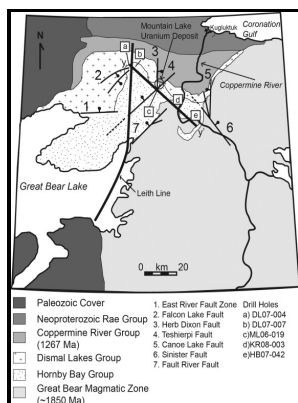


Stratigraphy and sedimentation in the Helikian Elu Basin and Hiukitak Platform, Bathurst Inlet-Melville Sound, Northwest Territories

Dept. of Energy, Mines and Resources - A middle Proterozoic palaeokarst unconformity and associated sedimentary rocks, Elu Basin, northwest Canada, Sedimentology



Description: -

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Mackenzie igneous events, Canada: Middle Proterozoic hotspot magmatism associated with ocean opening

The Baker Lake and Thelon basins lie along the border between the Rae and Hearne domains of the western Churchill Province.

Mackenzie igneous events, Canada: Middle Proterozoic hotspot magmatism associated with ocean opening

The depositional record reflects progressive upward fining and eventually the first record of marine transgression within the Dubawnt Supergroup. The dyke age of 1267 Ma provides a precise time-marker for much of the northwestern Canadian Shield. A middle Proterozoic palaeokarst unconformity and associated sedimentary rocks, Elu Basin, northwest Canada.

Stromatolite biostratigraphy

Caves and various karren developed within the meteoric vadose and phreatic zones.

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Rivers flowed toward the northwest and northeast within karst valleys and caves; lakes were also situated within valleys; marine mudflat sediments completely cover the palaeokarst to the north. Journal Sedimentology — Wiley Published: Oct 1, 1991 APA PELECHATY, S.

Mackenzie igneous events, Canada: Middle Proterozoic hotspot magmatism associated with ocean opening

Basin fill comprises the Dubawnt Supergroup, a ca. A middle Proterozoic palaeokarst unconformity and associated sedimentary rocks, Elu Basin, northwest Canada A middle Proterozoic palaeokarst unconformity and associated sedimentary rocks, Elu Basin,. The overlying Whart sequence

was deposited in small basins formed by block-faulting and tilting of the Baker sequence.

A middle Proterozoic palaeokarst unconformity and associated sedimentary rocks, Elu Basin, northwest Canada, Sedimentology

Stromatolites are now used more and more frequently in attempts to solve Precambrian stratigraphic problems. The nature and timing of basin development and associated magmatism allows that it may be a transtensional basin that formed by lateral escape in response to crustal thickening during the Trans-Hudson orogeny, similar to the formation of Mesozoic and Cenozoic strike-slip and associated rift basins on the margins of the Tibetan Plateau.

Sequence stratigraphy and evolution of the Paleoproterozoic intracontinental Baker Lake and Thelon basins, western Churchill Province, Nunavut, Canada

The Dubawnt Supergroup comprises three second-order sedimentary sequences that record deposition within a rift basin, a modified rift basin and a thermal sag basin, respectively.

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