



Graphing and Download Web Guide

Step by step instructions on how to
download and graph ocean
observing buoy data using the
NERACOOS website

Note: This is the same tool that was previously available through GoMOOS. GoMOOS has merged with the Gulf of Maine Research Institute. The buoys in the Gulf of Maine are still operated by the University of Maine and funded through NERACOOS, the Northeastern Regional Association of Coastal Ocean Observing Systems. See www.neracoos.org/gomoos for more information.

Follow the visual and written instructions to guide you.

To access the Graphing and Download tool, visit the NERACOOS website (www.neracoos.org). In the menu bar at the top, click on “Data and Tools”, then “Historical Data”, then “Graphing and Download”.

Or use this direct link:

http://www.neracoos.org/datatools/historical/graphing_download

The screenshot shows the NERACOOS website interface. At the top, the logo reads "INTEGRATED OCEAN OBSERVING SYSTEM" and "NERACOOS Northeastern Regional Association of Coastal and Ocean Observing Systems". A navigation menu includes "Home", "About", "Data & Tools", "Focus Areas", "News and Events", "Education", "Feedback", and "GoMOOS". The "Data & Tools" menu is open, showing options: "Real-Time Data", "Forecast", "Historical Data", "Data Access", "Ocean and Weather Climate Display", "Graphing and Download", "Satellite Information", and "Wave Glider and Fetch Node Mission". The "Graphing and Download" option is highlighted. Below the menu, a graph titled "Daily Climatology" displays "Mean Water Temperature 3 meter depth at A03 for 2001 thru 2013". The graph shows a seasonal cycle with temperatures ranging from approximately 5°C in winter to 25°C in summer. A "Daily Means for 2013" line is overlaid on the historical data. To the right, a "Real Time Data Portal" section lists "Latest Conditions": "Highest winds: 44 knots (50 mph, 81 kph) | CMAN IOSN3 - Isle of Shoals | 10:00 AM", "Biggest waves: 0.0 ft (0.0 m) | SmartBay SMB-MO-05 - Come By Chance Point, Placentia Bay, NL, CA | 10:23 AM", and "Hourly information developed for marine operations. Includes wind, wave, visibility, air temperature, water temperature at various depths and more. Real-time, forecast and historical data is available from NERACOOS partners, NOAA and other regional monitoring efforts." At the bottom, there are sections for "Ocean Climate Information" and "NERACOOS Data and Tools" with sub-sections for "WAVE FORECAST" and "GRAPHING/DOWNLOAD".

This is the introduction page, click the “click here to begin” button.

IOOS INTEGRATED OCEAN OBSERVING SYSTEM

NERACOOS

Northeastern Regional Association of Coastal and Ocean Observing Systems

Home About **Data & Tools** Focus Areas News and Events Education Feedback GoMOOS

Real-Time Data Forecast Historical Data Data Access

Home > Data & Tools > Historical Data >

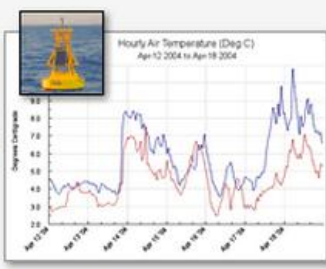
Graphing and Download

1. Introduction 2. Data Types 3. Time Periods 4. Locations 5. Report

Welcome to the NERACOOS Graphing and Download Tool!

Weather and sea condition data are collected from buoys in the northeast.

These pages are designed to help you access the collected data in order to enhance your work, study or play!



Let's get started...
[Click here to begin](#)

If you are having problems with Graphing & Download, [click here](#).

Data accessed through Graphing and Download is REALTIME data. For NERACOOS Buoy Historical Data (Realtime qc'd with Post-Recovery) see the [Gulf of Maine Moored Buoy Program](#) or use our [OPeNDAP Server](#).

View the following types of data:

- air temperatures
- water temperatures
- wind direction & speed
- wave heights
- salinity
- ... and many more!

Output your data to:


- text files (CSV) (best for import into MS Excel spreadsheets)
- html tables
- graphs

Click the pull down arrow next to the “Select” box to see what data types are available. Then click on the data type you are interested in.

1. Introduction **2. Data Types** **3. Time Periods** **4. Locations** **5. Report**

Your selected data types appear in the box on the right. You can use the box at any time to remove data types. Add more data types now...

- OR - [Create report now](#)

Data type: Select ... 

- Select ...
- Air Temperatures
- Atmospheric Pressure
- Chlorophyll
- Current Direction
- Current Speed
- Density
- Dissolved Oxygen
- Percent Oxygen Saturation
- PAR
- Salinity
- Turbidity
- Visibility
- Water Temperatures**
- Wave Height
- Wave Period
- Wind Direction
- Wind Gust
- Wind Speed

Selected Data Type(s) [remove all](#)

- Daily Average Water Temperatures (Deg F)

Selected Time Period(s) [Add more](#) [remove all](#)

- From 2012-01-01 0:00 to 2012-05-01 0:00

Selected Location(s) [Add more](#) [remove all](#)

- Central Maine Shelf (E01)
- Central Maine Shelf (E01): 1m
- Central Maine Shelf (E01): 2m
- Central Maine Shelf (E01): 20m
- Central Maine Shelf (E01): 50m

Start over: [erase all selections](#)

Next, Select how you would like to aggregate the data.

When graphing longer time periods consider using a daily, weekly, or monthly average. Some data types have multiple units (e.g. Temperature C or F) that you can choose from. Then click the “Add Data Type” button.

The screenshot shows a web interface with five tabs: 1. Introduction, 2. Data Types, 3. Time Periods, 4. Locations, and 5. Report. The '2. Data Types' tab is active. On the left, there is a section titled 'Select a data type:' with instructions: 'Use the menus below to add a data type to your report. Your currently selected data type(s) appear to the right.' Below this are three dropdown menus: 'Data type:' set to 'Water Temperatures', 'Specify:' set to 'Daily Average', and 'Unit:' set to 'Degrees Fahrenheit'. A red circle highlights the 'Add Data Type' button. On the right, there are three panels: 'Selected Data Type(s)' showing '<none selected>', 'Selected Time Period(s)' with an 'Add periods' link and '<none selected>', and 'Selected Location(s)' with an 'Add locations' link and '<none selected>'. At the bottom right, there is a 'Start over: erase all selections' button.

Once you've selected data, it will show up in the "Selected Data Types" box on the right.

Either add more data types here, or click "Continue"

1. Introduction **2. Data Types** **3. Time Periods** **4. Locations** **5. Report**

Data type added!
Your selected data types appear in the box on the right. You can use the box at any time to remove data types. Add more data types now...

- OR - [Continue -->](#)

Data type:

Selected Data Type(s)
1. Daily Average Water Temperatures (Deg F) [remove all](#)

Selected Time Period(s) [Add periods](#)
<none selected>

Selected Location(s) [Add locations](#)
<none selected>

Start over: [erase all selections](#)

Now, select a predetermined time period or a custom time period. You can change the output time zone if needed. Then click “Add Selection” to continue.

1. Introduction **2. Data Types** **3. Time Periods** **4. Locations** **5. Report**

Select time periods:

Select time periods using the form below to add them to your report. Use the radio buttons for quick selection, or use the time controls to make a custom selections (the "custom time" option will be automatically selected for you). The checkbox labelled "relative time" keeps your report constantly updated to the present; this is useful if you want to re-run the same report in the future. Uncheck the box to have the exact dates of the report permanently preserved. The time zone applies to all your time selections and can be changed at any time.

Output time zone: UTC

Relative to time report is generated

Preceding interval **Current period**

Last 24 Hours Today
 Last 7 Days This Week
 Last Month This Month
 Last 90 Days Current Quarter
 Last Year This Year

Custom time (UTC) Please limit your request to a total of 1 year or less.

	Year	Month	Day	Hour
From:	2012	01	01	00
To:	2012	04	01	00

Selected Data Type(s) [Add more](#)
1. Daily Average Water Temperatures (Deg F)

Selected Time Period(s)
<none selected>

Selected Location(s) [Add locations](#)
<none selected>

Start over: [erase all selections](#)

You can add more time periods, or click “Continue”

1. Introduction **2. Data Types** **3. Time Periods** **4. Locations** **5. Report**

Your selected time periods appear in the box on the right. You can use the box at any time to modify time periods, or use the checkboxes below. You can add more time periods...

- OR -

Select time periods using the form below to add them to your report. Use the radio buttons for quick selection, or use the time controls to make a custom selections (the "custom time" option will be automatically selected for you). The checkbox labelled "relative time" keeps your report constantly updated to the present; this is useful if you want to re-run the same report in the future. Uncheck the box to have the exact dates of the report permanently preserved. The time zone applies to all your time selections and can be changed at any time.

Output time zone:
UTC

Selected Data Type(s) [Add more](#)
1. Daily Average Water Temperatures (Deg F)

Selected Time Period(s)
1. From 2012-01-01 0:00 to 2012-04-01 0:00

Selected Location(s) [Add locations](#)
<none selected>

Start over: [erase all selections](#)


Here you will select the location and depth you would like to see data from. Then click “Update Selection”.


[1. Introduction](#) [2. Data Types](#) [3. Time Periods](#) **4. Locations** [5. Report](#)

Select a data type:
Select time periods below and add it to your report. Your currently selected time period(s) appear to the right.

NERACOOS Buoys:

- Massachusetts Bay (A01)
 - 1m 2m 20m 50m
- Western Maine Shelf (B01)
 - 1m 2m 20m 50m
- UNH Coastal Marine Lab Field Station (CML)
- Appledore Island (C02)
- Lower Harpswell Sound (D02)
 - 2m 10m 20m
- Central Maine Shelf (E01)
 - 1m 2m 20m 50m
- DeepCwind Test Site (E02)
 - 1m 2m 20m 50m
- Penobscot Bay (F01)
 - 1m 2m 20m 50m

Selected Data Type(s) [Add more](#)
1. Daily Average Water Temperatures (Deg F) 
[remove all](#)

Selected Time Period(s) [Add more](#)
1. From 2012-01-01 0:00 to 2012-04-01 0:00 
[remove all](#)

Selected Location(s)
<none selected>

Start over: [erase all selections](#)

Data in this tool is available from the following locations:

NERACOOS Buoys:

Massachusetts Bay (A01)
Western Maine Shelf (B01)
UNH Coastal Marine Lab Field Station (CML)
Appledore Island (CO2)
Lower Harpswell Sound (D02)
Central Maine Shelf (E01)
DeepCwind Test Site (E02)
Penobscot Bay (F01)
DeepCwind Castine Test Site (F02)
Great Bay, NH (GREAT_BAY)
Eastern Maine Shelf (I01)
Jordan Basin (M01)
SAMP MD S (MDS02)
Northeast Channel (N01)
Mouth of Placentia Bay, NL, Canada (SMB-MO-01)
Pilot Boarding Station, Red Island Shoal, Placentia Bay, NL, CA (SMB-MO-04)
Come By Chance Point, Placentia Bay, NL, CA (SMB-MO-05)
Execution Rocks Long Island Sound (44022)
Central Long Island Sound (44039)
Western Long Island Sound (44040)
Eastern Long Island Sound (44060)
New London Ledge Light (LDLC3)

NDBC Buoys and C-Man Stations:

Cashes Ledge (44005)
Casco Bay (44007)
Nantucket (44008)
Georges Bank (44011)
Boston Harbor (44013)
23 Nautical Miles Southwest of Montauk Point, NY (44017)
SE Cape Cod (44018)
NANTUCKET SOUND (44020)
Jonesport, ME (44027)
Jeffrey's Ledge (44098)
East Scotia Slope (44137)
La Have Bank (44150)
Halifax Harbor (44258)
Great Bay Reserve, NH (BGXN3)
Buzzards Bay (BUZM3)
Block Island, RI (CDIP154)
Halifax Harbor, CA (CDIP176)
Isle of Shoals (IOSN3)
Mt Desert Rock (MDRM1)
Matinicus Rock (MISM1)
Narragansett Bay Reserve, RI (NAXR1)
Waquoit Bay Reserve, MA (WAXM3)
Wells Reserve, ME (WEXM1)

Once the location is added, it should appear on the right. Here you can modify your searches, or to continue, click “Get Report Now” to request data.

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Your selected location appear in the box on the lower right. You can use the box at any time to modify locations. You can now add or remove locations...

- OR - **Create report now**

NERACOOS Buoys:


- Massachusetts Bay (A01)
 - 1m 2m 20m 50m
- Western Maine Shelf (B01)
 - 1m 2m 20m 50m
- UNH Coastal Marine Lab Field Station (CML)
- Appledore Island (CO2)
- Lower Harpswell Sound (D02)
 - 2m 10m 20m
- Central Maine Shelf (E01)
 - 1m 2m 20m 50m
- DeepCwind Test Site (E02)
 - 1m 2m 20m 50m
- Penobscot Bay (F01)
 - 1m 2m 20m 50m
- DeepCwind Castine Test Site (F02)

Selected Data Type(s) [Add more](#)

1. Daily Average Water Temperatures (Deg F) 


[remove all](#)


Selected Time Period(s) [Add more](#)


1. From 2012-01-01 0:00 to 2012-04-01 0:00 


[remove all](#)


Selected Location(s)

1. Western Maine Shelf (B01) 

2. Western Maine Shelf (B01): 1m 

3. Western Maine Shelf (B01): 2m 

4. Western Maine Shelf (B01): 20m 

5. Western Maine Shelf (B01): 50m 

[remove all](#)

Start over: [erase all selections](#)

The more data you request, the longer the query may take, please be patient.

1. Introduction **2. Data Types** **3. Time Periods** **4. Locations** **5. Report**

Preparing data ... 40% remaining.
Larger data sets may require significant time to run ...
please be patient!

● ● ● ●

Other Report Options
[Start over - erase all selections](#)

Selected Data Type(s) [Add more](#)

1. Daily Average Water Temperatures (Deg F) 

[remove all](#)

Selected Time Period(s) [Add more](#)

1. From 2012-01-01 0:00 to 2012-05-01 0:00 

[remove all](#)

Selected Location(s) [Add more](#)

1. Central Maine Shelf (E01) 

2. Central Maine Shelf (E01): 1m 

3. Central Maine Shelf (E01): 2m 

4. Central Maine Shelf (E01): 20m 

5. Central Maine Shelf (E01): 50m 

[remove all](#)

After the request is completed, you can choose the format you would like to see your graph in by checking off the appropriate box. Then click the “View report now” button to complete.

1. Introduction 2. Data Types 3. Time Periods 4. Locations 5. Report

Data prepared.

Select a format for your report:

Graph

Use combined graphs when possible:

For multiple locations and depths

HTML Table

Text File - CSV (suitable for import into MS Excel)

Text File - ASCII (suitable many other uses)


Create report:

View report now!

Other Report Options


[Start over - erase all selections](#)

Selected Data Type(s) [Add more](#)

1. Daily Average Water Temperatures (Deg F) 


[remove all](#)


Selected Time Period(s) [Add more](#)


1. From 2012-01-01 0:00 to 2012-04-01 0:00 


[remove all](#)


Selected Location(s) [Add more](#)

1. Central Maine Shelf (E01) 

2. Central Maine Shelf (E01): 1m 

3. Central Maine Shelf (E01): 2m 

4. Central Maine Shelf (E01): 20m 

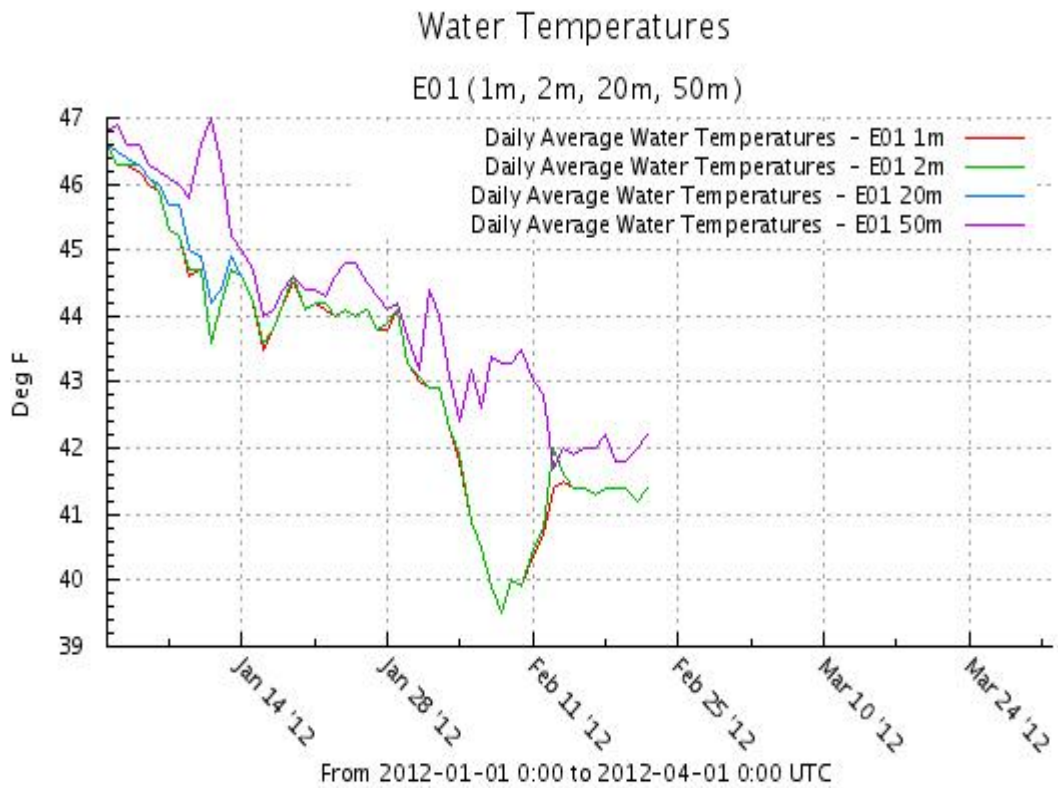
5. Central Maine Shelf (E01): 50m 

[remove all](#)

Start over: [erase all selections](#)

Tell us what you think: [click here.](#)

Your graph will the be displayed.



If you want to start over, click on “Start over-erase all selections”

1. Introduction 2. Data Types 3. Time Periods 4. Locations 5. Report

Data prepared.

Select a format for your report:

Graph

Use combined graphs when possible:

For multiple locations and depths

HTML Table

Text File - CSV (suitable for import into MS Excel)

Text File - ASCII (suitable many other uses)


Create report:

[View report now!](#)

Other Report Options


[Start over - erase all selections](#)

Selected Data Type(s) [Add more](#)

1. Daily Average Water Temperatures (Deg F) 


[remove all](#)


Selected Time Period(s) [Add more](#)


1. From 2012-01-01 0:00 to 2012-04-01 0:00 


[remove all](#)


Selected Location(s) [Add more](#)

1. Central Maine Shelf (E01) 

2. Central Maine Shelf (E01): 1m 

3. Central Maine Shelf (E01): 2m 

4. Central Maine Shelf (E01): 20m 

5. Central Maine Shelf (E01): 50m 

[remove all](#)

Start over: [erase all selections](#)

Tell us what you think: [click here.](#)