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# Visualization of Nautical Information

*Workshop logistics*

Center for Coastal and Ocean Mapping  
University of New Hampshire  
Durham, New Hampshire, USA

22-26 May 2017



# Location

USA



Figure 1 United States of America – East Coast (located within New England which is made up of Maine/ME, New Hampshire/NH, Vermont/VT, Massachusetts/MA, Connecticut/CT, and Rhode Island/RI)

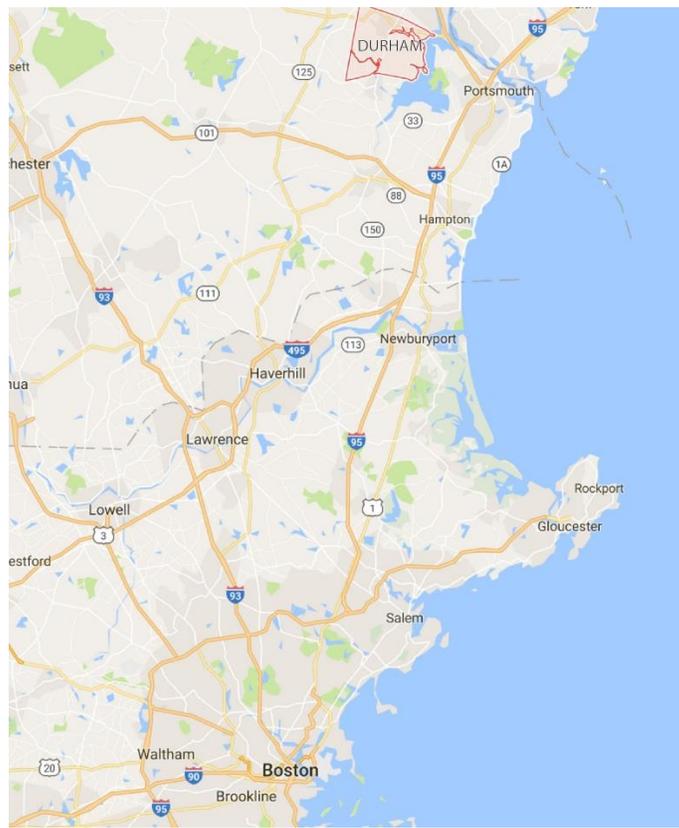


Figure 2. Durham, New Hampshire



Meetings will be held at :

**the Center for Coastal and Ocean Mapping/Joint Hydrographic Center (CCOM /JHC)**

**24 Colovs Road, Durham, NH**

43°08'07.6"N 70°56'22.0"W

We are in section H11 of the UNH campus map

(<http://www.unh.edu/transportation/sites/www.unh.edu.transportation/files/media/PDFs/Parking/map.pdf>)

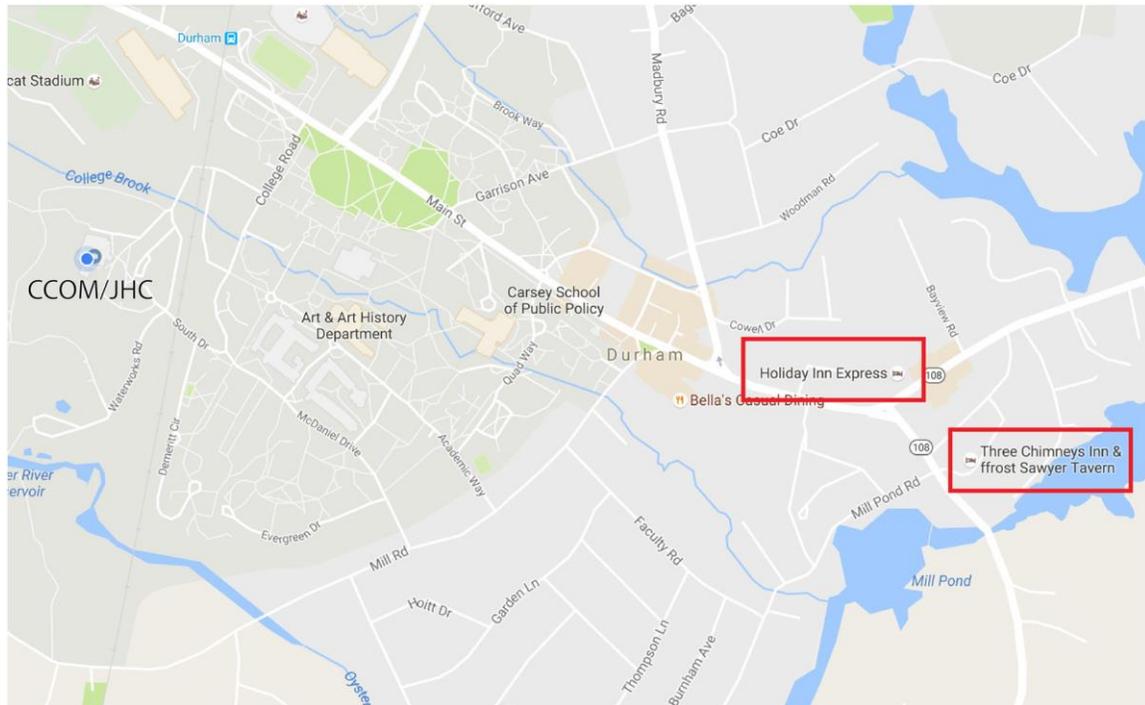


Figure 3. Locations of CCOM/JHC with respect to the Durham hotels...about a 15-20 min walk.

As you come into the main campus, you will come to a traffic light. At the light, turn onto College Road. You will pass Taylor Hall, Pettee Hall, and the fire station on your right. After approximately ½ mile, make a sharp right onto South Drive and go through the train underpass. On the other side of the underpass, turn right onto Waterworks Road. Travel a couple hundred feet and take the second left onto Colovos Road (it will be a sharp turn). After a few hundred feet, turn up the hill into the Chase parking lot. Reserved parking spaces are next to the building and will be marked with an orange sign with NIPW4/VONI on it. There is a sidewalk along the back of the building that leads to an entrance door. A building directory is immediately inside the door. We will meet in the Video Classroom room 130 (see map below)



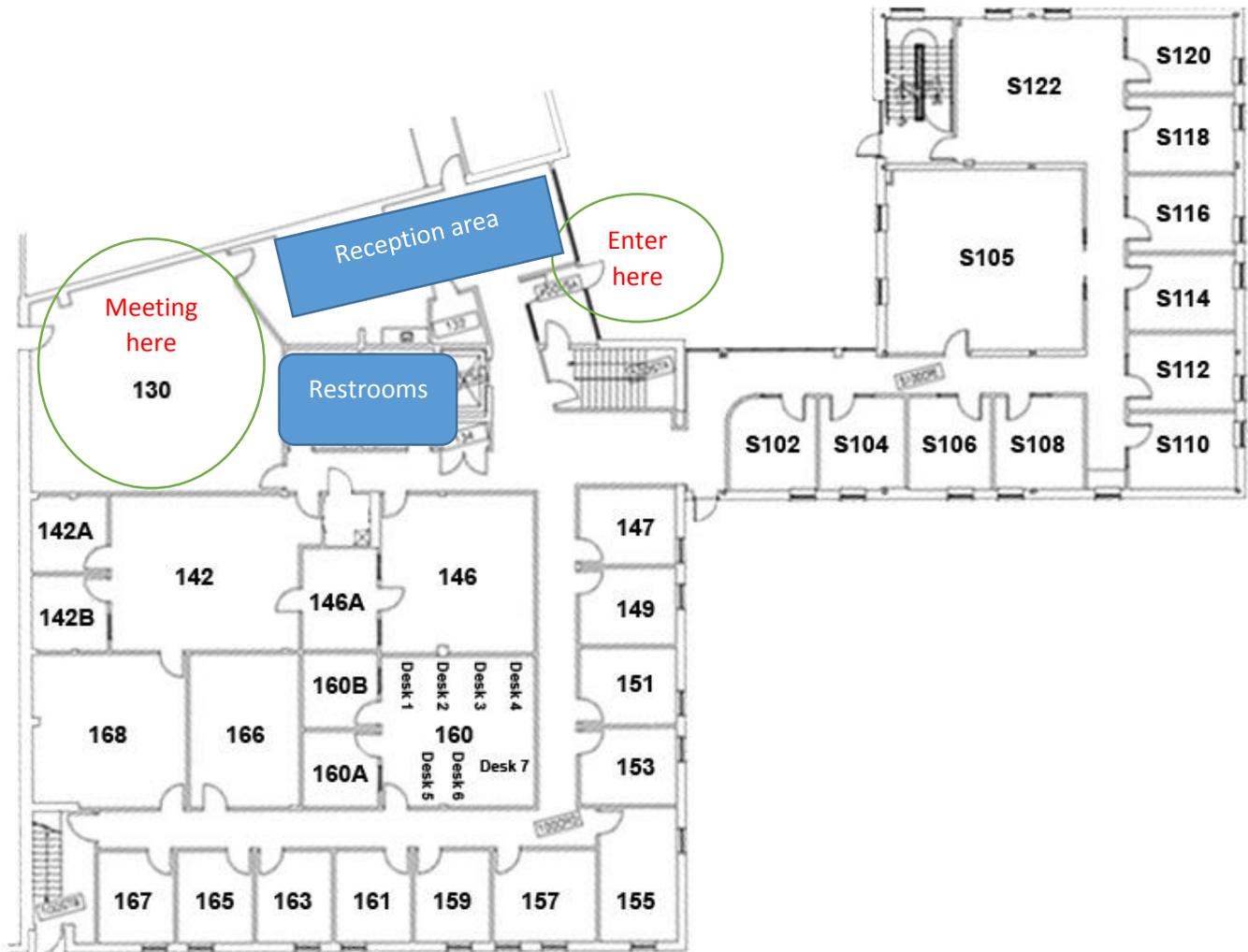


Figure 4. CCOM/JHC floor plan. Meetings in room 130. Briana Sullivan office S106.

## Transportation

You can travel through either Boston Logan International Airport (Boston, MA), or Manchester Boston Regional Airport (Manchester, NH). It is usually easier to get to Boston Logan from international locations; most flights to Manchester Boston Regional need an internal connection within the U.S. There is a regular bus service from Boston Logan to Portsmouth, NH; onward taxi service from Portsmouth, NH would be required to get to Durham. Rental cars are also available and recommended to travel with a colleague.

### Airport Information

Three area airports provide service to this portion of New England.

- [Boston-Logan International Airport](#) (BOS) is an hour-and-a-half drive from Durham
- [Manchester, NH Airport](#) (MHT) is an hour drive from Durham
- [Portland, ME Jetport](#) (PWM) is an hour drive from Durham

**Shuttle Service** can be arranged to and from the airport if a rental car is not desired

- [Flight Line Inc.](#)
- [Manchester Airport Shuttle](#)
- [East West Express](#)



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**Rental Cars** can be rented from the airports

- [Boston-Logan International Airport \(BOS\)](#)
- [Manchester, NH Airport \(MHT\)](#)
- [Portland, ME Jetport \(PWM\)](#)

It can be difficult for people under 25 to hire cars in the U.S. It is also difficult to hire a car, or check in to a hotel without a valid credit card.

**Driving Directions:** For those arriving by car, visit the [directions](#) site for directions to the Center for Coastal and Ocean Mapping-Jere Chase Ocean Engineering Lab or the [University of New Hampshire](#) or the [Holiday Inn Express](#) 2 Main St, Durham, NH.

## Services from Boston, MA

### Downeaster Train

Take the train from Boston (North Station) to Durham, NH (the final destination of the train is Portland, ME). Taking the train is a great way to avoid having to rent a car and drive in Boston. The train is convenient for a number of reasons including a free wireless connection and a cafe that serves a variety of food and beverages. Tickets can be purchased online, or at the North Station ticket booth. The trip takes about an hour and twenty minutes.

- [Amtrak Downeaster](#)

### C & J Service Shuttle

The C & J shuttle is another transportation option. It is especially convenient for people coming from, or going to, Logan Airport in Boston. The bus makes pickups at the airport 10 minutes past the hour every hour and drops passengers off in Portsmouth, NH or Dover, NH.

- [C&J Boston Schedules](#)

### Greyhound Bus

The bus offers scheduled service from Boston (South Station) to Portsmouth, NH. From Portsmouth connect to Durham from Market Square using Wildcat Transit Route 4 [Wildcat Transit](#)

- [Greyhound](#)

### Boston, MBTA (subway)

Boston MBTA (Massachusetts Bay Transportation Authority) is the most convenient way to get around the city. The MBTA takes you from the airport to the train station, as well as downtown Boston.

- [MBTA Schedules and Maps](#)

## Services from Manchester, NH

### Limousine Service



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It is recommended to make arrangements for pick-up service in advance of your arrival into Manchester, NH.

- [Bellmores Transportation](#)
- [Regal Limousine Service](#)

## Transportation to the UNH campus from Portsmouth area

### Wildcat Transit

Wildcat Transit operates Campus Connector routes within the UNH campus and public transit routes between campus and Dover, Newington, Newmarket, and Portsmouth. All routes are open to the public, and Campus Connector routes are free. The buses follow distinct weekday and weekend schedules, usually running every hour from 6:30 a.m. until 10:00 p.m.

- [Wildcat Transit](#)

### Campus Map

This campus map displays the bus stops. The UNH campus is a walking campus. It is easy to get from Holiday Inn Express Hotel to the UNH by using the campus map.

- [UNH Parking Map](#)

### The Cooperative Alliance of Seacoast Transportation (COAST) Bus

The COAST bus offers transportation around the Seacoast for those who are interested to explore New Hampshire and its cities.

- [COAST Bus](#)

## Passports and Visas

Those wishing to enter into and stay in the U.S. must hold a valid passport, or travel document, bearing the stamps, visas and authorizations required. Visa applications should be made at the U.S. Consulate or Embassy in your place of residence.

All participants should check, well before they travel, whether they will need a visa to enter the U.S. (almost everyone needs at least an ESTA). It is strongly recommended that you apply well in advance for your visa. In principle, all visitors must be able to show that they hold a return ticket.

## Hotel Accommodations

We have reserved a block of rooms at the [Holiday Inn Express, 2 Main St., Durham, NH](#). This hotel is within walking distance to UNH (See map on page 3). Please mention the NIPWG meeting when booking your reservation. There are many other accommodations within driving distance to UNH. Please see "Points of Interest" information sheet for additional accommodations.

## General Information



## Electrical Power

U.S. power is 120V/60Hz in all standard wall sockets; higher voltages do exist (with different sockets), but are typically only used for high-power appliances such as washing machines and electric cookers. Most modern buildings have three-prong (grounded) NEMA 5-15 sockets as shown below, although two-prong (ungrounded) NEMA 1-15 sockets are sometimes still found. Compatibility with international sockets is shown below. Maximum current draw for this type of socket is 15A.

North America Grounded NEMA 5-15	Japan Non-grounded JIS C 8303	Europe German style CEE7/4 Schuko	Europe French style Schuko	Europe/Russia Non-grounded CEE7/16 Europlug	Great Britain Grounded BS-1363	Great Britain "Shaver socket" BS-4573
Australia/China Grounded AS-3112	Italy Grounded CEI 23-16	Switzerland Grounded SEV-1011	Denmark Grounded SRAF 1962/DB	Israel Grounded SI 32 (IS 16A-R)	India Grounded BS-546 "Small"	South Africa Grounded BS-546 "Large"

## Currency

The U.S. uses the dollar (\$). Notes in denominations of \$1, \$5, \$10, \$20, \$50, and \$100 are in common circulation, although the \$50 and \$100 notes are less often encountered and smaller retailers, or those in more remote locations, may be reluctant to accept them (mainly for fear of counterfeiting), especially for smaller bills. There are \$2 notes, but they are extremely rare. All notes are the same basic size, and vary only slightly in colour, but are decorated with the faces of famous Americans including George Washington (\$1), Abraham Lincoln (\$5), Alexander Hamilton (\$10), Andrew Jackson (\$20), and Benjamin Franklin (\$100) on the obverse, and iconic American buildings on the reverse (except for the \$1 note). Coins in denominations of one ("cent"), five ("nickel"), ten ("dime"), and twenty-five ("quarter") cents are common; 50 cent and \$1 coins exist, but are rarely used.





### Credit/ATM Cards

Major credit cards (MasterCard, Visa, Discover, and American Express) are widely accepted and often preferred, although not all locations have chip-and-pin capable payment facilities. Debit cards are also widely accepted, and can be used in automated teller machines (ATMs) to withdraw cash at rates approximately the same that would be charged for exchanging the money elsewhere.

It can be difficult to hire a car, or check in to a hotel without a valid credit card.

### Tourist information

New Hampshire has a humid continental climate characterized by warm, humid summers and cold, wet winters. Situated close to the seacoast of New Hampshire, Durham's weather is moderated slightly by the Atlantic Ocean, but the annual snowfall ranges from 1.5m-2.5m. In May, temperatures in the range 5.0°C to 20.0°C (41°F to 68°F) are typical. Springtime is often rainy in New England.

Located in northern New England, the State of New Hampshire was originally part of the Commonwealth of Massachusetts before becoming an independent colony in 1629, and was one of the original thirteen colonies that rebelled against the British crown during the American Revolution. The fifth smallest state in the Union by land area, New Hampshire has a population of approximately 1.3 million people, mostly concentrated in the southern section of the state. Durham, NH is one of the older communities in the U.S., being established in 1635 by pioneers travelling upriver from the main settlements on the Atlantic coast. Originally mainly agricultural, Durham is most known for being the home of the University of New Hampshire. The University was established in 1866 as a land grant college in conjunction with Dartmouth College, moved to Durham in 1893, and became a University in 1923. Now a land, sea, and space grant public research university, the University of New Hampshire's Durham campus is the flagship campus of the University System of New Hampshire.

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The Center for Coastal and Ocean Mapping and NOAA/UNH Joint Hydrographic Center (CCOM/JHC) was established through a memorandum of understanding between the University and the National Oceanic and Atmospheric Administration (NOAA) in 1999, with the dual mission to conduct cutting edge research in ocean mapping with particular emphasis on mapping for hydrographic surveying, and to educate the next generation of ocean mappers. Continuously funded since 1999, CCOM/JHC now consists of approximately 95 faculty, staff, and students. The Center conducts research in all areas of ocean mapping from acoustic system design to data visualization and cartography, and is one of only two recognized IHO Category A hydrographic training courses in North America.

## Local Points of Interest

### Durham area, NH (College town)

#### [Durham Map and Guide](#)

Casual dining options in:

- [Durham, NH](#)
- [Newmarket, NH](#) (town south of Durham)
- [Dover, NH](#) (town north of Durham)

Places to visit in Durham, NH for walking/nature

- [Adam's Point Wildlife Management Area](#)
- [Wagon Hill Farm](#)
- [College Woods](#)
- [Sweet Trail](#)

### Newington, NH (Shopping/entertainment mecca)

Newington is a 17 min drive to Durham (with bus service to Durham) and a good alternative to staying in Durham. There are many hotel, shopping and casual dining options.

- [The Mall at Fox Run](#) (shopping center)
- [The Crossings](#) (shopping center)
- [Regal Fox Run Stadium](#) (movie theaters)

### Portsmouth, NH (Historic and quaint)

Dining options in [Portsmouth, NH](#)

#### [Explore Portsmouth, NH](#)

- [Historic Strawberry Banke](#)
- [Portsmouth Harbor Cruises](#)
- [The Music Hall](#)
- [Granite State Growler Tours](#)
- [Albacore Park](#)
- [Gundalow Company](#)
- [Places to Stay](#)



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## Visiting New Hampshire

New Hampshire Basics for International Visitors

- White Mountain National Forest
- NH State Parks
- Camping

## Hiking in New England

### Out of State (but nearby)

#### Maine (North)

##### Kittery

- The Kittery Outlets (shopping)
- The Kittery Trading Post (shopping)

##### York

- The Mount Agamenticus Conservation
- Stonewall Kitchen
- York Beach

##### Ogunquit

- **Arts and Culture**
- **Fishing, Kayaking, Surfing**
- **Hiking and Biking**

##### Freeport

- **LL Bean (shopping)**

##### Portland

#### Massachusetts (South)

##### Newburyport

##### Cape Ann

##### Boston

- Faneuil Hall Marketplace
- The Freedom Trail
- The Prudential Center
- The Wang Theatre
- Museum of Science
- The Paul Revere House

