

Petrographic and chronological study of granitic rocks in the Lutzow-Holm Complex, East Antarctica

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The Lutzow-Holm Complex is a Cambrian metamorphic belt, which extends from the Prince Olav Coast to the Lutzow-Holm bay in the East Antarctica.

In this study, petrographic and chronological features of granitic rocks from twelve regions of the Lutzow-Holm Complex are demonstrated by microscopic observation, modal analysis, X-ray fluorescence method, and isotopic analysis.

It appears from the above observations that petrographical features of granitic rocks showing local variation has resulted from the variation in the whole rock chemical composition of the source material.