

# Fundy Coastal Vulnerability Study

Planning Advisory Committee

May 17, 2022

Planning & Development Department



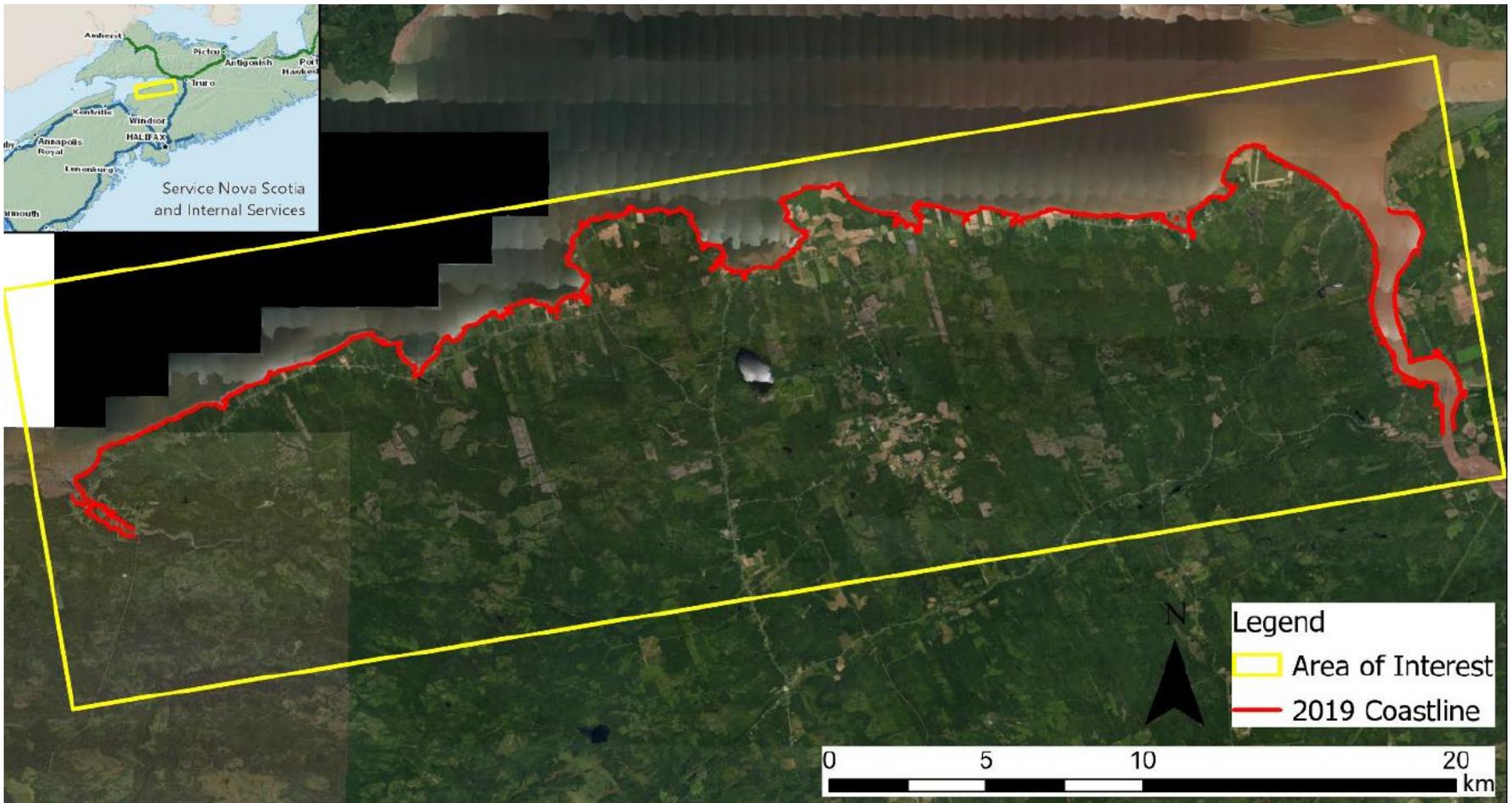
**EAST HANTS**

## Background

- To understand the Bay of Fundy tides on the coastal area of East Hants, the municipality contracted Centre of Geographical Sciences, The Nova Scotia Community College - Applied Geomatics Research Group (AGRG) to prepare vulnerability mapping of the Fundy shoreline area.
- The timing of this work coincided with the need to create new policies and regulations for the future planned area of the municipality.
- The study/mapping consisted of a review of future potential from coastal erosion and coastal flooding.
  - Coastal Erosion is the natural breakdown and removal of rocks and soil along the coastline. Coastal erosion happens mainly as a result of wave action and the freeze-thaw cycle.
  - Coastal Flooding happens when seawater flows temporarily over low-lying (but normally dry) land that is near the coast. Coastal flooding typically happens as a result of storm surge - a temporary rise in sea level caused by an extreme weather event.

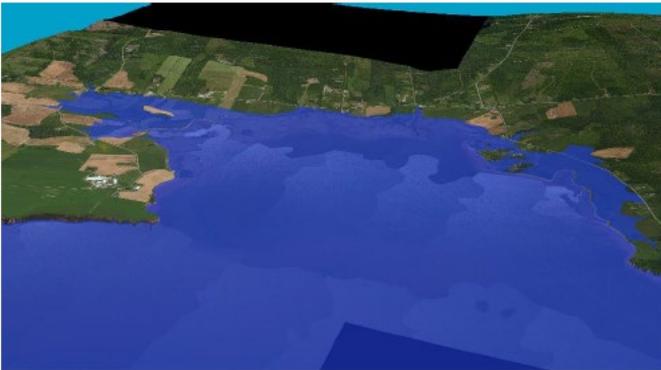
# Background

- Coastal erosion and flooding analysis was focused on 79 km of coastline between Walton and South Maitland - the following image has been taken from the study document.



# Background

## Coastal Vulnerability and Projected Erosion in East Hants County



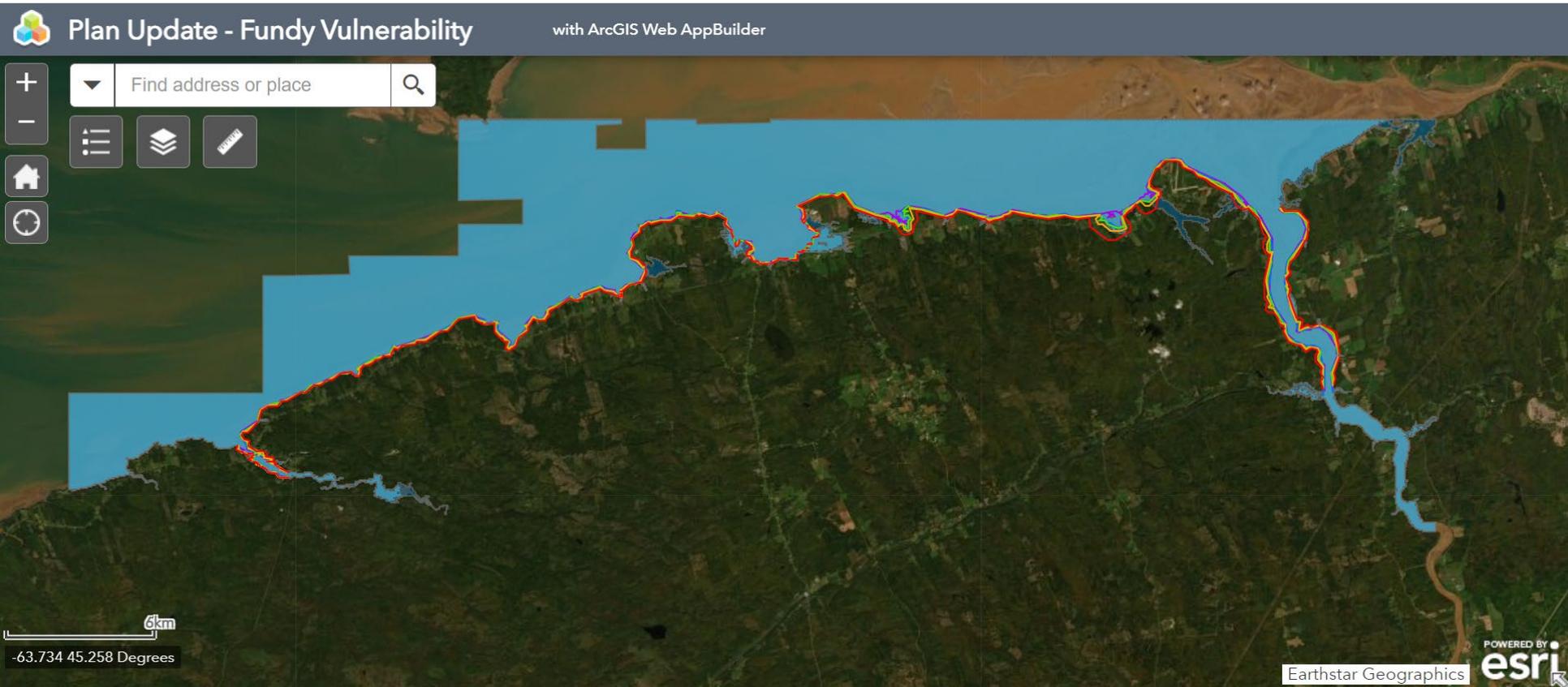
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- The report created by NSCC - Applied Geomatics Research Group has been provided for PAC to review.

# Background

- Online mapping application has been created and provided to PAC so that the coastal erosion and coastal flooding mapping can be explored.
- <https://arcgis.easthants.ca/portal/apps/webappviewer/index.html?id=a8376f836965463181343e3f16800d90>
- A copy of the above link has been provided to PAC.



## Methodology and Results

- Tim Webster, Ph.D - Research Scientist and leader of the Applied Geomatics Research Group will provide an overview of the methodology of preparing the maps and he is also available for questions.
- Staff are recommending that a background report be prepared with recommendations on the use of the data from the mapping.

## Recommendation

Direct staff to prepare a Plan Update background report on the Fundy Coastal Vulnerability.

## Recommended Motion

*Planning Advisory Committee recommends that Council:*

- *Direct staff to prepare a Plan Update background report on the Fundy Coastal Vulnerability.*