

Contemporaneity among the Setouchi Volcanic Rocks and the Outer Zone Granitic Rocks, SW Japan

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According to the series of works by the authors and their co-workers (Shinjoe, 1997; Shinjoe et al., 2000; Shinjoe & Sumii, 2001; in press; Shinjoe et al., 2002; Sumii et al., 1998; Sumii, 2000; Sumii & Shinjoe, submitted), the activities of the Setouchi Volcanic Rocks and the Outer Zone granitic Rocks in SW Japan are summarized as below.

1. The duration of the Setouchi Volcanic Rocks activity was 16 Ma to 12 Ma, except the Shitara area whose chronological data contains some uncertainty. The duration of the most active volcanism was limited in 15 to 13 Ma.

2. There is no distinct, simple separation in ages between the felsic volcanic rocks and the intermediate/mafic rocks in the Setouchi Volcanic Rocks. This chronological relation is rather harmonized with the stratigraphic studies in each cluster area.

3. The duration of the Outer Zone Granitic Rocks activity was 15.5 - 13 Ma.

4. Therefore the activity of the Outer Zone Granitic Rocks was contemporaneous with that of the most active volcanism in the Setouchi region.

This summary revises the previous general understanding on the time relationship among these igneous activities.