ASSEMBLAGE AGE, PERIOD: Series (Stage, Absolute age range)

PLUTONIC / VOLCANIC ASSEMBLAGES

Unit 2 Label

Unit 1 Label

ASSEMBLAGE NAME: *assemblage description, in the following form: major rock types; minor rock types; setting* **basement * , suite *(, , ,) , , , , , , intrusive *(, , ,) intrusive complex* names indicated in bold text**

Assemblages are subjective groupings of stratigraphic or metamorphic rock units that show correlation and portrayal of lithological continuity on a regional scale

Separately distinguished and described components of the assemblage are indicated by units (i.e. 1, 2...), each unit description, in the following form: major rock types; minor rock types and component features; minor rock types and features; rare rock types and features; settings; **basement * , suite *(, , ,) , , , , , , intrusive *(, , ,) intrusive complex* names indicated in bold text**

1. where indicated, some units within an assemblage, are distinguished by their own colour to add detail and clarity to the map

PLUTONIC ASSEMBLAGE AGE, PERIOD: Series (Stage, Absolute age range)

Unit 2 Label

Unit 1 Label

Variously colored plutonic suites

PLUTONIC ASSEMBLAGE NAME: *plutonic assemblage description, in the following form: major rock types; minor rock types; setting* **basement * , suite *(, , ,) , , , , , , intrusive *(, , ,) intrusive complex* names indicated in bold text**

Assemblages are subjective groupings of intrusive rock units that show correlation and portrayal of lithological continuity on a regional scale

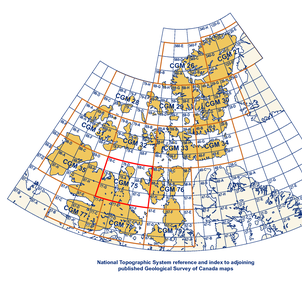
2. Separately distinguished and described components of the assemblage are indicated by units (i.e. 1, 2...), each unit description, in the following form: major rock types; minor rock types and component features; minor rock types and features; rare rock types and features; settings; **basement * , suite *(, , ,) , , , , , , intrusive *(, , ,) intrusive complex* names indicated in bold text**

1. where indicated, some units within an assemblage are distinguished by their own colour to add detail and clarity to the map

For clarity at this map scale, not all units in the legend are indicated separately on the map. For example, units of the Goodday Bay assemblage, labelled Cmv&1, Cmv&2 and Cmv&3 are amalgamated under the colour of their parent (Cmv&).

Brackets indicate grouping of assemblages and component units by type of tectonic setting and colour coded as follows:

- gold: overlap assemblages (Cretaceous only)
- red: plutonic arc, stitching plutons
- brown: fold/thrust belt-derived clastic wedge
- light green: volcanic arc (continental or oceanic)
- purple: slope and deep-water settings
- blue: intracratonic basin
- grey: intracratonic platform
- orange: rift-related
- green: large igneous province (LIP)
- dark blue: orogen, cratonic



National Topographic System reference and index to adjoining published Geological Survey of Canada maps

Abstract

This map and the related geodatabase illustrate the bedrock geology of central and northeastern Victoria Island, Stefansson Island, and western Prince of Wales Island. Major features of the area include inliers of Neoarchean basement, granitoid rocks, clastic rock–dominated sections associated with the late Paleoproterozoic Kilohigok Basin, and Mesoproterozoic Elu Basin; extensive Mesoproterozoic strata of the Hadley Bay Trough; and the Franklin Large Igneous Province (ca. 723 Ma) and unconformable Cambrian to Devonian strata of Arctic Platform.

Résumé

Cette carte et la géodatabase qui s'y rapporte documentent la géologie du substratum rocheux dans le centre et le nord-est de l'île Victoria, l'île Stefansson et l'ouest de l'île Prince of Wales. Les principales entités géologiques de la région comprennent des basoinnières de roches granitoïdes du socle néoarchéen; des successions à prédominance de roches clastiques associées au bassin de Kilohigok paléoprotérozoïque tardif; et du bassin d'Elu (Mésoprotérozoïque); de vastes strates mésoprotérozoïques et néoprotérozoïque du bassin d'Amundsen, des filons-couches de dolérite et des roches basaltiques effusives apparentés à la grande province magmatique de Franklin (env. 723 Ma), ainsi que des strates discordantes d'âge cambrien à dévonien de la Plate-forme de l'Arctique.

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Cover illustration
Shaler Supergroup near Wynniatt Bay, Minto Inlier, northwestern Victoria Island.
Photograph by Rob Rainbird, 2013-072

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CANADIAN GEOSCIENCE MAP 75
GEOLOGY

TECTONIC ASSEMBLAGE MAP OF HADLEY BAY

Victoria and Prince of Wales islands, Nunavut–Northwest Territories

1:500 000

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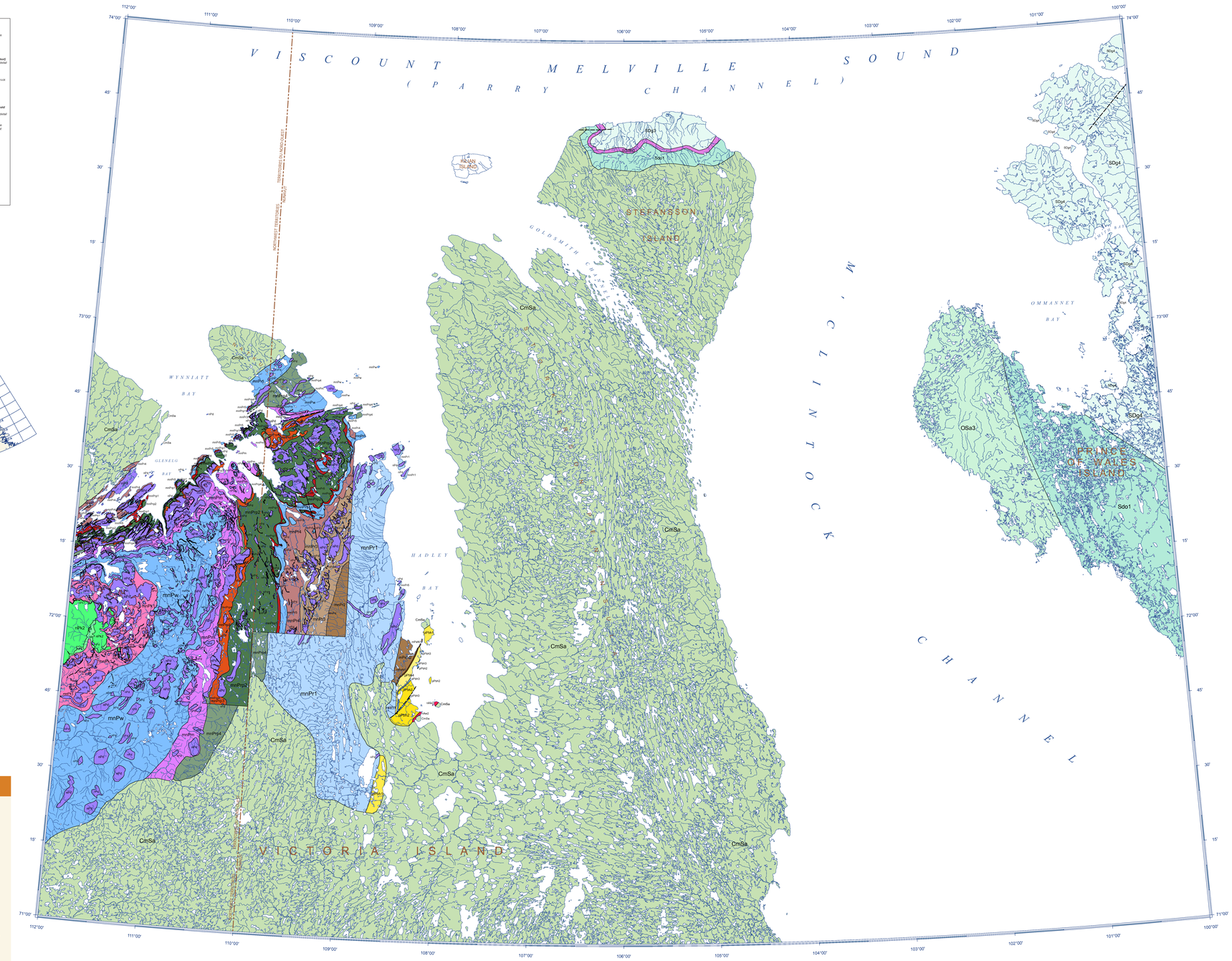
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