

## Constraints from plagioclase zoning observed in the partially molten mantle: the Nikanbetsu peridotite complex, Hokkaido, Japan.

# Natsuko Takahashi[1]

[1] Dep. Earth Sci., Chiba Univ.

The Nikanbetsu complex, Hokkaido, Japan, recorded a continuous temperature gradient from the uppermost of the Horoman complex and it might represent a much hotter portion of the Horoman diapir. Several types of plagioclase zoning can be observed in the Nikanbetsu lherzolite. These kind of the zoning patterns have never been observed in the any other peridotite complexes. Occurrence of plagioclase showing oscillatory requires that incipient partial melting, melt migration, decompression and crystallization took place at the same time.