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Scale 1:250,000

kilometres 2 0 2 4 6 8 10 kilometres

Universal Transverse Mercator Projection
North American Datum 1983

Projection transversale universelle de Mercator
Système de référence géodésique nord-américain, 1983

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Elevations in feet above mean sea level

Some features on the map have been projected to surface through plunger core 1. Descriptive sedimenters, glacier ice, and bodies of water.

Geological boundary (defined, approximate, assumed)

Marine bed (thin formation)

Bedding: top arrow (assumed, inclined, vertical, horizontal)

Bedding: estimated from distance (inclined)

Flow: strike-slip; arrows indicate relative movement (defined, approximate, assumed)

Thrust fault (defined, approximate, assumed; black indicates upthrust side)

Fault: undetermined (defined, approximate, assumed)

Small-scale undulations (downthrust)

Anticline and syncline (defined, approximate, assumed; arrow indicates plunges)

Anticline and syncline, overturned (defined)

Structure cross-section

Structure cross-section (Fleggen et al. in press)

Map projection

1: scale bar

2: GSC file: C-472151; Described: copper anticline, weathers to azurite and malachite

3: GSC file: C-472151; Undetermined: copper anticline, weathers to azurite and malachite

1. The lateral contact of the 'Parrish Glacier beds' and 'oolitic beds' of the Cass Fjord Formation is extended facies change on both sides of Radnor Harbour. The contact indicated on the map is arbitrary.
2. The Rittér Bay Formation consists of major intertonguing units of shale and sandstone. The upper contact of the formation and of the Aecher Fjord member are diachronous.
3. An account of the geology of Harris Island has been prepared separately (Harrison et al., in press).

Harrison, J.C.
in press: Regional variation in structural style, deformation kinematics, and summary of tectonic history. In: *Geology of Northwest Elzevirian Island Adjacent to Kane Basin and Nares Strait, Nunavut*, [eds U. Mayn, Geological Survey of Canada, Bulletin 666].

Pieppke, K., von Gosen, W., Teschlowski, R., & Sadanaka, K.
Elzevirian Fold-and-Thrust Belt, northwest Elzevirian Island, and its Eureka overprint. In: *Geology of Northwest Elzevirian Island Adjacent to Kane Basin and Nares Strait, Nunavut*, [eds U. Mayn, Geological Survey of Canada, Bulletin 666].

Harrison, J.C., Denop, K., & Mayn, U.
in press: Geology of Hare Island and adjacent parts of Wrennery Channel, northwest Greenland (60°44'N Narsarsuaq and northern Narsarsuaq (Canada)). *Geological Survey of Canada, Open File 6251* [(CO-6251)].

Recommended citation:
Mayr, U., Harrison, J.C., and Piepjohn, K.
2007: *Geology, Kennedy Channel, Ellesmere Island, Nunavut*.
Geological Survey of Canada, Map 2102A, scale 1:125 000.

Figure 1: Tectonic index

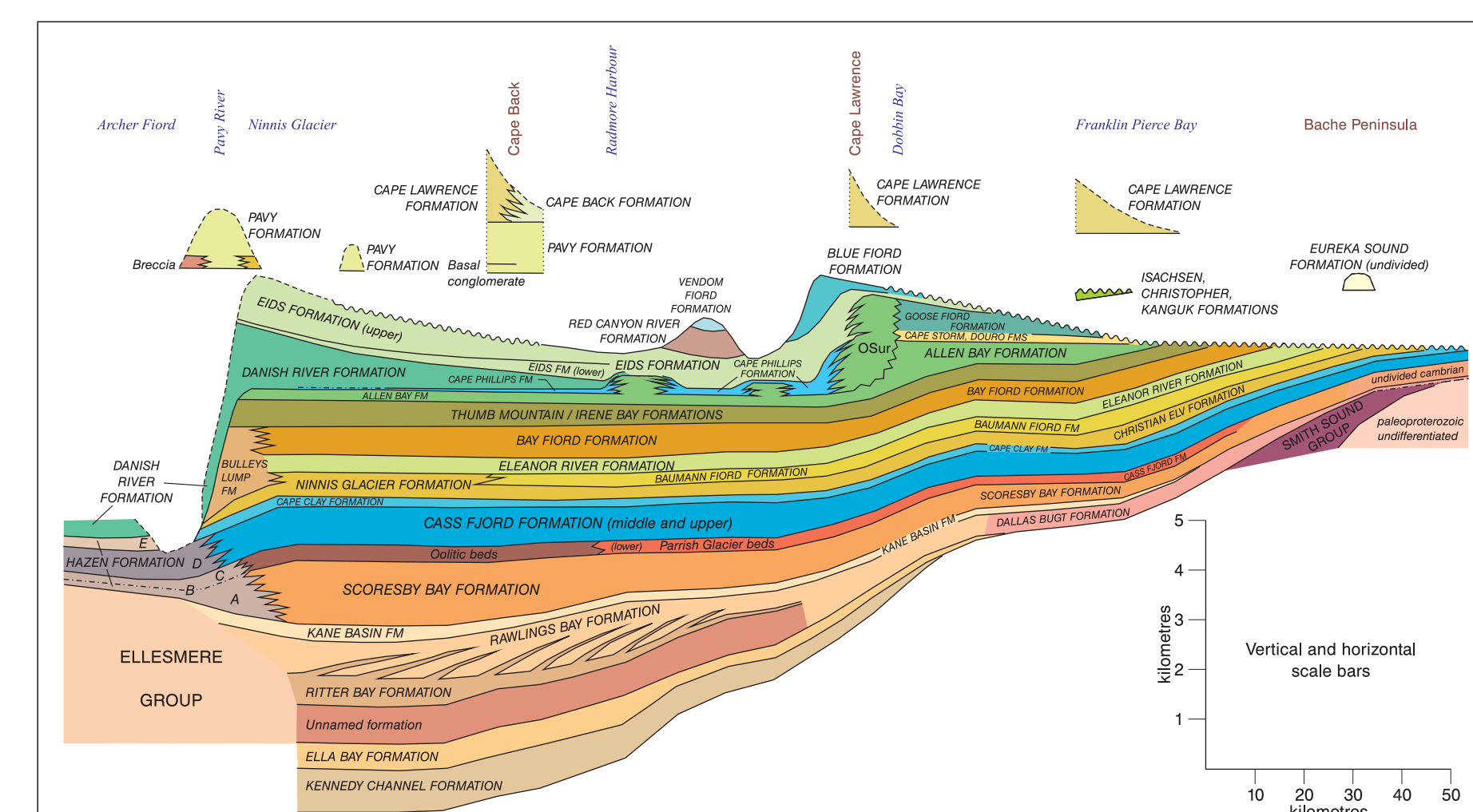
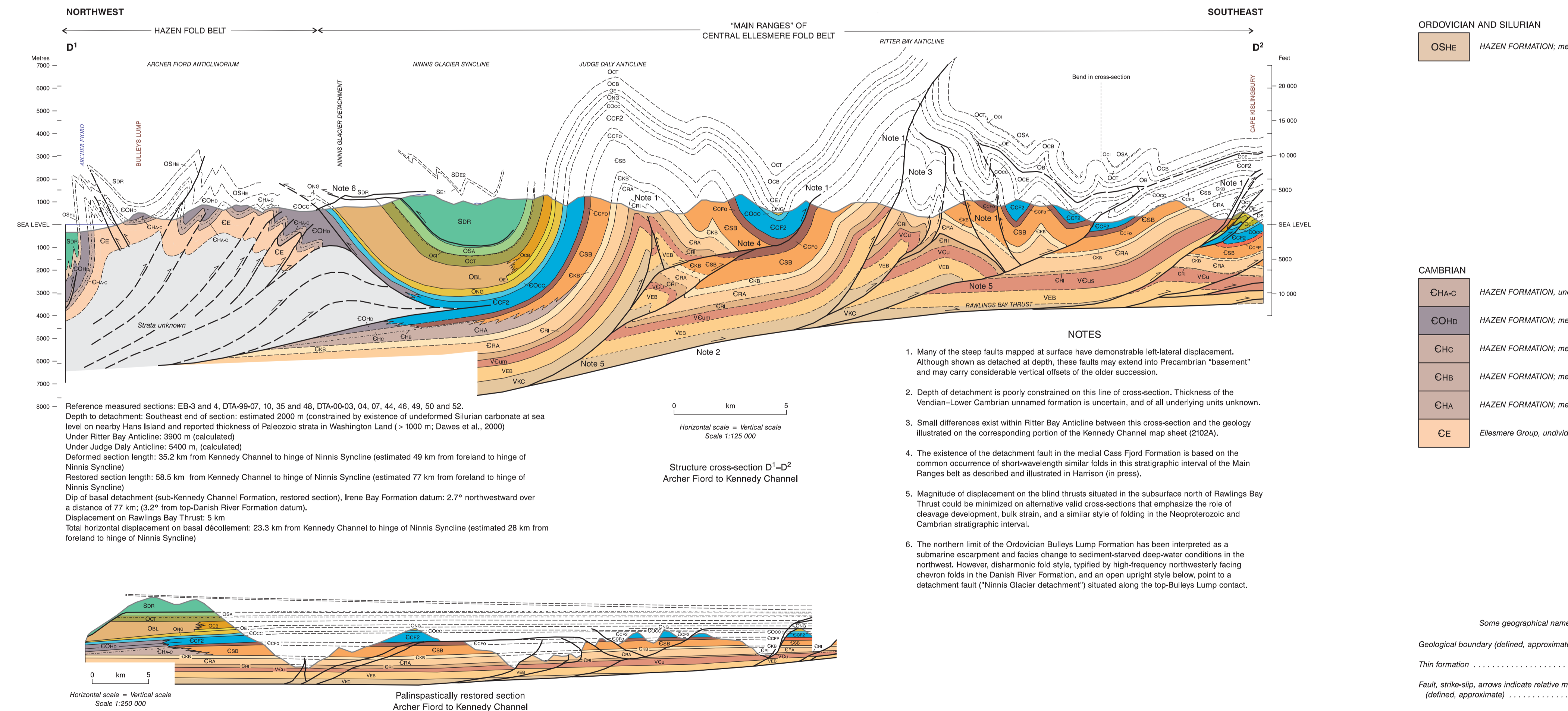
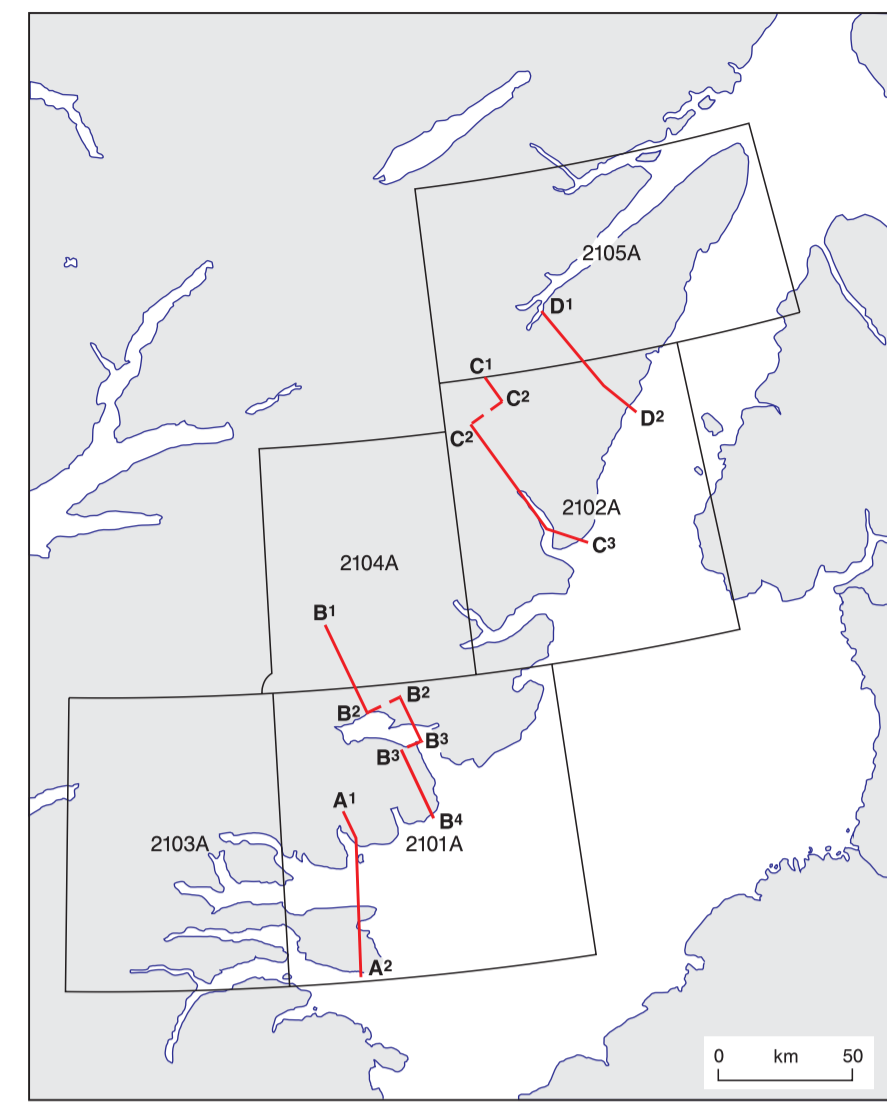


Figure 2: Stratigraphic index



LEGEND

PALEOZOIC	
PALEOZOIC	PALEOZOIC
TOL	GAPE LAWRENCE FORMATION
CRETACEOUS	CRETACEOUS
KI	SACHEN, CHRISTOPHER, and KANGKUK FORMATIONS (undivided)
SILURIAN	SILURIAN
SDE	EVOS FORMATION (undivided)
SILURIAN AND DEVONIAN	SILURIAN AND DEVONIAN
SDS	GOOSE FORD FORMATION
SILURIAN	SILURIAN
SDO	DOURD FORMATION
SCS	GAPE STORM FORMATION
ORDOVICIAN AND SILURIAN	ORDOVICIAN AND SILURIAN
OSA	ALLEN BAY FORMATION
ORDOVICIAN	ORDOVICIAN
OBIL	BULLEYS LUMP FORMATION
ONG	MINNIE GLACIER FORMATION
ORDOVICIAN	ORDOVICIAN
OCT	IRENE BAY FORMATION
OCT	THUMB MOUNTAIN FORMATION
OCB	BAY FORD FORMATION
OE	ELEANOR RIVER FORMATION
OE	BAUMANN FORD FORMATION
OE	CHRISTIAN ELV FORMATION
CAMBRIAN	CAMBRIAN
CCF2	CASS FJORD FORMATION (upper part)
CCF2P	CASS FJORD FORMATION (Pebbly Glacial beds)
CCF0	CASS FJORD FORMATION (polite beds)
CSB	SCORESBY BAY FORMATION
CXB	KANE BASIN FORMATION
CRA	RAWLINGS BAY FORMATION
CRI	RITTER BAY FORMATION
NEOPROTEROZOIC(?) - CAMBRIAN	NEOPROTEROZOIC(?)
VCu	Unnamed formation; facies not known
VCus	Unnamed formation; sandstone facies
VCum	Unnamed formation; mixed facies
NEOPROTEROZOIC	NEOPROTEROZOIC
YEB	ELLA BAY FORMATION
WVC	KENNEDY CHANNEL FORMATION
NET(?)	Neoproterozoic (assumed)
MESOPROTEROZOIC	MESOPROTEROZOIC
MPSS	Smith Sound group
PALEOPROTEROZOIC	PALEOPROTEROZOIC
Pg	Unmetamorphosed granites (Ingleford Supergroup (Canada-Greenland shield))

Some geographical names subject to revision

Geological boundary (defined, approximate, assumed) ...

Thin formation

Fault, strike-slip, arrows indicate relative movement (defined, approximate)

REFERENCES

- Dawes, P.R., Frisch, T., Gende, A.A., et al.
2000. Kane Basin 1999: mapping stratigraphic structures and economic assessment of Precambrian and Lower Paleozoic provinces in north-western Greenland; *Geology of Greenland Survey, Bulletin 186*, p. 11–20.
- Harrison, J.C.
in press. Regional variation in structural style, deformation kinematics, and summary of tectonic history, northeast Ellesmere Island, in: *Geology of Northeast Ellesmere Island Adjacent to Kane Basin and Nares Strait, Nunavut*, (ed. U. Mayr; Geological Survey of Canada, Bulletin 592).