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Eruption history of Miyakejima Volcano, in the 9-20th century

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To make an effective forecasting of the volcanic activity in Miyakejima Volcano, it must be understand history of the post Hachodaira Caldera eruptions and the pre A.D. 2000 Caldera. Based on the caldera wall observation, tephrochronology, and radiocarbon dating, we clarify the eruption history of Miyakejima Volcano in the 9-20th century. After the 9th century the eruption number of pre-A.D.2000 Caldera is 17 times. These eruptions are flank fissure eruption in most cases. The frequency of eruption is 1-2 times in 100 years. Just before the formation of the A.D. 2000 Caldera, the 19-20th century, the frequency of eruption was slightly larger (3 times in 100years). But it is not a significant difference.

Keywords: historical eruption, radiocarbon dating, volcanic stratigraphy, tephrochronology, basaltic volcano, Miyakejima Volcano