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Chemical and isotope compositions of amphibolites in the Oki belt

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Chemical and Sr isotope compositins of amphibolites in the Oki-Dogo Islands,western Japan, were determined. The amphibolites fall in the category of (alkaline to) tholeitic igneous rocks. Incompatible trace element contents of the amphibolites show two different groups, suggesting oceanic island arc basalt (group A) and within-plate basalt (group B). Sr initial ratios of amphibolites are considerably high (0.724-0.733), if the protolith age of the amphibolites is estimated to be 300 Ma. These haracteristics of the amphibolites are quite distinct from those in the Hida belt.