

Origin of plagioclase lherzolite from the Nikanbetsu peridotite complex, Hidaka belt, Hokkaido, Japan.

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The Nikanbetsu complex is composed of mainly plagioclase lherzolite. The plagioclase lherzolite contains three types of plagioclase, clinopyroxene-bearing seam-type, isolated type and vein type. The occurrence of each type is systematically related to the lithostratigraphy of the complex from southwestern to northeastern margin, and in mostly due to the continuous spatial change in temperature. Plagioclase lherzolite from the southwest of the complex contains plagioclase-rich seam and interstitial isolated plagioclase in the pyroxene-rich part. Toward northeast of the complex, occurrence of interstitial isolated plagioclase is more common and all plagioclase grains are interstitial to pyroxene and olivine. All these plagioclase were crystallized from partial melt in almost dry condition.