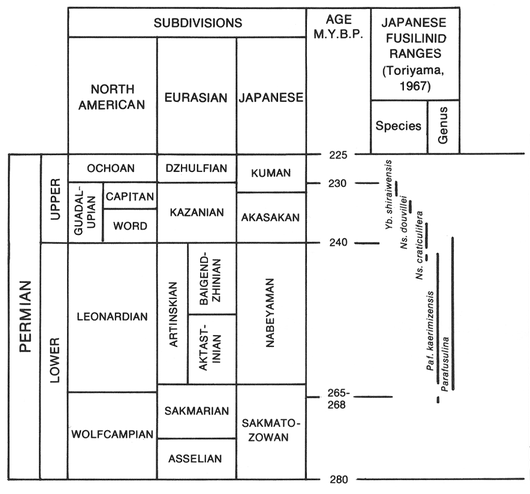
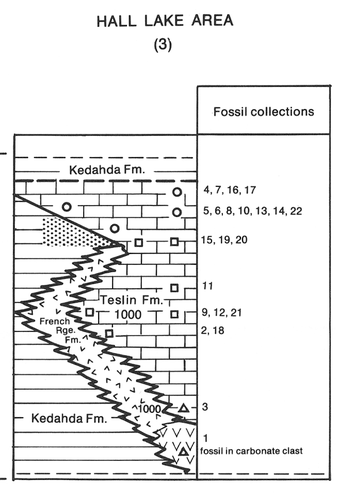
GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

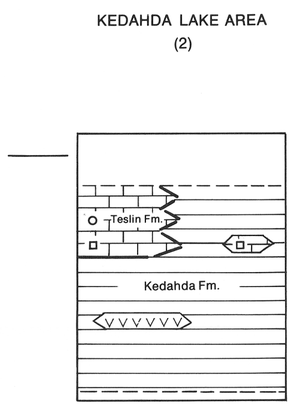
NORTHEASTERN FACIES BELT

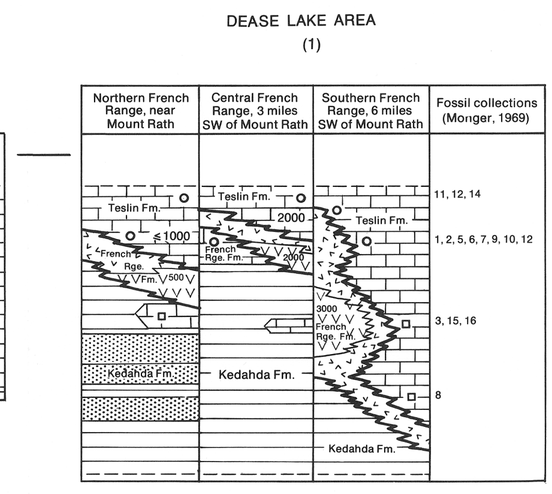
CENTRAL FACIES BELT

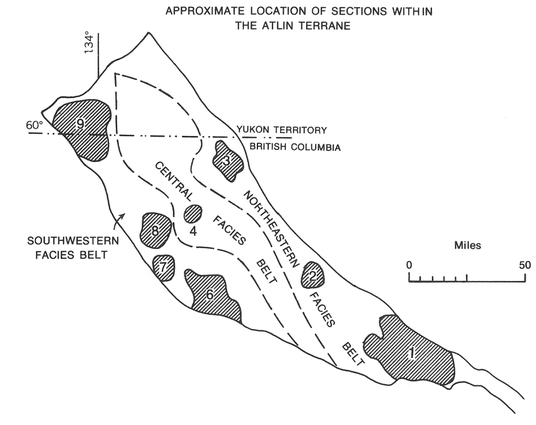
SOUTHWESTERN FACIES BELT

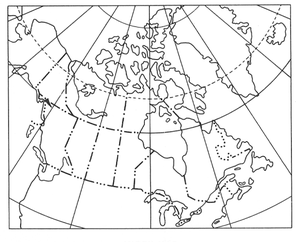






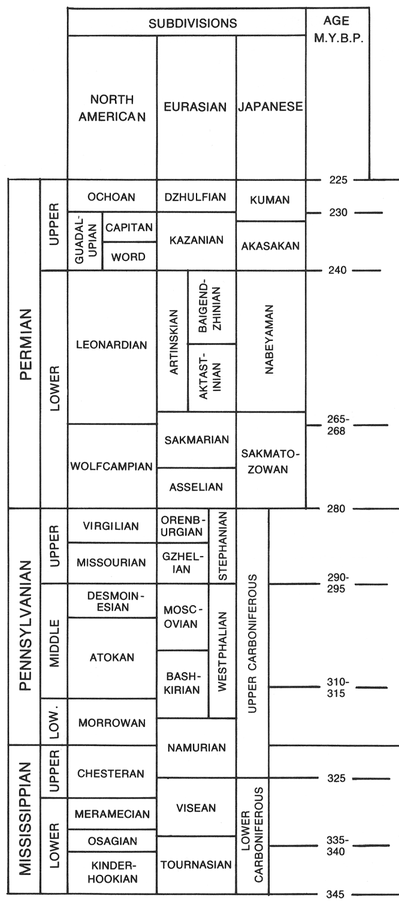


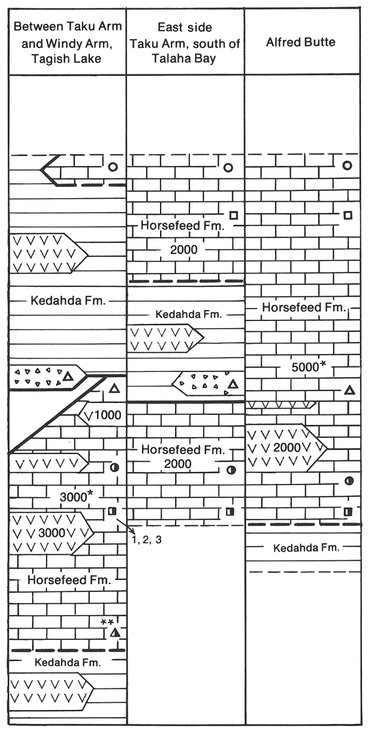


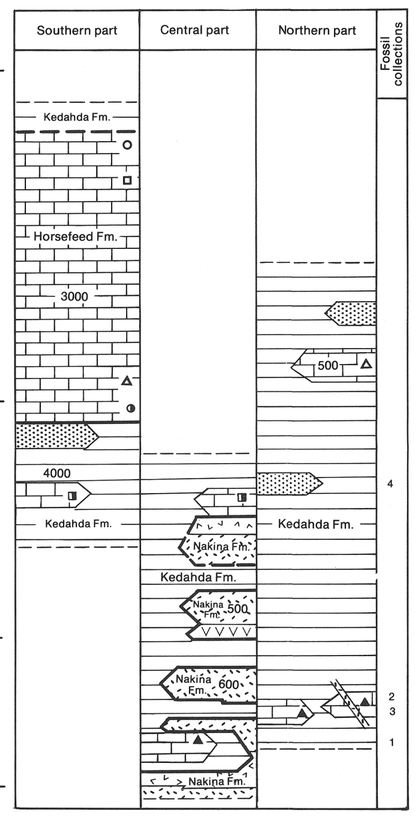


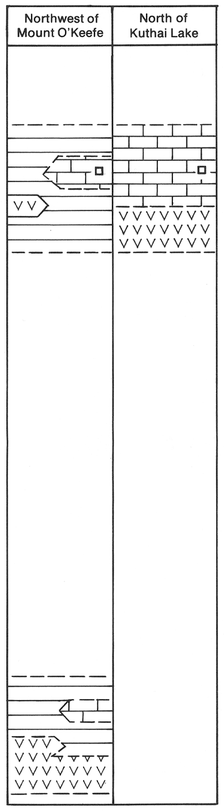
INDEX MAP

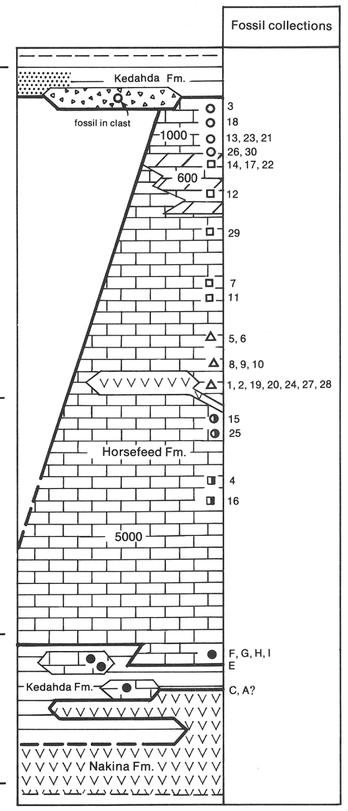
The Mount Farnsworth area (4) exemplifies the Central Facies Belt, and consists mainly of bedded chert, cherty pelite and pelite, local sandstone and pods of carbonate with Early Permian and/or latest Pennsylvanian fusulinids. Elsewhere, as in the northern part of the Sentinel Mountain area (8), both Permian and Mississippian carbonate pods and volcanic rocks occur. All units are included in the Kedahda Formation











Diabase

Bedded chert, cherty pelite, pelite

Limestone, locally dolomitized and locally brecciated

Altered basalt

Volcanic sandstone

Dolomitic limestone

Pyroclastic rock

Breccia with limestone, dolomitic limestone, and/or chert, argillite clasts

Formation boundary .....

Diachronous, gradational contact, between formations; within formation .....

Nature of contact unknown, or contact not exposed in area; tectonic contact .....

Approximate maximum thickness in feet of lithological unit; either formation, or subdivision within formation 1000

- Late Permian
- middle Permian (late Leonardian, earliest Guadalupian)
- Early Permian
- Late Pennsylvanian
- Middle Pennsylvanian
- Early Pennsylvanian
- Late Mississippian
- Early Mississippian

Position of fossil symbols shows their stratigraphic level and whether they occur at the boundary of a formation or within it, or both. Numbers and letters refer to fossils identified by Ross, Bamber and Mamet and given in Appendix A.

To accompany GSC Paper 74-47 by J.W. Monger

The 'triple' time scale used is necessary as the older Permian fossils are correlated with Russian (Eurasian) faunas and the younger ones with Japanese faunas. Time scales are taken largely from: (1) Ross, C.A., 1970; Concepts in late Paleozoic correlations, Geol. Soc. Am. Sp. Pap. 12 4, p. 7-36
(2) Toriyama, R., 1967; The fusulinacean zones of Japan, Mem. Fac. Sci., Kyushu Univ., Ser. D. Geol., v. 18, p. 35-260

* Thickness does not include volcanic rock intercolated with the carbonate

** from Ruedisili, 1965

1, 2, 3 in Appendix A

* This area lies across the transition between the Southwestern and Central Facies Belts. That in the southern part is typical of the Southwestern Belt; that in the northern part, the Central Belt

Ultramafic rocks, commonly spatially associated with the Nakina Formation are omitted from these sections as their stratigraphic relationship to the volcanics is not known

Printed by the Surveys and Mapping Branch, 1975

Figure 3. Schematic sections of Upper Paleozoic stratified rocks in the Atlin Terrane, British Columbia and Yukon Territory

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