

MAIN PART OF MAP

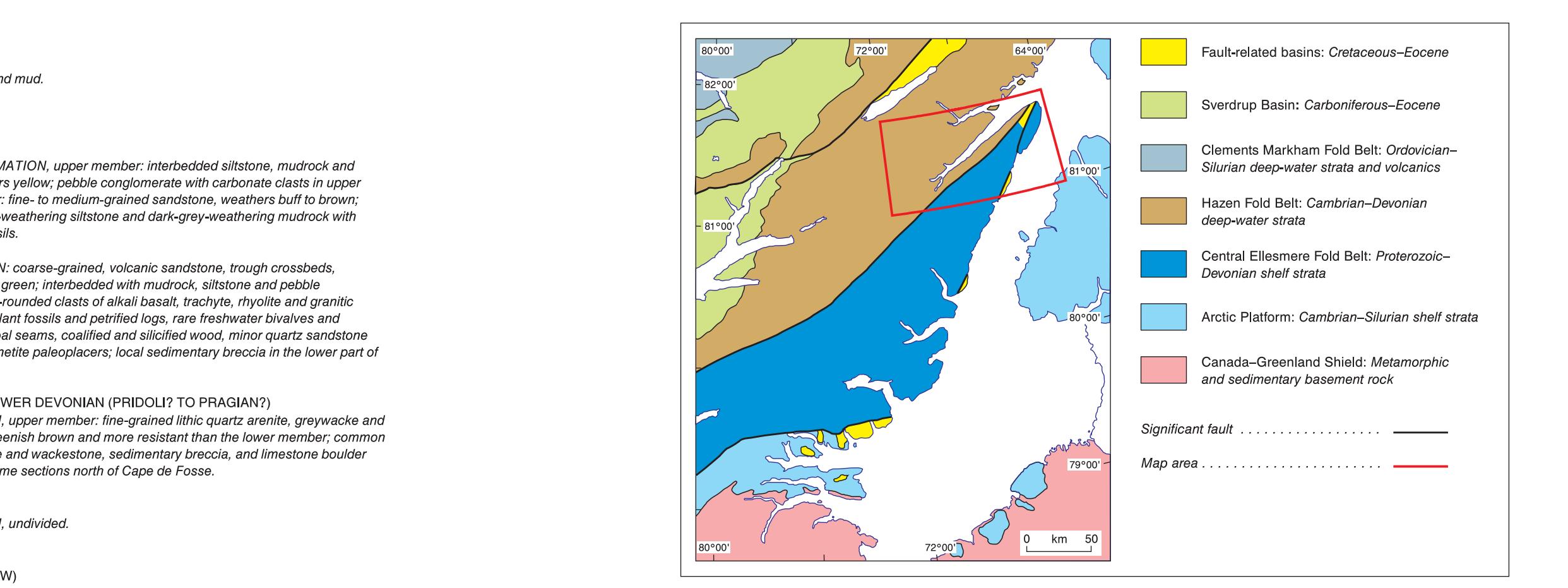


Figure 1: Tectonic index

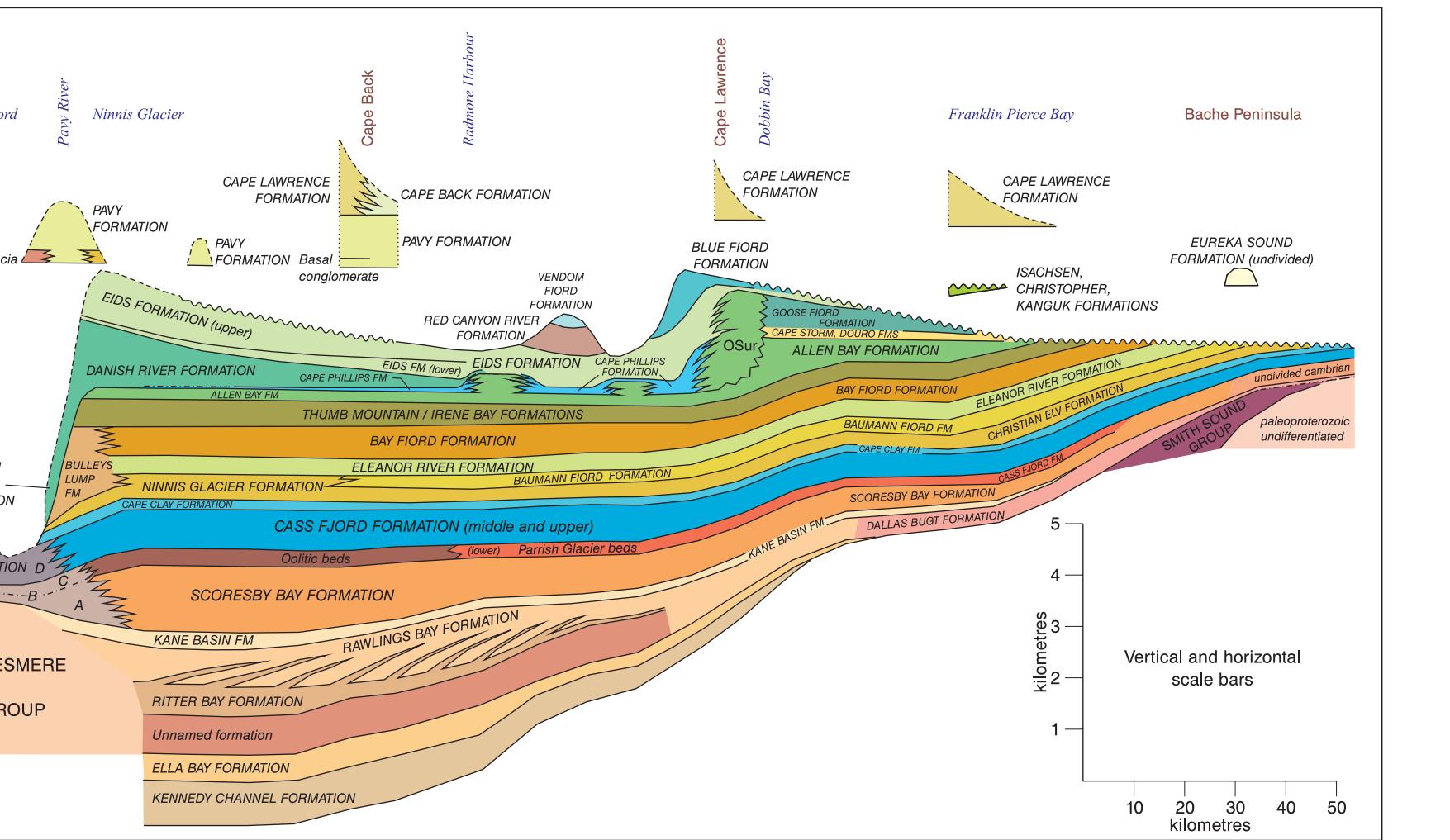


Figure 2: Stratigraphic index

NORTHWEST PART OF MAP

LOWER AND MIDDLE ORDOVICIAN (ARENIG TO CARADOC)
Obl BULLEY'S LUMP FORMATION: limestone and dolomite; frequent molluscs, locally abundant brachiopods, thick bedded to massive, weathers pale yellow, pinkish brown and resistant.
 LOWER AND MIDDLE ORDOVICIAN (TREMADOC)
Osh HAZEN FORMATION: Division E: interbedded limestone, shale and chert; massive to thin bedded, weathers brown, pale yellow brown and resistant, dominant upper part of formation.
 LOWER AND MIDDLE ORDOVICIAN (CARADOC AND ASHGILL)
Ong LITTON GROUP: DALESBURY FORMATION: interbedded limestone and dolomite; laminated, massive, thick bedded to massive, yellowish brown, pale yellow, pinkish brown and resistant; intercalations of dolomitic limestone.
 LOWER AND MIDDLE ORDOVICIAN (DINANTIAN)
Och UPPER CAMBRIAN TO LOWER ORDOVICIAN
 CASS FJORD FORMATION: lower member (polystroma): thick bedded limestone; interbedded dolomite and dolostone; massive, thin bedded; weathers dark grey and resistant.
 MIDDLE CAMBRIAN
Cch HAZEN FORMATION: Division A to C: thick bedded limestone; dolomite; dolostone; massive, thin bedded to massive, light grey to pinkish brown and resistant.
 LOWER CAMBRIAN
Csa SCROBBY BAY FORMATION: interbedded slaty dolomite, dolostone; massive, thin bedded to massive, light grey to pinkish brown and resistant.
Ckb RAUHUK BAY FORMATION: thin to thick bedded dolomite; quartz arenite, fine to coarse-grained, cross-bedded, yellow to rusty weathering; interbeds of dark grey slaty dolomite.
Crh RITTER BAY FORMATION: dark grey shale and slate, locally silty, laminated; formation weathers dark grey and resistant.
 PROTEROZOIC
Vcd NEOPROTEROZOIC (VENDIAN) AND LOWER CAMBRIAN
 Undifferentiated unnamed formation; facies not known.

NORTHEAST PART OF MAP

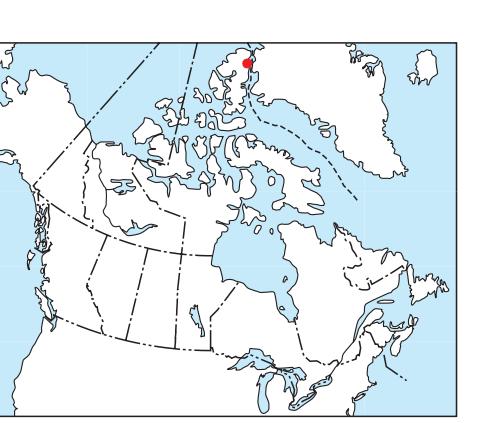
Cb LOWER CAMBRIAN
 DALLES-BLOUZ FORMATION: thick bedded sandstone, medium-grained, interbedded chert and quartz granules and pebbles; formation weathers white-rusty and resistant.

Structure cross-sections (Pleijoh et al., in press):
 Structure cross-section D¹-D²:
 Mineral showings:
 Limit of field work
 Marker bed (thin formation)
 Bedding, top known, overstepped, inclined, vertical
 Bedding, estimated from distance (inclined)
 Fault, strike-slip, arrows indicate relative movement (defined, approximate)
 Thrust fault (defined, approximate); teeth indicate up-thrust side
 Fault, undetermined (defined, approximate); assumed: thickness, dip, orientation
 Anticline and syncline (defined, approximate, assumed)
 Anticline and syncline, overturned (defined, approximate)



REFERENCES

- Harrison, J.C.: Regional variation in structural style, deformation kinematics, and summary of tectonic history, northeast Ellesmere Island, Geology of Northeast Ellesmere Island Adjacent to Kane Basin and Nares Strait, Northern Canada, (ed.), P. Harrison, Geological Survey of Canada, 2007.
 Pleijoh, K., von Gosen, W., Tessman, F., and Saalmann, K.: Regional geological setting and its tectonic evolution, and its tectonic evolution, in Geology of Northeast Ellesmere Island Adjacent to Kane Basin and Nares Strait, Nunavut, (ed.), J.C. Harrison, Geological Survey of Canada, 2007.


 MAP 2105A
 GEOLOGY
LADY FRANKLIN BAY

 ELLESMERIE ISLAND
 NUNAVUT

Scale 1:125 000/Echelle 1/125 000

Kilometers
 Universal Transverse Mercator Projection
 North Polar Stereographic Projection
 Geodetic datum: North American Datum 1983
 Digital compilation by Geomatics Canada, modified by DOD

Projection en équateur universel du Méridien
 Système de référence géodésique du nord
 Système de référence géodésique du Canada 1983
 © Her Majesty the Queen in Right of Canada 2007
 © La Majesté la Reine du Canada 2007

 Any revision or additional geological information known to the user
 would be welcomed by the Geological Survey of Canada

Digital base map from data compiled by Geomatics Canada, modified by DOD

Proximity to the North Magnetic Pole causes the magnetic compass to be erratic in this area
 Mean magnetic declination 2007: 69°34'W, decreasing 7.2' annually.
 Readings vary from 60°00'W in the SE corner to 67°02'W in the NW corner of the map
 Elevation in feet above mean sea level