

1. NGI Project File Number: 11-BP_GRI-PDR-03
2. Project title): NGI/BP Gulf Research Initiative Phase I and II Education and Outreach Support
3. Project Leads (Principal and Co-Investigators):

Name	Project Lead or Co-PI?	Affiliation	Email
Tina Miller-Way	Project Lead	Dauphin Island Sea Lab	tmiller-way@disl.org

4. All Non-Student Personnel funded by this project (including those listed above):

Name	Category (e.g., PI, Visiting scientist, Co-PI, Post doc, Senior Researcher, Research Associate)	Degree	% Salary funded from this project	Is individual located at a NOAA Lab?*
JoAnn Mitchell Moody	Staff	BS, MAT	50%	No

*If yes, list NOAA lab

5. All Students funded by this project (including those listed above):

*If yes, list NOAA lab

6. Project Abstract (500 words or less): This project supports the development and dissemination of NGI/BP Gulf Research Initiative funded projects from Phase I and Phase II. The project will develop web content for these projects and also develop print materials outlining the projects and some of the sub-tasks. This project will be the key mechanism for NGI to summarize and publicize this substantial research endeavor.

7. Key Scientific Questions/Technical Issues: (500 words or less): Given the nature of this project, there are no key scientific questions or technical issues.

8. Collaborators/Partners: This project has necessitated the collaboration of all the researchers whose work has been presented in the fact sheets. Each researcher had the opportunity to comment on and review a draft of the fact sheet before it was published. If, after a number of opportunities, a researcher chose not to comment, another scientist reviewed the fact sheet. Researchers were also asked to provide appropriate pictures.

16. List conference presentations and poster presentations for this project. Provide full citation including conference name and date. Please include copy, if available.

9. Project Duration: List the start and end date of this project (if applicable, include only *approved* No Cost Extension end date) 01/01/11 through 02/29/12 with approved NCE until 10/15/12

10. Project Baselines:

Contributions to specific NOAA Goals/Objectives: The first goal in NOAA's Education Plan 2009-2029 is Environmental Literacy. These fact sheets address that goal by contributing to Outcomes 1.2: Educators understand and use environmental literacy principles and 1.3: Educators, students, and/or the public collect and use ocean, coastal, Great Lakes, weather, and climate data in inquiry and evidence-based activities. Additionally, the NOAA Annual Guidance Memorandum (December 2010) explicitly addresses support in the recovery from the Deepwater Horizon oil spill in the Gulf. Understanding the nature of research, being aware of the research being done and relating that research to existing personal knowledge frameworks through activities is essential for public support of NOAA's activities.

Contributions to regional problems and priorities: How is the project tied to regional issues and priorities? Identify priority stakeholders, e.g., Gulf of Mexico Alliance, specific user groups. Environmental literacy is recognized as a regional priority by almost all of the regional groups conducting and disseminating research in the Gulf of Mexico (GOMA, Gulf state Sea Grants, NGI, Coastal Ecosystem Learning Centers). These facts sheets are designed specifically for the education community.

Gaps: Describe how the project has narrowed gaps in regional knowledge, data, model performance, geographic coverage, etc. This project has increased the dissemination of NGI-funded research on the oil spill, both in terms of providing information about additional NGI research projects, but also in terms of the audience reached (now reaching the educational community).

11. Milestones accomplished during the entire project period if this is a final report. List major milestones completed in terms of the project proposal.

Table 1 gives the titles of and scientists featured on the 29 Discovery Portholes that were produced using funds from this grant. We consider the Discovery Porthole to be the enhanced spotlight referred to in the grant. We have worked with Ms. Suzanne Shean in the NGI Office to obtain final and interim reports needed to develop the spotlight as reports are not yet accessible in the NGI database. Among these Portholes, all NGI institutions are represented and there are a variety of topics covered. With the exception of the starred spotlight (PI requested permission to approve but has not yet had time due to travel), all have been sent to the NGI office for posting on NGI's website. They have also been posted on DISL's teacher resources webpage and distributed in printed form at various events and workshops (see below).

The Discovery Porthole format consists of a summary of the research and its findings if reported, a key terms section, and the contact information and a picture of the PI (or PIs). Pictures are included which depict field work, an educational point, the geographic location of the work or illustrate concepts. Unlike the previous NGI fact sheet series, the Discovery Porthole includes an education section that gives a simple hands-on activity designed to illustrate one of the key concepts relevant to the research reported with directions and supplies needed. This section includes the Ocean Literacy Principles and the Nation Science Standards addressed by the activity. The Discovery Hall Program staff, DISL's education and outreach professionals worked with us to select, develop and test activities.

An electronic adaptation of the information in the Portholes has been developed for use at public venues. A pdf of this presentation is attached to this submission. The presentation is a component of the oil spill exhibit in the Dauphin Island Sea Lab's Estuarium (aquarium for the public and school groups). Plans to display this content at the Infinity Science Center have not yet come to fruition as development of that complex has proceeded more slowly than anticipated.

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JoAnn Mitchell Moody	Staff	BS, MAT	50%	No

Table 1: NGI BP Phase I and II Research Projects - Discovery Portholes developed
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	Principal Investigator	NGI Partner	Title
	Overview	NGI	An Overview of the Deepwater Horizon Oil Spill
1	Dr. Sibel Bargu Ates	LSU	Phytoplankton and the Oil Spill
2	Dr. Ruth Carmichael	DISL	Residents and Visitors of Mobile Bay: Oil Spill Impacts
3	Drs. Just Cebrian, Ken Heck	DISL	Monitoring Nursery Habitats after the Oil Spill
4	Dr. Jeff Chanton	FSU	Florida to Louisiana: Tracing the Oil
5	Dr. Eric Chassignet	FSU	Deep-C: Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico
6	Drs. Eric Chassignet, Felicia Coleman	FSU	Apalachee Bay Rocky Reefs
7	Dr. Felicia Coleman	FSU	Red Grouper in the Northeastern Gulf of Mexico
8	Dr. John Day	LSU	Breton Sound Estuary: Water Quality
9	Dr. Pat Fitzpatrick	MSU	Influence of Weather and Ocean Currents in Predicting Oil Movement after Deepwater Horizon
10	Dr. Jim Franks	USM	Sargassum: Floating Nurseries
11	Dr. Joe Griffitt	USM	Impacts of Oil on Spotted Seatrout
12 *	Drs. Linda Hooper-Bui, Brian Fry	LSU	Oil Spill Impacts on Louisiana salt marshes
13	Drs. Markus Huettel, Thomas Miller	FSU	Gulf of Mexico Beaches and Dunes: Oil Spill Impacts
14 †	Dr. Irving Mendelsohn	LSU	Louisiana Coastal Wetlands
15	Drs. Scott Milroy, Richard Fulford	USM	Ecosystem Modeling Framework: An Integrated Assessment of the Northern Gulf of Mexico
16	Dr. Deepak Mishra	MSU	Gulf Coast Salt Marshes: Oil Spill Impacts
17	Dr. Amal Mitra	USM	Public Health Impact of the Oil Spill
18	Dr. Alice Ortmann	DISL	Microbes and the Marine Food Web
19	Dr. Tom Osowski	USM	Community Resilience
20	Dr. Kyeong Park	DISL	Mobile Bay Ship Channel: Tracking the Oil
21	Dr. Harriet Perry	USM	Deep-Sea Red Crabs
22	Drs. Lora Petrie-Hanson, Mariola Edelmann	MSU	Fish Health and Oil Exposure
23	Dr. Sean Powers	DISL	Monitoring Gulf Coast Fisheries
24 *	Dr. Denise Reed	UNO	The Pontchartrain Basin: After the Oil Spill
25	Dr. Alan Shiller	USM	Chemical Effects of the Oil Spill: Mississippi Sound
			Water Quality Monitoring of Barataria Bay and Lake

12. Describe all significant research results, protocols developed, and research transitions. One of the outcomes of this project was the development of a format for research translation to the education community (The Discovery Porthole). This format highlights the basic scientific concept(s) appropriate to the research (relative to the national science standards) in easy to understand language, but includes a suitable hands-on activity to facilitate its use in the classroom.

13. Outreach activities

General Description

1) DISL Discovery Day; annual open house; 2500 attendees; a set of Discovery Portholes (6 total) were distributed in print form to interested visitors at this event; the staff member was on hand to answer questions by visitors.

2) Conducted a day-long unit (content, hands-on activities) on oil and oil spill activities in *Reefs, Rhizomes and Restoration* at DISL June 2012 (19 teachers); discussed NCI oil spill research and distributed existing fact sheets

14. Peer Reviewed Articles: List peer reviewed articles about this project published during this period of reporting. If this is the final report for the project, list all peer reviewed articles published about this project's work. Do not include any publications before the start date of this project.

15. Non-refereed articles and reports for this project: List all other articles about this project. Provide full citation and include copy, if available.

16. List conference presentations and poster presentations for this project. Provide full citation including conference name and date. Please include copy, if available.

17. Has anyone from this project been hired by NOAA during this reporting period? Yes or No. If yes, give date hired and NOAA duty station they were assigned to.

No one has been hired by NOAA at this point in time.

Final Report Submitted by:

Date:

____Tina Miller-Way_____ _10/19/12_____