

**THE CENTER FOR ORAL HISTORY AND CULTURAL HERITAGE**  
**of**  
**THE UNIVERSITY OF SOUTHERN MISSISSIPPI**

**Recording Log**

**Interviewee:** Jennifer Buchanan, education coordinator at Grand Bay National Estuarine Research Reserve, Mississippi Department of Marine Resources

**Interviewers:** Barbara Hester and Louis Kyriakoudes

**Date of recording:** January 12, 2012

**Recording format/notes:** Recorded digitally in one file.

**Recording length:** 1 hour, 14 minutes

**Location:** Buchanan's office.

**Subjects/Topics:** Mississippi Department of Marine Resources Grand Bay National Estuarine Research Reserve, end users of research, commercial fishermen, commercial fishing, climate change, educating the public, commercial fishermen, real-time data sampling, stewardship of marine resources, wetlands, habitat loss, rising sea levels, Hurricane Katrina, Mississippi Sound, Gulf of Mexico, management practices, BP Deepwater Horizon Oil Disaster, mitigation of habitat degradation, TEDs, BRDs, sea turtles, artificial reefs, oyster reefs, oysters, shrimp, mercury in marine environment, Bonnet Carre Spillway, freshwater diversion into Mississippi Sound, watersheds, Mississippi River and its watershed, Pascagoula River and its watershed, crabbing, fishing regulations, marine habitats of Gulf states, shifting islands, salt marsh, fetch, shoreline erosion, imported shrimp, aquaculture, costs of commercial fishing, advocacy for preserving and restoring natural environments, uplands, forests, land trusts, oral history, National Marine Educators Association, Southern Association of Marine Educators, cultural aspects of estuaries.

<b>Time/ Counter</b>	<b>Topic</b>
<b>Track 1 of 1</b> 0:02:14.3	Occupation
0:03:16.1	National Estuarine Research Reserve
0:04:17.4	Partnership
0:04:55.5	Mississippi Department of Marine Resources
0:05:10.6	Grand Bay Reserve
0:05:33.9	End users of MDR research
0:06:17.7	Climate-change issues

0:07:54.3	Research question
0:08:28.0	National Estuarine Research Reserve as living laboratory
0:08:57.0	Working with the public as education coordinator
0:09:40.8	On-the-road program
0:10:55.2	Getting research science to commercial fishermen
0:11:21.4	Real-time data sampling
0:12:13.6	Databases
0:12:56.7	Classes offered
0:14:05.0	Stewardship of marine resources
0:14:05.0	Importance of wetlands
0:15:50.8	Boat tours
0:17:06.3	Maintaining healthy wetlands
0:17:18.9	Habitat loss
0:17:26.6	Importance of wetlands
0:18:31.0	Rising sea levels
0:18:37.7	Strengths and weaknesses of wetlands
0:19:51.0	Importance of inland wetlands
0:21:04.1	Changes in wetlands
0:21:34.3	Hurricane Katrina
0:22:28.3	Secondary impacts of coastal populations on wetlands
0:22:36.3	Secondary impacts of coastal populations on commercial fishing
0:22:51.5	Mississippi Sound

0:23:30.9	Nutrients in “estuary soup” of Mississippi Sound
0:23:39.4	Fertile fisheries crescent
0:24:01.0	Dead zone in Gulf of Mexico off of Louisiana coast, hypoxia
0:24:46.0	Best management practices
0:25:30.8	State of wetlands
0:27:23.6	BP Deepwater Horizon Oil Disaster
0:28:00.3	Mitigation for damage to wetlands
0:30:55.0	TEDs and other regulations
0:31:53.7	Bycatch and bycatch reduction devices
0:33:37.4	Sea turtles
0:36:16.9	Artificial reefs
0:36:40.4	Oyster reefs, freshwater, artificial substrates for oyster spat
0:37:22.2	Research of interaction of all species, best management practices
0:37:38.5	Mercury in seafood
0:38:29.4	Bad year for oysters (2011)
0:38:35.5	BP Deepwater Horizon Oil Disaster
0:38:41.7	Bonnet Carre Spillway, freshwater in Mississippi Sound impacts oysters, shrimp
0:39:41.6	Commercial fishermen coping with impacts on their targeted catch
0:40:09.7	Crabbing
0:41:29.0	Number of commercial fishermen decreasing
0:42:17.9	Importance of wetlands
0:42:10.8	State fishing regulations

0:43:50.2	Habitat differences among Gulf states
0:43:58.8	Louisiana's low-marshes
0:44:05.4	Hurricane Katrina
0:44:21.8	Wetlands
0:44:39.0	Disappearing islands
0:45:24.1	Pascagoula River
0:46:09.6	Changing habitats
0:46:46.0	Three zones of a salt marsh
0:47:25.7	Fetch
0:47:46.8	Shoreline erosion
0:48:17.4	Oil and gas industry canals
0:49:11.0	State limits on near-shore fishing
0:49:39.5	Shrimping season
0:50:30.2	Imported shrimp
0:51:37.6	Aquaculture
0:52:34.7	High fuel cost keeps fishermen close to shore
10:52:57.1	Overfishing, overharvesting, prevention
0:53:52.2	Redfish
0:54:30.4	Future of commercial fishing
0:55:24.5	Fuel costs
0:55:40.4	Costs of commercial fishing
0:57:04.3	Future of wetlands and shoreline
0:57:42.4	Stewardship or our environment and political will

0:59:25.6	Importance of uplands and forests
1:00:05.9	Land trusts
1:01:43.3	Grand Bay National Estuarine Research Reserve
1:01:59.0	Clyde Brown, environmental activist
1:07:18.7	Importance of oral histories
1:08:09.1	Importance of watersheds
1:08:37.3	Pascagoula River and Pascagoula River Watershed
1:08:54.6	Mississippi River Watershed
1:09:38.1	Educating up the watersheds
1:09:51.0	Fisheries increase as water quality improves
1:10:32.9	Meeting of National Marine Educators Association, 2012
1:11:18.8	National Marine Educators Association
1:11:29.1	Southern Association of Marine Educators
1:12:23.4	Cultural importance of estuary