

The background of the slide features a dramatic, abstract illustration of a volcanic eruption. It depicts a dark, jagged silhouette of a volcano against a bright, glowing orange and red lava flow. Interspersed within the lava are numerous white and blue lightning bolts, symbolizing the intense electrical activity often associated with active volcanoes.

2012/5/18

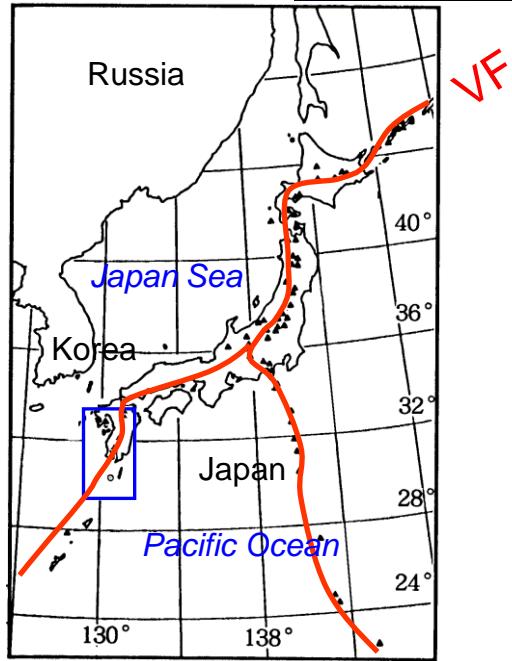
Volcanic activity of Sakurajima volcano, South Kyushu, Japan

Masato Iguchi

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Volcanoes in Kyushu

110 volcanoes in Japan



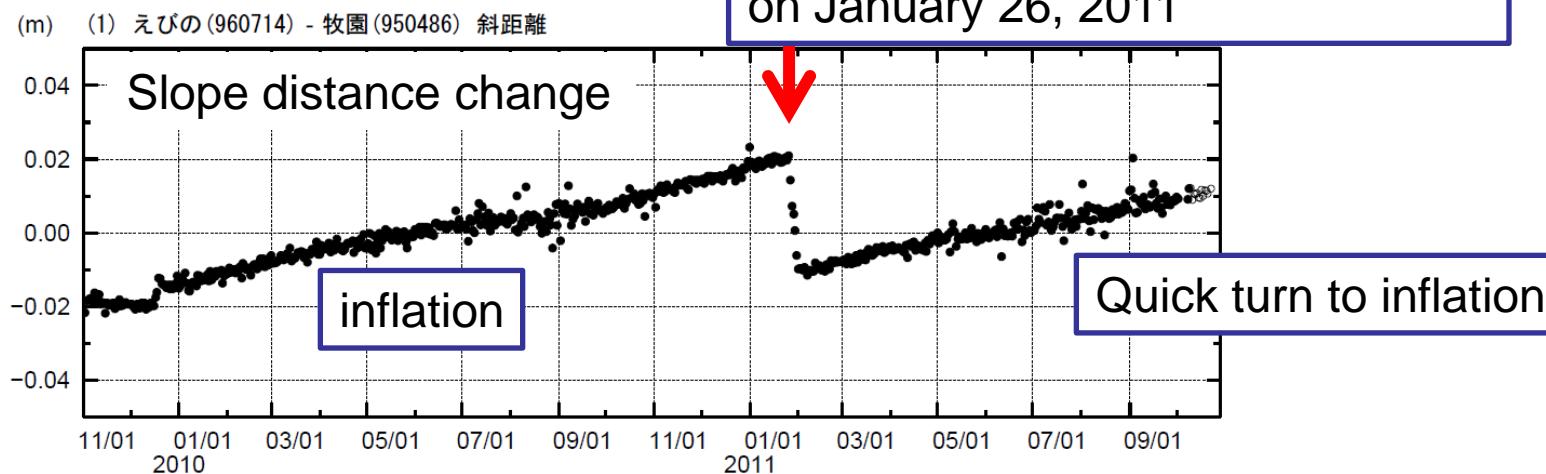
Sakurajima



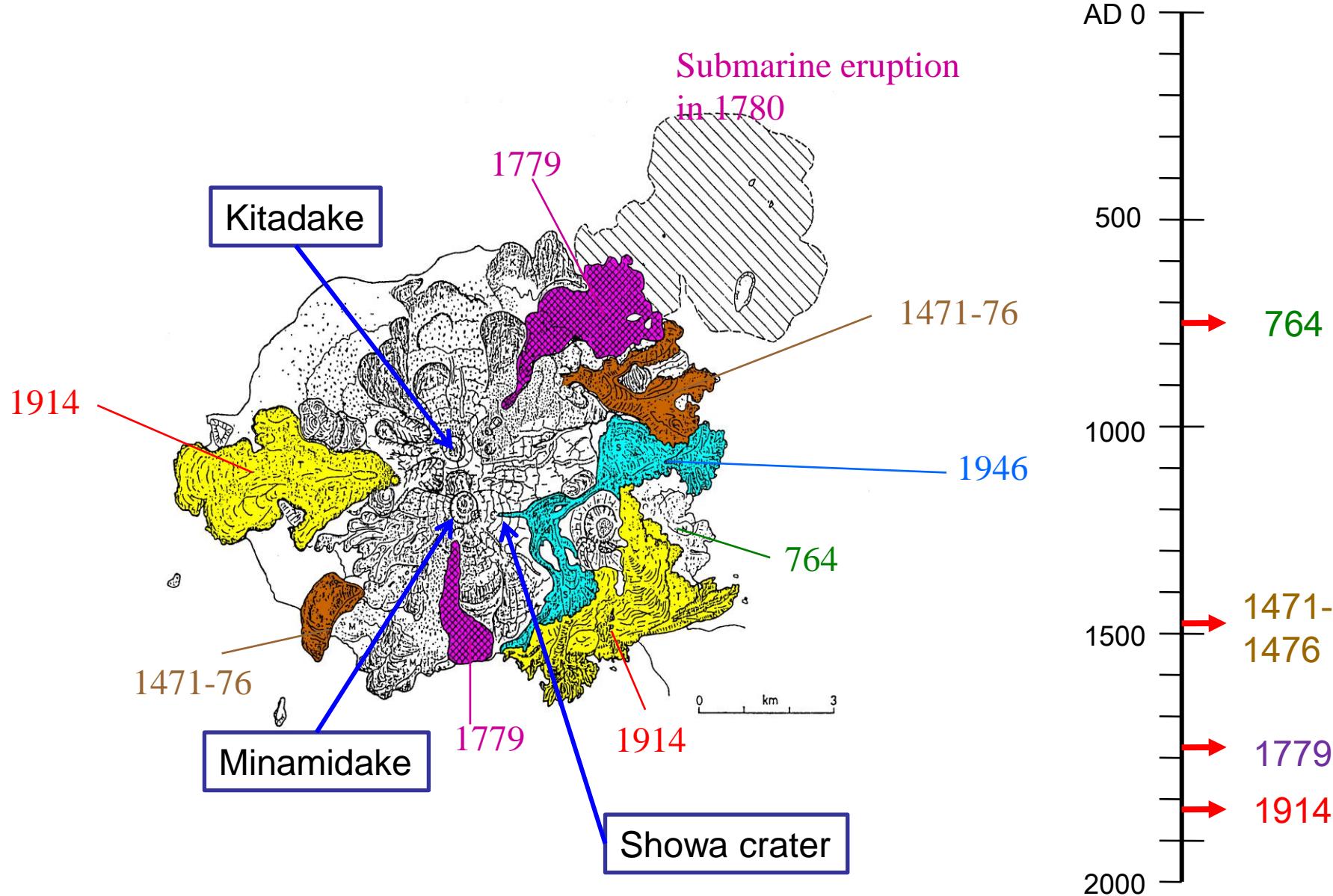
2011 Eruption at Shin-moedake of Kirishima Volcano Complex



Deflation due to sub-plinian eruption on January 26, 2011



Historical eruption of Sakurajima



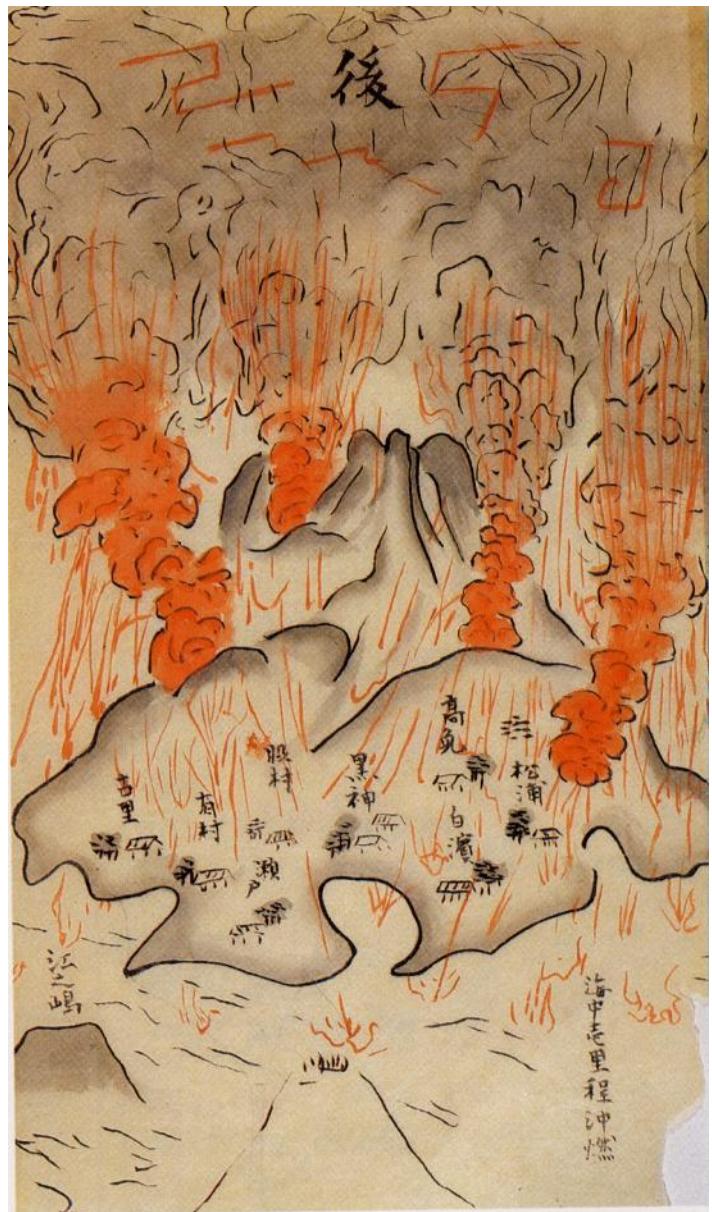
Historical eruptions

	Bunmei eruption	An'ei eruption	Taisho eruption	Showa eruption
	1471-76	1779-80	1914	1946
Vent location	NE-SW	N-S	E-W	E
Volume of lava (km ³)	0.5	1.7	1.34	0.18
Volume of tephra (km ³)	0.7	0.4	0.52	0.02
Plume height	unknown	12,000m	8,000m	2,000m
Casualties	many	163	58	1

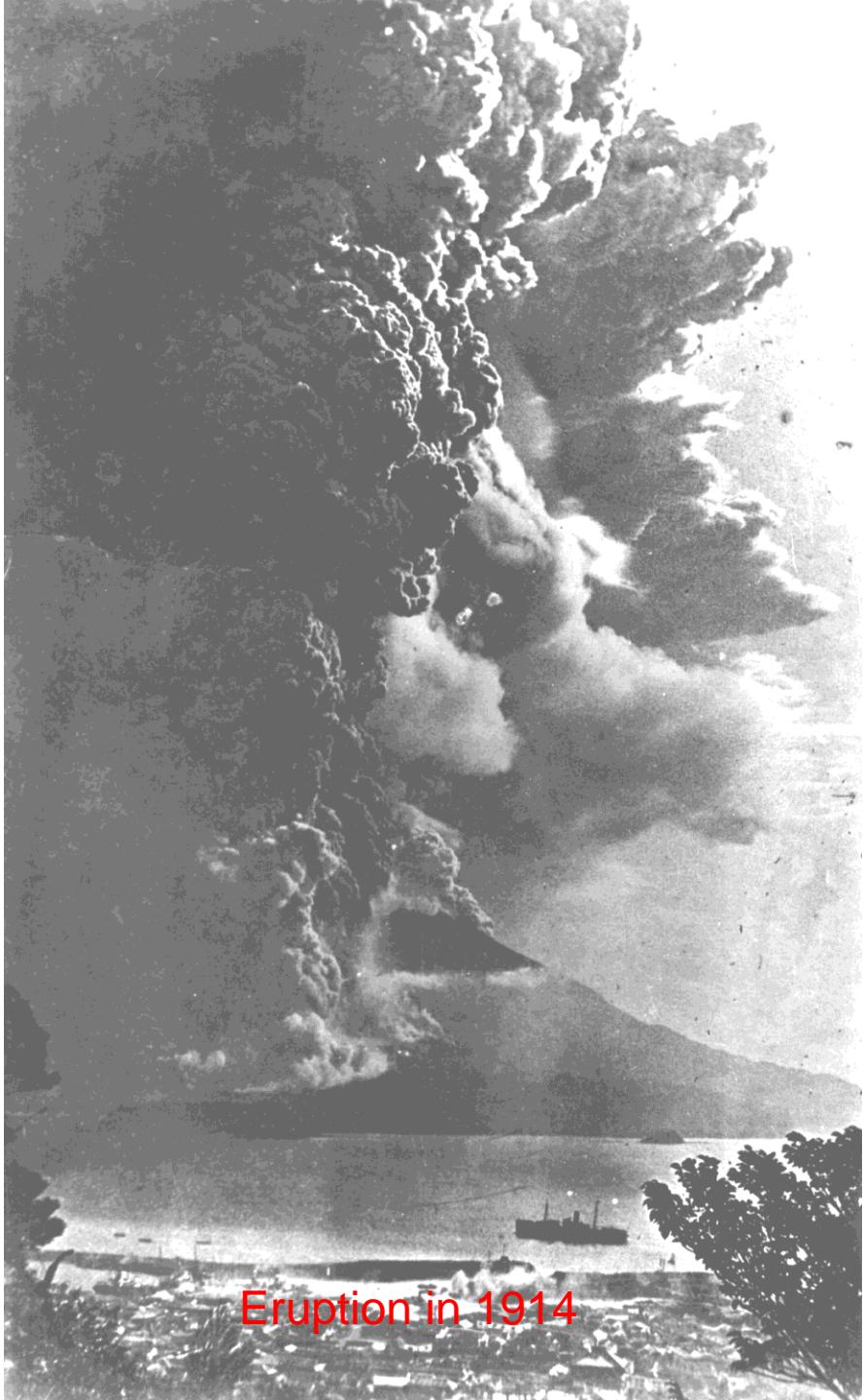


VEI 5

The image shows a horizontal color gradient bar with a central text label. The bar transitions from dark red on the left to bright yellow on the right, with a thin grey border. The text "VEI 5" is centered in white within the bar.

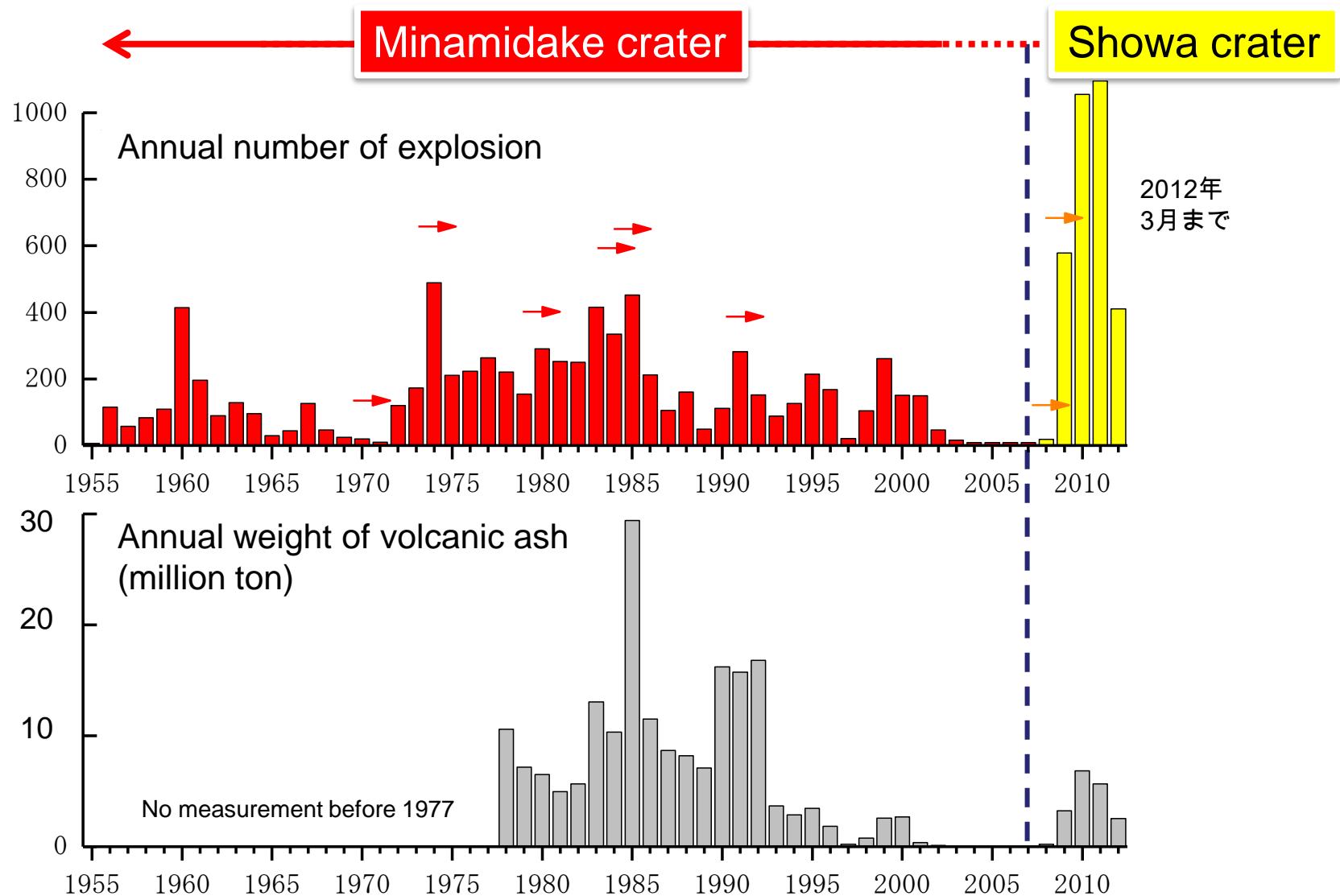


Eruption in 1779



Eruption in 1914

Eruptive activity of Sakurajima

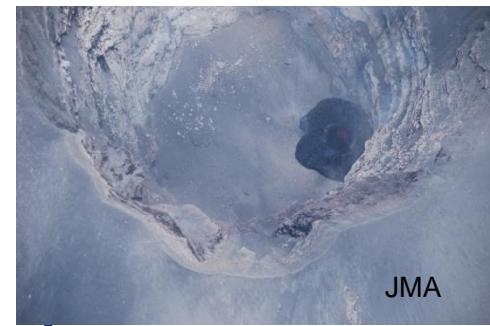


Increase in eruptive activity

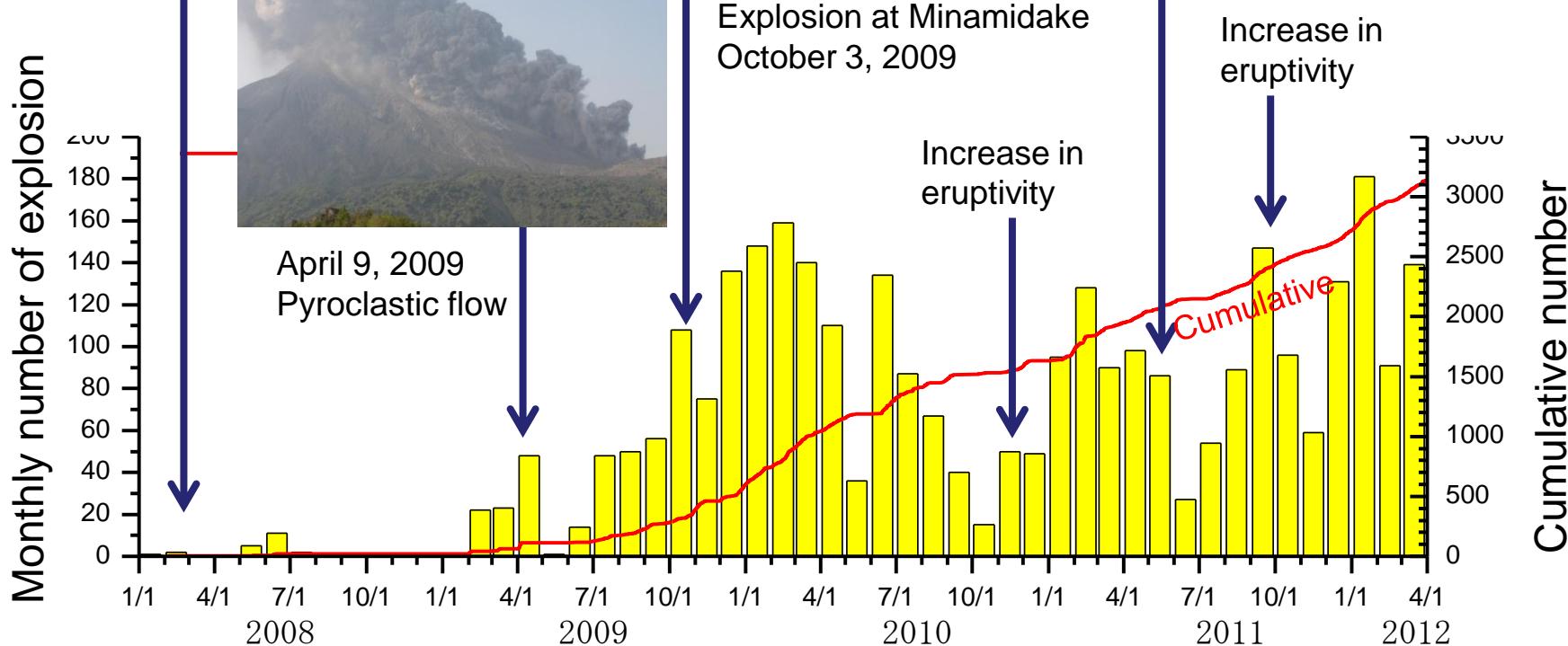
The first explosion on
February 3, 2008



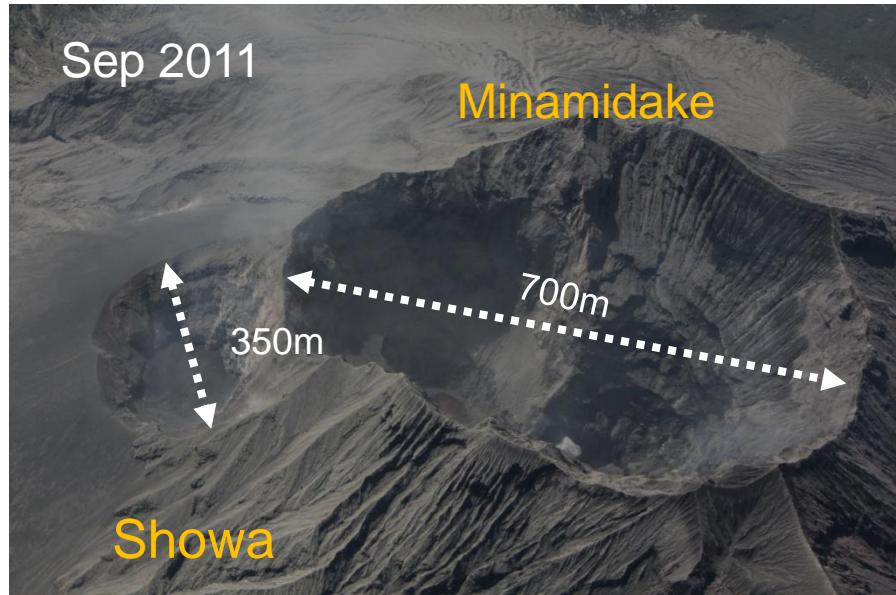
Lava dome in crater



JMA

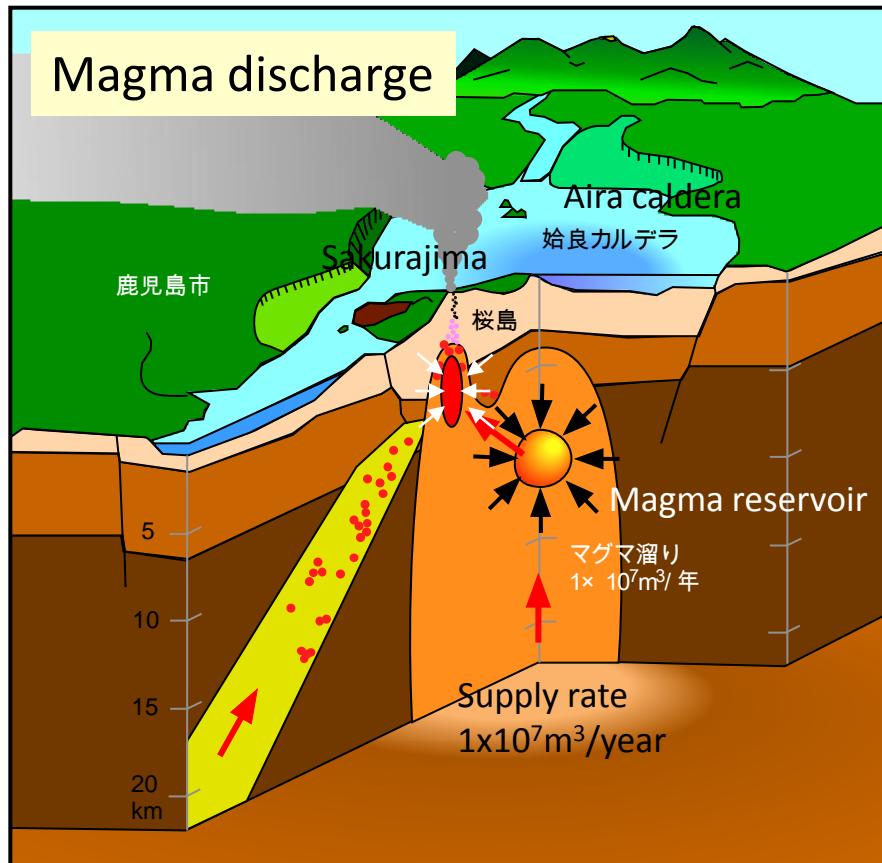


Enlargement of Showa crater

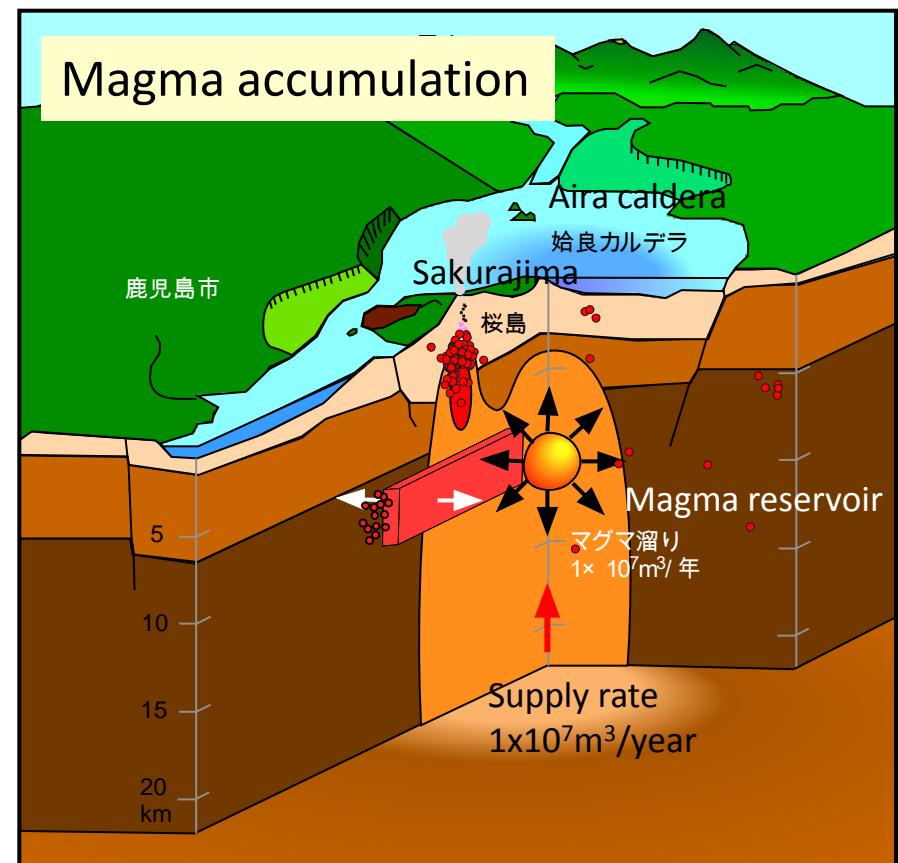


Magma supply system of Sakurajima

1974-1992 (Vulcanian eruption)

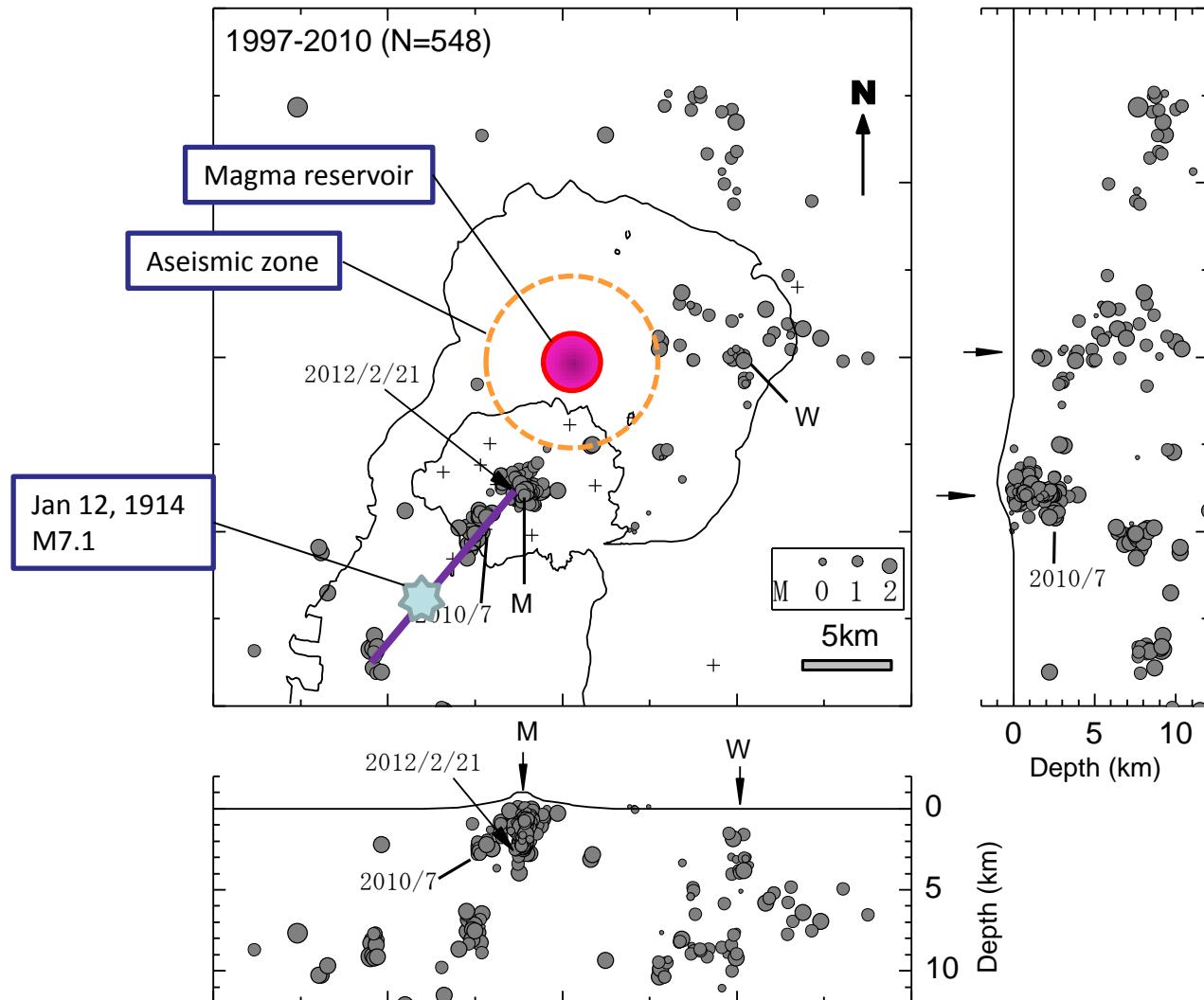


Since 1993 (Less eruptivity)



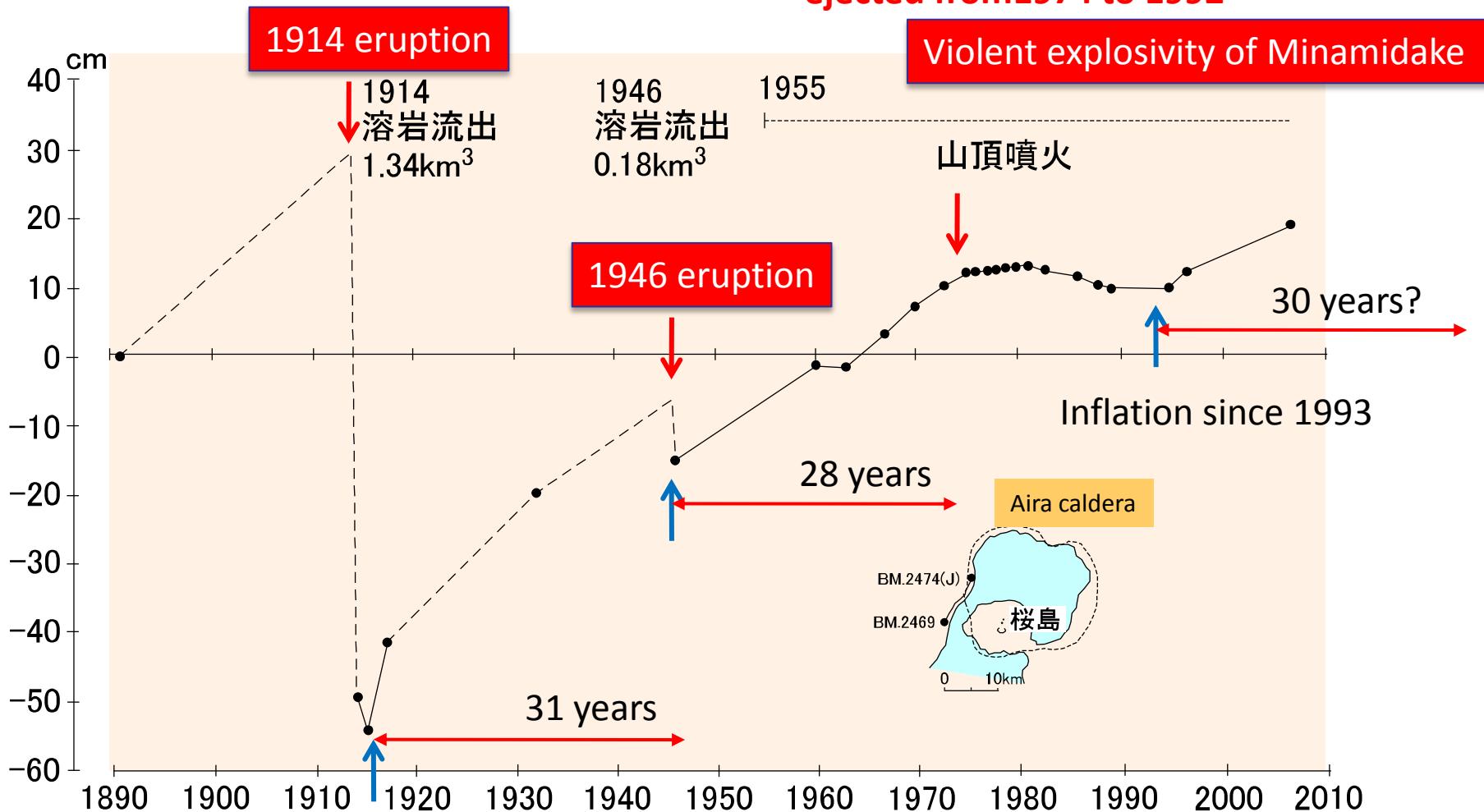
Eruptive activity at Showa crater has not decreased magma in the reservoir yet.

Location of VT earthquakes

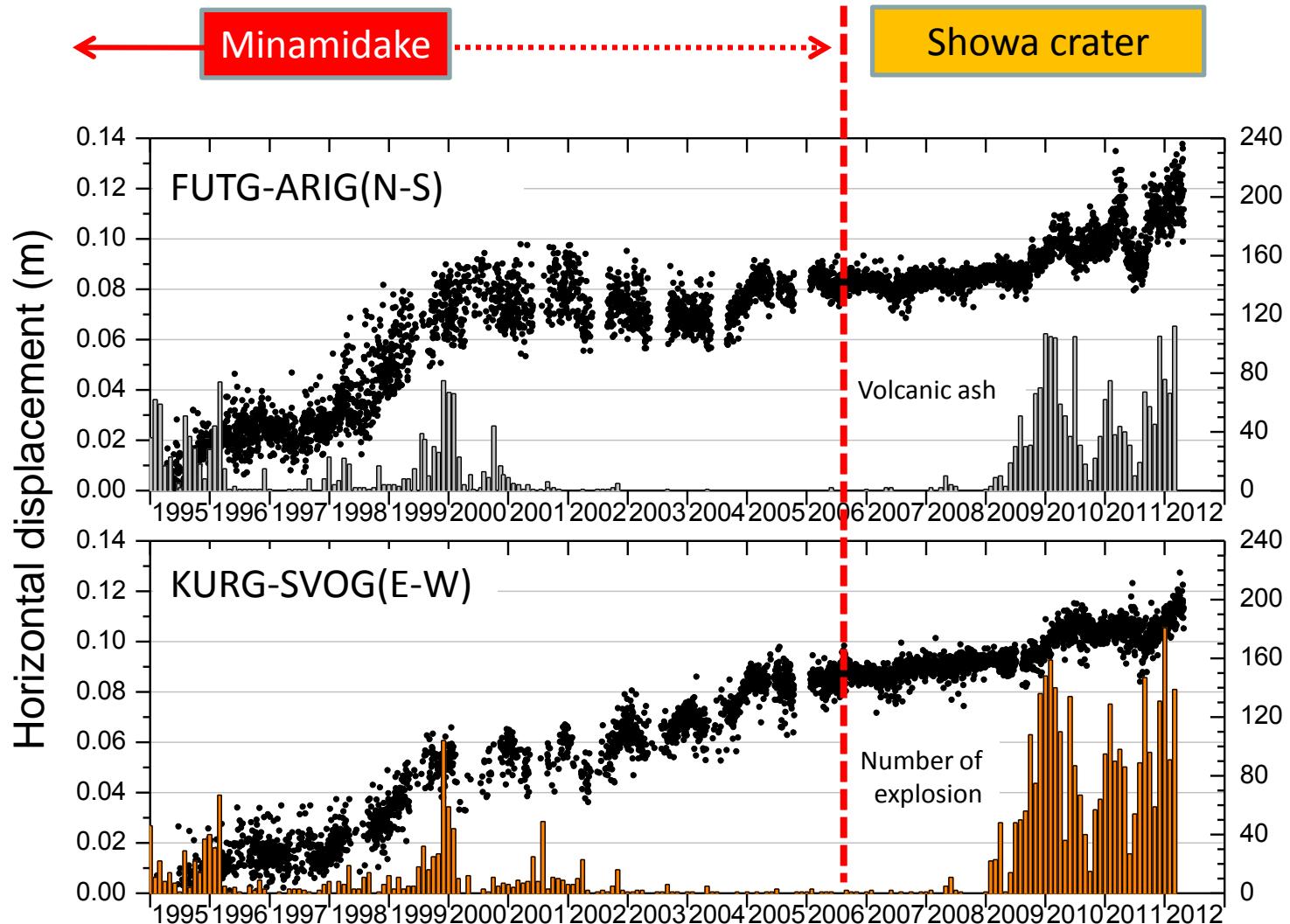
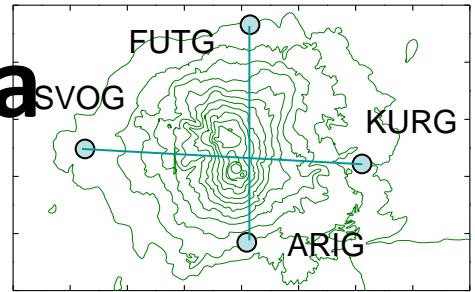


Long-term vertical displacement

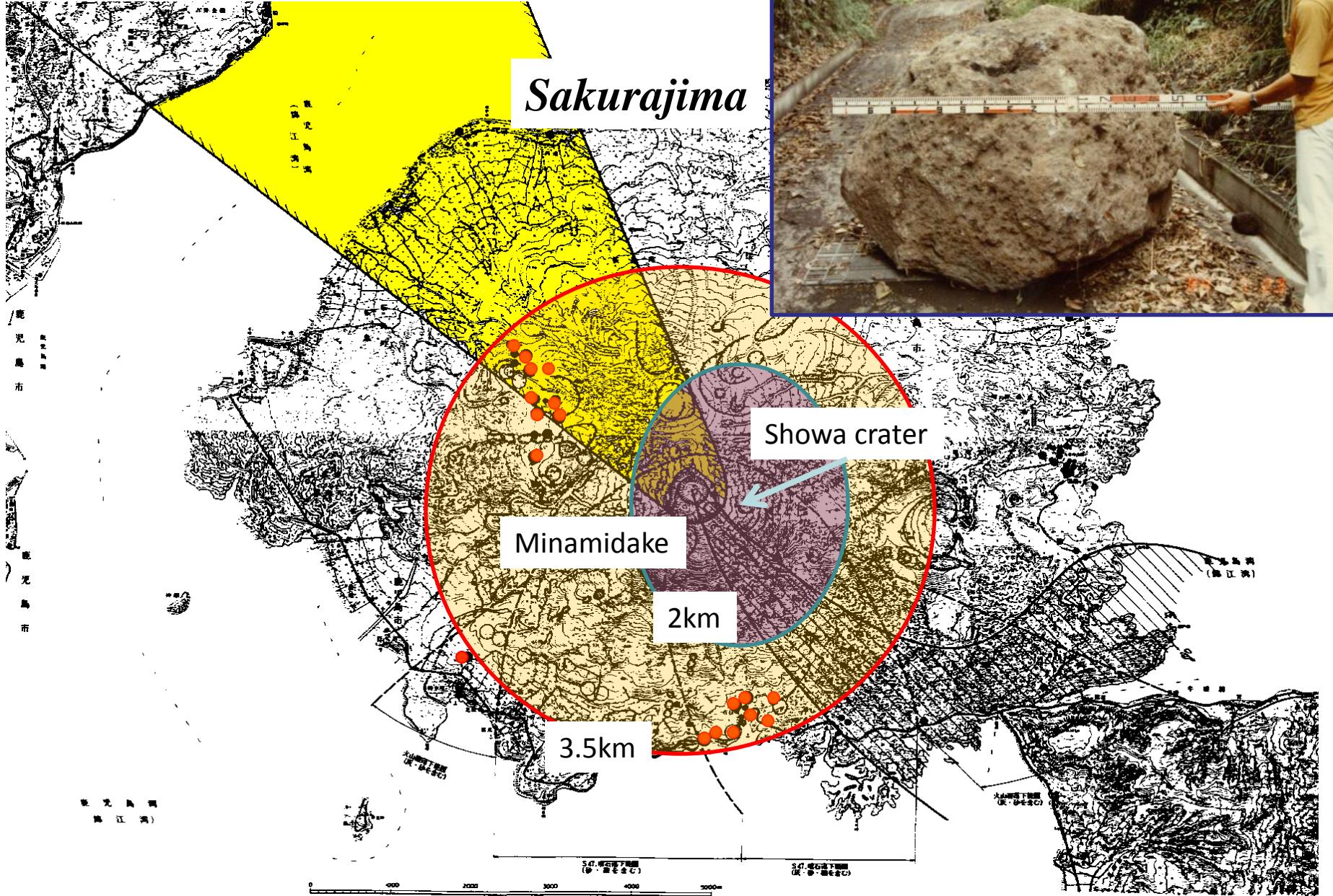
Volcanic ash (200 million tons)
ejected from 1974 to 1992



Recent inflation of Sakurajima measured by GPS



Ballistics



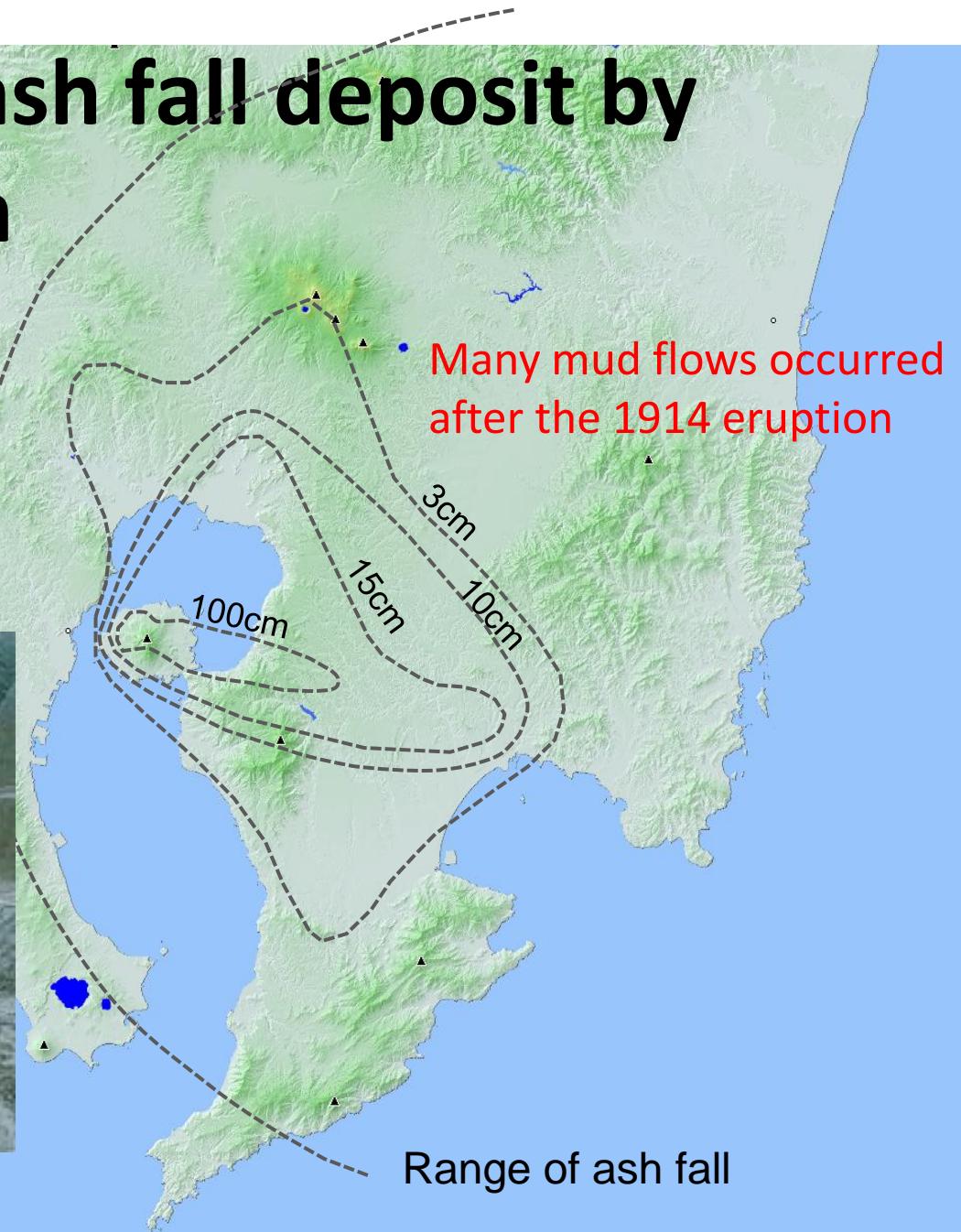
Influence of volcanic ash fall



Thickness of ash fall deposit by 1914 eruption

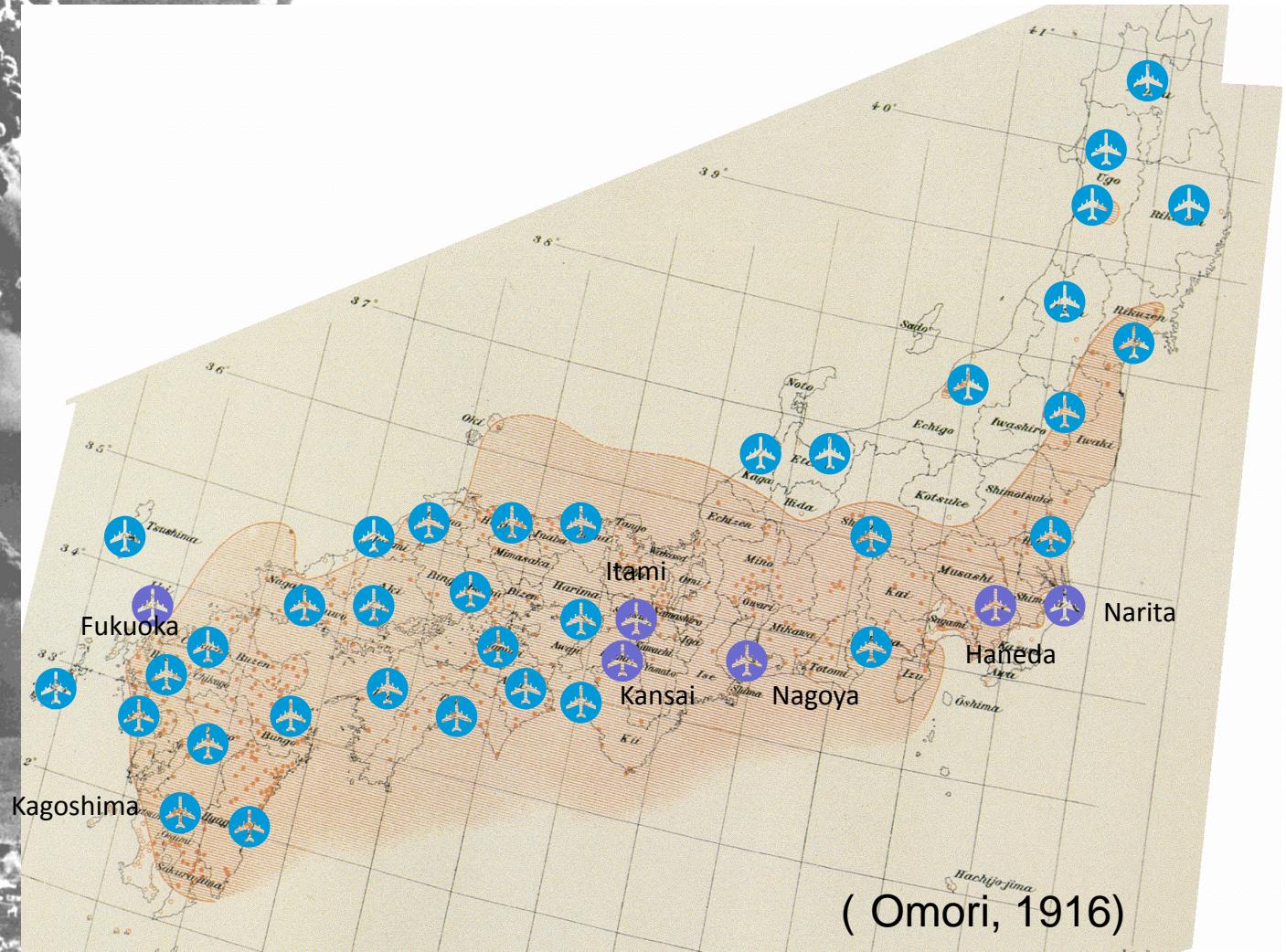


Mud flow (Minamidake eruption)



(Omori, 1916)

Dispersion of volcanic ash from Sakurajima volcano in 1914



 Airport

