

Coastal Hazard Assessment Mapping in St. Margarets Bay (NTS 21A/09 and 11D/12), Nova Scotia

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The Geological Services Division of the Nova Scotia Department of Natural Resources has embarked on a program to map coastal hazards in Nova Scotia. St. Margarets Bay was chosen as the first area to be mapped because it encompasses a wide spectrum of coastal attributes, such as varying geomorphology, bathymetry, different wind exposures, different types of development, and varying degrees of infrastructure risk. The bay also offered the author an opportunity to observe and contrast the varying effects of Hurricane Juan and Post-tropical Storm Noel on the area.

The maps (and databases) will include links to photographs with accompanying detailed captions, figures illustrating important coastal processes, and expanded comments typically describing aspects of

data interpretation and predictive comment. Field work is complete for eight 1:10 000 map areas, with the results compiled on corresponding 1:10 000 coastal series bases.

Production of an initial geo-referenced map for the Hubbards map area (NTS 21A/09) is well advanced. The intent is to generate a map template that will be used in the production of the remaining maps. The Hubbards map will also serve as a template for future data collection and coastal hazard mapping, undertaken as part of the long-term mapping program mentioned above. External review of the Hubbards map template will be critical to insure that the necessary databases are incorporated into the product and that the products will meet the needs of a diverse client base.

