

Coastal Flooding: Storms and Sea Level Rise



The Problem: Sea levels are rising which is causing us to experience more flooding along our coastlines. The coast is home to not only vital ecosystems, but working waterfronts, small businesses, homes and critical town infrastructure. As sea levels continue to rise, we need to understand how to adapt and respond to frequent high waters in our communities. A greater understanding of when and where flooding is occurring will assist in building coastal community resilience.

The Solution: The Coastal Flooding Community Science project aims to answer the questions, “what weather and water level conditions are associated with coastal flooding in our community?” and “what areas of our shoreline are most vulnerable and critical to our community?”. This project supports the collection of water level data and public perspectives on flooding in their community. The data can be used to support coastal resilience, for example, town planners use data to identify possible climate actions and the National Weather Service to send out flood alerts.

How to Participate

1. Go to https://investigate.gmri.org/project/coastal_flooding/ and create an account
2. Choose one or more [coastal flood monitoring sites](#) or go to a place in your community that is important to you (make a plan to visit ideally within 1 hour of high tide)
3. Gather materials: camera (phone camera is great), rubber boots, a friend (especially if it is stormy), a measuring instrument (handy, but not required)
4. Use your smartphone to take photos that show the water level, impacts of flooding, or evidence of past flooding
5. Go outside and stay safe!



To learn more about the project visit: https://investigate.gmri.org/project/coastal_flooding/ or email Gayle Bowness at gayle@gmri.org

