Sea Level Rise and Climate Adaptation Report on the Coastal Floodplain Mapping Project

Presented by Kim Fowler, Manager of Long Range Planning, Energy & Sustainability June 9, 2020



Responding to a changing environment

Coastal Floodplain Mapping Project

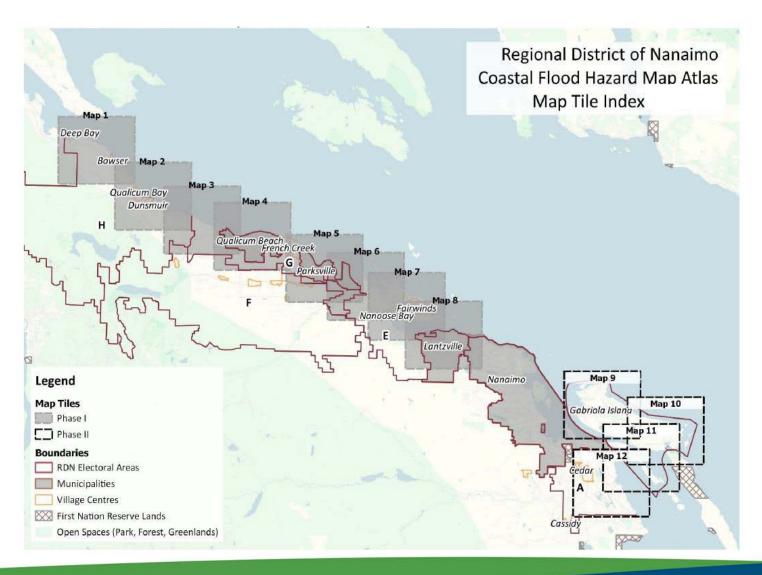
- Regional Growth Strategy Implementation Action
- Gathered data for technical study & prepared coastal flood hazard maps to:
 - better understand coastal flood hazards
 - ensure a standard of public safety into the future
 - use for land use, infrastructure planning & emergency management
 - be use by engineers & development sector to plan coastal projects

What are other coastal communities doing?

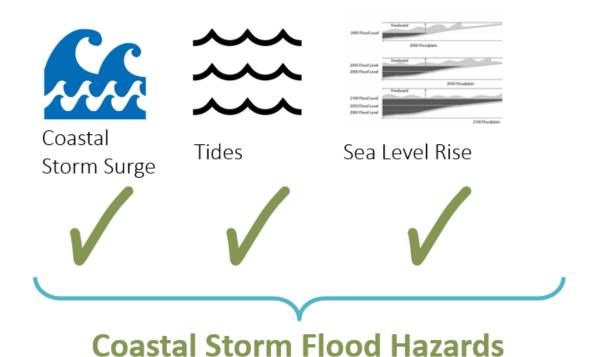
A few examples:

- City of Nanaimo draft Climate Resiliency Strategy
- Town of Qualcium Beach Waterfront Plan & draft Climate Action Plan
- Cowichan VRD Natural Hazard Risk Assessment
- Comox VRD Coastal Flood Mapping Project
- Capital RD Coastal Flood Adaptation Strategy
- City of Campbell River Coastal Flood Mapping Project
- City of Surrey Climate Adaptation Strategy
- City of Vancouver Vancouver's Changing Shorelines

Study Area: Phase 1 & Phase 2



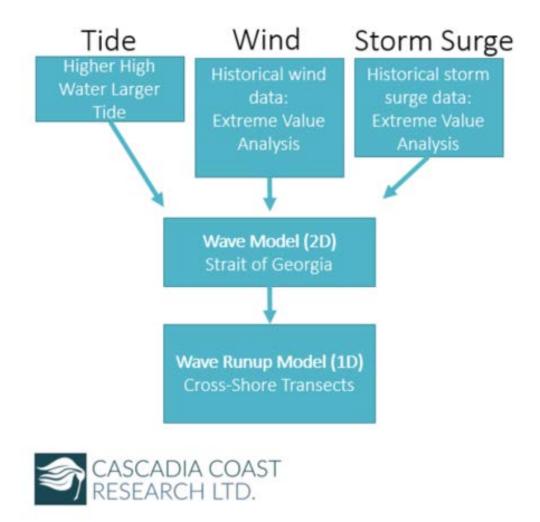
Which flood hazards mapped?

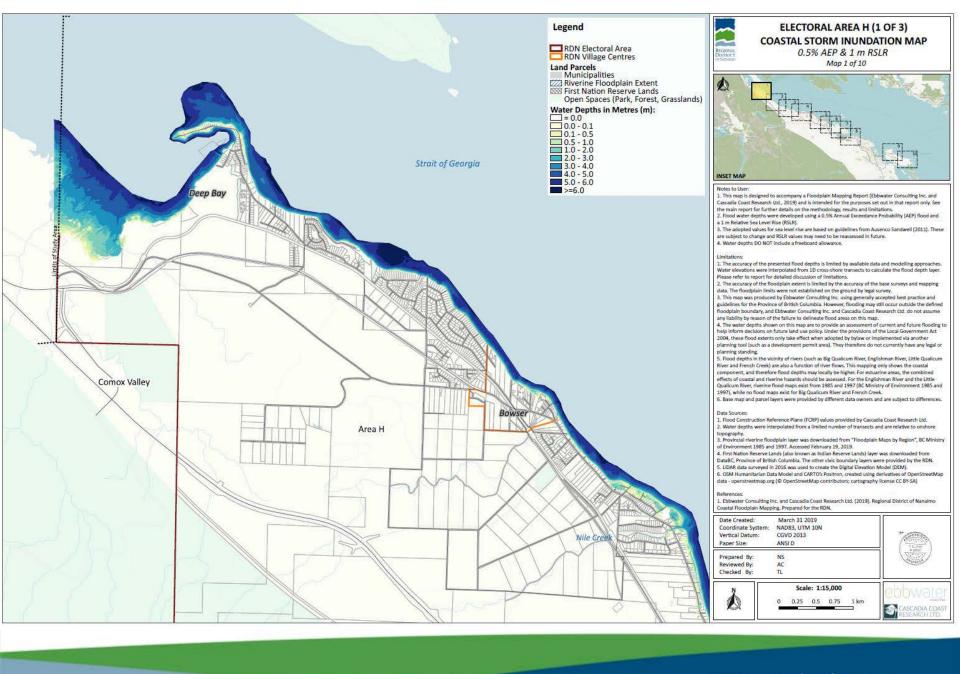


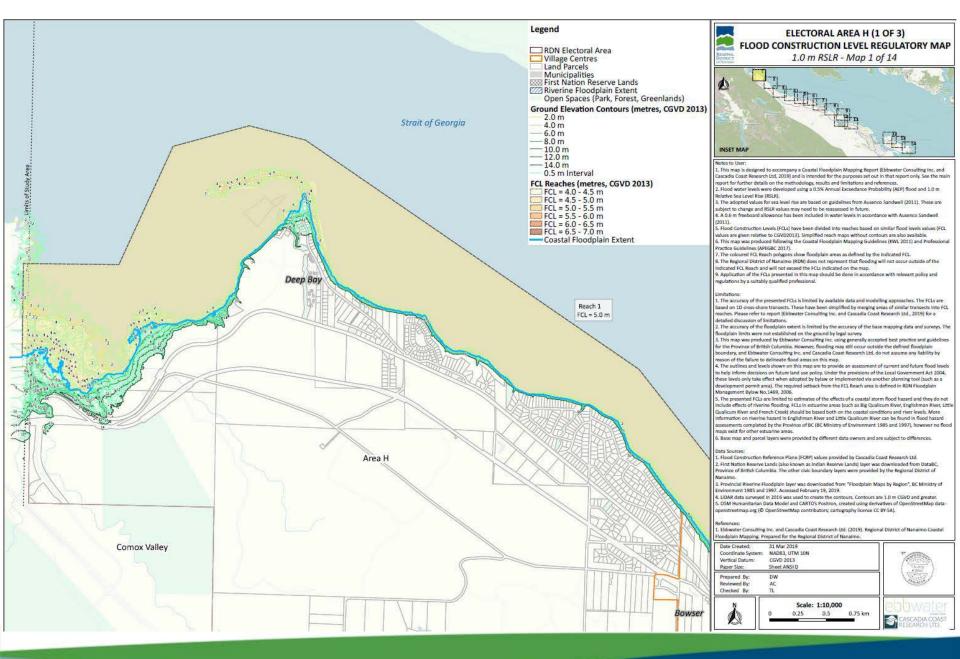


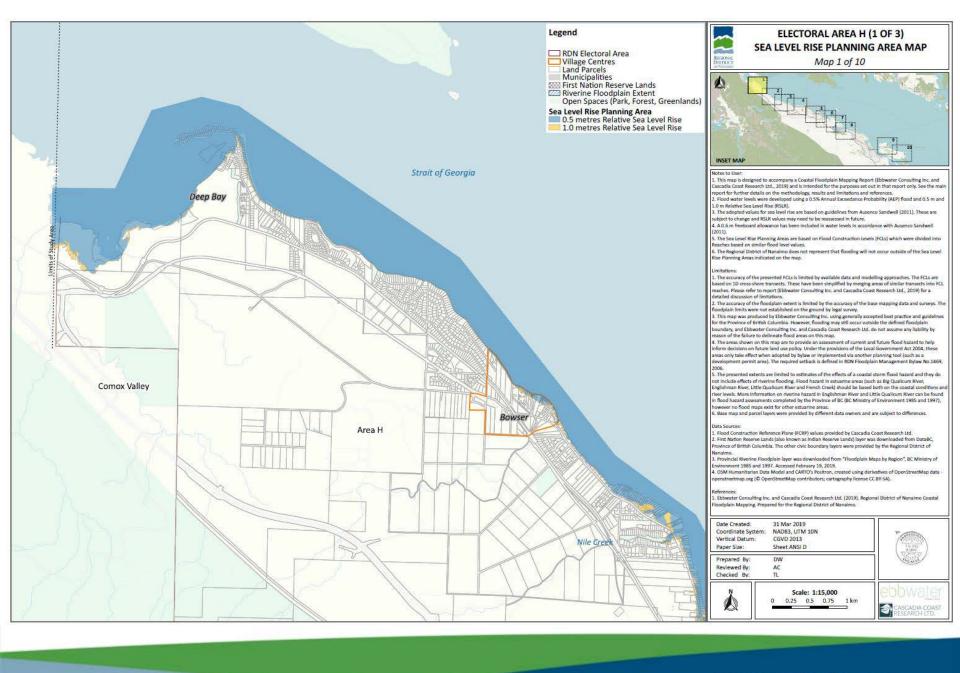
Icon Sources: UN OCHA; Ebbwater; A. Coquet, O. Latysheva & D. Hetteix Noun Project

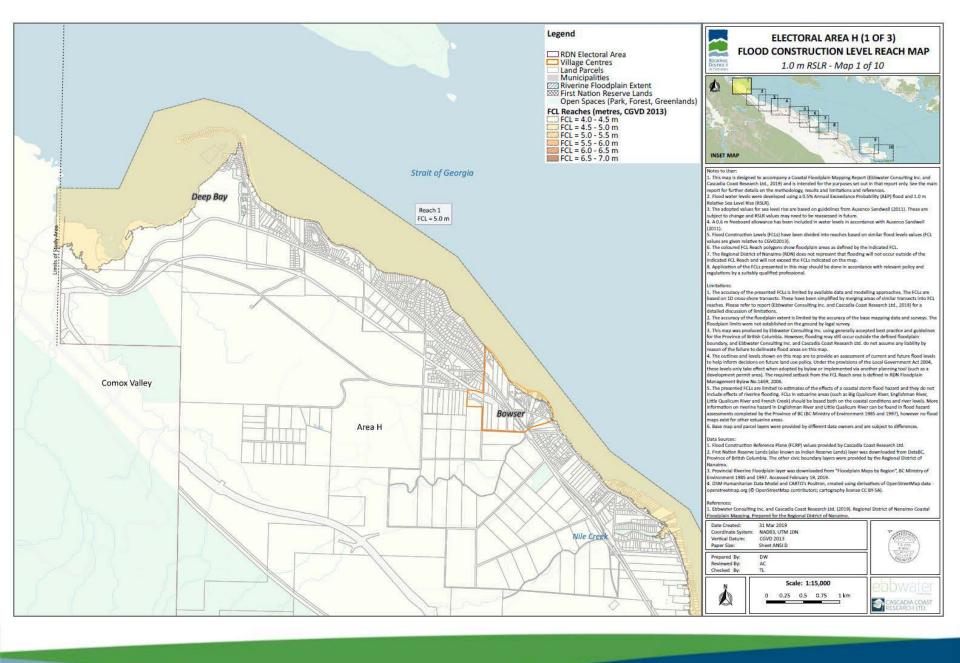
Coastal modelling – designated storm approach











Where we are...

Ph	HASES	KEY DELIVERABLES
IN	ICEPTION	Backgrounder, Program Plan – complete 2016
RE	ESEARCH	Acquire LiDAR – completed 2017 Develop coastal flood hazard maps – completed 2019 Update land use bylaws – pending approval Update riverine floodplain maps (3) – pending 2020 - 2023 Combined coastal + riverine flood risk assessment – pending 2024
PL	LAN	Adaptation Strategy - pending
IM	IPLEMENT	Various departmental implementation projects - pending

Proposed Next Steps

Request the Board direct:

- the coastal flood hazard maps be communicated to the public
- the applicable land use bylaw amendments be reviewed & updated to incorporate the findings of the Coastal Floodplain Mapping Project