://stormsmart.org/groups/sec-ccop/">http://stormsmart.org/groups/sec-ccop/</a>	No for SC SG - yes for GA SG. Through NSGO, we are involved in two coastal community adaptation initiatives - one in tybee island and another in st. marys. The st.marys project is cbeing conducted in partnership with NC SG, where we are working in Hyde County, NC>	Yes, Julie Dennis & Brad Stombock	Jill.Andrews@gadnr.org
Transfer of Knowledge: Clean and Resilient Marina Program			<a href="http://coastalmanagement.noaa.gov/marinas.html">http://coastalmanagement.noaa.gov/marinas.html</a>		Yes, Brad Stombock – brad.stombock@dep.state.fl.us - FL DEP Clean Marina, Clean Boatyard and Clean Marine Retailer Programs. They have worked closely with GOMA over the last year to develop a comprehensive Clean and Resilient Marina Program for the Gulf coast region. This program could easily be amended for the Governors' South Atlantic Alliance participants and implemented as part of this project. All materials have already been prepared and a manual is already in use. There has been quite a bit of interest from our marinas in obtaining a resiliency designation. FL Sea Grant has been working on the resilient marina program as well.	Clean Vessel Act via USFWS. Expertise may be provided in support of the snapshot.

	SCDHEC Barbara Neale	SCDNR Robert Boyles	NCDENR Michelle Duval
<b>Issue Area: Working Waterfronts and Disaster-Resilient Communities</b>			
Develop adaptation strategies facing water-dependent uses in vulnerable coastal areas			coordinate with Dr. Mike Orbach (mko@duke.edu), Director of Duke CEM program; ideal fit for this program.
Transfer of Knowledge: Clean and Resilient Marina Program	There is a Clean Marina program that has shifted from DHEC to DNR. So I think this effort could be expanded to include the resilient aspect.	Yes. Scott Meister (see contact information above left)	Ditto above -- if looking for someone to put together the webinar at the direction of a steering group from the states.

**Snap Shot Response Matrix - Disaster-Resilient Communities**

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Snap Shot Title	Are you aware of funding/grant programs, within your					
	GSAA Admin Kristine Cherry	TNC Mary Conley	SECOORA Debra Hernandez	DOI Eric Strom	EPA Jennifer Derby	Sea Grant Rick Devoe
<b>Issue Area: Disaster-Resilient Communities</b>						
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	GSAA Phase 3 award from the NOAA Regional Ocean Partnership Grant includes an IATT Seed Fund for up to \$2500 per team to support Action Plan implementation, such as the proposed guidance document.	Primarily for on-the-ground projects: NOAA Coastal Restoration Partnership ( <a href="http://www.habitat.noaa.gov/restoration/programs/crp.html">http://www.habitat.noaa.gov/restoration/programs/crp.html</a> ); National Fish and Wildlife Foundation - Environmental Solutions for Communities, Five Star and Urban Waters Restoration, etc. ( <a href="http://www.nfwf.org/Pages/whatwedo/conservationprograms_grantprograms.aspx">http://www.nfwf.org/Pages/whatwedo/conservationprograms_grantprograms.aspx</a> ); Atlantic Coast Fish Habitat Partnership ( <a href="http://www.atlanticfishhabitat.org">http://www.atlanticfishhabitat.org</a> )		Town of Duck is implementing natural shoreline program in their town and interested in showing benefits of the natural shorelines, Carolyn Currin at NOAA and John Fear with the NOAA NERR program are leaders on this initiative in the state of NC	Potentially fundable (in part) under EPA's competitive Wetland Program Development Grant (WPDG) program. Next solicitation will be in Spring 2014. Awards generally from \$150K - \$500K. Contact: Morgan Jackson 404 562-9393; <a href="mailto:jackson.morgan@epa.gov">jackson.morgan@epa.gov</a> .	Again, maybe we should all leverage our limited resources to support the development of the guidance document (at a total of \$10K) - this would be a nice product. However, once the document is in place, it seems like the state CZMs, NGOs, and local communities will need to step up and move the ball forward as outline in the snapshot. Not sure what the pilot projects are and why they are so costly, so cannot comment on possible funding for those. Discussion about poillicy and regulations seems to be within the responsibilities of the agencies already and should not require additional funds. THIS is not a straight-forward project however as there has been no research to determine whether sediments no longer eroding because of shoreline protection will compromise the future integrity of coastal marshes. Sediment budgets - sources and sinks - need to be ascertained for the SE and the relative contribution of eroding shorelines determined.
Predict future shoreline migration patterns and future shoreline vulnerability, in terms of property and habitat loss, given current and future development, shoreline stabilization, and sea level rise.			I think that a lot of this could be used within the portal; work with HVA Project group	Reide Corbette (ECU) has done extensive work on this issue for the Neuse River and the Albemarle-Pamlico Estuary system, the NC Division of Coastal Mapping has recently mapped and classified all the coastal shorelines in north Carolina (including the estuary), USACE Duck Field research facility (Heidie Wadman) does extensive work on this topic for the beaches)		This is really not something that R&D funding agencies support, because it is not R&D. It much more susitable for contractors/engineering companies to do. Could possibly be incorporated into each of the state's CZM five-year plans if it meets their needs for shoreline management efforts. GA SG is using some of its research funds to support this type of research
<b>Issue Area: Disaster-Resilient Communities</b>						
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	EPA recently funded GA to begin work on Living Shorelines through Region 4 Wetland Program development grants.	Yes; Nancy Hadley (843-953-9841)	Possibly Clean Water Management Trust Fund (Richard Rogers, <a href="mailto:richard.rogers@ncdenr.gov">richard.rogers@ncdenr.gov</a> , <a href="http://www.cwmtf.net/">http://www.cwmtf.net/</a> )			
Predict future shoreline migration patterns and future shoreline vulnerability, in terms of property and habitat loss, given current and future development, shoreline stabilization, and sea level rise.	Nate Nibelink (UGA) and Rachael Guy (UGA) are exploring sea level rise impacts on red drum and blue crab habitat. Also Phase 1, Step 1 - GA has recently received EPA Wetland Program Development Grants to begin work on Living Shorelines; Phase 2, Steps 1 and 2 - GA is using CZM Section 309 federal funding to expand the pilot project GA coastwide; Phase 3, Step 1 - GA is using CZM funding to accomplish this task in GA; and Phase 4, Steps 1, 2, and 3 - GA has awarded CZM federal grant funds to create marsh, stabilization and elevation data layers. Grant funding is used to analyze sea level rise with AMBUR outputs. Contact Jill Andrews ( <a href="mailto:jill.andrews@gadnr.org">jill.andrews@gadnr.org</a> ).					

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	TNC Mary Conley	SECOORA Debra Hernandez	DOI Eric Strom	EPA Jennifer Derby	NOAA Ginny Fay	USMC Paul Friday
<b>Issue Area: Disaster-Resilient Communities</b>						
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	Potential internship opportunity if a common need is identified between the DRC IATT and TNC's regional coastal vulnerability strategy. Opportunity to engage TNC chapter staff participating in on-the ground projects with the DRC IATT. Initial Contact: Mary Conley ( <a href="mailto:mconley@tnc.org">mconley@tnc.org</a> ).			Potentially fundable (in part) by Wetland Program Development Grant(s), through the competitive grant process. Contact: Morgan Jackson 404 562-9393. WPDGs are awarded as cooperative agreements; EPA provides technical assistance to grantees as part of grant oversight.	NC NERR / NC DENR new workshop for Realtors and Land Use Planners on Value, Regulations, and Stabilization of Estuarine Shorelines. NOAA OCRM/CSC would like to see this expanded to other SE states and might be interested in working with the GSAA to help make this happen.	MCIEAST does participate within SERPPAS to assess Living Shoreline opportunities
Predict future shoreline migration patterns and future shoreline vulnerability, in terms of property and habitat loss, given current and future development, shoreline stabilization, and sea level rise.		No specific resources, although there are SECOORA academic members that may have students that could assist with this.	Gary Merrill, USGS Geospatial Liaison, SE Region, SC WSC, <a href="mailto:gmerrill@usgs.gov">gmerrill@usgs.gov</a> (O) 803-750-6124 (C) 803-309-9516			
<b>Issue Area: Disaster-Resilient Communities</b>						
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	SCSGC will offer a challenge grant (of no more than \$1.5K) to the other partners to co-support one grad student for the guidance document. The costs of conducting adequate erosion / sediment budgets research for all coastal marshes of the SE will cost upwards of \$500k to \$1M. NCSG would need additional detailed information regarding the goals and foci of this effort before providing input in this area.	Current EPA grant supports shoreline development GIS data development that could be fed into regional effort.	DHEC OCRM has staff that could help with this effort to evaluate soft shoreline measures.	Yes		
Predict future shoreline migration patterns and future shoreline vulnerability, in terms of property and habitat loss, given current and future development, shoreline stabilization, and sea level rise.	T. GA SG is funding some of this research but all funds through 2016 are committed already.	See previous. Contact is Jill Andrews ( <a href="mailto:jill.andrews@gadnr.org">jill.andrews@gadnr.org</a> )				

**Snap Shot Response Matrix - Disaster-Resilient Communities**

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Snap Shot Title	Is there an ongoing project/program in your organization connected to this snap shot that could be used to support implementation?					
	TNC Mary Conley	DOI Eric Strom	EPA Jennifer Derby	NOAA Ginny Fay	Sea Grant Rick Devoe	FLDEP Kelly Samek
<b>Issue Area: Disaster-Resilient Communities</b>						
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	1) TNC chapters in NC, SC, GA and FL are working with partners to implement alternative shoreline demonstration projects. Efforts are underway to create a data base of South Atlantic on-the-ground restoration and shoreline projects with initial focus on TNC projects and expansion to interested partners. Contact: Joy Brown (joy_brown@tnc.org). 2) TNC funded a policy review related to oyster restoration and living shorelines across the four GSAA states which is available. Contact: Mary Conley (mconley@tnc.org)	*USFWS Coastal Program may have ongoing projects that would support/complement this snap shot. Regional POC -- Cynthia Bohn at cynthia_bohn@fws.gov/404-679-7122. *USFWS Partners for Fish and Wildlife Program may have ongoing projects that would support/complement this snap shot. Regional POC -- Dr. Ronnie Haynes at ronnie_haynes@fws.gov/404-679-7138. *North Carolina Coastal Federation, nonprofit organization in Hyde County, NC (Mattamuskeet Drainage Association), may have ongoing projects related to this snap shot. POC - Todd Miller, Executive Director, can be reached at 252-393-8185. *USFWS Florida Keys Refuge Complex - project to achieve a greater understanding of limiting factors on upslope migration of coastal mangrove communities is ongoing and collaborators have installed several RSET positions to continue and expand long term monitoring of sea level rise and upslope migration of habitat. POC collaborators: Mark W. Hester and Jonathan M. Willis, Coastal Plant Ecology Lab, Univ. of LA, Lafayette, LA.	EPA's Enhancing State and Tribal Programs (ESTP) initiative helps States and Tribes build programmatic capacity to protect and restore wetlands. ESTP participants can receive technical and financial assistance from EPA. Contact: Diana Woods, 404 562-9404; woods.diana@epa.gov. ( <a href="http://water.epa.gov/type/wetlands/estp.cfm">http://water.epa.gov/type/wetlands/estp.cfm</a> ).	hot issue -- much discussion about living shorelines going on w/in NOAA right now; new cross-Line Office internal working group just formed around NOAA's role in living shorelines, led by NMFS Office of Habitat Conservation. Numerous resources available, including this site <a href="http://www.oyster-restoration.org/living-shorelines/">http://www.oyster-restoration.org/living-shorelines/</a>	No for SC SG, but partially yes for GA SG. A project out of GA Southern and SkIO are examining shoreline erosion for backsides of barrier islands as well as hardened shorelines. It may be possible to use this data to get some idea of the effect of shoreline hardening on marsh sediment budgets and availability	Gary Raulerson, FDEP
Predict future shoreline migration patterns and future shoreline vulnerability, in terms of property and habitat loss, given current and future development, shoreline stabilization, and sea level rise.	TNC Disaster Resilience Tool ( <a href="http://www.coastalresilience.org/">http://www.coastalresilience.org/</a> ) is being used in the Gulf of Mexico and Northeast and helps look at a combination of natural and community risk and vulnerability to coastal hazards. Potential to look a viability in South Atlantic. Contact: Zach Ferdana (zferdana@tnc.org)	USGS developed a storm surge model following Hurricane Irene for all of coastal North Carolina. SC Statewide LiDAR project; 3D Elevation Program (3DEP); National Hydrography Dataset (NHD); USGS Water/NHD Community of Users Synthesis of High and Low Marsh Habitat Mapping, Vulnerability and Responses to Sea-Level Rise in the South Atlantic Region and Improved urban growth models and smart growth scenarios for the South Atlantic. Contact: Rua Mordecai (rua@southatlanticlcc.org). USFWS Coastal Program may have ongoing projects; Regional POC -- Cynthia Bohn at cynthia_bohn@fws.gov/404-679-7122. *USFWS Partners for Fish and Wildlife Program may have ongoing projects that would support/complement this snap shot. Regional POC -- Dr. Ronnie Haynes at ronnie_haynes@fws.gov/404-679-7138. *USFWS Florida Keys Refuge Complex - project to achieve a greater understanding of limiting factors on upslope migration of coastal mangrove communities is ongoing and collaborators have installed several RSET positions to continue and expand long term monitoring of sea level rise and upslope migration of habitat. POC collaborators: Mark W. Hester and Jonathan M. Willis, Coastal Plant Ecology Lab, Univ. of LA, Lafayette, LA. *Florida Keys Marine Adaptation Planning - project develops a method of spatial scenario simulations in marine environment. Develops a set of "alternative futures" and examine their effects on natural resources. POC - Mike Flaxman, Geodesign Technologies Inc, San Francisco, CA, or Steve Traxler, USFWS Vero Beach Ecological Services Field Office, FL, at steve_traxler@fws.gov.		Silver Jackets work in the region??  <a href="http://csc.noaa.gov/digitalcoast/tools/slrviewer">http://csc.noaa.gov/digitalcoast/tools/slrviewer</a>	No - just what the GSAA, through the SCSGC, is supporting right now. GA SG is funding research in this area.	Gary Raulerson, FDEP
<b>Issue Area: Disaster-Resilient Communities</b>						
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	GADNR Brad Gane	SCDHEC Barbara Neale	SCDNR Robert Boyles	NCDENR Michelle Duval		
Facilitate the use of soft/hybrid shoreline protection measures throughout the four states	Yes, see previous EPA grant description.	There are ongoing efforts DHEC is participating in with SERPPAS working group and also working with the ACoE to streamline the permitting process.	Yes--SCORE program. Contact Nancy Hadley (contact information at left)	Interagency work between NC DMF (Anne.Deaton@ncdenr.gov) and NC DCM (Mike.Lopazanski@ncdenr.gov) to promote use of alternate shorelines. Ongoing funded research by Dr. Charlest H. "Pete" Peterson (cpeters@email.unc.edu) to determine fisheries/WQ habitat impacts of these oyster sills)		
Predict future shoreline migration patterns and future shoreline vulnerability, in terms of property and habitat loss, given current and future development, shoreline stabilization, and sea level rise.	CZM staff resources are engaged in this project in GA.	DHEC OCRM maps shoreline movement for our beaches and I believe we have an effort to look at estuarine shorelines. So these efforts could be built upon for this effort. Also DHEC participated in the Silver Jacket program and Georgia Southern to map modern and historical estuarine shorelines and analyze the rates of shoreline change. Also DHEC is currently working with a contractor to develop a revised methodology for the calculation of erosion rates at tidal inlets.		NC Coastal Habitat Protection Program reviews/updates. Contact Anne.Deaton@ncdenr.gov or Christine.Jensen@ncdenr.gov		

**Snap Shot Response Matrix - Clean Coastal and Ocean Waters**

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Snap Shot Title	Are you aware of funding/grant programs, within your organization or elsewhere, that could support this snap shot?					
	GSAA Admin Kristine Cherry	SECOORA Debra Hernandez	DOI Eric Strom	EPA Jennifer Derby	Sea Grant Rick Devoe	GADNR Brad Gane
<b>Issue Area: Clean Coastal and Ocean Waters</b>						
Clean Water Act Implementation Process Analysis: How are states implementing and are there opportunities for improved efficiencies?						
Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.		Clearly called out coordination with RIMS. Need map hotspots for saltwater intrusion, use GIS layers and model climate change impacts on land and watersheds.	Jerry McMahon at the SE CSC is compiling a database of monitoring programs for the entire southeast. Joan Sheldon at the University of GA has developed a water quality portal. The USGS CIDA office (Nate Booth), has developed a water quality portal that served water quality data from storet and nwis web.  The Department of Interior Climate Science Center may have funding opportunities and does an annual call fro project proposals. The Director is Gerry McMahon gmcMahon@usgs.gov.  3DEP funds may be possible for filling gaps in the Coastal LIDAR coverage (both elevation & hydrography)		State climatologist offices, state DNRS, and the regional RISAs may have some of these data - however, this snapshot is much too vague (All climate change impacts? Just SLR?) to be able to ID what funding possibilites might be out there to do it.- need some focus to ensure that the data being collected are relevant to the questions being asked and the issues being addressed (which are not presented)	CZM federal funds are being used in GA to support climate signals and freshwater quantity research in GA. Future grants could be let to continue or refine this work applicable to GA. Deadline for competing proposals is December each year.
Support for establishment of a regional water quality monitoring workgroup to identify opportunities for standardization.	The GSAA can partially fund travel and meetings for IATT members to meet with each other or attend relevant conferences/workshops.		National Water Quality Monitoring Council has developed a plan for a National Monitoring Network for U.S. Coastal Waters and their Tributaries, <a href="http://acwi.gov/monitoring/network/">http://acwi.gov/monitoring/network/</a> , contact Mike Yurewicz or Donna Meyers, USGS.	Potentially fundable through EPA's competitive Wetland Program Development Grant program. Next Region 4 solicitation for proposals will be in Spring 2014. Program contact: Morgan Jackson 404 562-9404; jackson.morgan@epa.gov.	The ROP grant for GSAA should provide this support. Otherwise, the WQ agency within each state should support the travel and time if the four states agree that this is a priority on a regional basis. The states can buy-in to the alliance through this effort.	All surveys in the Marine Fisheries Section of GADNR collect water quality data as part of their fishery monitoring surveys. It would be in the best interest of all parties that the collection of these data are standardized. Program Manager: Dr. Carolyn Belcher, Carolyn.Belcher@dnr.state.ga.us
	SCDHEC Barbara Neale	NCDENR Michelle Duval				
<b>Issue Area: Clean Coastal and Ocean Waters</b>						
Clean Water Act Implementation Process Analysis: How are states implementing and are there opportunities for improved efficiencies?	DHEC EQC BOW may have funding resources for these types of efforts.	EPA and USGS should be included as partners in this. I would think the South Atlantic LCC (Rua Mordecai) might have grant money available for this during their RFP				
Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.						
Support for establishment of a regional water quality monitoring workgroup to identify opportunities for standardization.		Again, maybe a minigrant from GSAA?				
Snap Shot Title	Are there resources (e.g. funding, staffing, internship) in your organization that could be made available to this snap shot?					
	SECOORA Debra Hernandez	DOI Eric Strom	EPA Jennifer Derby	GADNR Brad Gane	SCDHEC Barbara Neale	SCDNR Robert Boyles
<b>Issue Area: Clean Coastal and Ocean Waters</b>						
Clean Water Act Implementation Process Analysis: How are states implementing and are there opportunities for improved efficiencies?	No specific resources, although there are SECOORA academic members that may have students that could assist with this.				DHEC EQC BOW may have some resources that could support this effort.	
Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.		Gary Merrill, USGS Geospatial Liaison, SE Region, SC WSC, gmerrill@usgs.gov (O) 803-750-6124 (C) 803-309-9516			DHEC EQC BOW may have some resources that could support this effort.	
Support for establishment of a regional water quality monitoring workgroup to identify opportunities for standardization.	It would be valuable for RIMS personnel to participate as they have expertise on data standardization. If workshop occurs in the next 6 months, there may be funding to help cover some travel		Funding no longer available for FY13. Coordination of existing workgroup by RTI, workgroup meetings, travel, etc. funded under an existing WPDG. Funding for new activities related to this snapshot would require submittal of a successful WPDG proposal in FY14.	There are no additional funds for this work in GADNR's Marine Fisheries Section other than the data already being collected as part of our regularly scheduled fishery monitoring surveys.	DHEC EQC BOW may have some resources that could support this effort.	Yes--SC-. Contact: Denise Sanger (843-953-9074; sangerd@dnr.sc.gov)
	NCDENR Michelle Duval					
<b>Issue Area: Clean Coastal and Ocean Waters</b>						
Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.	NC DMF might be able to contribute GIS and Habitat expertise; contact Anne.Deaton@ncdenr.gov (rep on HE team)					

**Snap Shot Response Matrix - Clean Coastal and Ocean Waters**

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Snap Shot Title	Is there an ongoing project/program in your organization connected to this snap shot that could be used to support implementation?					
	TNC Mary Conley	SECOORA Debra Hernandez	DOI Eric Strom	EPA Jennifer Derby	NOAA Ginny Fay	Sea Grant Rick Devoe
<b>Issue Area: Clean Coastal and Ocean Waters</b>						
Clean Water Act Implementation Process Analysis: How are states implementing and are there opportunities for improved efficiencies?			Albemarle Sound Pilot Project, <a href="http://nc.water.usgs.gov/projects/asnmn/">http://nc.water.usgs.gov/projects/asnmn/</a> , Michelle Moorman, mmoorman@usgs.gov, 919-571-4013, This is a specific goal of the program and could be augmented with additional support.  North Carolina Coastal Federation, nonprofit organization in Hyde County, NC (Mattamuskeet Drainage Association), may have ongoing projects related to this snap shot. POC - Todd Miller, Executive Director, can be reached at 252-393-8185.			
Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.	Depending on prioritized data and analysis, could be linked to TNC's ongoing South Atlantic Bight Marine Assessment which will incorporate some watershed and coastal vulnerability evaluation. Contact: Mary Conley (mconley@tnc.org)	Not with SECOORA, but I suggest checking with the NOAA Climate center for our region. The new National Climate Assessment has a lot of information on this topic already, and should be mined for info before trying to create new data	Albemarle Sound Pilot Project, <a href="http://nc.water.usgs.gov/projects/asnmn/">http://nc.water.usgs.gov/projects/asnmn/</a> , Michelle Moorman, mmoorman@usgs.gov, 919-571-4013, this data has been compiled for the Albemarle Sound and will be published in 2013.  USGS could be able to provide many of the data layers mentioned (e.g., LiDAR) as well as several region groundwater models and saltwater intrusion data. Eric Strom ewstrom@usgs.gov.  Yes, WaterSmart, ACF Basin, Brian Hughes, 678-924-6700,wbhughes@usgs.gov  Predicting baseline, altered, and future instream flows for the South Atlantic ( <a href="http://www.southatlanticlcc.org/page/projects-1?projectid=1465139">http://www.southatlanticlcc.org/page/projects-1?projectid=1465139</a> ). Contact Rua Mordecai (rua@southatlanticlcc.org).  USC Statewide LiDAR project 3D Elevation Program (3DEP) National Hydrography Dataset (NHD) USGS Water/NHD Community of Users  USFWS, National Wildlife Refuge System, Division of Strategic Resource Planning, Water Resources Inventory Assessment, POC - Susan Cielinski, Branch Chief, at susan_cielinski@fws.gov/404-679-7135.		NIDIS Carolinas Pilot <a href="http://www.drought.gov/drought/regional/programs/coastalcarolinas/dews-coastal-carolinas-home">http://www.drought.gov/drought/regional/programs/coastalcarolinas/dews-coastal-carolinas-home</a>	The GA Coastal Ecosystems LTER is studying the effects of climate change and land use change on estuarine water quality in McIntosh County. This program is funded by the NSF.
Support for establishment of a regional water quality monitoring workgroup to identify opportunities for standardization.			Albemarle Sound Pilot Project, <a href="http://nc.water.usgs.gov/projects/asnmn/">http://nc.water.usgs.gov/projects/asnmn/</a> , Michelle Moorman, mmoorman@usgs.gov, 919-571-4013 - this is a pilot project for the National Monitoring Network (see box C20)	EPA currently supports the SE Wetlands Monitoring Wkgrp., which is coordinated by RTI International. NC, SC, & GA monitoring programs currently participate as members. Contact is Kimberly Matthews (kmatthews@rti.org).		The GCRC at UGA (Merryl Alber) proposed to do much of this project with GSAA support was denied funding
	FLDEP Kelly Samek	GADNR Brad Gane	SCDHEC Barbara Neale	SCDNR Robert Boyles	NCDENR Michelle Duval	
<b>Issue Area: Clean Coastal and Ocean Waters</b>						
Clean Water Act Implementation Process Analysis: How are states implementing and are there opportunities for improved efficiencies?	Yes. Julie Espy, Division of Ecosystem Assessment and Restoration. Julie.espy@dep.state.fl.us		DHEC EQC BOW probably has some on-going efforts that could be used to support this effort. DHEC EQC BOW staff that could assist would be David Wilson, David Graves and/or Andy Miller.			
Data acquisition and analysis to support understanding of climate change impacts to water quantity and water quality.	Florida Water Resources Monitoring Council. Gail Sloane. Gail.sloane@dep.state.fl.us		Existing water quality information gathered by DHEC EQC BOW could probably be used to further the understanding of climate change impact to water quality and quantity.		Check with NC Division of Water Resources -- either Linwood Peele (linwood.peele@ncdenr.gov, head of water quantity planning or Dianne Reid, a CCOW member dianne.reid@ncdenr.gov)	
Support for establishment of a regional water quality monitoring workgroup to identify opportunities for standardization.	Florida Water Resources Monitoring Council. Gail Sloane. Gail.sloane@dep.state.fl.us	The Marine Fisheries Section of GADNR has a wealth of estuarine water quality data from its on-going surveys - some dating back as far as 1976. These data could be made available. Program Manager: Dr. Carolyn Belcher, Carolyn.Belcher@dnr.state.ga.us	DHEC EQC BOW probably has some on-going efforts that could be used to work into a regional workgroup. DHEC EQC BOW staff that could assist would be David Wilson, David Graves and/or Andy Miller.	SC Estuarine and Coastal Assessment Program (SCECAP). Contact Denise Sanger (contact info. At left)		



**Snap Shot Response Matrix - Healthy Ecosystems**

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Snap Shot Title	Are you aware of funding/grant programs, within your organization or elsewhere, that could support this snap shot?					
	GSAA Admin Kristine Cherry	SECOORA Debra Hernandez	DOI Eric Strom	Sea Grant Rick Devoe	FLDEP Kelly Samek	GADNR Brad Gane
<b>Issue Area: Healthy Ecosystems</b>						
Standardize and create estuarine habitat and biological resources data and upland land cover and land use.	GSAA Phase 3 award from the NOAA Regional Ocean Partnership Grant includes an IATT Seed Fund for up to \$2500 per team to support Action Plan implementation, such as the proposed workshop.	Work with HE team to move inshore and continue compilation of data layers; participate in workshops; noted need to work with RIMS team.	NOAA has developed the National Esuarine Eutrophication Assessment (Suzanne Bricker). ECU is developing a coastal atlas for the south atlantic (Tom Crawford). Jennifer Dorton (Secora) has more information about this and other initiatives in the South Atlantic. FWS is working on this initiative through their I&M program and PRIMR database (Nicole Rankin, Wendy Stanton). The NPS is working on this through their I&M program (Joe Divivo).	I think this will be a much more expensive undertaking than stated here. I think the NEON program would be a significant source possibility, or maybe the SALCC; the SARP effort which I think is run out of UGA might also be interested. Also, the NERRs programs may already have a jump start of some of this work, as would the state DNR agencies. What are the issues being targeted with this effort? It will be hard to sell without such context.		GADNR Marine Fisheries Section routinely creates data layers from important fisheries resources (shrimp, blue crabs, red drum, spotted sea trout, etc) from its various fisheries independent surveys. This is conducted as part of the Department's USFWS funding through Sportfish Restoration (deadline 6/1/14) and NOAA/NMFS's Atlantic Coastal Fisheries Cooperative Management Act funding (3/1/14). Program Manager: Dr. Carolyn Belcher, Carolyn.Belcher@dnr.state.ga.us
Expected effects from increasing development and climate change on estuarine habitats and biological resources in the South Atlantic coastal ecosystem			The Albemarle-Pamlico National Estuary program has developed indicators for monitoring the estuary (Dean Carpenter). ENC SEVA has developed a threat assessment for the North Carolina Estuary System (Louise Alexander, NCSU).	This is way to broad and vague for any funding agency to consider - needs focus of some sort	FWC State Wildlife Grant (USFWS)	Dr. Meryl Alber is presently funded by a GADNR CRD Coastal Incentive Grant to explore large scale climatic events (North Atlantic Oscillation, Bermuda High, etc) and instream flow on blue crabs and commercial shrimp species.
Identify key coastal uses and their locations that should be managed to benefit regionally important resources		This is a project that, once complete, could be visualized on the Portal (e.g. identification of the habitats on the Portal and the ability to overlay other data layers).	NC DMF has developed a coastal Habitat protection plan (Anne Deaton)	ROP should be supporting the development of a federal-state marine plan with its next set of proposals to NOAA. This will be a multi-year and very expensive effort. The snapshot as presented is overly simplistic and does not reflect the complexity and size of the job being proposed. There also is no statement of the "driver" (the need) for this effort,		Nate Nibelink (UGA) and Rachael Guy (UGA) are exploring sea level rise impacts on red drum and blue crab habitat. Also, GA CZM funds will be used to develop data layers. There is existing GIS data for GA waterbottom leases.

	SCDNR Robert Boyles	NCDENR Michelle Duval
<b>Issue Area: Healthy Ecosystems</b>		
Standardize and create estuarine habitat and biological resources data and upland land cover and land use.	Yes; ACE Basin NERR; contact: Phil Maier (843-953-9001; maierp@dnr.sc.gov)	
Expected effects from increasing development and climate change on estuarine habitats and biological resources in the South Atlantic coastal ecosystem		
Identify key coastal uses and their locations that should be managed to benefit regionally important resources		Possibly Coastal Recreational Fishing License grant program; would only be available for mapping of NC resources (contact: Beth.Govoni@ncdenr.gov; next RFP comes out May 2014)

Snap Shot Title	Are there resources (e.g. funding, staffing, internship) in your organization that could be made available to this snap shot?					
	TNC Mary Conley	SECOORA Debra Hernandez	DOI Eric Strom	NOAA Ginny Fay	Sea Grant Rick Devoe	GADNR Brad Gane
<b>Issue Area: Healthy Ecosystems</b>						
Standardize and create estuarine habitat and biological resources data and upland land cover and land use.	TNC's SALCC grant includes funding to support a workshop (Jan-Mar 2014) with the Healthy Ecosystem team (and other invited participants) to discuss data, analysis techniques and products. Contact: Mary Conley (mconley@tnc.org)	Depending on when the project started, RIMS team may be able to participate.	contact CSAS via website	NOAA Coastal Change Analysis Program staff may be able to provide technical guidance on methods, classification, etc. <a href="http://csc.noaa.gov/digitalcoast/data/ccapregional">http://csc.noaa.gov/digitalcoast/data/ccapregional</a> <a href="http://csc.noaa.gov/digitalcoast/data/ccaphighres">http://csc.noaa.gov/digitalcoast/data/ccaphighres</a>	Maybe some GIS staff assistance, if funding is available.	GIS staff can participate in data standards discussions. Sonny Emmert @sonny.emmert@gadnr.org
Expected effects from increasing development and climate change on estuarine habitats and biological resources in the South Atlantic coastal ecosystem						The Marine Fisheries Section has provided data from several of its long-term monitoring surveys to researchers and graduate students to examine climatic impacts on estuarine natural resources. Meryll Alber - (Faculty) UGA, Nate Nibelink - (Faculty) UGA, Gary Grossman - (Faculty) UGA, Rachael Guy (PhD - UGA), Lisia Kowalczk (MS - Savannah State U), Chris Kennedy (Phd - U of WY, presently George Mason U)
Identify key coastal uses and their locations that should be managed to benefit regionally important resources	Potentially could provide staff support to help with the development of specific regional data layers identified as priorities by the HE Team. Contact: Mary Conley (mconley@tnc.org)					

	SCDHEC Barbara Neale	SCDNR Robert Boyles	NCDENR Michelle Duval
<b>Issue Area: Healthy Ecosystems</b>			
Standardize and create estuarine habitat and biological resources data and upland land cover and land use.			
Expected effects from increasing development and climate change on estuarine habitats and biological resources in the South Atlantic coastal ecosystem		Potential for ACE Basin NERR. Contact Phil Maier	Habitat staff could provide expertise or participate in "directing" this effort (Anne.Deaton@ncdenr.gov or Christine.Jensen@ncdenr.gov)
Identify key coastal uses and their locations that should be managed to benefit regionally important resources	There are probably resources available to help gather information from SCDHEC, SCDNR and SCPRT that could used to support a regionally targeted effort to identify these uses and their locations.		

Snap Shot Response Matrix - Healthy Ecosystems

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Snap Shot Title	Is there an ongoing project/program in your organization connected to this snap shot that could be used to support implementation?					
	TNC Mary Conley	SECOORA Debra Hernandez	DOI Eric Strom	NOAA Ginny Fay	Sea Grant Rick Devoe	FLDEP Kelly Samek
<p><b>Issue Area: Healthy Ecosystems</b></p> <p>Standardize and create estuarine habitat and biological resources data and upland land cover and land use.</p>	<p>South Atlantic Bight Marine Assessment (support in part through the South Atlantic Landscape Conservation Cooperative) - regional mapping and analysis that includes coastal habitat and resources. TNC's efforts will include collecting and distilling available data. We have been working with the HE team to identify common estuarine priorities. Contact: Mary Conley (mconley@tnc.org)</p>	<p>GSA Portal (RIMS team) SECOORA recently completed a Biological Data Project, and could provide someone to participate in the project. Vembu Subramanian is the contact, vembu@secoora.org</p>	<p>USGS has developed a regional SPARROW model for the Southeast that predicts nutrient loads to the estuary (Anne Hoos). The mission of the USGS Core Science Systems is: "delivers nationally focused Earth systems and information science that provides fundamental research and data". The Core Science Analytics and Synthesis within CSS leads the development of integrated databases and programs to manage complex data and metadata. <a href="http://www.usgs.gov/core_science_systems/csas/index.html">http://www.usgs.gov/core_science_systems/csas/index.html</a> Yes, Cumberland Island National Seashore Research Project, Brain Hughes, 678-924-6700, wbhughes@usgs.gov Synthesis of estuarine and marine resource maps for the South Atlantic (<a href="http://www.southatlanticlcc.org/page/projects-1?projectId=1465007">http://www.southatlanticlcc.org/page/projects-1?projectId=1465007</a>). This project is overseen by the Healthy Ecosystems Team of the GSAA. Contact Rua Mordecai (rua@southatlanticlcc.org) *North Carolina Coastal Federation, nonprofit organization in Hyde County, NC (Mattamuskeet Drainage Association), may have ongoing projects related to this snap shot. POC - Todd Miller, Executive Director, can be reached at 252-393-8185. *USFWS Regional GIS Program, may have ongoing projects that support/complement this snap shot. POC - Jason Duke, Regional GIS Lead/Coordinator, at jason_duke@fws.gov.</p>	<p>Todd Kellison (Chief, Fishery Ecosystem Branch, SEFSC Beaufort) and Chris Taylor are PIs on a funded NERRS Science Collaborative proposal (with NC State University + Rachel Carson NERRS, Rutgers + Jacque Cousteau NERRS and USC + Winyah Bay/New River NERRS) to assemble and standardize long-term ichthyoplankton (fish larval) recruitment data collected at the NOAA Beaufort Laboratory since 1986, discover relevant water quality, oceanographic and climate data to accompany these data and coordinate with other NERRS hosting similar programs to standardize and develop framework for web/online access to ecosystem or species indices of abundance and environmental correlates. The name of the project is, "Facilitating collaboration and access to long-term estuarine larval fish recruitment and environmental data for fisheries and ecosystem management" Resources: 1 year (FY14), 1/2 time graduate student or technician and full-time data manager (with NOAA Beaufort FTE and NCSU faculty effort) to coordinate with fishery managers (SAFMC and state fishery management agencies). This work could be presented or shared at future workshops to GSAA and could also be catalogued with the NC Sentinel Site clearinghouse framework planning.  Title: Facilitating collaboration and access to long-term estuarine larval fish recruitment and environmental data for fisheries and ecosystem management</p>	<p>See above - GA GCRC (merry alber) proposed doing this with GSAA funds, but was denied funding.</p>	
<p>Expected effects from increasing development and climate change on estuarine habitats and biological resources in the South Atlantic coastal ecosystem</p>		<p>The new National Climate Assessment has a lot of information on this topic already, and should be mined for info before trying to create new data</p>	<p>Impacts of future change on the Estuarine Ecosystem is part of the State of the South Atlantic assessment being done through the South Atlantic Landscape Conservation Cooperative. Final version of this assessment is expected in Jan 2014 (<a href="http://www.southatlanticlcc.org/page/indicators">http://www.southatlanticlcc.org/page/indicators</a>). Contact Rua Mordecai (rua@southatlanticlcc.org)  *North Carolina Coastal Federation, nonprofit organization in Hyde County, NC (Mattamuskeet Drainage Association), may have ongoing projects related to this snap shot. POC - Todd Miller, Executive Director, can be reached at 252-393-8185.</p>	<p>NOAA Coastal Change Analysis Program will come out with a report in the next few months that shows land cover change trends (including development and wetlands) for the southeast from the last 20 years. Another possibility is the Sentinel Site activities might also apply - the clearinghouse comes to mind.</p>	<p>Yes - see answer above with respect to ongoing research by the GCE LTER (Merry Alber at UGA).</p>	<p>Yes. Amber Whittle and Andrea Alden, Andrea.Alden@MyFWC.com. FWC is using State Wildlife Grant funding to support vulnerability assessment, scenario planning and climate adaptation projects in Florida. Here is a list of projects and PIs/partners involved: o Alternative Futures Under Climate Change for the Florida Key's Benthic and Coral Systems – Bob Glazer, FWC, partnering with GeoAdaptive and NOAA, due to be complete in December 2013 o Developing Climate Change Adaptation Strategies for Florida –Noah Matson, Natalie Dubois and Sara O'Brien, Defenders of Wildlife and Beth Stys, FWC, due to be complete in June 2014 o Living Shorelines: Engaging Communities While Stabilizing Historic Sites –Linda Walters, UCF, just started, due to be complete in June 2015 o Response of ecosystem function in mangrove forests to sea-level rise and climate change – Ryan Moyer, FWC, just started, due to be complete in June 2015 o Predicting and Mitigating the Effects of Sea-Level Rise and Land Use Changes on Imperiled Species and Natural Communities in Florida – Tom Hocht, UF, due to be complete in December 2013 o Is "Managed Retreat" a feasible option for Gopher Tortoise and burrow commensal animal populations impacted by projected sea level rise in Florida? – Richard Seigel, Towson University, just started, due to be complete in June 2015 o The Development and Implementation of the FWC Sea Level Rise Program – this project funds Whitney Gray's position (copied above)</p>
<p>Identify key coastal uses and their locations that should be managed to benefit regionally important resources</p>			<p>The sirenian research group in the USGS Southeast Ecological Science Center monitors manatee abundance and distribution along the Florida east coast, especially in the Indian Lagoon/Port Canaveral area. Integral to the research is identifying areas of seagrass for forage. There have been Unusual Mortality Events in this area recently from unknown causes -- water quality from urban runoff, unusual weather/climate patterns?? No funding is available. Contact Jim Reid (jreid@usgs.gov)  South Atlantic Conservation Blueprint (<a href="http://www.southatlanticlcc.org/page/conservation-blueprint">http://www.southatlanticlcc.org/page/conservation-blueprint</a>). Contact Rua Mordecai (rua@southatlanticlcc.org)  *USFWS Regional GIS Program, may have ongoing projects that support/complement this snap shot. POC - Jason Duke, Regional GIS Lead/Coordinator, at jason_duke@fws.gov.</p>	<p>There might be SALCC items that fit, particularly TNC &amp; SALCC, is compiling a coastal assessment for the SE.</p>		



**Snap Shot Response Matrix - Healthy Ecosystems**

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Snap Shot Title	Is there an ongoing project/program in your organization connected to this snap shot that could be used to support implementation?		
	GADNR Brad Gane	SCDNR Robert Boyles	NC DENR Michelle Duval
<b>Issue Area: Healthy Ecosystems</b>			
Standardize and create estuarine habitat and biological resources data and upland land cover and land use.	The Sportfish Restoration Project conducts netting surveys in Wassaw Sound and Altamaha River Delta between June and November each year since 2003. ACFMA funded Ecological Monitoring Trawl Surveys sample six sound systems every month. Program Manager: Dr. Carolyn Belcher, Carolyn.Belcher@dnr.state.ga.us	Yes; ACE Basin NERR; contact: Phil Maier (contact info at left)	
Expected effects from increasing development and climate change on estuarine habitats and biological resources in the South Atlantic coastal ecosystem	The Sportfish Restoration Project conducts netting surveys in Wassaw Sound and Altamaha River Delta between June and November each year since 2003. ACFMA funded Ecological Monitoring Trawl Surveys sample six sound systems every month. Program Manager: Dr. Carolyn Belcher, Carolyn.Belcher@dnr.state.ga.us	Potential for ACE Basin NERR. Contact Phil Maier	Recommend this as a potential CEM project (contact Dr. Mike Orbach, mko@duke.edu). Need to work w/this program to provide infusion of ideas for relevant MPs.
Identify key coastal uses and their locations that should be managed to benefit regionally important resources	Data from our fishery independent surveys is often requested by researchers for research proposals connected to this snap shot but the Marine Fisheries Section has no ongoing efforts.		Perhaps contact Dr. Pat Halpin; this would be an ideal project for some of his GIS/marine biospatial mapping students.