

U-Pb dating of zircons and geochemical distinctions of 23-24 Ma the Turee Creek Group, Western Australia

Maiko Komure[1]; Minoru Ikehara[2]; Shoichi Kiyokawa[3]

[1] Earth and Planetary Sci., Kyushu Univ; [2] Center Adv. Marine Core Res., Kochi Univ.; [3] Earth & Planetary Sci., Kyushu Univ.

The object of this study is Diamictite from the 23 billion-year-old(Ga) Turee Creek Group, Mount Bruce supergroup, Pilbara Craton Western Australia. The purpose of this study is the resolution of the resource of sedimentary rocks and analysis of the activity of organisms.

I analyzed the detrital zircons by U-Pb dating and the TOC and carbon isotope for the shales.

The conclusion is that the origin of the detrital zircon might be from the Fortescue group to the Hamersley group, and that the activity of organisms might be active around the part of the diamictite.