

Calderas in Japan

Caldera Name	Main Post-Caldera Volcano Name	Most Recent Caldera Eruption Period	Type of Ejecta (Symbol)	Document	ref No.	About Period
Mashu	Kamuinupuri, Kamuisshuto	7.6 ka*	Mashu f (Ma-f)	1, 5	1	Yamamoto, T., et al. (2010) ¹⁴ C ages for the ejecta from Kutcharo and Mashu calderas, eastern Hokkaido, Japan. Bull. Geol. Surv. Japan, 61 , 161–170.
Kutcharo	Atosanupuri, Nakajima	40 ka*	Kutcharo 1 (Kp I)	1, 2	1	Yamamoto, T., et al. (2010) ¹⁴ C ages for the ejecta from Kutcharo and Mashu calderas, eastern Hokkaido, Japan. Bull. Geol. Surv. Japan, 61 , 161–170.
Akan	Meakandake, Oakandake	120↔210 ka	Akan 1 (Ak1)	2	2	Hasegawa, T., et al. (2010) The history of caldera-forming eruptions in eastern Hokkaido, Japan. CHIKYU MONTHLY, 33 , 726–734.
Shikotsu	Eniwadake, Tarumaesan	40↔45 ka*	Shikotsu No. 1 (Spf1, Spfa-1)	3, 6	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 336p.
Kuttara	Hiyoriyama	>43 ka	Kuttara No. 1 (Kt-1)	3, 7	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 336p.
Toya	Usuzan, Nakajima	112↔115 ka	Toya (Toya)	3, 8	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 337p.
Towada	Ogurayama, Gomonseki, Goshikiwa	15 ka*	Towada Hachinohe (To-H)	3, 9	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 338p.
Hakone	Kamiyama, Komagatake, Futagoyama	60↔65 ka	Hakone Tokyo (Hk-T)	3, 10	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 339p.
Aso	Naka-dake, Takadake	85↔90 ka	Aso 4 (Aso-4)	3, 11	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 340p.
Aira	Sakurajima, Wakamiko	29 ka*	Aira Tn (AT)	4, 12	4	Okuno, M (2002) Chronology of Tephra Layers in Southern Kyushu, SW Japan, for the Last 30,000 Years. The Quaternary Research, 41 , 225–236.
Ata	Kaimondake, Ikeda, Yamagawa	105↔110 ka	Ata (Ata)	3, 13	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 340p.
Kikai	Iodake, Inamuradake, Showa Iojima	7.3 ka*	Kikai-Akahoya (K-Ah)	3, 14	3	Hiroshi Machida and Fusao Arai (2003) Atlas of tephra in and around Japan. Univ. of Tokyo Press, 340p.

"ka" within the table indicates "1000 years ago", but radiocarbon dating which has been age calibrated is indicated by "ka*".

A↔B: Eruption events taking place at some point between year A and year B

>A: Eruption event before year A.

ref No. 番号	About Formation
5	Kishimoto, T., et al. (2009) Tephrostratigraphy and Eruption Style of Mashu Volcano, During the Last 14,000 years, Eastern Hokkaido, Japan. Bull. Volcanol. Soc. Japan, 54 , 15–37.
2	Hasegawa, T., et al. (2010) The history of caldera-forming eruptions in eastern Hokkaido, Japan. CHIKYU MONTHLY, 33 , 726–734.
2	Hasegawa, T., et al. (2010) The history of caldera-forming eruptions in eastern Hokkaido, Japan. CHIKYU MONTHLY, 33 , 726–734.
6	Yamagata, K (1994) Tephrochronological Study on the Shikotsu and Kuttara Volcanoes in Southwestern Hokkaido, Japan. Jour. Geol. Soc. Japan, 103 , 268–285.
7	Moriizumi, M (1998) The Growth History of the Kuttara Volcanic Group, Hokkaido, Japan. Bull. Volcanol. Soc. Japan, 43 , 95–111.
8	Machida, H., et al. (1987) Toya ash – A widespread late quaternary time-marker in northern Japan. The Quaternary Research, 26 , 129–145.
9	Hayakawa, Y. (1985) Pyroclastic geology of Towada Volcano. Bull. Earthq. Res. Inst., 60 , 507–592.
10	Nagai, M. and Takahashi, M. (2008) Geology and Eruptive History of Hakone Volcano, Central Japan. Res. Rep. Kanagawa prefect. Mus. Nat. Hist., 13 , 25–42.
11	Ono K. et al. (1977) Geology of the Takeda district. With geological sheet map at 1:50,000: Geological Survey of Japan, 187p (in Japanese with English abstract).
12	Nagaoka, S., et al. (2001) Tephrostratigraphy and eruptive history of the Aira caldera volcano during 100–30 ka, Kyushu, Japan. Japan. Jour. Geol. Soc. Japan, 107 , 432–450.
13	Nagaoka, S. (1988) Late Quaternary tephra layers from the caldera volcanoes in and around Kagoshima Bay, southern Kyushu, Japan. Geogr. Rep. Tokyo. Metropolitan Univ., 23 , 49–122.
14	Ono, K., et al. (1982) Geology of Satsuma-Io-jima district. Quadrangle Series, Scale 1:50,000, Geol. Surv. Japan, 80 pp (in Japanese with English abstract).

Location Map of Calderas

