

GULF RESEARCH PROGRAM

National Academy of Sciences
National Academy of Engineering
Institute of Medicine
National Research Council

Gulf Research Program Opportunity Analysis Workshop for Environmental Monitoring

September 3-4, 2014, New Orleans LA

Agenda*

WORKSHOP OBJECTIVES

- Inform the Gulf Research Program Advisory Board and staff of concrete opportunities for the Program to develop and support in the realm of environmental monitoring.
- Identify the environmental monitoring needs for 1) developing ecosystem services models that in turn can inform habitat restoration, and 2) improving the understanding of the physical and biological attributes of the deep Gulf of Mexico to enhance environmental protection from the impacts of oil exploration in the deep and ultra-deep water.
- With respect to these themes, identify any areas for innovation and long-term monitoring, identify and discuss what other entities are already addressing or attempting to address those needs, and identify opportunities and mechanisms for potential partnerships.

DAY 1: Wednesday, September 3rd

8:30-8:35 A.M.	Welcome Molly McCammon, Alaska Ocean Observing System
8:35-8:45 A.M.	Gulf Research Program Overview Kim Waddell, Gulf Research Program
8:45-9:00 A.M.	Overview of the Workshop Objectives and Introduction of Two Speakers Don Boesch, University of Maryland
9:00-9:30 A.M.	<i>Environmental Monitoring Lessons from NEON: Opportunities for the Gulf of Mexico</i> Russ Lea, NEON
9:30-10:00 A.M.	<i>Valuing ecosystem services for coastal protection and restoration: progress and challenges</i> Ed Barbier, University of Wyoming
10:00-10:30 A.M.	Discussion/Q&A
10:30-10:45 A.M.	Break
10:45-12:15 P.M.	Panel Session 1: <i>Questions for panelists:</i>

*Preliminary agenda – subject to change.

- 1) *What are the environmental monitoring needs for developing ecosystem services models that in turn can inform habitat restoration?*
- 2) *What opportunities for innovation and long-term monitoring should our program consider?*

7 minutes for prepared comments, followed by a panel discussion

Chris Shepard, TNC
 Pat Barnes, BFA
 Ruth Perry, Shell
 Denise Reed, the Water Institute
 Sandra Werner, ExxonMobil

12:15-1:15 P.M. Lunch with guest speaker
GCOOS Build-out Plan Update
 Landry Bernard, GCOOS

1:30-2:30 P.M. Panel Session 2:
Questions for panelists:

- 1) *What are the environmental monitoring needs for developing ecosystem services models that in turn can inform habitat restoration?*
- 2) *What opportunities for innovation and long-term monitoring should our program consider?*

7 minutes for prepared comments, followed by a panel discussion

Becky Allee, NOAA
 John Porthouse, NFWF
 Chuanmin Hu, USF
 Nancy Rabalais, LUMCON

2:30-2:45 P.M. Break

2:45-4:15 P.M. Breakout Session 1 (4 groups—color-coded group assignments)
 Context and goals: LaDon Swann, AL/MS Sea Grant

- 1) *In addition to the monitoring needs and opportunities for innovation identified by the panelists, are there other important ones that were not mentioned?*
- 2) *Building on the ideas and opportunities identified, what are the appropriate mechanisms for addressing those needs and opportunities?*
- 3) *What other entities, if any, are already addressing or attempting to address those needs? Are there opportunities for potential partnerships?*

1: Moderator: Molly McCammon /Rapporteur: Evonne Tang (BLUE)
 2: Moderator: Bob Carney /Rapporteur: LeighAnne Olsen (RED)
 3: Moderator: LaDon Swann /Rapporteur: Kim Waddell (YELLOW)
 4: Moderator: Cort Cooper/ Rapporteur: Chris Elfring (GREEN)

4:15- 5:15 P.M. Reports from Breakout Groups (10 minutes each) and Group Discussion

- 1: Rapporteur: Evonne Tang, GRP
- 2: Rapporteur: LeighAnne Olsen, GRP
- 3: Rapporteur: Kim Waddell, GRP
- 4: Rapporteur: Chris Elfring, GRP

5:15-5:30 P.M. Closing Comments; Meeting Adjourns for Day 1
Don Boesch/ Kim Waddell

5:45-7:00 P.M. Reception in Royal Salon B (next door to meeting room)

DAY 2: Thursday, September 4th

8:30-8:35 A.M. Welcome
Kim Waddell, Gulf Research Program

8:35-8:50 A.M. Opening Comments: Overview of the Day 2 Theme and Introduction of Speakers
Bob Carney, LSU

8:50-9:35 A.M. *Planning for Environmental Impacts in the Deep Sea: A Case Study of Deep-Sea Mining*
Cindy Van Dover, Duke University

9:35-10:05 A.M. *Oil Industry priorities for environmental monitoring: Opportunities for partnerships*
Cort Cooper, Chevron

10:05-10:20 A.M. Break

10:20-11:50 P.M. Panel Session 3:
Tasks for panelists:

- 1) *What do we need to understand of the physical and biological attributes of the deep Gulf of Mexico to enhance environmental protection from the impacts of oil exploration in the deep and ultra-deep water?*
- 2) *What opportunities for innovation and long-term monitoring should our program consider?*

7 minutes for prepared comments, followed by a panel discussion

David Yoskowitz, TAMU-CC/NOAA
Mark Benfield, LSU
Pat Roscigno, BOEM
Oscar Schofield, Rutgers
Antonio Mannino, NASA

11:50-1:00 P.M. Lunch with Guest Speaker
Gulf of Mexico data management infrastructure needs and challenges
Russ Beard, NOAA

1:15-2:45 P.M. Breakout Session 2 (3 groups—color-coded group assignments)

Context and goals: Bob Carney, LSU

- 1) *In addition the monitoring needs and opportunities for innovation identified by the panelists, are there other important ones that were not mentioned?*
- 2) *Building on the ideas and opportunities identified, what are the appropriate mechanisms for addressing those needs and opportunities?*
- 3) *What other entities, if any, are already addressing or attempting to address those needs? Are there opportunities for potential partnerships?*

1: Moderator: Molly McCammon /Rapporteur: Evonne Tang (BLUE)

2: Moderator: Bob Carney /Rapporteur: LeighAnne Olsen (RED)

3: Moderator: LaDon Swann /Rapporteur: Kim Waddell (YELLOW)

4: Moderator: Cort Cooper/ Rapporteur: Chris Elfring (GREEN)

2:45-3:00 P.M.

Break

3:00-4:00 P.M.

Reports from Breakout Groups (10 minutes each) and Group Discussion

1: Rapporteur: Evonne Tang, GRP

2: Rapporteur: LeighAnne Olsen, GRP

3: Rapporteur: Kim Waddell, GRP

4: Rapporteur: Chris Elfring, GRP

4:00-4:15 P.M.

Closing Comments

Molly McCammon, Alaska Ocean Observing System

4:15 P.M.

Meeting Adjourns