

## Origin of lithosphere of the Izu-Ogasawara arc: Examinations on serpentinites from Ohmachi seamount

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Serpentinites derived from the upper mantle peridotites have been obtained from the basal slope of Ohmachi seamount, Izu-Ogasawara arc (Dives #341, #571, and #575 of SHINKAI6500), which represent rocks of the deep-seated lithosphere of the arc. Primary constituent minerals in the serpentinites have a compositional range similar to those from the subcontinental lithosphere at the beginning stage of continental break-up, such as Antarctic Seamount B and Zabargad. The serpentinites might have been originated from a slightly depleted upper mantle beneath continental margin.

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