

# Linking the Ocean to the Classroom

A Workshop for Educators!  
At University of New Hampshire  
July 7 – July 11, 2008

May 23, 2008

Hello Participants,

This packet is intended to provide some background information so you can begin to prepare for the upcoming summer workshop. This packet also contains logistical information you will need before and while you are here at UNH.

## Pre-Workshop Assignments and Content Information:

As you know, the topic of this summer's workshop is *Seasons of the Sea: Understanding Change through studying data from Buoys, Boats, and Satellites*. After much thought, we have included the following items for you to read and review before you arrive at the workshop.

- A. Environmental Atlas of the Gulf of Maine ed. Philip Conkling, Chapter 1- International Commons; Chapter 4: A Garden in the Sea (see attachment)
  
- B. COSEE – Ocean Systems web interface: Please go to this website and review the interactive web-interface. There are resources that we will be using during the workshop. You can go there by typing in the following website:  
<http://cosee.umaine.edu/cfuser/index.cfm> , if this does not get you there, just Google “cosee ocean systems” this will take you to their website, then click on ocean-climate interface. After you are finished, please fill out the online survey at this web address:  
[http://www.surveymonkey.com/s.aspx?sm=1x\\_2b5CIBF5dCep9fJVYGsxx\\_3d\\_3d](http://www.surveymonkey.com/s.aspx?sm=1x_2b5CIBF5dCep9fJVYGsxx_3d_3d)
  
- C. Concept Mapping: [http://en.wikipedia.org/wiki/Concept\\_map](http://en.wikipedia.org/wiki/Concept_map) . During the workshop, we will be using the well used technique known as concept mapping to discuss content and their connections to existing and new knowledge gained during the workshop. In preparation:
  - a. Please review this basic background information by clicking on the link above.
  - b. After you have become familiar with this method of visualizing the relationships between concepts, please **construct your own concept map** about how you think seasons of the sea occur. All you need is blank paper and a pen/pencil to do this.
  - c. Bring this concept map to the workshop as we will talk about them on day one.

## General and Logistics Information:

- A. **Transportation information** (included below)
- B. **Housing:** All teachers will be staying in Congreve Hall. You will be in a double room (same gender) unless otherwise requested.
- C. **Meals:** All meals will be provided from Monday July 7 lunch to Friday July 11, lunch. Vegetarian options will be provided.
- D. **Information regarding Credit** -if you choose to sign up. (Included below).
  - Requirements: All teachers are responsible for creating one lesson by the end of the week using data and information they have learned during the week. For those that sign up to receive graduate credit will be responsible for full participation and 4 complete lessons using both data and content learned during the workshop. These will need to be turned in after the workshop concludes before a designated date.
- E. **Teacher Stipends:**
  - All full time classroom teachers will receive a stipend of \$100 a day for their participation during the workshop. During the week, all participants are asked to complete one lesson plan that features both data and content learned during the week workshop. A lesson plan template will be provided at the start of the workshop. Stipends will be distributed after the workshop ends and the lesson plan is turned in.
  - We are happy to be able to budget for stipends this year but are unable to use this money towards payment for graduate credit.
- F. **What to bring:**
  - Business casual attire
  - Closed-toed shoes for boat
  - Warm layer – fleece
  - Rain/wind breaker
  - Laptop – optional – computers will only be available during the workshop hours, the computer lab will be closed after 5pm each day.
  - Camera

**G. Contact Information:**

For Content and Workshop Details contact:

Amy Cline

[Holt.cline@gmail.com](mailto:Holt.cline@gmail.com)

Cell – 978-479-0621

For Workshop Logistics contact:

Mark Wiley

[Miley@ceunh.unh.edu](mailto:Miley@ceunh.unh.edu)

603- 749-1565

Thank you for coming!

Let us know if you have any questions.

Sincerely,

The Workshop Committee

See following pages for more information

## **Transportation:**

# GETTING TO UNH

### **FROM BOSTON, MA**

**By Airplane:** Logan International Airport is approximately 60 miles from Durham.

**By Train:** Amtrak Downeaster service provides four round-trips daily between Boston (North Station) and Portland, ME, stopping in Durham on the UNH campus seven days a week. Reserved and unreserved seating are available and a Quik-Trak ticketing machine is located at UNH. Travelers can connect to Boston South Station Amtrak service and Logan Airport via MBTA subway service or a taxi. For more information on train schedules, please consult [www.amtrakdowneaster.com](http://www.amtrakdowneaster.com) or call Amtrak at 1-800-USA-RAIL. A one-way ticket from Boston to Durham is approximately \$14.

**By Bus:** C&J Trailways Bus Lines has routes from Logan Airport to Portsmouth, NH (the Pease Tradeport). For schedules and cost, please consult [www.cjtrailways.com](http://www.cjtrailways.com) or call 1-800-258-7111. A one-way ticket from Boston to Durham is \$22. If you decide to utilize this option, please let us know so we can help get you from the bus stop to campus.

**By Airport Shuttle:** Flight Line, Inc. provides shuttle service to and from Logan and Manchester airports (1-800-245-2525). Seacoast Airport Service provides full-service chauffeured transportation company for all New England airports (1-800-992-0518). Luxury Limousine offers pick-up and drop-off services for Logan, Manchester and Portland airports (1-800-214-5172). Please call for prices.

**By Car:** Take I-95 North to Exit 4 (NH Lakes and Mountains, Spaulding Turnpike/Route 16). Continue North to Exit 6W (last exit before toll) and follow Route 4 West. Exit at Route 155A and turn left towards Durham. Follow 155A through a short stretch of fields to the UNH campus. Once at UNH, go directly to Congreve Hall to check-in and pick up your parking pass. Temporarily park in H Lot (across from Congreve) – make sure to feed the meters or you will get a ticket! (approximate driving time 90 minutes).

### **FROM PORTLAND, ME**

**By Airplane:** The Portland International Jetport is approximately 60 miles from Durham.

**By Train:** See Amtrak Downeaster description above. Take a taxi from the airport to the train station. A one-way ticket from Portland to Durham is \$13.

**By Airport Shuttle:** Seacoast Airport Service provides full-service chauffeured transportation company for all New England airports (1-800-992-0518). Luxury Limousine offers pick-up and drop-off services for Logan, Manchester and Portland airports (1-800-214-5172).

**By Car:** Take I-95 South to Exit 5. Continue on Spaulding Turnpike/Route 16 North to Exit 6W (last exit before toll) and follow Route 4 West. Exit at Route 155A and turn left towards Durham. Follow 155A through a short stretch of fields to the UNH campus. Once at UNH, go directly to Congreve Hall to check-in and pick up your parking pass.

Temporarily park in H Lot (across from Congreve) – make sure to feed the meters or you will get a ticket! (Approximate driving time 60 minutes).

### **FROM MANCHESTER, NH**

**By Airplane:** The Manchester Airport is approximately 40 miles from Durham.

**By Airport Shuttle:** See available services listed under Boston above. We have used Flight Line shuttle several times with good service. All services need reservations in advance.

**By Car:** Take Route 101 East to Epping. Go North on Route 125 to the Lee Traffic Circle. Drive East on Route 4 to the Route 155A Exit. Turn right towards Durham. Follow 155A through a short stretch of fields to the UNH campus. Once at UNH, go directly to Congreve Hall to check-in and pick up your parking pass. Temporarily park in H Lot (across from Congreve) – make sure to feed the meters or you will get a ticket! (Approximate driving time 45 minutes).

**UNH – Durham Map:** <http://www.unh.edu/map/>

Go to this website to download a map or use the interactive campus map to know where buildings are located. Key names to keep in mind include:

- Congreve Hall – Workshop Dorms
- Holloway Commons – a couple meals will be here
- Cole Hall/Thompson School – Workshop Location

### **Durham, NH**

<http://maps.google.com/maps?f=q&hl=en&geocode=&q=durham,+NH+&ie=UTF8&ll=43.105495,-70.895462&spn=0.195012,0.641327&z=11>

The link above will take you to the website “Google Maps” showing you a map of the area. This is a great way to get an idea of how far things are from each other.

During the workshop we will be traveling to the Seacoast Science Center which is Rye, NH and we will be picking up the R/V Gulf Challenger from Portsmouth, NH.

**Credit Information:**

**Want Credit for attending the 2008 UNH Summer Ocean Observing Workshop?**

Although our workshop provides PDP's or Professional Development Points, you also have the option of taking this 5 day workshop for credit. If you would like to register for graduate credit, please see the following information below.

Semester	Course	Title	CRN	Dates	Term	Days	Times	Building	Instructor	Credit
Summer 2008	896(01)+	<a href="#">Ocean Observing in the Classroom</a>	30914	7/7-7/11/08		TBA	HOURS-ARR	TBA	Campbell	4

Cost for taking the course for credit:

- NH Residents: \$1248
- Non-Residents: \$1376
- Tech Fee: \$14.50
- Registrars Fee: \$20.00
- Summer session Fee: \$25.00 (reduced from \$98.00 for 5 day course)

**TOTAL:**

NH Residents: \$1307.50

Non-NH Residents: \$1435.50

**Requirements:**

All teachers are responsible for creating one lesson by the end of the week using data and information they have learned during the week. Those who sign up to receive graduate credit must participate fully in the workshop and submit 4 complete lessons using both data and content learned during the workshop..

To register, call or fax your registration information into the UNH registrar's office.

Registration form: <http://www.learn2.unh.edu/registration/regform.pdf>

To register:

Call 603-862-1500

Fax: 603-862-0655

If you have any questions please do not hesitate to call or send an email to Amy Cline at [holt.cline@gmail.com](mailto:holt.cline@gmail.com) .