

LEGEND

Shore Zones	
Backshore	<ul style="list-style-type: none"> Highly stable Partially stable Not stable Unconsolidated over bedrock Other (bulkhead, causeway, road, wharf)
Dyke	<ul style="list-style-type: none"> Dyke
Foreshore (upper foreshore, middle foreshore, lower foreshore)	
Cliffed, highly stable	
Cliffed, partially stable	
Cliffed, not stable	
Foreshore and Nearshore Habitats	
High salt marsh	
Low salt marsh	
Restored marsh	
Cobble	
Gravel	
Sand	
Mud	
Outcrop	
Platform	

Symbols

Nonagricultural aboiteau or culvert	
Agricultural aboiteau	
Shore protection or armouring	
Wharf	
End of ACASA study area	
Rock in water	
Building point location	
Arterial highway	
Trunk highway	
Collector highway	
Hard surface road	
Loose surface/resource access road	
Trail, footpath, cart track	
Railway (active, inactive)	
Coastline	
River, stream	
County boundary	
Transmission line (multi, single line)	
Building footprint	
Wetland	
Lake/ocean	
Incorporated marsh body	

* Note: Legend is for map series. All units and symbols may not appear on each map.

Explanation of Terms used in the Legend

Backshore: the upper limit of high tide or storm wave levels (higher high water large tide), which is at an elevation of 7.5 m (Canadian Geodetic Vertical Datum of 1928 (CGV28, land elevation vertical datum) in the Southern Bight of the Minas Basin and 7.50 m in (CGV28) in the Cumberland Basin).

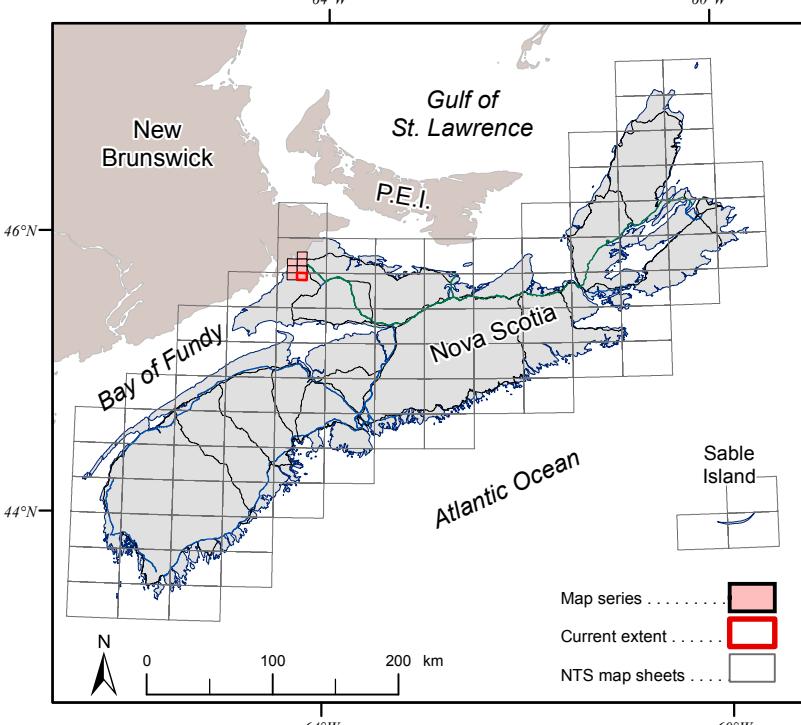
Foreshore: area between high and low tides which can be divided into **upper foreshore** (between the backshore and high marsh, close to the backshore), **middle foreshore** (between high and low marsh) and **lower foreshore** (the furthest extent of low marsh). The foreshore can be either ramped or cliffed where salt marsh is present.

- **ramped:** salt marsh that intersects the intertidal flat as a gently sloping vegetated surface.
- **cliffed:** salt marsh that intersects the intertidal flat as a cliff >30 cm and a slope >30°.
- **highly stable:** no visible signs of erosion.
- **partially stable:** visible signs of erosion including cliffing, however very little to no vegetation slumping away from the shoreline.
- **not stable:** significant visible signs of erosion including cliffing, with vegetation slumping away from the shoreline.

The foreshore and nearshore habitats are defined as follow:

- **high salt marsh:** a marsh covered only by highest high tides and storms with some soil development, organic build up and a high diversity of plant species dominated by grasses and shrubs (Owens 1994).
- **low salt marsh:** a marsh covered by all moderate and high tides and characterized by little soil development, low species diversity, hydrology and often halophytic plants, sparse vegetation (Owens 1994).
- **restored marsh:** a site where the natural hydrology has been restored, enabling the re-establishment of high salt marsh and floodplain wetland habitats.
- **cobble:** a rock fragment larger than a pebble and smaller than a boulder, being roughly spherical in shape and specifically a coarse of course (Bates and Jackson 1980) (6-256 cm, Wentworth 1922).
- **gravel:** an unconsolidated, natural accumulation of rounded rock fragments, resulting from erosion, consisting predominantly of particles larger than sand (diam. > 2 mm) (Bates and Jackson 1980).
- **sand:** a rock fragment or rock particles smaller than a granule and larger than a coarse silt grain, or that at the lower limit of visibility of an individual particle and that the head of a small wooden match (Bates and Jackson, 1980) (0.0625-2 mm, Wentworth, 1922).
- **mud:** a fine-grained clay-sized earth material with the consistency ranging from semisolid to soft plastic; a wet, soft soil or earthy mass, mire or sludge; an unconsolidated sediment consisting of clay and/or silt, together with other dimensions (sand), mixed with water, without connotation as to composition (Bates and Jackson, 1980) (0.0625-2 mm, Wentworth, 1922).
- **outcrop:** a term to describe a slope (>40°) surface extending seaward from the backshore composed of bedrock.
- **platform:** a horizontal or gently sloping surface (<10°) extending seaward from the intertidal zone, formed on rocky or rock-cliff shores by wave impact and erosion. The surface may be bare or littered with rock.

• **shore protection or armouring:** any material (rock, wood, car bodies) thrown together irregularly and fitted together to prevent erosion by waves or currents and thereby preserving the surface, slope or underlying structure (i.e. rip rap) (Owens, 1994).



Shore Zone Characterization Map of the MacCann Area, Cumberland County, Nova Scotia

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Scale: 1:10 000

0 1 km

Halifax, Nova Scotia 2012

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Map series: Current extent

Selected References

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- van Proosdij, D. and Pietersma-Perron, B. 2011: Shore zone characterization for climate change adaptation in the Bay of Fundy; Saint Mary's University, Halifax, Nova Scotia, 33 p. <http://atlanticadaptation.ca/node/193>
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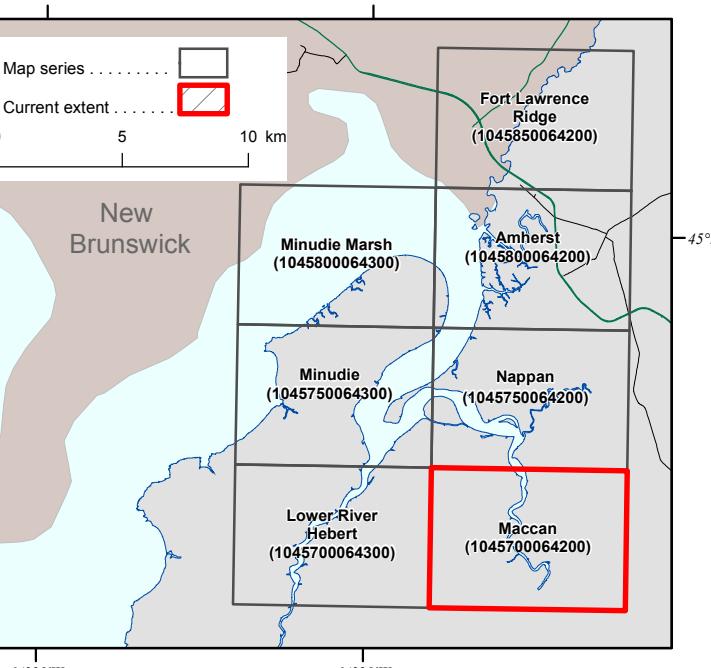
This project is part of the Atlantic Climate Adaptation Solutions Association (ACASA) project, a joint undertaking between the Atlantic Provinces, Natural Resources Canada, regional municipalities and other partners. It was made possible with funding from the Province of Nova Scotia and federal support from Natural Resources Canada's Regional Adaptation Collaborative Program.

Disclaimer

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Recommended Citation

van Proosdij, D. and Pietersma-Perron, B. 2012: Shore zone characterization map of the MacCann area, Cumberland County, Nova Scotia; Nova Scotia Department of Natural Resources, Mineral Resources Branch, Open File Map ME 2012-023, scale 1:10 000.



Acknowledgments

Map series: Current extent

0 5 10 km

Fort Lawrence Ridge (104590064200)

Minute Marsh (104590064201)

Minutie (104590064202)

Nappon (104570064203)

Lower River (104570064200)

MacCann (104570064201)



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June 28, 2012