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Coastal Watershed Connections: Student Impact, Stewardship, and Reflections

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Coastal Watershed Connections: Student Impact, Stewardship and Reflections Sherry S. Herron and Shelia A. Brown | Center for Science and Mathematics Education

PROJECT SUMMARY

The project provided students and teachers in six coastal and noncoastal Title 1 secondary schools in Mississippi with experiential learning activities to emphasize connections between their local watershed and coastal habitats of the Gulf of Mexico using GLOBE (Global Learning and Observations to Benefit the Environment) protocols, OBIS (Outdoor Biology Instruction Strategies) Science) and service-learning projects.

SCHOOL EXPERIENCES



'Sharks Make Sense' A compass simulates the Impullae of Lorenzini and letects hidden magnets taped to pictures of rays, the prey.



SERVICE-LEARNING PROJECT

Three Rivers Household Hazardous Waste Day









PARTNERS

- NOAA B-WET Program
 - Southern Miss Gulf Coast Research Laboratory's Marine Education Center in Ocean Springs, Miss.
 - Southern Miss Center for Science and Mathematics Education in Hattiesburg, Miss.
 - Grand Bay National Estuarine Research Refuge in Gautier, Miss.
 - Mississippi Department of Environmental Quality

How long was a megaladon? ~ 1" of tooth =10' of shark

GLOBE IN THE SCHOOLS













ACTIVITIES

- Three-day summer workshop for 12 teachers from six schools
- Three visits to each school during the school year >400 total students impacted/visited
- Two-day field trip to coastal habitats per school Gulf Coast Research Center Grand Bay National Estuarine Research Reserve McLeod State Park Ship Island (a Mississippi barrier island)

SERVICE-LEARNING PROJECT

Tutoring Elementary Students





TUPELO MIDDLE SCHOOL

in the Tupelo Daily Journal





THE UNIVERSITY OF SOUTHERN MISSISSIPPI.

B-WET BAY WATERSHED EDUCATION & TRAINING PROGRAM

SUMMER TEACHER WORKSHOP



Table 3. Pretest/Posttest Evaluation Results

School	Date	Location	Pretest	Posttest	Significance
			Mean	Mean	Value
Hancock North	3/18/11	GNDNERR	7.2162	11.4865	≤0.01
Central Elementary					(0.000)
	5/15/11	Clermont			
		Harbor, MS	4.7059	8.1471	\leq 0.01
					(0.000)
Nicholson	3/25/11	GNDNERR	3.8333	6.933	\leq 0.01
Elementary					(0.000)
	5/29/11	Ship Island. MS	2.963	4.667	\leq 0.01
					(0.001)
Tupelo Middle	4/7/11	Ocean Springs,			
School*	through	MS and Ship	5.36	9.58	\leq 0.01
	4/8/11	Island, MS			(0.000)
Vancleave High	4/19/11	GNDNERR	5.5937		
School**					
	4/11/11	Ship Island			
*One two day field trip					

One two-day field trip.

**Teacher has not returned the tests.