

2022 MYCOAST: RI SUMMARY

Thank you for your contributions to MyCoast! "MyCoast: Rhode Island" is a portal to collect and analyze photos of shorelines. Information collected in a [searchable database](#) is used to capture the impact of flood hazards today and to illustrate possible future conditions. This effort supports decision-making from residents to community leaders for increased resilience around the Ocean State.



L. Cato, Middletown, 2022

MyCoast Matters



H. Hanka , Westerly, 2022

MyCoast democratizes the collection of visual data serving as evidence of shoreline change – now anyone with a phone or camera can participate in gathering images that aid to build awareness and support local efforts to address flooding and erosion issues.

Rising seas and increased flooding resulting from climate change make MyCoast and other programs that prioritize community engagement critical for identifying options and opportunities as we plan for the future.



Coastal Communicators

P. Rubinoff, South Kingstown, RI 2022

“

MyCoast RI photos help me clearly communicate the present and future impacts of coastal flooding in my municipality, and in my work to request funding for adaptation and resilience.

- Teresa Crean, Barrington
Director of Planning, Building
and Resiliency

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Dune Restoration
in progress
Please do not
trespass
Private Property

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I have enjoyed the opportunity to share local storm events of flooding and some damages. And I enjoy knowing about other RI shore communities' events to know we are not alone.

Craig Schilder, MyCoastRI Volunteer in King Park, Newport

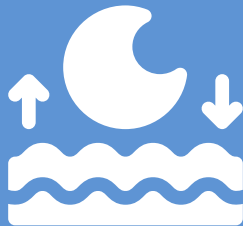
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MyCoast by the Numbers | 2012 – 2022

Search the photo database [here](#)

of King Tides Reports

- 2022: 389
- Total Reports: 2099



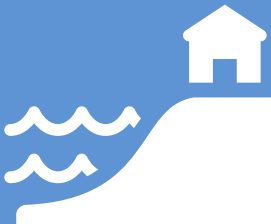
of Storm Damage Reports:

- 2022: 212
- Total Reports: 578



of Coastal Resilience Reports:

- 2022: 11
- Total Reports: 70



of CoastSnap Reports:

- 2022: 163
- Total Reports: 163



649

2021 Reports

781

2022 Reports

2919

Total Reports

MyCoast by the Regions

What we saw in 2022!

The majority of our reports come from areas with beaches and accessible coastlines, including Barrington, South Kingstown, and Westerly, where CoastSnap cradles were installed and numerous photos were taken. A storm in December, 2022 resulted in a record number of reports submitted to MyCoast.

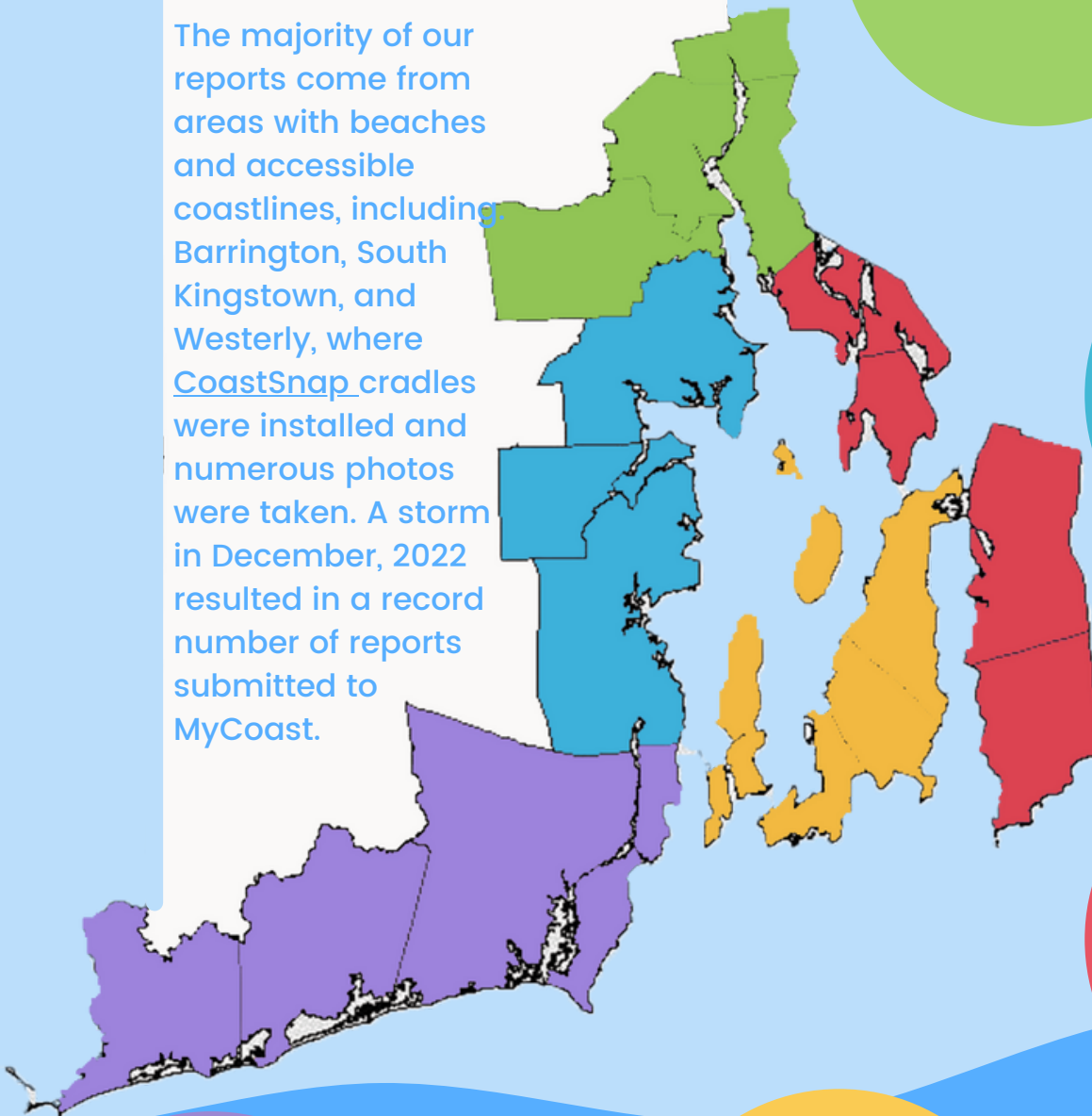
Metro Bay
2022: 46 reports
Total: 191 reports

West Bay
2022: 127 reports
Total: 645 reports

East Bay
2022: 233 reports
Total: 670 reports

South Shore
2022: 185 reports
Total: 685 reports

Islands
2022: 186 reports
Total: 736 reports



2022

MyCoast: RI Milestones



CoastSnap image captures storm overwash (top left) on December 23, 2022 Latham Park, Barrington, RI

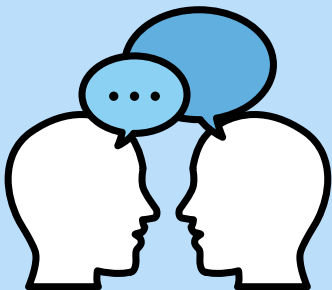
CoastSnap photo cradles installed in Barrington (Latham Park), Westerly (Misquamicut), and South Kingstown (East Matunuck) help document our changing shorelines by capturing photos from the same perspective over time.

Visit one of the CoastSnap sites, snap a picture, and upload it to the MyCoast app.



CoastSnap
community beach monitoring

Building Stewardship with MyCoast by engaging in conversations with Aquidneck Island officials, organizations, and neighborhoods help us understand how this data benefits our coastal communities.



Stakeholder Survey

We surveyed Rhode Island decision-makers to better understand how MyCoast can support their resilience efforts. Results can be found [here](#).



MyCoastRI In the News

[New App Helps Track Rhode Island's Changing Shores](#)



Check Out These Resources

STORYMAP

View MyCoast images in your community using this interactive map

PHOTO TIPS

Step-by-step tips on taking impactful MyCoast photos

Check out all MyCoast RI resources [here](#)



**We hit a record in December, 2022:
145 reports submitted for one event**

Winter weather system "Festivus" affected shorelines statewide. Newport's tide gauge reported 3.4' above average high tide. High tides combined with strong winds, storm surge, and intense rainfall resulted in flooding and wave damage along our shores. Thanks for witnessing the impacts and posting to MyCoast.

Click [here](#) to see the Storm Reports

LOOKING AHEAD

Rising Seas

Rhode Island, like other coastal areas, is already experiencing increased flooding and erosion, combined with increased temperatures, sea levels, storm intensity, and precipitation. This affects communities statewide, from Providence to Portsmouth, and Westerly to Warren.



Jacob's Point Marsh is inundated with 1.5' feet above average high tide. Ordinarily, this area is dry and is a nesting ground for the endangered Saltmarsh Sparrow. Extreme high waters like this put the low-lying nests –and nestlings– at risk. D. Robinson, Warren, 2022.

The [2022 U.S. Interagency Sea Level Rise Report](#) estimates that sea level along our coastline is projected to rise **approximately 1.5 ft in the next 30 years** – a rate that is accelerating, given that over the past 100 years, we have seen around a foot of rise.

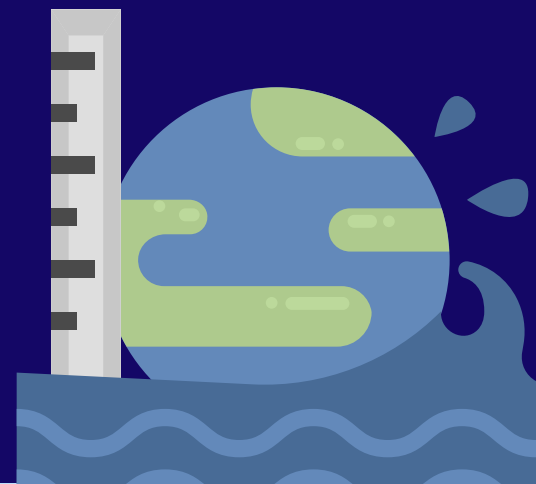
The extreme tides, or King Tides, taken with MyCoast observations, provide a lens of what our daily tides could look like in the future.

2023

King Tide Dates

Aug 29, 7:15 PM (0.8 ft)
Aug 31, 8:31 AM (0.8 ft)
Sept 1, 9:21 AM (1 ft)
Sept 2, 10:11 AM (1 ft)
Sept 3, 11:02 AM (0.9 ft)
Sep 28, 7:21 AM (0.8 ft)
Sept 28, 7:46 PM (0.8 ft)
Sept 29, 8:11 AM (1 ft)
Sept 30, 8:59 AM (1 ft)
Oct 1, 9:47 AM (1 ft)
Oct 2, 10:36 AM (0.9 ft)
Oct 27, 7:02 AM (0.9 ft)
Oct 28, 7:51 AM (1 ft)
Oct 29, 8:38 AM (1 ft)
Oct 30, 9:24 AM (0.9 ft)

- Note, projected extreme tides highlighted are only those during daylight hours.
- Times & tides estimated for Newport, RI
- Elevation is above average high tide referred to as Mean Higher High Water (MHHW)



LOOKING AHEAD

Diving Into 2023



High tide encroaches on shoreline public access.
B. Hamel, Bristol, 2022

MyCoast: Rhode Island invites community members, neighborhoods, and municipal leaders to help document flooding and storm impacts along our shorelines. The portal, with photos and associated weather data, is accessible to the public, providing valuable information for understanding risks and building a more resilient community.

**Want to use
MyCoast for your
community or to
recruit volunteers?**

Engaging Bristol in Tracking Coastal Impacts

This two-year project partners with the Town as it undertakes its first-ever significant public effort to engage the community in understanding coastal change with MyCoast and choosing proactive steps and practices to counter it.

**Thanks to all our
partners and
supporters Impacts**



We've got an updated website, MyCoast.org/RI, a [how-to-video](#), a welcome package, and more coming your way soon!

Contact us for more information at
MyCoastRI@uri.edu