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Intrusion of the Yakushima pluton and tectonics of the Outer Zone of SW Japan

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Some of the Miocene granites in the Outer Zone of Southwest Japan are distributed in front of the Miocene volcanic front and source of heat that generate granite magma is not wholly understood. We report here the internal and external structures, mechanism of intrusion, source rocks and duration of magmatic processes of the Yakushima pluton, one of the closest-to-trench pluton, and its relation to the regional tectonics.