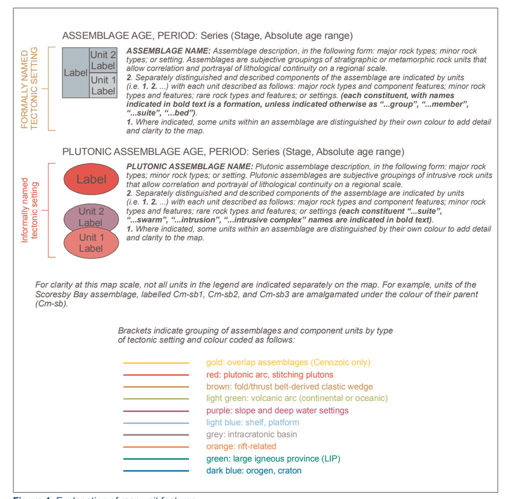
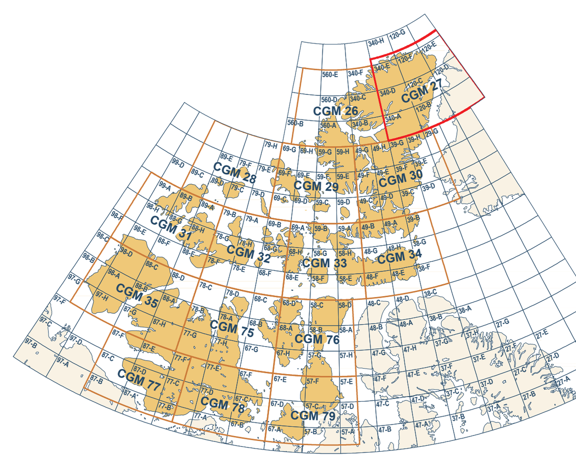
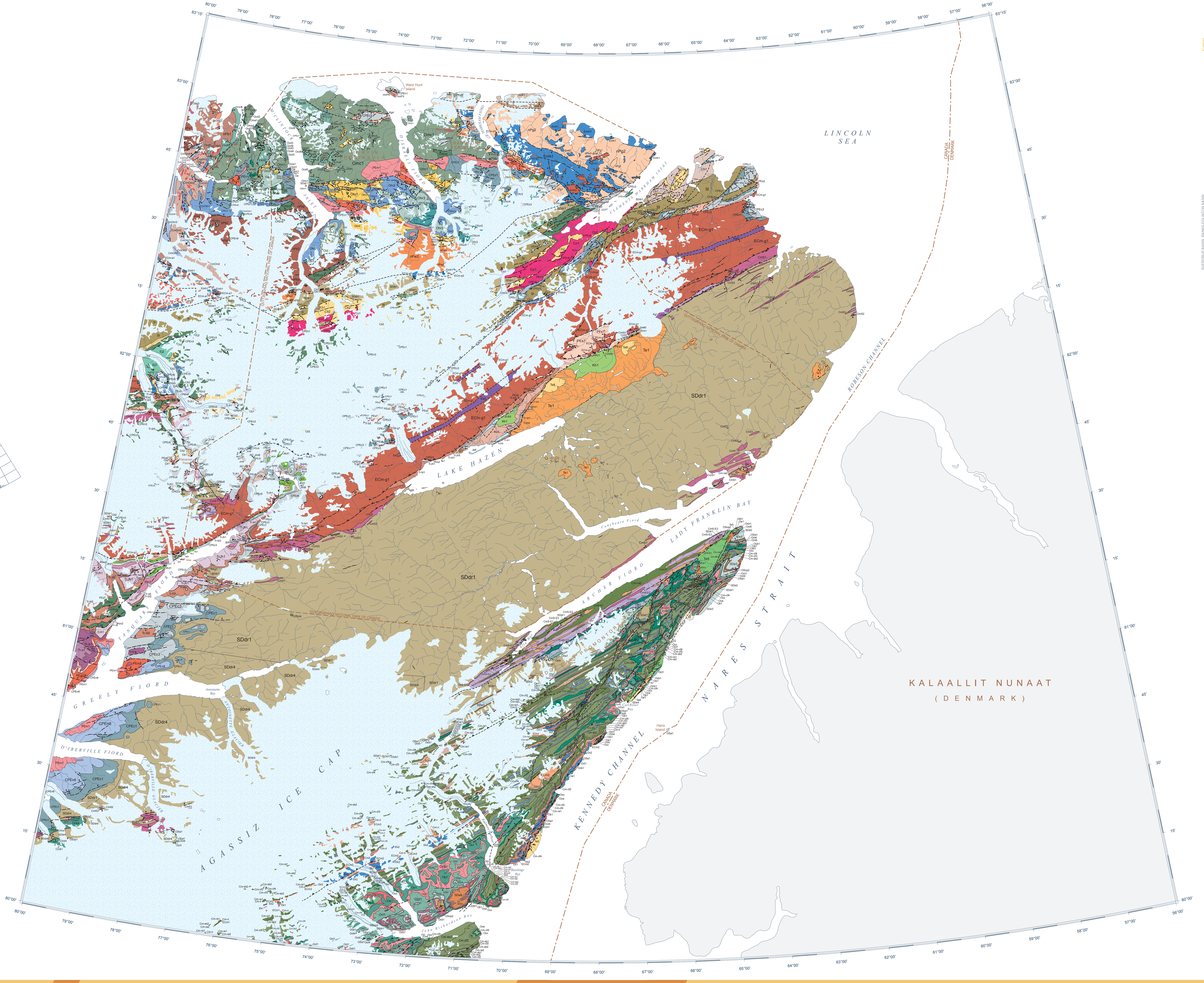


Figure 1. Explanation of map unit features



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 part of northern Ellesmere Island including Quttinirpaaq National Park. Major features of the area include: Pearya Terrane; volcanic, deep water and shelf facies of the Clements Markham, Hazen and Central Ellesmere fold belts; rift-related Upper Paleozoic strata; post-rift Permian and Mesozoic strata of Sverdrup basin; and Paleogene strata associated with the Eurekan Orogeny and fault displacements within and bordering Nares Strait.

Résumé

Cette carte et la géodatabase qui s'y rapporte documentent la géologie du substratum rocheux dans une partie du nord de l'île d'Ellesmere qui englobe le parc national du Canada Quttinirpaaq. Les principales entités géologiques de la région comprennent le terrane de Pearya; les faciès volcaniques, d'eau profonde et de plate-forme continentale des zones de plissement de Clements Markham, de Hazen et de Central Ellesmere; des strates du Paléozoïque supérieur associées au rifting; des strates permiennes et mésozoïques du bassin de Sverdrup, postérieures au rifting; et des strates paléogènes associées à l'orogenèse eurékienne et au jeu des failles à l'intérieur et en bordure du détroit de Nares.

Catalogue No. M183-1/27-2013E-PDF
ISBN 978-1-100-22343-8
doi:10.4095/292822

© Her Majesty the Queen in Right of Canada, as represented by the Minister of Natural Resources Canada, 2015

Natural Resources Canada / Ressources naturelles du Canada

CANADIAN GEOSCIENCE MAP 27

GEOLOGY

TECTONIC ASSEMBLAGE MAP OF QUTTINIRPAAQ

part of northern Ellesmere Island, Nunavut

1:500 000

Preliminary

ess.nrcan.gc.ca

Canadian Geoscience Maps

Canada

Authors: J.C. Harrison, T. Lynds, A. Ford, U. Mayr, H.P. Trettin, and R. Thorsteinsson

Geological compilation by J.C. Harrison

Source map geology (senior authors) by H.P. Trettin, R. Thorsteinsson, J.C. Harrison, and U. Mayr

GIS development by T. Lynds

Spatial data capture by Gismo Solutions Ltd. (Edmonton)

Cartography by M.J. Baldock and J. Gardner

Critical review by K. Dewing

Initiative of the Geological Survey of Canada, conducted under the auspices of the Tri-Territorial Project as part of Natural Resources Canada's Geo-mapping for Energy and Minerals (GEM) program.

CANADIAN GEOSCIENCE MAP 27

GEOLOGY

TECTONIC ASSEMBLAGE MAP OF QUTTINIRPAAQ

part of northern Ellesmere Island, Nunavut

1:500 000

10 0 10 20 30 40 km

Map projection Lambert Conformal Conic, standard parallels 80°30'N and 82°30'N. North American Datum 1983.

Base map at the scale of 1:250 000 from Natural Resources Canada, with modifications.

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area.
Mean magnetic declination 2015, 54°47'W decreasing 65.6'E annually. Readings vary from 45°32'W in the SE corner to 64°39'W in the NW corner of the map.

This map is not to be used for navigational purposes.

Title photograph: Devonian folds in Upper Cambrian Cass Fiord Formation, Judge Daly Promontory, northeastern Ellesmere Island. Photograph by J.C. Harrison. 2013-063

The Geological Survey of Canada welcomes corrections or additional information from users.

Data may include additional observations not portrayed on this map. *See documentation accompanying the data.*

This publication is available for free download through GEOSCAN (http://geoscan.nrcan.gc.ca/).

Recommended citation
Harrison, J.C., Lynds, T., Ford, A., Mayr, U., Trettin, H.P. and Thorsteinsson, R., 2015. Geology, Tectonic assemblage map of Quttinirpaaq, part of northern Ellesmere Island, Nunavut; Geological Survey of Canada, Canadian Geoscience Map 27 (preliminary), scale 1:500 000. doi:10.4095/292822

Preliminary publications in this series have not been scientifically edited.

CANADIAN GEOSCIENCE MAP 27

GEOLOGY

TECTONIC ASSEMBLAGE MAP OF QUTTINIRPAAQ

part of northern Ellesmere Island, Nunavut