

Mineral Occurrences and Showings From Yukon and British Columbia Mines

Table with 6 columns: MinFile #, Latitude, Longitude, Name, Status, Deposit Class, Major Commodity. Lists various mineral occurrences and showings from Yukon and British Columbia mines.

Data from Yukon and BC Mines (Indian and Northern Affairs, 1999; Millfile 1040 Bradford and Jakobsen, 1998)

Age Constraints

The age of rock units in the Cassiar terrane are from Abbott (1981), and are based on fossil data from Poole (1956), and on regional correlation of rock units. Rocks in the Rom Creek assemblage are considered to be Paleozoic or Mesozoic in age based on the possible correlation of these rocks with the Slide Mountain terrane.

Conodont Age Data

Table with 6 columns: Location, Unit, Locality #, Latitude, Longitude, Conodont Taxa, Age. Provides conodont age data for various locations in the Dorsey Range.

Age data from Orchard in Paulsen et al. (1999)
Locality numbers are from Gorday and Makepeace (1999)

Assemblage Relationships

The contact between the Rom Creek assemblage and the Cassiar terrane is interpreted to be a thrust fault based on the juxtaposition of strongly deformed to mylonitic gneissic rocks of the Rom Creek assemblage over moderate to weakly deformed to mylonitic gneissic rocks of the Cassiar terrane.

Terrane Affinity

Rocks of the Rom Creek Assemblage have been correlated with the Slide Mountain terrane by Wheeler and McFay (1991). A lack of age control on rocks of this assemblage do not allow us to substantiate this correlation, although the abundance of mafic schist that were likely derived from volcanic rocks is consistent with the Slide Mountain terrane.

References

List of references including Abbott, J.D. 1981; Ender, P.; Ghent, E.D.; Archibald, D.A.; and Stoll, M.A. 1996; Gorday, S.P.; and Makepeace, A.J. 1999; Poole, W.H. 1956; and others.

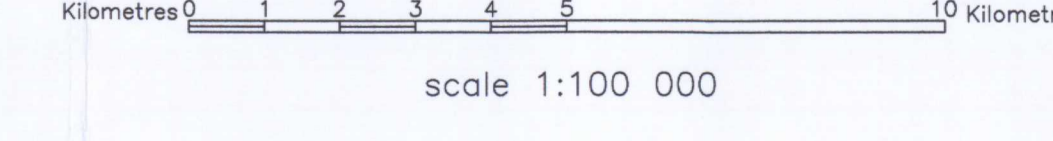
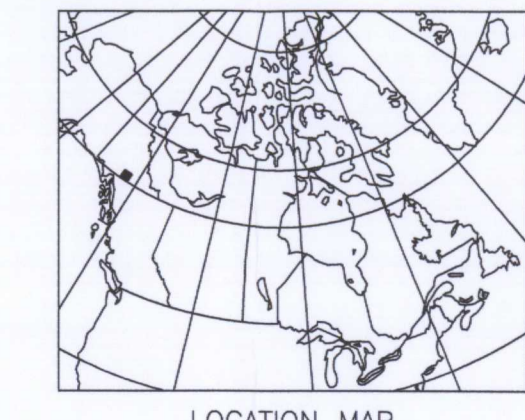


Legend for the geological map, including symbols for geological boundaries, faults, and structural features. Includes a table for mineral occurrences and showings.

Acknowledgements
The authors express their thanks to Paul Nelson, Ian Henlings, and J. Tony King for excellent assistance in the field to Steve Gorday and Charlie Roofs for reviewing the map, and to Ray Price for his support of this project. Discovery geologists of J.M. B.C. provided excellent field and expediting services. Steve Gorday and the Geological Survey of Canada provided logistical support in Whitehorse that was greatly appreciated. Fieldwork was supported by a Lithoprobe supporting geoscience grant to R.A. Price and by a NSERC post-doctoral fellowship to R.A. Stevens.

Geological unit descriptions for the map. Includes sections for Quaternary Cover, Mesozoic Igneous Suites, Klinkit Assemblage, Swift River Assemblage, Dorsey Assemblage, Hazell Assemblage, Ram Creek Assemblage, and Cassiar Terrane (North American Margin). Each section provides a detailed description of the rock units and their characteristics.

Bedrock Geology of the Dorsey Range, southern Yukon Territory and northern British Columbia (part or all of NTS map areas 105 O/13, 14 and 105 B/3, 4, 5, 6)



Recommended Citation
Stevens, R.A., and Horne, T.A. 2000. Bedrock Geology of the Dorsey Range, southern Yukon Territory and northern British Columbia. Geological Survey of Canada, Open File 3926. (Map scale 1:100 000).

GSC OPEN FILE 3926