

**Agenda**  
**Linking the Ocean to the Classroom**  
**Gulf of Maine Ocean Observation Educator Workshop**  
**June 28-July 1, 2004**

**What:** Incorporating GoMOOS data in the Classroom

**When:** June 28, 29, 30, July 1, 2004

**Where:** University of New Hampshire

**Who:** Classroom Teachers 7-12 levels

**Why:** Purpose to bring classroom teachers together to learn background information on incorporating ocean observation related data into an existing curriculum.

**OBJECTIVES**

- To prepare 20 teachers with content and tools to use ocean observation data in their curricula.
- To provide expertise and time for teachers to collaborate and write an age appropriate unit utilizing assets related to ocean observation and marine biology.

**DELIVERABLES:** Teachers will...

- Learn cutting edge content in oceanography and marine biology disciplines.
- Interact with scientists who are helping shape the field of ocean observation.
- Spend an afternoon on a research cruise learning and testing scientific equipment.
- Collaborate with teachers to write a useable 2 week curriculum unit.

**SPONSORS**

- University of New Hampshire's Center for Coastal Ocean Observation and Analysis (COOA)
- Gulf of Maine Ocean Observation System (GoMOOS)

**Monday, June 28, 2004**

**Tuesday June 29, 2004**

**Wednesday June 30, 2004**

**Thursday July 1, 2004**

Brief Agenda

**Monday**

**Monday, June 28, 2004**

**MORNING SESSION**

7:00 – 8:00

Continental Breakfast at Cole Hall

8:00 – 8:30 Introduction of Sponsors  
Introduction of Participants

8:30 – 9:30 Keynote Speaker –  
Annette deCharon  
Director of Outreach at Bigelow Laboratory for Ocean Science,  
Boothbay Harbor, ME

9:30 – 10: 30 Introduction to Oceanography  
Dr. Ru Morrison is a bio-optical research scientist at UNH

BREAK – (10)

10:40 – 11: 40 Introduction to Remote Sensing  
Dr. Janet Campbell is a remote sensing research scientist at the  
University of New Hampshire

LUNCH – 12:00 – 1:00pm at Cole Hall (Catered Lunch)

**AFTERNOON SESSION**

1:00 – 4:30 Remote Sensing Lab – Cyndy Erickson and Janet Campbell

**DINNER** 5:00 - 6:00pm at Holloway Commons

Evening Speaker – Morse Hall

7:00 – 7:30 Lessons Learned - Jonah Rosenfield

Brief Agenda

**Tuesday**

**Tuesday June 29, 2004**

**MORNING SESSION**

7:00 – 8:00 Continental Breakfast

8:00 – 9:00 Ocean Observation Technology – Dr. Neal Pettigrew USM

BREAK (10)

9:10 – 10:10 GoMOOS Website Overview and Computer Session  
– Tom Shyka GoMOOS

10:15 – 11:45 Lab Walk to and through Morse Hall  
– Ocean Process Analysis Laboratory

LUNCH 11:45 – 12:45 Morse or Cole Hall

**AFTERNOON SESSION**

2:00 – 6:00 Research Cruise aboard the R/V Gulf Challenger  
*Leave campus at 1:15 to go to boat*  
*Transportation will be provided*

**DINNER** 6:45 – 8:30 Red Hook Brewery  
*Transportation will be provided*

Brief Agenda

**Wednesday**

**Wednesday June 30, 2004**

**MORNING SESSION**

8:00 – 9:00 Continental Breakfast at Cole Hall

9:00 – 10:00 Dave Townsend University of Southern Maine

BREAK (10)

10:10 – 11:00 Phytopia CD ROM Demo – Annette deCharon Bigelow Labs

BREAK (10)

11:10 – 11:30 Recap of Meeting

11:30 - 12:00 Curriculum Collaboration Initiative explained.

Teachers will be working in groups to write lesson plans that can be used next year in their classrooms. Scientists, various materials, and computers will be available as resources to help teachers achieve the goal of writing a unit around the topic of integrating ocean based data into the classroom on the theme of Predicting and Detecting Phytoplankton Blooms in the Gulf of Maine.

**LUNCH 12:00 – 1:00 at Cole Hall (catered lunch)**

1:00 – 5:00 Lab use/Curriculum Planning

**DINNER 5:00 – 6:00**

Evening Speaker – Morse Hall

7:00 – 8:00 Visualizing Ocean Observation Data – Richard Taylor

Brief Agenda

**Thursday**

**Thursday July 1, 2004**

**MORNING SESSION**

7:00 – 8:00 Continental Breakfast

8:00 – 11:00 Group Photo and Group Presentations of Units (including break)

11:00 Brainstorm units that could be explored but were not developed

**LUNCH 11:30 – 12:30**

12:00 – 2:00

Wrap up of workshop: Evaluation, Fall and Spring dates.

What kind of support would you like from us as a follow up to this workshop?