

User Guide for the Coastal Flood Simulation App

The Interface:

The interface has three primary control areas: the region & flood level selector, the map widget display toggles, and the basemap selector.

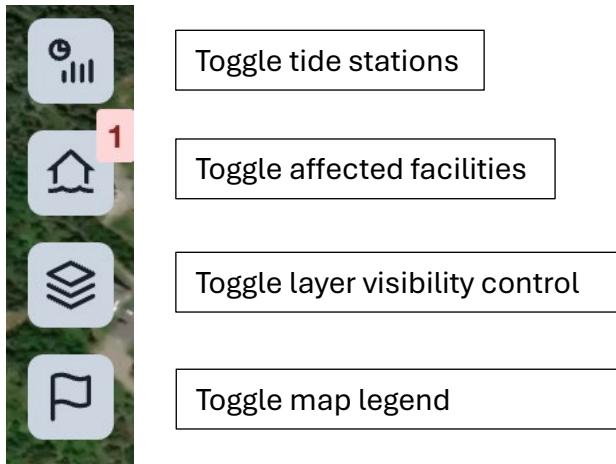


The region selector allows the user to select a region in which to simulate the flood levels.

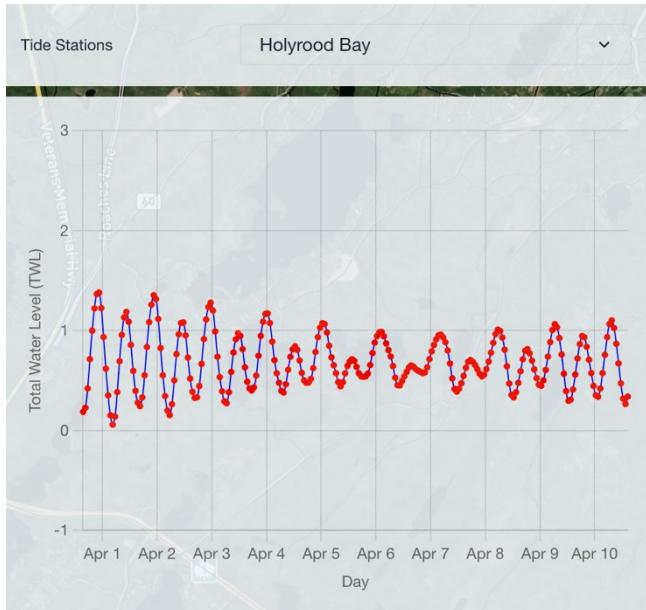
The flood level selector allows the user to change the simulated flood level between 0 and 12 meters, in 10 cm increments. As the flood depth is changed, the extent of the blue polygon on the map will change to match the users selected level.



The map widget display toggles control the information panels (widgets) visible to the user:



Tide station panel:



The tide station panel shows the predicted tide levels for the selected tide station for the next 10 days.

A tide station can be selected by clicking on the map or by selecting from the drop down list.

The 'Affected Facilities' panel displays a list of critical facilities within a selected flood zone. The facilities listed are Avondale Fire Department, Bay Roberts Fire Department, Brigus Fire Department, East: Bay Roberts, Harbour Grace Fire Department, and Harbour Main Fire Department. Each facility is represented by a small icon and its name.

The affected facilities panel lists the facilities within the currently selected flood depth and map window.

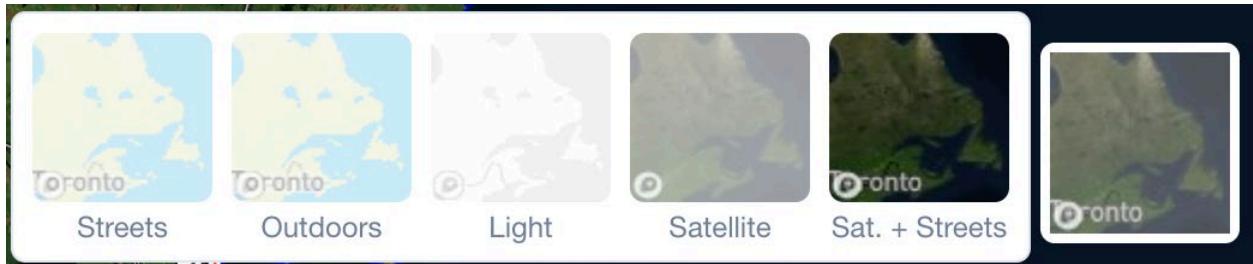
The layer control panel allows users to enable or disable different map layers. The layers listed are Tide Stations, Critical Facilities, Roads, and Floods. Each layer has a checked checkbox next to its name, indicating it is currently active.

The layer control panel allows the user to turn on and off layers.

The legend panel provides a key for identifying different facility types. It includes symbols and labels for Tide Station (a tide gauge icon), Ambulance Depot (an ambulance icon), Hospital (a hospital bed icon), Fire Station (a fire truck icon), Police Station (a police car icon), and Continuing Care (a person in a bed icon).

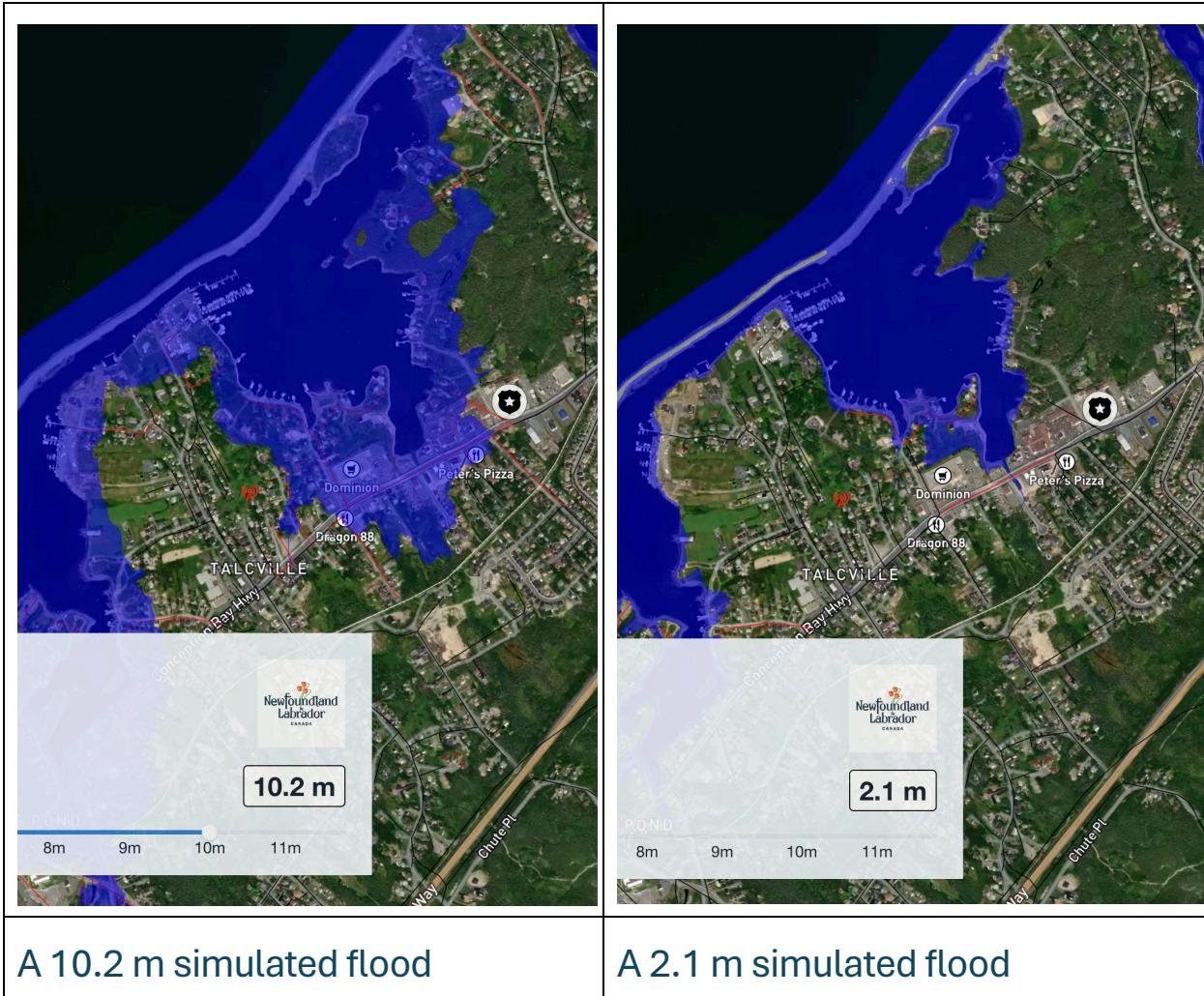
The legend shows the user each of the critical facility types available on the map with their corresponding symbol.

The basemap selector allows the user to switch between 5 different basemaps to suite their preference.



Using the app

To view the simulated flood level in a particular area, zoom in to the area in question and select the desired flood level using the slider:



A 10.2 m simulated flood

A 2.1 m simulated flood