

Petrologic study on the Paleozoic ophiolites and high-P metamorphic rocks in Japan (especially in the Joetsu belt)

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2004 Fiscal Year Final Research Report Summary

Petrologic study on the Paleozoic ophiolites and high-P metamorphic rocks in Japan (especially in the Joetsu belt)

Research Project

Project/Area Number

14540447

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Petrology/Mineralogy/Science of ore deposit

Research Institution

Kanazawa University

Principal Investigator

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Project Period (FY)

2002 - 2004

Keywords

Joetsu metamorphic belt / Mino-Tamba belt / Picrite and meimechite / Ultramafic volcanic rocks / Jurassic superplume / Alaskan-type plutons / Yakuno ophiolite / East Asian accretionary complexes

Research Abstract

Ishiwatari & Tsujimori (2003) synthesized the time-space distribution of ophiolites and high-P metamorphic rocks in Japan and Russian Primorye, and concluded geological continuity between the two areas before the Miocene opening of the Sea of Japan. They further postulated a hypothesis that the Japanese Late Paleozoic ophiolites and high-P metamorphic belts extend to the west to the Chinese Sulu-Dabie collision zone via Yaeyama (western Ryukyu Islands), detouring Korea. Ishiwatari, Sokolov & Vysotskiy (2003) found that ophiolites in Japan and Russian Far East are characterized by common occurrence of highly depleted harzburgite and opx-type cumulate, and postulated that the Mariana-type ophiolite (and blueschist) formation and the Nankai-type accretion of sediments repeated one after another through the Phanerozoic time, resulting in the multiple ophiolite belts. Ichiyama & Ishiwatari (2004) studied the Yakuno ophiolite in the Yakuno Town area, and concluded that this ophiolite formed

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Research Products (16 results)

		All	2005	2004	2003	2002
		All	Journal Article	Book		
[Journal Article]	HFSE-rich picritic rocks from the Mino accretionary complex, southwestern Japan.					2005 ▼
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[Journal Article]	Petrochemical evidence for off-ridge magmatism in a back-arc setting from the Yakuno ophiolite, Janan					2004 ▼
[Journal Article]	Alaskan-type plutons and ultramafic lavas of Far East Russia, Northeast China and Japan.					2004 ▼
[Journal Article]	Petrochemical evidence for off-ridge magmatism in a back-arc setting from the Yakuno ophiolite, Japan.					2004 ▼
[Journal Article]	Alaskan-type plutons and ultramafic lavas of Far East Russia, Northeast China and Japan.					2004 ▼
[Journal Article]	Pressure-temperature path recorded in the Yangkou garnet peridotite, in Sn-Lu ultrahigh-pressure metamorphic belt, eastern China.					2004 ▼
[Journal Article]	Paleozoic ophiolites and blueschists in Japan and Russian Primorye in the tectonic framework of East Asia : A synthesis					2003 ▼
[Journal Article]	Petrological diversity and origin of ophiolites in Japan and Far East Russia with emphasis on depleted harzburgite					2003 ▼
[Journal Article]	飛騨ナツプは存在するか-中部日本の地質学の大問題-					2003 ▼
[Journal Article]	Paleozoic ophiolites and blueschists in Japan and Russian Primorye in the tectonic framework of East Asia : a synthesis					2003 ▼
[Journal Article]	Petrologic diversity and origin of ophiolites in Japan and Far East Russia with emphasis on depleted harzburgite.					2003 ▼
[Journal Article]	The osmium isotopic composition of convecting upper mantle deduced from ophiolite chromites.					2002 ▼
[Journal Article]	Granulite factes relics in the Early Paleozoic kyanite-bearing ultrabasic metacumulate in the Oeyama belt, the Inner Zone of southwestern Japan.					2002 ▼
[Journal Article]	Petrogenesis of the tholeiitic basalt, calc-alkaline basaltic andesite and high magnesian andesite lava succession of the Oligo-Miocene Anamizu Formation in northeastern Note Peninsula, central Japan.					2002 ▼
[Book]	夜久野町史 夜久野岩類					2005 ▼

URL: https://kaken.nii.ac.jp/report/KAKENHI-PROJECT-14540447/145404472004kenkyu_seika_hokoku_