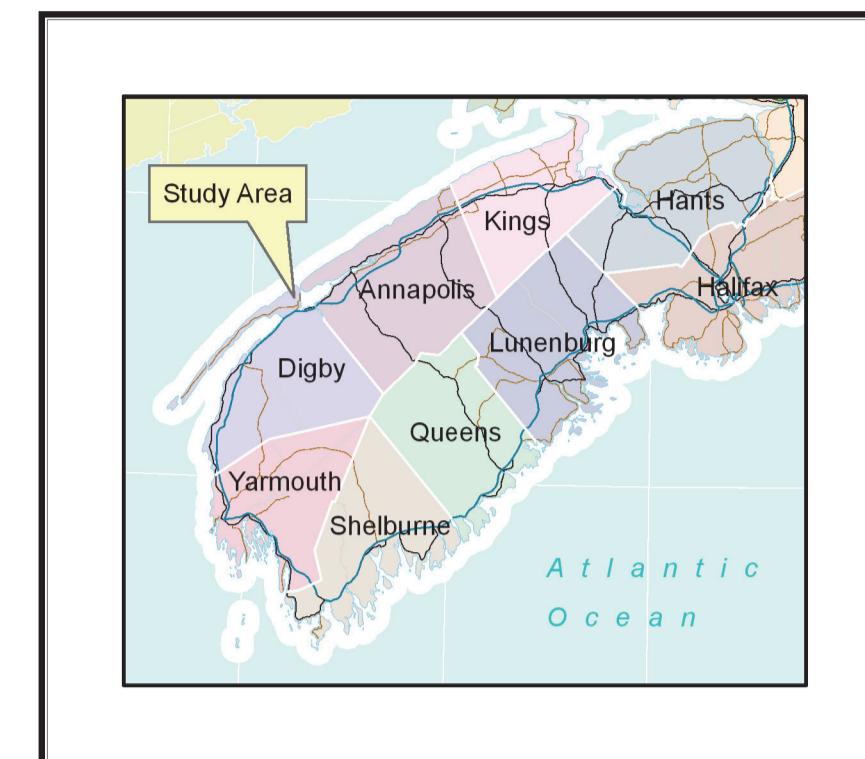
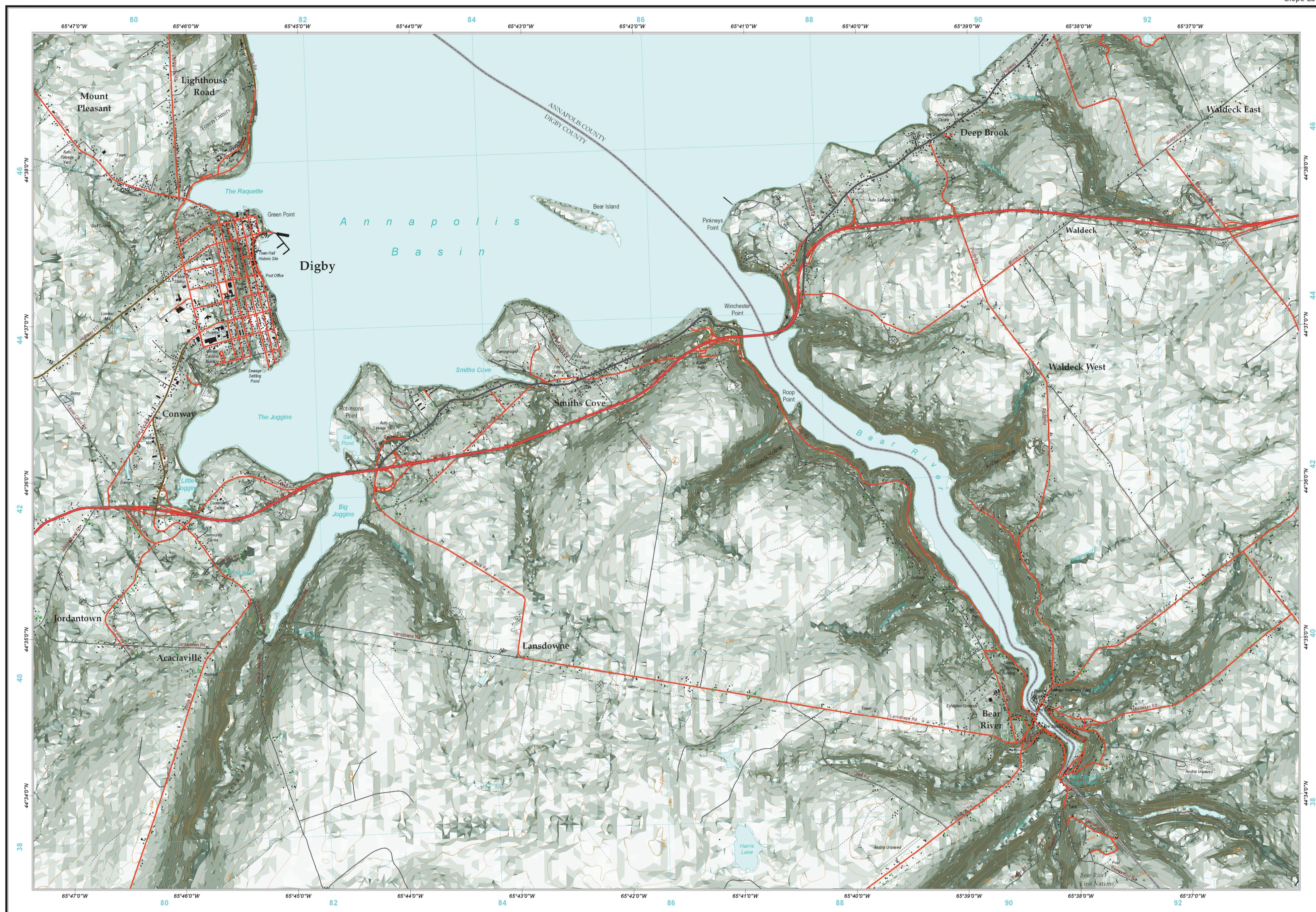


Edition 2018

NOVA SCOTIA RESOURCE SERIES

Slope Layer



This map uses a feature class derived from a TIN (triangular area network) model to display slope (gradient) values for our study area. It was developed with ArcGIS Pro 12.1.0, using a basemap of the Digby, Nova Scotia area we'd previously assembled from adjoining digital files obtained from the Nova Scotia Geomatics Centre. The original basemap had been created using ArcGIS for version 10.5 and so had to be imported and adapted to the ArcGIS Pro environment.

Slope is visualized in this map using discrete polygon features to indicate areas of a given slope range. To create these features, we first merged and clipped the relevant Nova Scotia

Topographic Database datasets, then performed queries and manual edits on feature attributes and geometry to account for any inconsistencies or missing information. Some conversion between feature class geometry types was also required in order to preserve data integrity. After this preparation, we generated a TIN (triangular area network) using the elevation values present within our point, line, and digital elevation model data. Further geoprocessing operations were then performed on the TIN to generate triangle faces in polygon form. A custom graduated colour ramp was created to symbolize the finished product.

Buildings

- Building
- Church
- School

Roads & Railroads

- Arterial Highway (100 Series)
- Trunk Highway (1-99 Series)
- Collector Highway (200-300 Series)
- Local Paved
- Local Unpaved
- Seasonal Dry Weather Road
- Cart Track
- Trail
- Abandoned Railroad

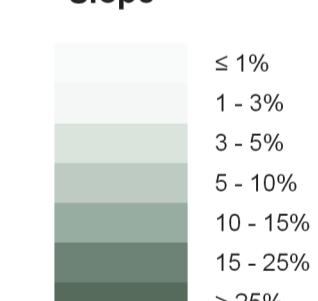
Point Features

- Lighthouse
- Orchard
- Sewage Setting Pond
- Swamp
- Tank
- Tower
- Tree Individual
- Windmill

Line Features

- Structure, Wall, Dam
- Bridge
- Cliff
- River, Stream, Coastline
- Contour
- Contour Approximate
- Conveyor
- County Boundary
- Tree Area, Line, Row or Orchard
- Depression Contour
- Index Contour
- Indian Reserve
- Military Reserve
- Municipal Boundary
- Pipeline Underground
- Power Transmission Line

Slope



Area Features

- Commercial Area
- Building or Structure
- Campground
- Cemetery
- Cut or Fill
- Dump
- Recreation Area
- Hydrography
- Gravel Pit
- Sewage Treatment Plant
- Swamp

Town of Digby
and
Surrounding Area

Digby and Annapolis Counties
Nova Scotia

Scale: 1:30,000
1000 500 0 1000 2000 3000
Metres

Projection: Universal Transverse Mercator, Zone 20 North
Datum: North American Datum 1983 (NAD83)
Correction: Canadian Spatial Reference System 1998 (CSRS98)

Magnetic North
January 2018
Calculated magnetic
declination: 16° 56' 13" W
Latitude: 44° 22' 13" N
Longitude: 65° 25' 15" W

This map is produced as a portion of the requirements of the
Geographic Sciences Program
at the Centre of Geographic Sciences, NSCC, Lawrencetown, Nova Scotia.
The product is unedited, unverified and intended
for educational purposes only.
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Produced by: Nicole White
Date: January 2018

 Centre of Geographic Sciences
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Base Source: Nova Scotia Topographic Database (NSTDB)
1:10000 Enhanced Topographic Data Base
Key Map Source: Nova Scotia Specialty Maps
1:500000 Custom Theme Layers
Compliments of the Nova Scotia Geomatics Centre (NSGC)
Service Nova Scotia and Municipal Relations
160 Willow Street
Amherst, N.S.

Source Map Sheets:
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1044600065600
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<http://www.nsge.gov.ns.ca/>
Data Locator V 3.5.2