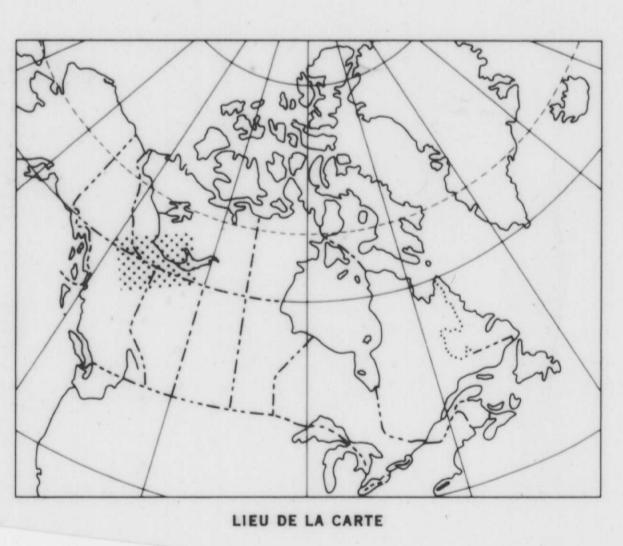


MIDDLE DEVONIAN CARBONATE BARRIER-COMPLEX
OF WESTERN CANADA



LEGEND

Paleogeology

- SO**: Silurian and/or Upper Ordovician; Mt. Kindle Fm. in NWT, Nonda Fm in B.C.; mostly dolomite
- C**: Cambrian; dolomite, shale, sandstone, siltstone; distribution in B.C. modified from Pugh, 1975
- PP**: Uncertain age, Proterozoic and/or Paleozoic; sandstone, quartzite
- P**: Probably Proterozoic, no or very low grade metamorphism; sandstone, quartzite, mudstone, metasediment or chert;
 - above rocks cut by granite (a) or diorite (o) sill
 - above rocks overlying granite or diorite sill? (base not drilled)
- PC**: Precambrian, igneous and metamorphic rocks. Gabbro identified from core (c) or thin section etc. made from sample cuttings (s);
 - in NWT only, metasediment is indicated by a square; in Alberta and B.C. differentiation of rock type is not attempted

— Approximate geological boundary

— Mappable limit or highly uncertain geological boundary

AA' & BB' Line of cross-section

Paleotopography

Pre-Devonian structural and/or topographic relief, approximate amount of relief in brackets

— Broad slope, partly (at least) on pre-Devonian origin

— Trend of aeromagnetic low, from Burwash, 1957, Fig. 4

Structure (values in metres)

Subsea, base of Devonian

Structure contour, base of Devonian

Fault, arrow on down side

Key to References

1 Burwash, 1957. 2 Douglas et al., 1959.
3 London, 1961. 5 Williams, 1977a. 6 Winzer, 1972

All identifications of igneous rocks, unless indicated otherwise, made by M.P.Cecile, I.S.P.G., Calgary

MAP1: PRE-DEVONIAN SURFACE, PALEOGEOLGY,
PALEOTOPOGRAPHY AND PRESENT STRUCTURE

Compiled by G.K. Williams, I.S.P.G., Calgary, 1981

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