

SMP055-P22

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Andalusite replacing alkali-feldspar in pelitic migmatites from the Kerala Khondalite Belt, Southern India.

Mutsumi Kato^{1*}, Hyoue Mitsui¹, Kyuichi Kanagawa¹, Yoshikuni Hiroi¹, Satish - Kumar M.², Daniel - Dunkley³

¹Chiba University, ²Shizuoka University, ³National Institute of Polar Research

We report the occurrence of unusual lamellar albite within and alusite and quartz in pelitic migmatite from the Kerala Khondalite Belt (KKB), Southern India. Lamellar albite within and alusite and quartz seems to be continuous with albite-lamellae in surrounding alkali-feld spar, suggesting that the and alusite and quartz replaced alkali-feld spar remaining albite-lamellae intact. In addition, the and alusite and quartz are often associated with calcite, indicative of high XCO2 - fluid compositions (XCO2= CO2/ (H2O+CO2)). The origin of the association and alusite + quartz + albite + calcite and its significance on the metamorphic history of the KKB granulites will be discussed.

Keywords: andalusite, albite, alkali-feldspar, lamellae, Kerala Khondalite Belt