



Photo 1. Volcanic lightening induced by a vulcanian eruption at the Showa crater on December 16, 2009, Photograph taken by Takehito Miyatake, a photographer in Tokushima Prefecture.



Photo 2. A plinian eruption on January 12, 1914. The photograph was taken 30 minutes after the beginning of eruption from Kagoshima city. Courtesy Kagoshima Prefecture Museum.





Photo 3. A typical vulcanian eruption at the Minamidake crater on June 5, 1983. The photograph was taken from Kurokami at the east flank by Sadami Nakamura.



Photo 4. Night view of the vulcanian eruption at the Minamidake crater on May 18, 1991 (Sakurajima Volcanological Observatory).



Photo 5. Pyroclastic flow from the Minamidake crater on April 9, 1984 taken by Masato Iguchi. The pyroclastic flow reached 2 km distance on the western flank.





Photo 6. Lava dome at the center of Minamidake (A-crater) on May 8, 1981. B-crater is seen at the right (Sakurajima Volcanological Observatory).

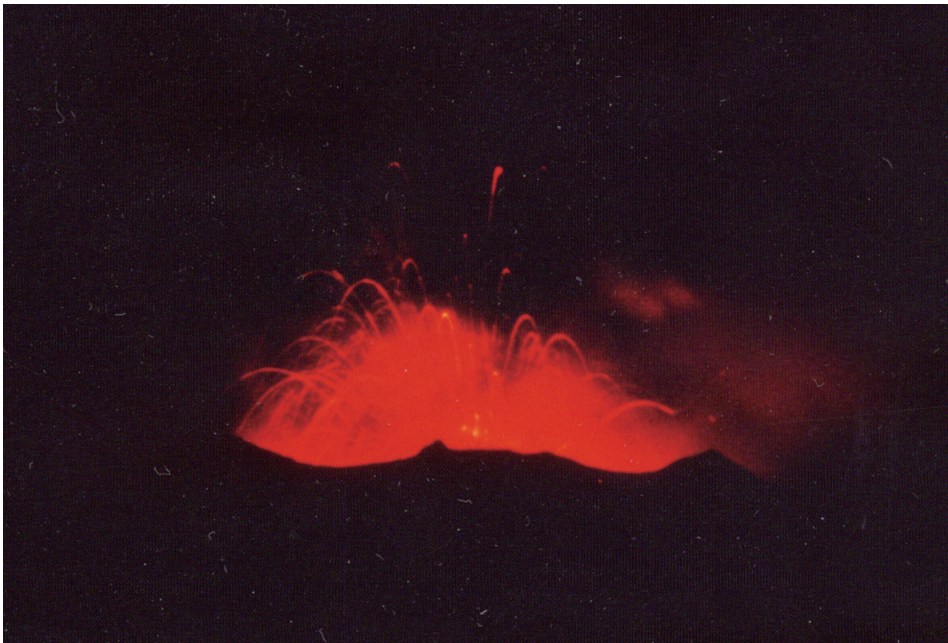


Photo 7. Strombolian eruption at the Minamidake crater associated with BL-type earthquake swarm. After the strombolian eruptions, a lava dome was found as shown in Photo 6. The photograph was taken on January 14, 1988 by Kazuhiro Ishihara.



Photo 8. A typical vulcanian eruption at the Showa crater on March 9, 2010. Photograph taken by Tadaomi Sonoda from Kurokami.



Photo 9. A vulcanian eruption at the Minamidake crater on October 3, 2009. Explosions at the Minamidake crater sometimes occurred during the eruptivity at the Showa crater and are much bigger than those at the Showa crater. Photograph taken by Nobuo Ichikawa from Sakurajima Volcanological Observatory at the western flank.





Photo 10. Pyroclastic flow and ejection of volcanic bomb from the Showa crater on January 16, 2010. Photograph taken by Tetsuro Takayama.



Photo 11. Pyroclastic flow from the Showa crater on April 9, 2009. Photograph taken by Akihiko Yokoo from Arimura at the southern flank.

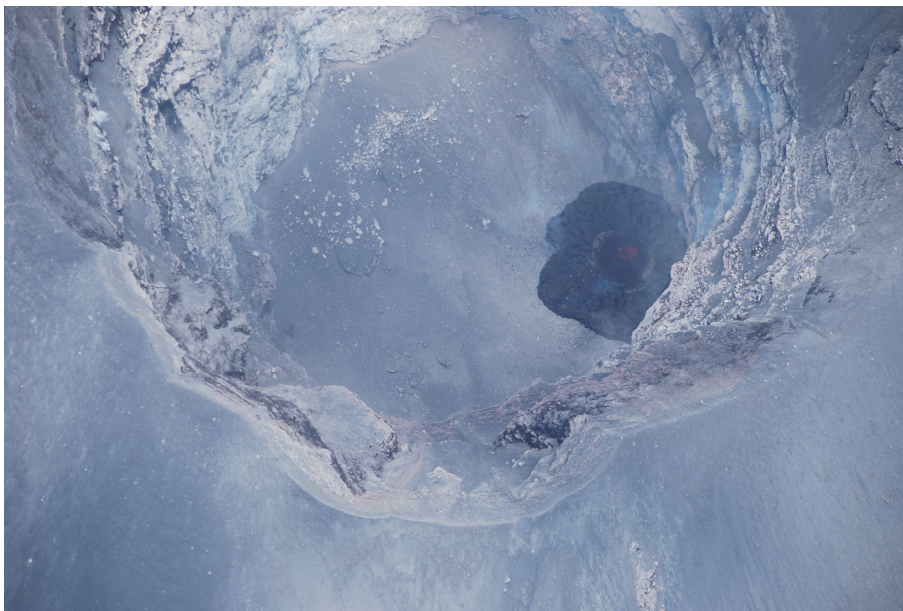


Photo 12. A minor lava dome in the Showa crater. Photograph was taken by Kagoshima Local Meteorological Observatory, Japan Meteorological Agency on May 31, 2011.



Photo 13. Two craters at the summit area of Minamidake in 2011. Left : Showa crater. Right : Minamidake crater. The Minamidake crater is much deeper than the Photo 6. Photograph taken by Masato Iguchi.