

インド領アングマン・オフィオライトのメルト成分に富むかんらん岩の成因 Origin of fertile peridotite body in the middle Andaman ophiolite, India: A Paleo-Indian Ocean?

森下 知晃^{1*}, ごっしゅ びすわじっと², 芳川 雅子³, 田村 明弘¹, 荒井 章司¹

MORISHITA, Tomoaki^{1*}, Biswajit Ghosh², YOSHIKAWA, Masako³, TAMURA, Akihiro¹, ARAI, Shoji¹

¹ 金沢大学, ² カルカッタ大学, ³ 京都大学

¹Kanazawa Univ., ²Univ. Calcutta, ³Kyoto Univ.

We examined petrology and mineralogy of peridotite bodies exposed in the middle Andaman Island, India. The peridotite bodies mainly consist of lherzolite with small amount of dunite bands/pods and clinopyroxenite/gabbroic veins. Major and trace element compositions of minerals in the samples suggest that lherzolites are of simple residue after low-degree of partial melting and are similar to those recovered along the present (Central) Indian Ridges.

The middle Andaman peridotites are thus interpreted to be an example of Paleo (probably Cretaceous age) upper mantle materials beneath the Indian Ocean, now tectonically exposed as a member of the dismembered ophiolite in the Andaman Island. We will also report results of Sr-Nd isotopic compositions of clinopyroxene in the samples.

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