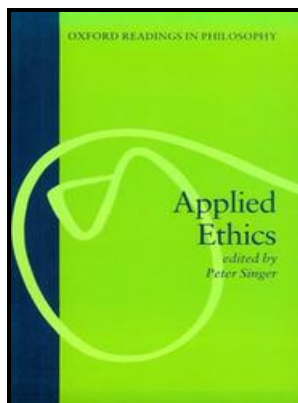


# Isotopic age studies and tectonic interpretation of Superior Province in Manitoba. by Ingo F. Ermanivocs and R.K. Wanless

Dept. of Energy, Mines and Resources - Tectonic and Radiometric Age Comparisons



Description: -

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## Stable isotopic constraints on the tectonic, topographic, and climatic evolution of the northern margin of the Tibetan Plateau

Pasensya naman po sa mga unanswered questions. We interpret a Neogene increase in both carbon and oxygen isotope values to result from the initiation of local mountain building in the study area and the withdrawal of marine waters, which increased basin isolation, aridity, and temperatures.

## Isotopic age studies and tectonic interpretation of superior province in Manitoba (Book, 1983) [tech.radiozamaneh.com]

These data combined with regional geochronological and field studies favour deposition in a basin formed by late orogenic collisional events. Thus, the  $^{207}\text{Pb}$   $^{206}\text{Pb}$  age can be considered a good approximation to the age of crystallization of each grain. Modern dating research has generally confirmed the predictions made by Wilson 1963 that the ocean floor and oldest volcanic rocks on the Atlantic oceanic islands would be found to increase in age away from the ridge Funnel and Smith, 1968; JOIDES results; Moorbath et al.

## Be a CPA

Una sa lahat, dahil yung iba paulit ulit na lang yung tanong, pangalawa, busy nga lahat naman tayo busy and maaaring hindi din namin alam ang sagot sa ilang tanong nyo. The oldest dated ocean-floor rocks from the area are of Upper Jurassic Oxfordian age and are thought to indicate that the opening of the North Atlantic began about 180 m.

## Tectonic and Radiometric Age Comparisons

There is also a significant cluster of young zircon ages in the range 2698—2709 Ma. Deposition and metamorphism of the metasediments is bracketed within a  $10 \pm 5$  Ma time span between crystallization of the youngest detrital zircon grain and a late-tectonic intrusion, the Blalock

pluton, which cuts the sediments and has a zircon age of  $2688 \pm 4$  Ma.

### **Stable isotopic constraints on the tectonic, topographic, and climatic evolution of the northern margin of the Tibetan Plateau**

Surprisingly, only a few ages correspond to the time of most intense arc-type felsic volcanism 2710—2745 Ma in the main greenstone belt of the western Wabigoon Subprovince. This study presents oxygen and carbon isotopic records from lacustrine, paleosol, alluvial, and fluvial carbonate sampled in thirteen Cenozoic sedimentary sections that span the northern margin of the Tibetan Plateau.

### **The age and provenance of metasedimentary rocks in the Quetico Subprovince, Ontario, from single zircon analyses: implications for Archean sedimentation and tectonics in the Superior Province**

Zircons in the Quetico metasediments show a range of ages from  $2698 \pm 3$  Ma to  $3009 \pm 4$  Ma.

### **Tectonic and Radiometric Age Comparisons**

Sedimentary deposition occurred at a time of extensive deformation in the adjacent Wabigoon Subprovince.

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