



Interactive Flood Mapping Partnership Application

Project Summary:

Coastal Action has partnered with RBC Foundation and 3D Wave Design to produce publicly available 3D interactive flood map models for coastal communities in Nova Scotia. These models include interactive features such as flooding scenarios; adjustable storm surge, sea-level rise, and tide heights; as well as embedded coastal management and emergency management resources. The maps are a powerful climate change visualization tool that help coastal communities adapt to the effects of climate change. For more information on the project, visit our website coastalaction.org.

What We Are Offering:

We are now looking to partner with a new community for another flood map model! This opportunity is open to any coastal community in Nova Scotia and will include educational workshops delivered to the community by Coastal Action. The project is expected to begin in late summer 2023 and will be completed by March 2024 at the latest. Please review the information below, and if you meet the eligibility criteria, we welcome you to complete the application questions in full and follow the submission instructions.

Eligibility Criteria:

We require interested applicants to meet the following eligibility criteria:

- You are based in Nova Scotia and your community includes a coastline.
- You are able to contribute financially to the project. Total cost to the Municipal/Community partner is \$10,000 + HST.
- You can commit to the project timeline.
- You are authorized to speak on behalf of your community's governing body and are not applying as an individual.
- You have support from your Council, staff, or community leaders as applicable.
- You submit your application in full and on time.

Previous Map Models:

To gain an understanding of the scope of the project, please review the three models we have developed so far. This opportunity will be similar in size, area, and level of functionality. These models have been created by our partner [3D Wave Design](#), using high-resolution LiDAR data. The new flood map model will be customizable, and the new community partner will have input on the creation of the model so that it fits the identified needs of their community. Models completed to date are listed below:

- [Town of Lunenburg and Blue Rocks](#)
- [Town of Mahone Bay](#)
- [Municipality of the District of Yarmouth](#)

Application Questions:

1. Which community are you a representative of? Does your community fit the eligibility criteria? What is your role? Please include your contact information.
2. Describe the need for your specific community to have a flood map developed. Consider things such as at-risk infrastructure, cultural significance, identified needs, challenging topography, etc.
3. Compared to the size and scale of our previous map models, would the area of interest within your community fit within the scope of the project (approximately 20-30 km²)?
4. Do you have any flood studies, risk assessments, or other plans previously created and available to your residents/community members?
5. What type of unique application might you want to explore in customizing the map to best suit the needs of your community? (i.e., adaptation methods, simulations of specific storm events, flooding scenarios, etc.)

Evaluation Process:

Applications will be evaluated based on many factors, including but not limited to; demonstrated need, fit within the project scope, readiness, and commitment to the project. Applications will be reviewed by multiple team members, and the selection of a successful applicant will be a collaborative effort. Please include all information you believe is relevant and provide clear responses, as we will not be reaching out to find missing information.

How to Submit:

Please submit your completed application to Coastal Action's Climate Change Team Lead, Jordan, at jordan@coastalaction.org. Applications are due by **Friday, July 21, 2023**.

We would like to thank RBC Foundation for their generous support of this project through the RBC Tech for Nature Program

