

Georgia Sea Grant Program 2012 NSGO Review

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Georgia Sea Grant Management

- Management staff
 - Chuck Hopkinson, director
 - David Bryant, associate director
 - Jill Gambill, communications director
 - Lisa Liguori, extension leader (MAREX)
- Small

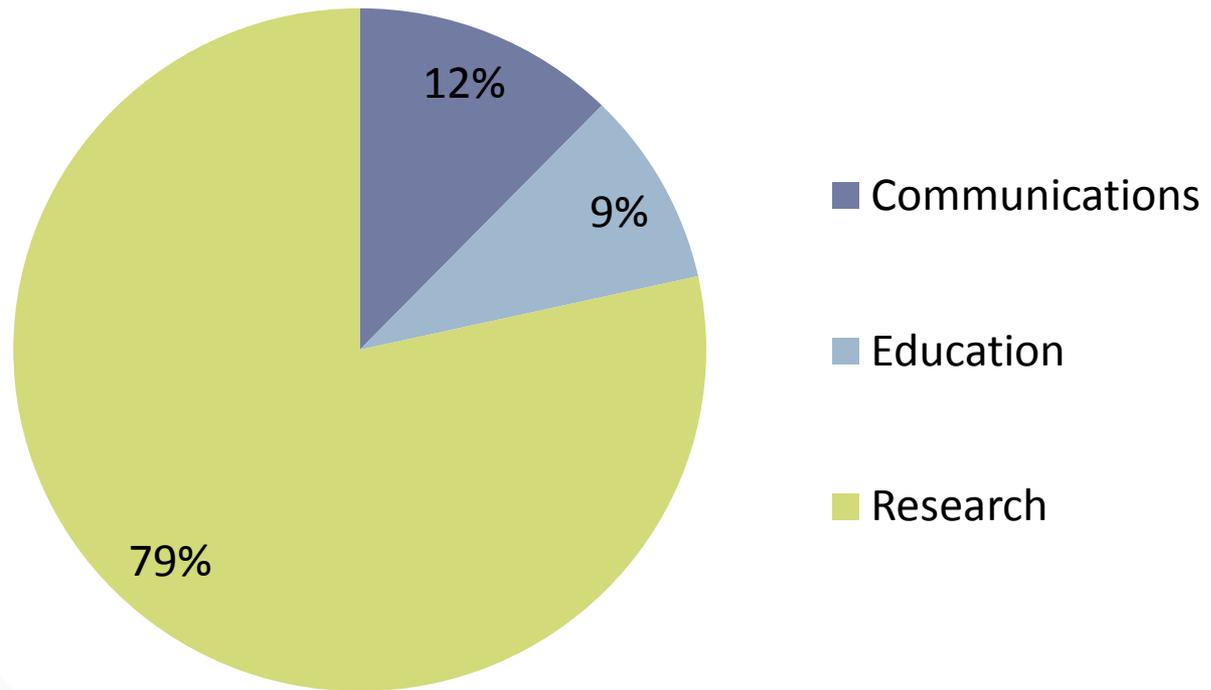
Georgia SG Management

- Total FTEs on staff

Functional Area	# of individuals	# of FTEs supported by Sea Grant	# of FTEs supported by match/leverage
Management/Administration	4	.75	2
Communication	2	.83	0
Extension	11	8	3
Education	5	4	1
Research	22	4.8	1.3

Georgia SG 2010 Core Budget (Fed + Match) towards each Functional Area

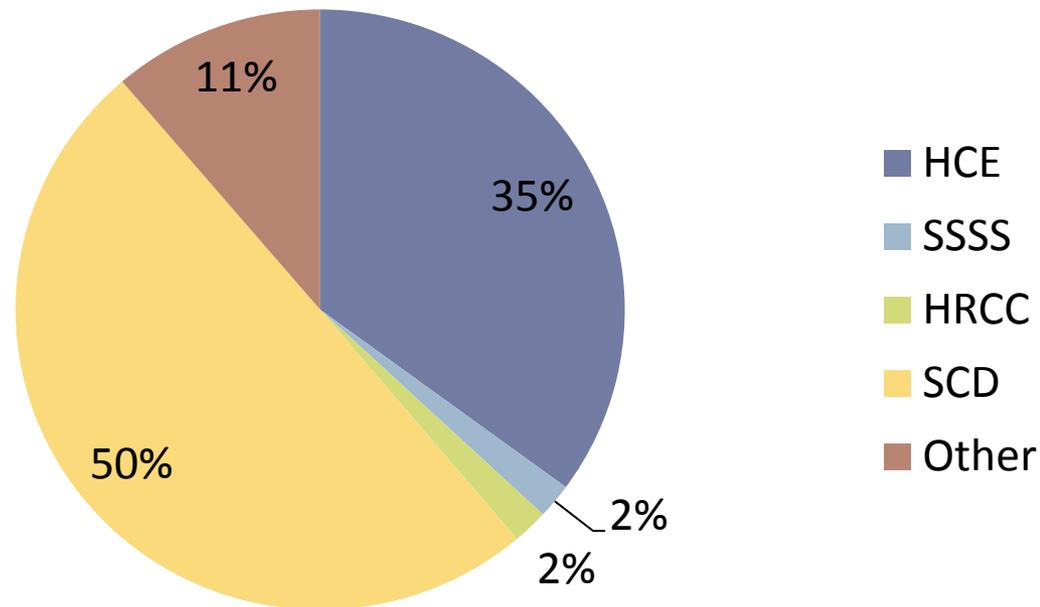
2010
Effort by Functional Area



Georgia SG Budget towards each Focus Area

(Fed + Match + Pass-Through + Managed Leveraged Funds)

Effort by Focus Area



Significant Georgia SG Changes (since January 2011)

- David Bryant appointed associate director
 - First associate director
 - Formerly head of communications
- Jill Gambill appointed communications director
- Lisa Liquori appointed extension leader
- Cheryl Summers appointed fiscal officer
- To improve coordination, Georgia SG and University of Georgia Marine Extension (MAREX) agree to share two communications positions based at MAREX/Brunswick

Georgia SG Program RFP Process

- Pre-proposals due the end of February (2011)
- Full proposals due May 18
- Technical panel review of full proposals August 24 (Atlanta)

Georgia SG RFP Process for 2012-2013 Projects – Research Metrics

Core Proposals	# of Proposals	# of institutions	# from home institutions
Pre-proposals submitted	17	6	10
Full proposals submitted	9	5	5
Proposals Funded	7	4	4

Georgia SG Contribution to National Performance Measures and Metrics

Focus Area	Metric/Performance Measure	Actual
	K-12 Students reached	15400
	Number of contractors and developers trained about the economics of sustainable alternative development strategies	10190
SCD	Number of coastal communities who have adopted sustainable coastal development	12
SSSS	Number of stakeholders who modify their practices using knowledge gained in fisheries sustainability	448

Georgia SG Impacts

HCE GOAL 1: Scientific information in support of ecosystem-based approaches to managing the coastal environment

GA SG Responds to DWH Spill

- During the Summer of 2010, the potential effects of the Deep Water Horizon spill (DWH) on the South Atlantic coast were of great concern to Georgia SG and other regional Sea Grant programs.
- GA SG organized two scientific workshops to characterize the threat: the first gathered regional physical oceanographers to assess the risk of material from the spill becoming entrained in the Gulf Stream and entering in-shore waters along the SA; and the second, gathered bio- and geo-chemists to assess what condition the oil would be in if and when it arrived.
- GA SG produced white papers and shorter, citizen-oriented reports from each workshop. These reports were distributed to coastal communities, legislators, managers and other scientists in the South Atlantic region.
- In August 2010, Chuck Hopkinson testified before the Georgia State Senate sub-committee on natural resources regarding the state's vulnerability to oil from the DWH spill.
- Georgia SG was subsequently called upon by GA DNR to develop a monitoring plan for the state coastal waters.

Georgia SG Impacts

SCD Goal 2: Coastal GA communities that recognize the complex inter-relationships between social, economic and environmental values in coastal areas and work together to balance multiple uses and optimize environmental sustainability

GA SG Helps Counties Make Better OSDS Decisions

- Most of Georgia's coastal counties have limited municipal sewage treatment systems and rely heavily on individual onsite septic disposal systems (OSDS) to handle human sewage production. The threat of dysfunctional systems makes it important to properly permit, inspect and maintain OSDS.
- Sea Grant's Marine Advisory Service has geo-located all relevant existing OSDS and wells within the proximity of marshlands or other waters for four of six coastal counties. The data have been placed in an online database allowing public health officials to view maps showing existing OSDS systems and relevant site characteristics, such as elevation, proximity to floodplain and marshlands and other waters, and soil type.
- Six coastal communities currently use the system.

Georgia SG Impacts

SSSS GOAL 1: A sustainable supply of local seafood to meet public demand

GA SG Rejuvenates Oyster Industry

- Though once home to a thriving oyster industry, silt and mud bottoms in the state's intertidal waters offer little for oyster spat to attach to and grow. Colonizing oysters themselves become substrate and are overwhelmed with spat. This leads to densely clumped clusters of oysters not fit for premium, "half-shell" trade.
- Georgia SG research developed a commercially-viable method to produce single (i.e., non-clumped) oysters marketable to restaurants and individuals on the half-shell.
- Three oyster mariculture businesses began in 2010 specifically to employ the method devised by Georgia SG's research. One start-up reported \$40K revenue from a small test project, another anticipates \$1M yearly revenue within five years.

Georgia SG Impacts

SCD Goal 2: Coastal GA communities that recognize the complex inter-relationships between social, economic and environmental values in coastal areas and work together to balance multiple uses and optimize environmental sustainability

GA SG Document Guides Stormwater Regulation

- Keren Giovengo and Travis Douce (GA SG/MAREX) wrote the “Coastal Stormwater Supplement” to Georgia DNR’s Georgia Stormwater Management Manual.
- This state regulatory document formally recognized that the conditions and processes of the coastal zone require special consideration for stormwater infrastructure.
- The State Bar said this work marked a shift in Georgia’s regulatory approach from mitigation to prevention.
- Team also wrote model ordinances to accompany document which were adopted in Savannah and Brunswick.

Georgia SG Impacts

SCD GOAL 1: Coastal Georgia communities that make efficient use of land, energy and water and understand the important services these resources provide

Teaching Ocean Literacy Through Song

- Ocean and coastal science occupy little space in curriculum dictated by Georgia's teaching standards.
- Georgia Sea Grant created a 5-day residency at the Sapelo Island Marine Institute for Nashville children's performer Roger Day and commissioned him to compose a program of songs about the Georgia coast for elementary school children. The song cycle dealt with the importance of habitat and watershed health, the abundance of creatures that depend on the state's water resources and how individuals can help protect the coastal ecosystem. These songs address state science teaching standards for grades 3-5 and promote ocean literacy.
- In March 2010, Georgia Sea Grant, in partnership with the Savannah Music Festival, arranged ten days of in-school performances of the songs in coastal-area elementary schools as well as a featured performance at the Savannah Music Festival, reaching over 5,000 young learners.
- Day now performs this program for audiences throughout the southeast.

Georgia SG 2010 Research Accomplishments

Georgia Sea Grant creates new tool to assess effects of sea level rise

Georgia Sea Grant researchers have developed a powerful new tool for coastal planners and managers to use in monitoring coastal erosion. The tool, AMBUR (Analyzing Moving Boundaries Using R), was developed to analyze shoreline change along barrier islands, inlets and estuaries with complex shapes and highly curved shorelines. AMBUR easily yields accurate erosion and accretion rates will be increasingly useful in planning and zoning decisions as sea levels rise and coastal boundaries change. The researchers held three workshops designed for coastal planners and managers. They have worked with representatives of five coastal counties, eight communities, and one federal and one state management agency. Planners in Glynn County have begun using the tool.

Georgia Sea Grant 2010 Research Accomplishments

GA SG educates hard-to-reach audience about sustainable development

Georgia SG partnered with the Southeastern Building Trades Associates to teach contractors, builders, developers, and architects about sustainable building, infrastructure and site planning. The course differs from most green building courses in two ways: 1) it satisfies continuing education requirements necessary for these professionals to stay in business, and 2) it emphasizes economic incentives. Attendees are not those typically found at greenbuilding workshops; these professionals are often hearing about sustainability and low-impact development for the first time. The presentation presumes that they are not environmentalists and emphasizes the economic opportunities of the growing niche of green development. This year, 10,190 (5225 online, 4965 classroom) students took the courses and received continuing education credits.

Sources (unless otherwise noted)

- Planning, Implementation, and Evaluation Resources (PIER)
<https://pier.seagrant.noaa.gov>
- Personal Communication with Program
- 2010 Site Review Team Briefing Book