**Descriptive Text**

Human settlement in environments as dynamic as the coastal zone will inevitably lead to changes in the environment, both natural and human-made, and the economic, social and cultural activities taking place within it. Managers and planners need to have access to better information about tidal rivers, coastal processes and dynamics to ensure informed decision making. This map provides a detailed description of the coastal environment, the boundaries of coastal processes and historical rates of coastal change. A segmentation model was developed using ArcGIS® 10 to delineate and map the boundaries of backshore, upper foreshore, middle foreshore, low and high tides and nearshore (low water cut to sea, but shallow) zones within the Cumberland Basin and Southern Bight of the Minas Basin in the Bay of Fundy. Coastal surveys were conducted to support the segmentation model and to confirm (>14 m tides). Data were collected during shoreline surveys using a YUMA tablet. In areas where it was unsafe to conduct shoreline surveys, aerial imagery was used. Segments of the shoreline were characterized and categorized according to key criteria. Shoreline segments were assessed for shoreline stability, presence or absence of cliffs (consolidated and unconsolidated) and anthropogenic structures.

There are 15 maps in the Southern Bight of the Minas Basin study area and 7 maps in the Cumberland Basin study area. Maps are at a scale of 1:10 000. This project is completed with Maritime Provinces Spatial Analysis Research Centre (MP_SpARC) with collaboration from the Nova Scotia Department of Natural Resources (NSDNR), Nova Scotia Coastal Services.

Map Notes

GIS shoreline database produced by Danik van Proosdij and Barbara Pietersma-Perron of Saint Mary's University, Maritime Provinces Spatial Analysis Research Centre. Data collected from June 19, 2010, to July 6, 2011.

Cartography and reproduction by Angie Eiler of the Nova Scotia Department of Natural Resources, Maritime Information Services Section, 2011-12. The maps were developed using ArcGIS® 10.

Universal Transverse Mercator Projection (UTM), Zone 20, Central Meridian 63°0'0" West, North American Datum (NAD) 1983 Canadian Spatial Reference System (CSRS) 98.

Base and digital data derived from the Nova Scotia Topographic Database (NSTDB). Copyright © Her Majesty the Queen in Right of the Province of Nova Scotia. NSTDB is a trademark of the Nova Scotia Service Sector and Municipal Relations (NSSMR), Land Information Services Division (LIS), Nova Scotia Geomatics Centre (NSGC), Amherst, Nova Scotia.

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**Nova Scotia Department of Natural Resources, Mineral Resources Branch

Nova Scotia Department of Natural Resources
Mineral Resources Branch
Open File Map ME 2012-012

Shore Zone Characterization Map of the Cogmagun Area, Hants County, Nova Scotia

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**Nova Scotia Department of Natural Resources, Mineral Resources Branch

Open File Map ME 2012-012, scale 1:10 000

Scale: 1:10 000
0 1 km
Halifax, Nova Scotia
2012

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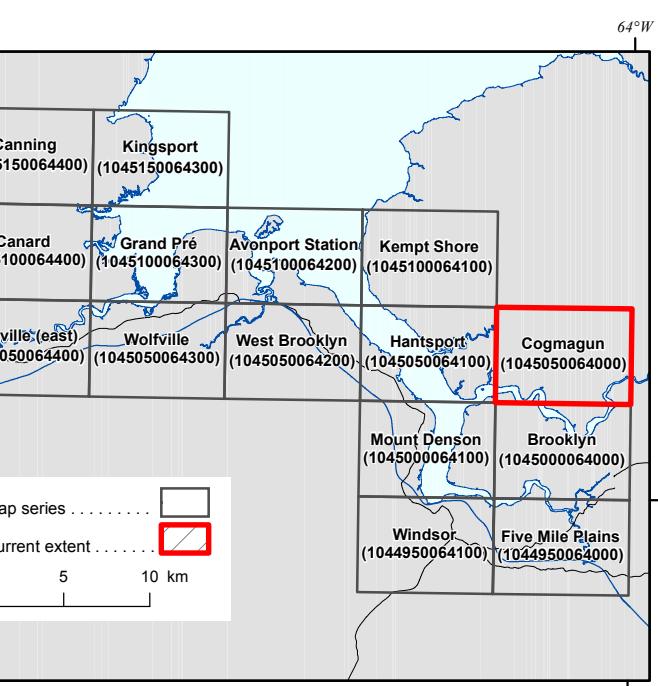
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Disclaimer

The information on this map may have come from a variety of government and non-government sources. The Nova Scotia Department of Natural Resources and partners of the Atlantic Climate Adaptation Solutions Association do not assume any liability for errors that may occur. This map is intended for use at the published scale of 1:10 000.

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