

# MyCoast Connecticut

A pilot project for New London, Groton, and Stonington

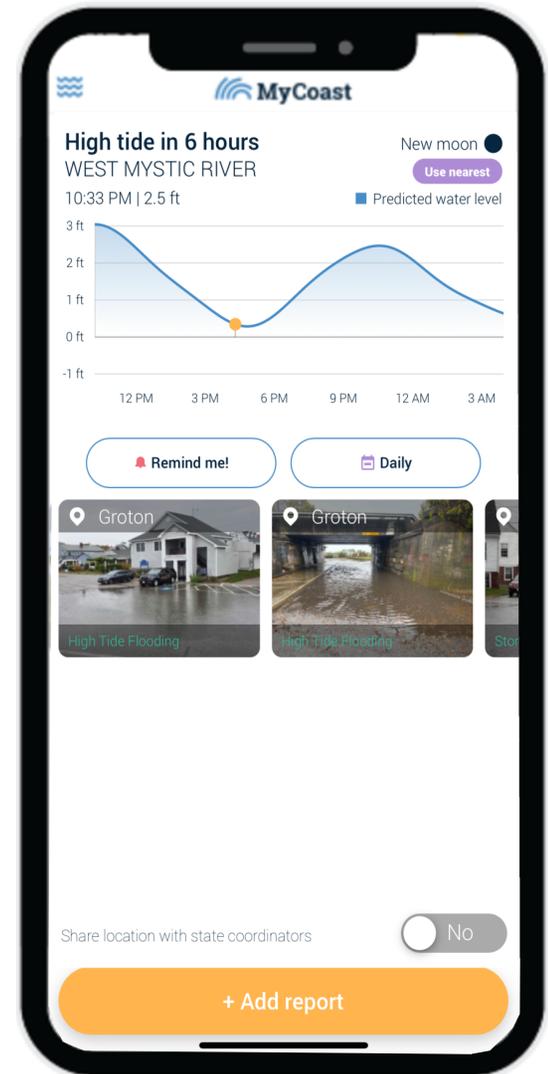


# MyCoast CT



MyCoast is a free, user-friendly app for people to upload photos of **coastal flooding, storm damage, and extreme high tide events** in their community.

Download the MyCoast App, or visit <https://mycoast.org/ct> to upload photos to a public database.

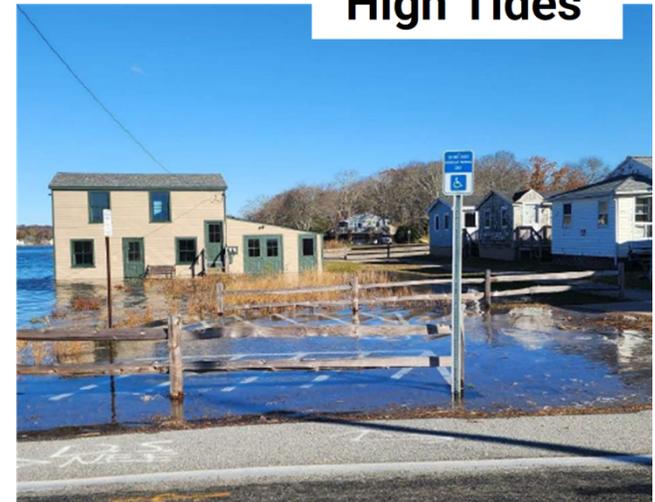


## How are we using MyCoast?

- Raise public awareness of local flooding and storm preparedness.
- Identify areas repeatedly affected by flooding.
- Monitor changes in shoreline conditions over time.
- Inform state and local resilience planning and storm response strategies.



**High Tides**



**Storm Damage**



## Monthly High Tide Alerts:



# Snap. Report. Inform.



[View as Webpage](#)

Each month, certain high tides rise higher than normal, sometimes leading to flooding in low-lying coastal areas—even on clear, sunny days. These events provide a valuable opportunity to observe how water levels are changing along Connecticut's coast.

You can help us track these tides by taking and sharing photos during these events using the [MyCoast app](#).

## Highest High Tides - October

Below are the dates and time windows when tides will be higher than usual.

### High Tide Outlook:

- October 8 | 7:20am - 11:00am
- October 9 | 10:30am - 11:50am
- October 10 | 11:10am - 12:40pm
- October 11 | 12:00pm - 1:30pm

## How to Submit a Photo

Whether it's during an extreme high tide, after a storm, or on a clear day, your observations make a difference. Please take safety precautions while taking photos.

## Storm Alerts:

[View as Webpage](#)

## Powerful Nor'easter This Weekend

As we head into the weekend we are anticipating a nor'easter that could bring heavy rainfall, coastal flooding, strong winds, and more opportunities for MyCoast photos from Sunday into Monday. If you're in New London, Groton, Stonington, or nearby areas, your observations through the MyCoast App can help us better understand and respond to these events. Check out the safety guidance below and share what you see this weekend.

Thank you to everyone who has captured photos of flooding and high tides so far. Reports are now publicly available [here](#), and you can see some recent ones below.



Photos: Stonington (top left), Stonington (bottom left), Groton (right)

## MyCoast Can Help

With the [MyCoast app](#), you can document local impacts like:



**MyCoast:**

# New York

## Help document New York's changing water levels and weather impacts

The MyCoast New York portal is used to collect and analyze photos of changing water levels, shorelines, and hazardous weather impacts across New York's varied coasts and water bodies. Photos are linked to real-time environmental conditions to create reports that help stakeholders like government agencies, business owners, and residents understand our changing environment and make informed decisions.










**MyCoast: New Jersey**

## Help Document our Changing Coast

The MyCoast: New Jersey portal is used to collect and analyze photos of coastal events and places. Photos are linked to data about weather and tides to create reports that help stakeholders like government agencies, business owners, and residents to understand



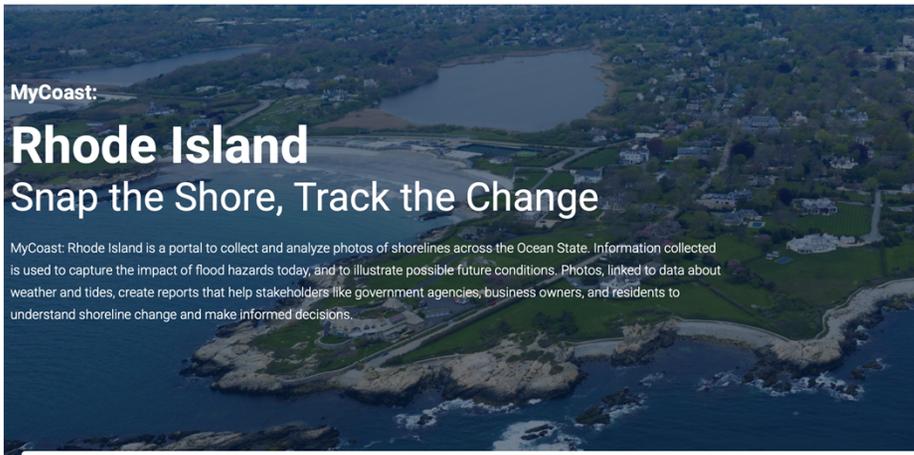
**MyCoast:**

# Massachusetts

## A project of the Massachusetts Office of Coastal Zone Management

MyCoast: Massachusetts is a portal for the Massachusetts Office of Coastal Zone Management to collect and share photos and observations of coastal flooding, coastal storm impacts, and shoreline adaptation. MyCoast reports help increase awareness of coastal hazards and inform coastal management. Scroll down to view reports and learn how to submit your own.





**MyCoast:**

# Rhode Island

## Snap the Shore, Track the Change

MyCoast: Rhode Island is a portal to collect and analyze photos of shorelines across the Ocean State. Information collected is used to capture the impact of flood hazards today, and to illustrate possible future conditions. Photos, linked to data about weather and tides, create reports that help stakeholders like government agencies, business owners, and residents to understand shoreline change and make informed decisions.








MyCoast:

# Connecticut

## Join a pilot project for New London, Groton, and Stonington

MyCoast: A Pilot for Groton, New London, and Stonington invites residents to take photos of high tides, flooding, and storm damage. Submit your photos to support local planning, increase awareness, and build a stronger, more resilient shoreline for all! Help create an important record of how your community experiences coastal flooding and storm events.

For project update, please visit the [Connecticut Sea Grant MyCoast Homepage](#).

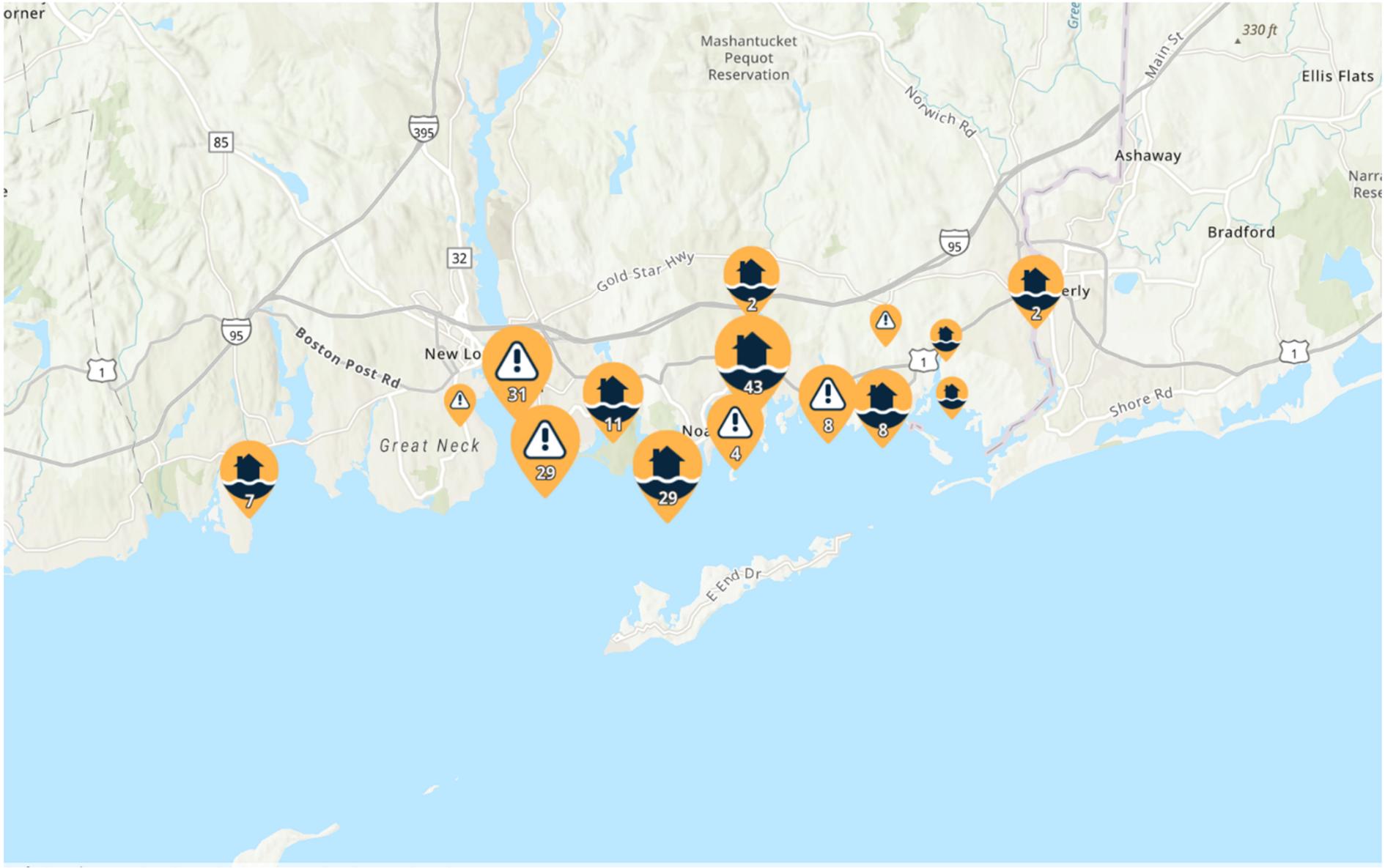
STREET FLOODED



<https://mycoast.org/ct>



Click “Search Reports” to view  
recently uploaded photos



## Filter Reports

All Report Types



All Counties



All Communities

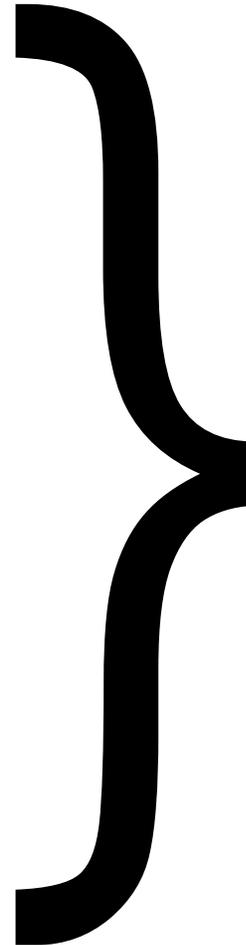


All Localities



Start date

End date



Filter report results  
to match type,  
location and/or  
date range

# Groton Long Point Police Station



Photo Credit: M. White

## Example MyCoast Report 1

**10/20/2025 | 9:57 am**

### Tidal Overview

1 hours 6 minutes after high tide

Data from **WEST MYSTIC, MYSTIC RIVER** (2.9 miles away)

High Tide (Predicted): 8:51 am, 3.1'

■ Predicted water level ● Report time

Time	Predicted Water Level (ft)
6 AM	0.5
9 AM	3.1
12 PM	0.5
3 PM	0.2
6 PM	1.5
9 PM	2.5

[\(Click here for full tide details from NOAA Tides & Currents\)](#)

### Weather Overview

Wind Speed: 23 MPH  
Wind Direction: S (180°)  
Temperature: 62°F  
Rainfall (Calendar Day): 0.287"  
Rainfall (Past 24 Hours): 0.81"

[\(Click here for full weather details\)](#)

# Pearl Street in Mystic



Photo Credit: K. Lund

## Example MyCoast Report 2

10/20/2025 | 9:35 am

### Tidal Overview

0 hours 44 minutes after high tide

Data from **WEST MYSTIC, MYSTIC RIVER** (0.9 miles away)

High Tide (Predicted): 8:51 am, 3.1'



[\(Click here for full tide details from NOAA Tides & Currents\)](#)

### Weather Overview



Wind Speed: 21.9 MPH

Wind Direction: S (180°)

Temperature: 62°F

Rainfall (Calendar Day): 0.22"

Rainfall (Past 24 Hours): 0.81"

[\(Click here for full weather details\)](#)

# Pine Island Road in Groton



Photo Credit: S. Schechter

## Example MyCoast Report 3

10/20/2025 | 9:57 am

### Tidal Overview

1 hours 6 minutes after high tide

Data from WEST MYSTIC, MYSTIC RIVER (2.9 miles away)



[\(Click here for full tide details from NOAA Tides & Currents\)](#)

### Weather Overview



Wind Speed: 23 MPH
Wind Direction: S (180°)
Temperature: 62°F
Rainfall (Calendar Day): 0.287"
Rainfall (Past 24 Hours): 0.81"

[\(Click here for full weather details\)](#)

# Shore Avenue in Groton



Photo Credit: C. Patrick

## Example MyCoast Report 4

10/13/2025 | 4:24 pm

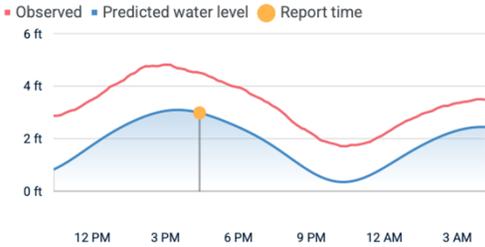
### Tidal Overview

0 hours 54 minutes after high tide

Data from **NEW LONDON, STATE PIER** (3.6 miles away)

Water Level (at time of report): 4:24 pm, 4.5'

High Tide (Predicted): 3:30 pm, 3.1'



[\(Click here for full tide details from NOAA Tides & Currents\)](#)

### Weather Overview



Wind Speed: 23 MPH

Wind Direction: NE (40°)

Temperature: 55°F

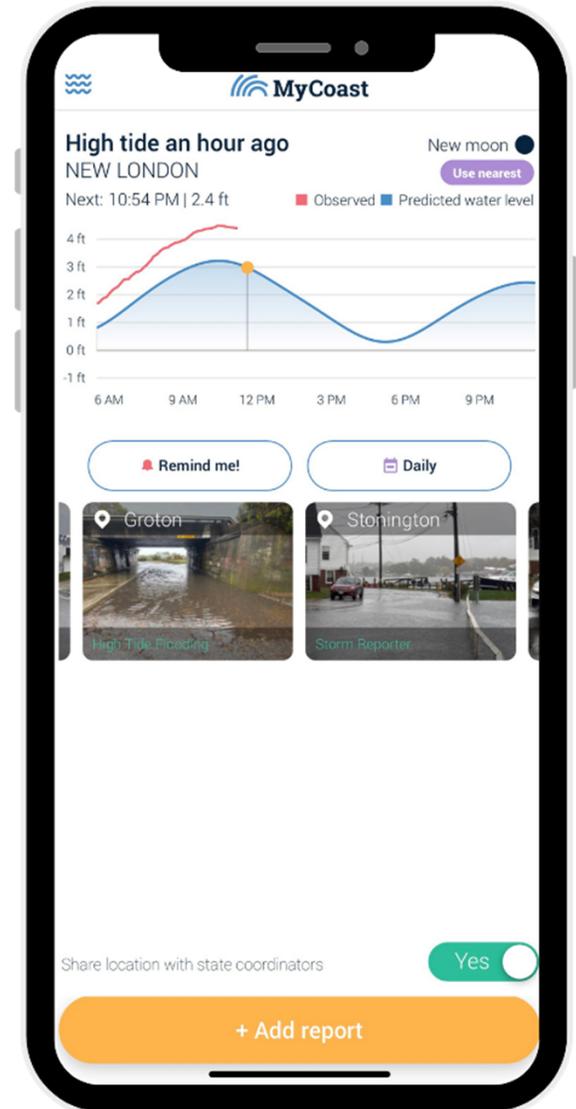
Rainfall (Calendar Day): 0"

Rainfall (Past 24 Hours): 1.15"

[\(Click here for full weather details\)](#)

# Add a report

- Click add report and complete the prompts to submit a photo to the MyCoast database



### Select report type

Reports available in Connecticut

- High Tide Flooding**  
Capturing the Location & Extent of Tidal Flooding
- Storm Reporter**  
Capturing Connecticut Storms

### High Tide Flooding

- Take photo
- Select photo from library
- Select video clip from library

Date of Photo  
October 27, 2025

Time of Photo  
04:44 PM

Comments  
Type here...

1 2

Next →

### Storm Reporter

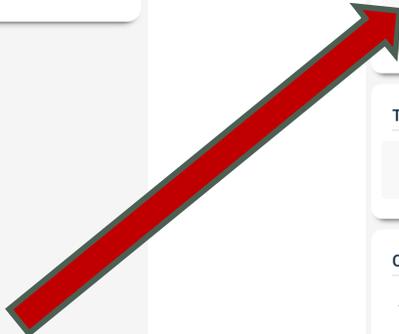
- Take photo
- Select photo from library
- Select video clip from library

Date of Photo  
October 27, 2025

Time of Photo  
04:45 PM

1 2 3

Next →



 **Storm Reporter**

Impacts to report?  No

1 — 2 — 3

← Previous **Next →**



 **Storm Reporter**

Impacts to report?  Yes

**Impact Details**

Is there flooding?  No

Impacts to roads?  No

Impacts to structures?  No

Impacts to natural resources?  No

Impacts to beach/shoreline?  No

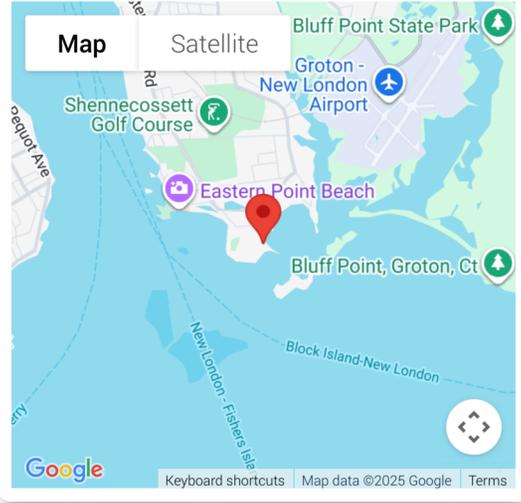
1 — 2 — 3

← Previous **Next →**



 **Storm Reporter**

*Click on map to set location.*



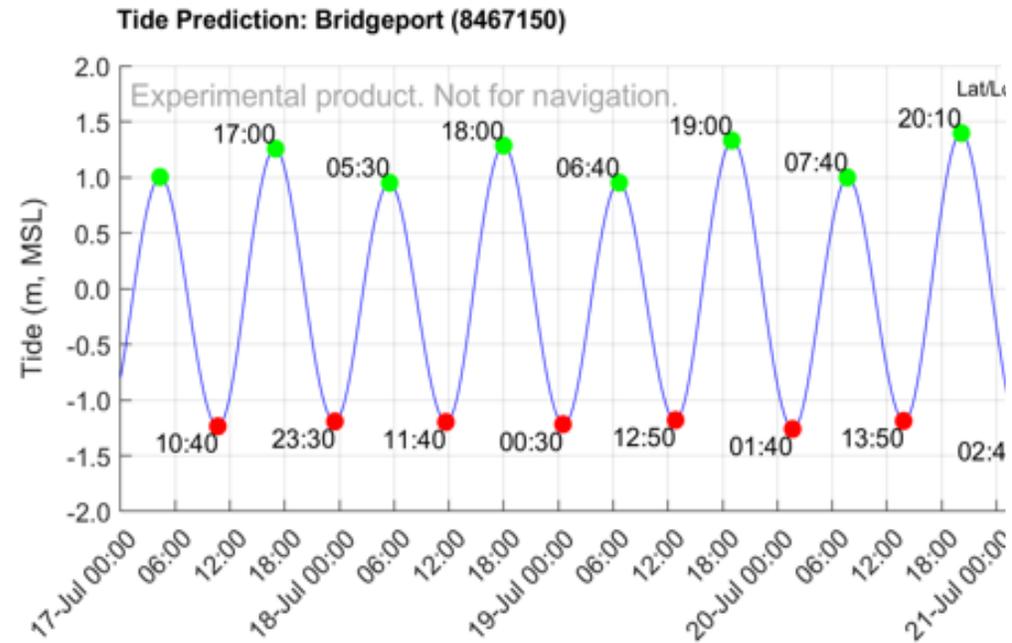
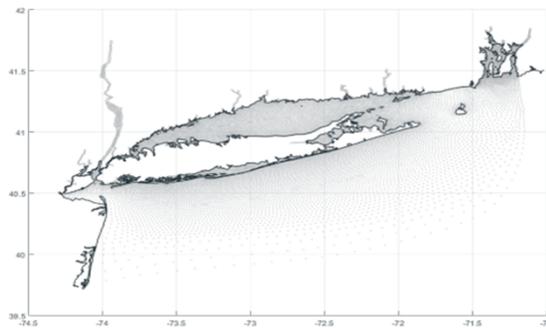
By clicking "SUBMIT," I authorize this photo & data to be used with or without attribution.

1 — 2 — 3

← Previous **Submit!**

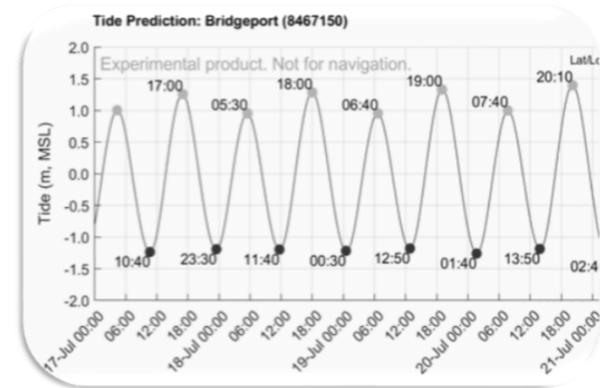
# Tide Prediction System

- Long Island Sound exhibits a relatively strong spring-neap cycle.
- Spring tidal ranges vary from ~ 4.6 ft in the east.
- During neap tides, those ranges are reduced to ~ 1.3 ft.

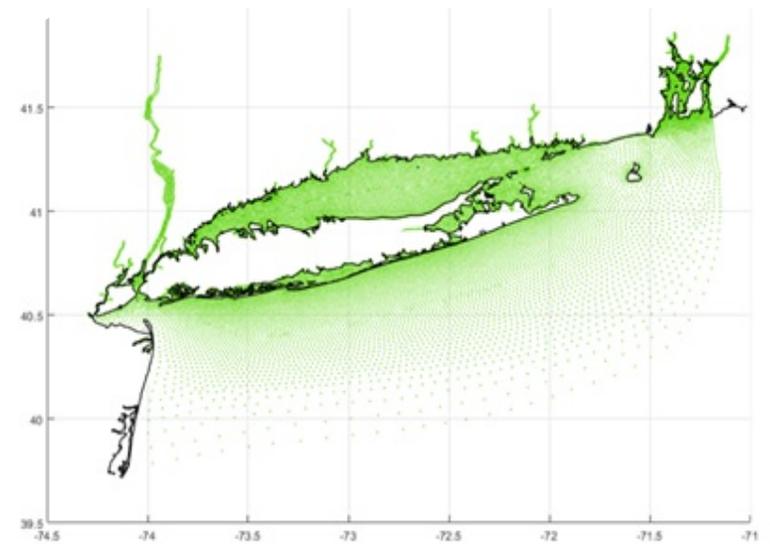


# Tide Prediction System

- CIRCA has developed, calibrated and validated a high-resolution numerical hydrodynamic model to simulate water levels and currents in Long Island Sound<sup>1</sup>.
- The model is based on the Finite Volume Community Ocean Model (FVCOM) numerical code.



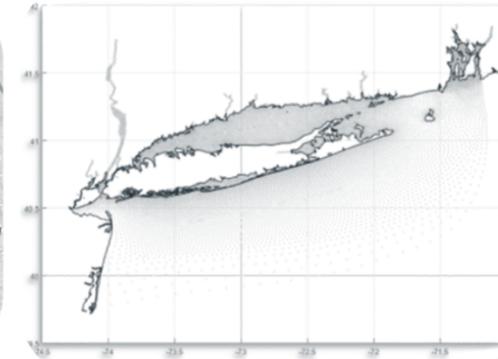
watch_hill	A	B	C	D	E	F
Time	-71.86	41.31				
	Time	Tide Type	Elevation (m MSL)	Elevation (m MLLW)	Elevation (ft MSL)	Elevation (ft MLLW)
2	2025-01-01 01:40	H	0.42	0.89	1.38	2.92
4	2025-01-01 07:30	L	-0.43	0.04	-1.42	0.12
6	2025-01-01 13:40	H	0.63	1.10	2.07	3.61
8	2025-01-01 20:30	L	-0.50	-0.03	-1.64	-0.10
10	2025-01-02 02:10	H	0.45	0.92	1.48	3.01
12	2025-01-02 08:20	L	-0.44	0.02	-1.46	0.08
14	2025-01-02 14:20	H	0.63	1.09	2.05	3.59
16	2025-01-02 21:10	L	-0.52	-0.05	-1.69	-0.16
18	2025-01-03 03:00	H	0.47	0.93	1.53	3.06
20	2025-01-03 09:10	L	-0.44	0.03	-1.45	0.08
22	2025-01-03 15:00	H	0.59	1.06	1.93	3.46
24	2025-01-03 22:00	L	-0.53	-0.06	-1.73	-0.19
26	2025-01-04 03:50	H	0.47	0.94	1.56	3.09
28	2025-01-04 10:10	L	-0.43	0.04	-1.41	0.13
30	2025-01-04 16:50	H	0.52	0.99	1.70	3.24
32	2025-01-04 22:40	L	-0.53	-0.06	-1.73	-0.20
34	2025-01-05 04:40	H	0.48	0.95	1.58	3.12
36	2025-01-05 11:10	L	-0.41	0.06	-1.35	0.19
38	2025-01-05 16:50	H	0.43	0.90	1.42	2.95
40	2025-01-05 23:30	L	-0.52	-0.05	-1.70	-0.16
42	2025-01-06 05:50	H	0.50	0.97	1.63	3.17
44	2025-01-06 12:30	L	-0.40	0.06	-1.33	0.11



<sup>1</sup>Liu, C., Jia, Y., Onat, Y., Cifuentes-Lorenzen, A., Ilia, A., McCardell, G., Fake, T., & O'Donnell, J. (2020). Estimating the annual exceedance probability of water levels and wave heights from high resolution coupled wave-circulation models in long island sound. *Journal of Marine Science and Engineering*, 8(8). <https://doi.org/10.3390/JMSE8070475>

# Tide Prediction System

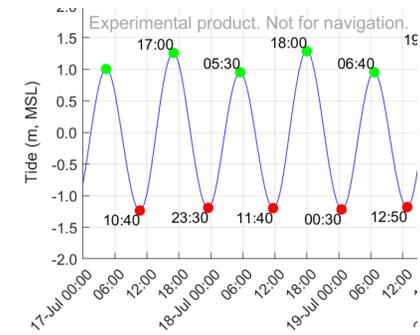
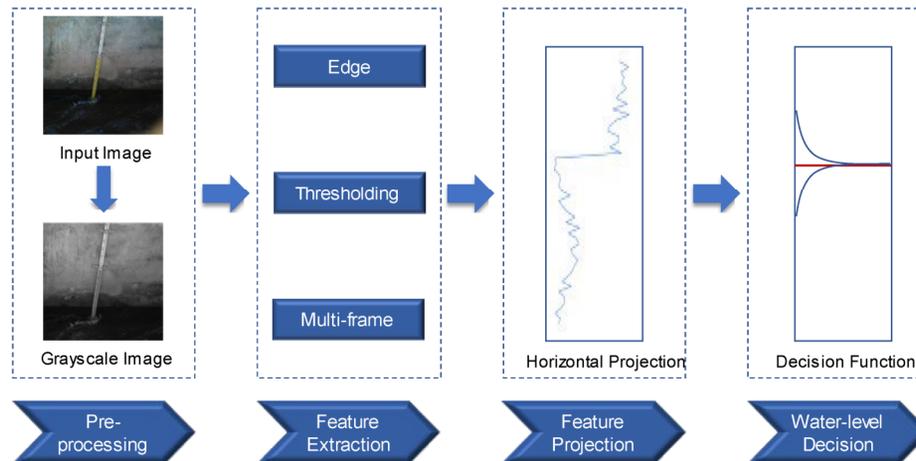
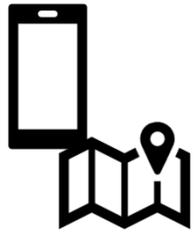
- Harmonic analysis <sup>2</sup> is applied to 1 year of water level simulations from the CIRCA FVCOM model. This allows for the characteristics (phases and amplitudes) of the relevant tidal constituents in LIS to be identified at any location covered by the model.
- This approach provides accurate prediction of tidal constituents without costly reruns of simulations.



	A	B	C	D	E	F	G
1	watch_hill	-71.86	41.31				
2	Time	Tide Type	Elevation (m MSL)	Elevation (m MLLW)	Elevation (ft MSL)	Elevation (ft MLLW)	
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6	2025-01-01 20:30	L	-0.50	-0.03	-1.64	-0.10	
7	2025-01-02 02:10	H	0.45	0.92	1.48	3.01	
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17	2025-01-04 15:50	H	0.52	0.99	1.70	3.24	
18	2025-01-04 22:40	L	-0.53	-0.06	-1.73	-0.20	
19	2025-01-05 04:40	H	0.48	0.95	1.58	3.12	
20	2025-01-05 11:10	L	-0.41	0.06	-1.35	0.19	
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	2025-01-05 23:30	L	-0.52	-0.05	-1.70	-0.16	
	2025-01-06 05:50	H	0.50	0.97	1.63	3.17	

<sup>2</sup>Pawlowicz, R., Beardsley, B., & Lentz, S. (2002). Classical tidal harmonic analysis including error estimates in MATLAB using T\_TIDE. *Computers and Geosciences*, 28(8), 929–937. [https://doi.org/10.1016/S0098-3004\(02\)00013-4](https://doi.org/10.1016/S0098-3004(02)00013-4)

# Ground-Truthing Flood Photos

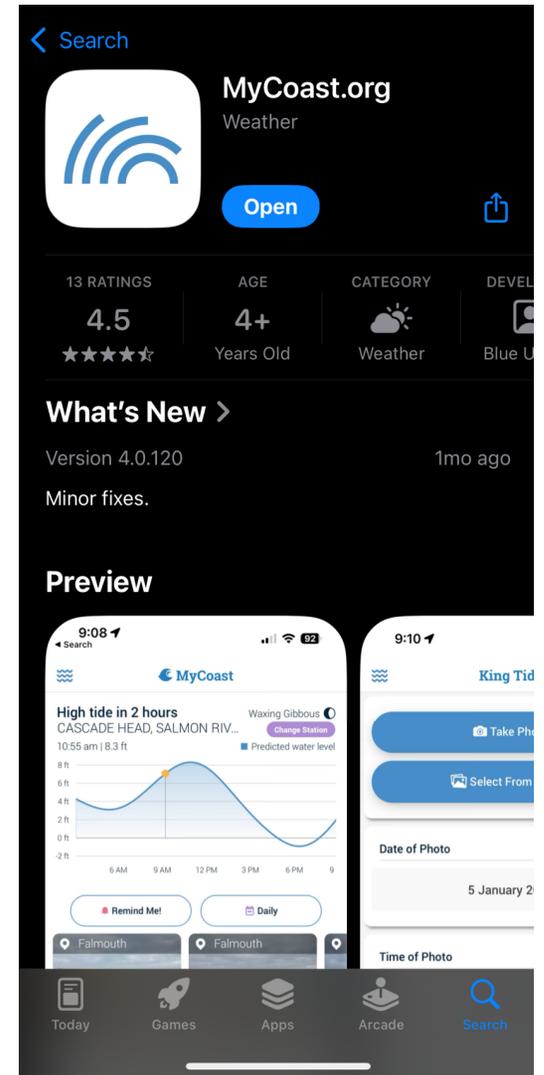


Thank you!  
Questions?



For more information, visit <https://mycoast.org/ct> or contact us at [MyCoastCT@uconn.edu](mailto:MyCoastCT@uconn.edu)

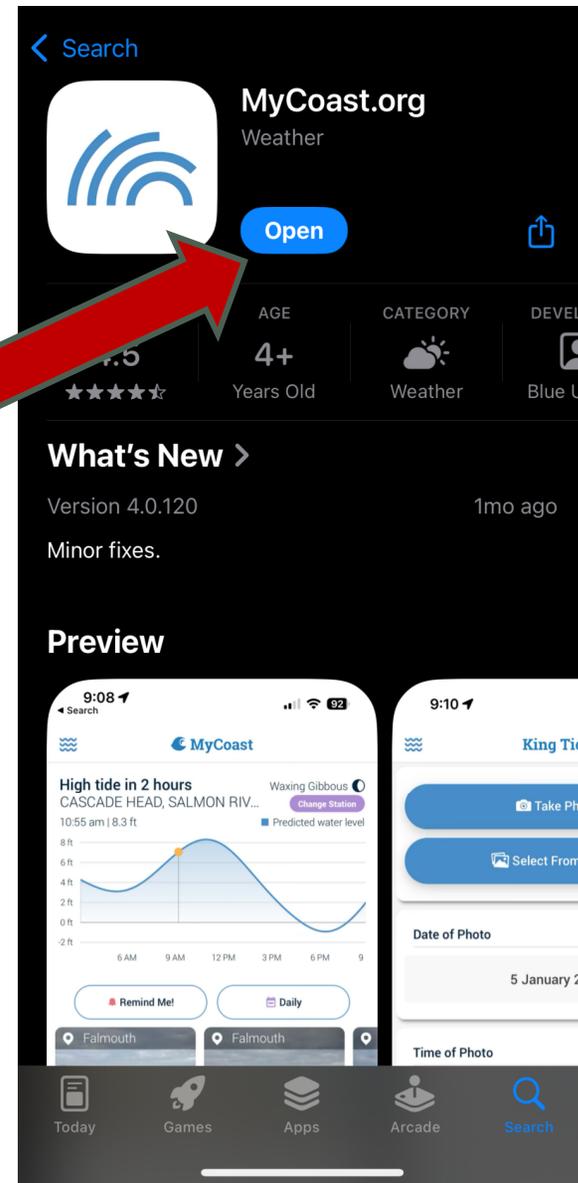
# Create a MyCoast Account on Your Phone Today!



# Download MyCoast App

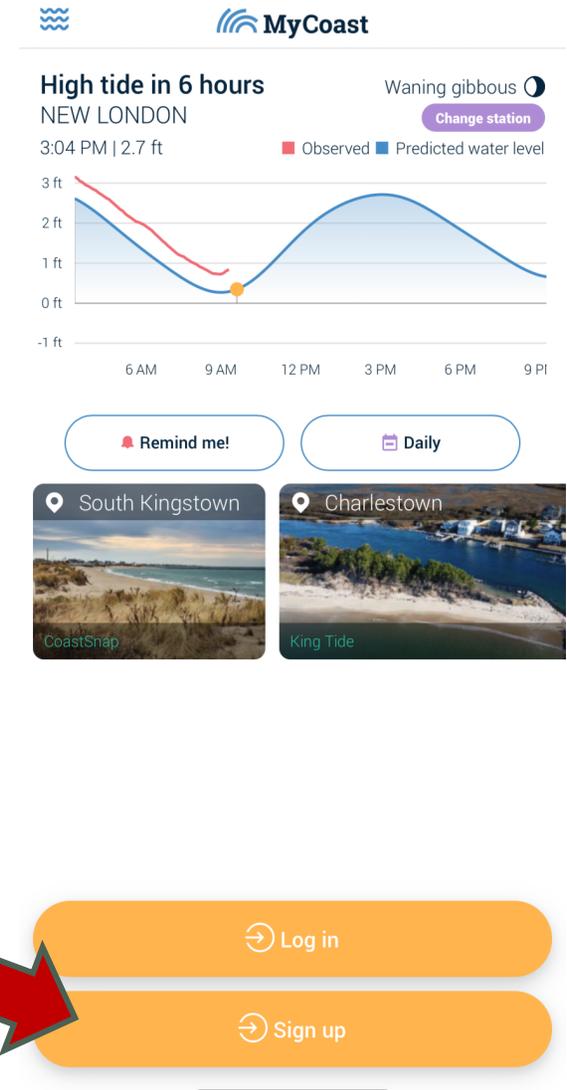
- Click “Download”
- Once app has downloaded, click “Open”

**Note:** This will also add MyCoast to your Home Screen so you can access it later.



# Create a MyCoast Account

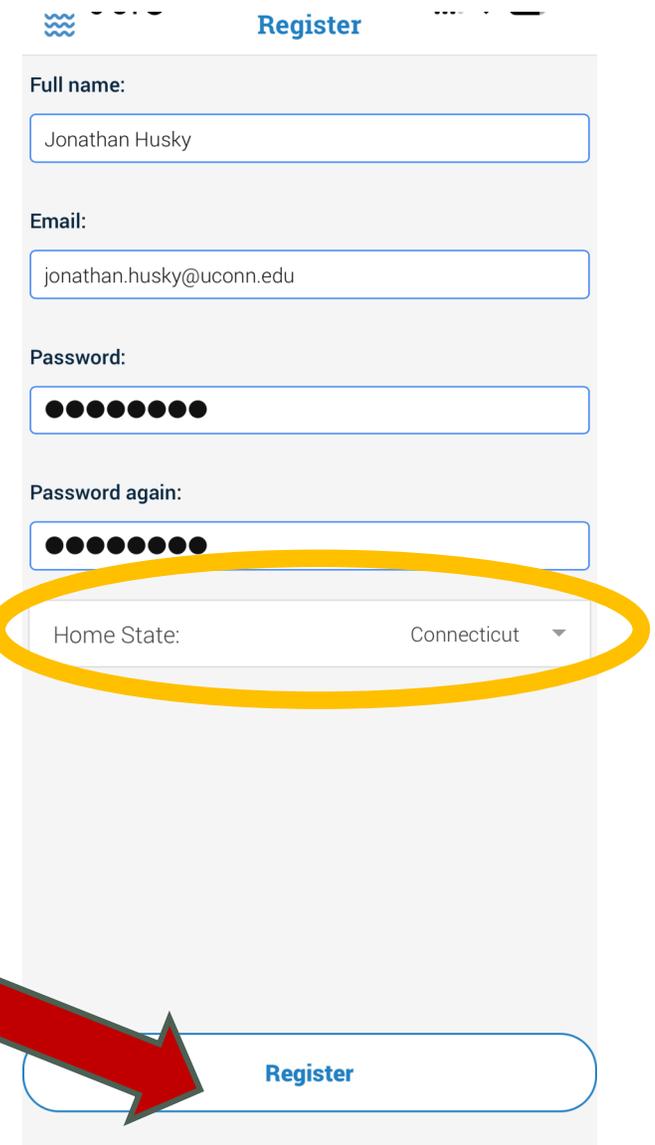
- Click “Sign Up” to create a MyCoast account



# Create a MyCoast Account

- Fill out the requested information
  - Name
  - Email
  - Password
- Select Home State:  
**Connecticut**
- Click Register

**Note:** Regardless of your “Home State” you can submit a MyCoast report in any state that has a MyCoast license



The screenshot shows a mobile registration form titled "Register". The form contains the following fields:

- Full name:** Jonathan Husky
- Email:** jonathan.husky@uconn.edu
- Password:** [Masked with 10 dots]
- Password again:** [Masked with 10 dots]
- Home State:** Connecticut (dropdown menu)

A yellow oval highlights the "Home State" dropdown menu. A red arrow points from the text "Connecticut" in the list to the "Register" button at the bottom of the form.

## Business Cards




[www.mycoast.org/ct](https://www.mycoast.org/ct)

- ✓ Download the MyCoast app by using the QR code or by visiting [www.mycoast.org/ct](https://www.mycoast.org/ct).
- ✓ Take a photo of extreme high tides, flooding, or storm damage.
- ✓ Upload your image by adding a report in the MyCoast app.

## Stickers



## Flyers

Questions? Contact the project team at [MyCoastCT@uconn.edu](mailto:MyCoastCT@uconn.edu)




### ARE YOUR ROADS FLOODING?

Submit your photos to support local planning, increase awareness, and build a stronger, more resilient shoreline for all!

#### How it Works

- ✓ Download the MyCoast app by using the QR code or by visiting [www.mycoast.org/ct](https://www.mycoast.org/ct).
- ✓ Take a photo of extreme high tides, flooding, or storm damage.
- ✓ Upload your image by adding a report in the MyCoast app.



This pilot project in Stonington, Groton, and New London is funded by the Long Island Sound Futures Fund.



