

Volcanoes in Japan

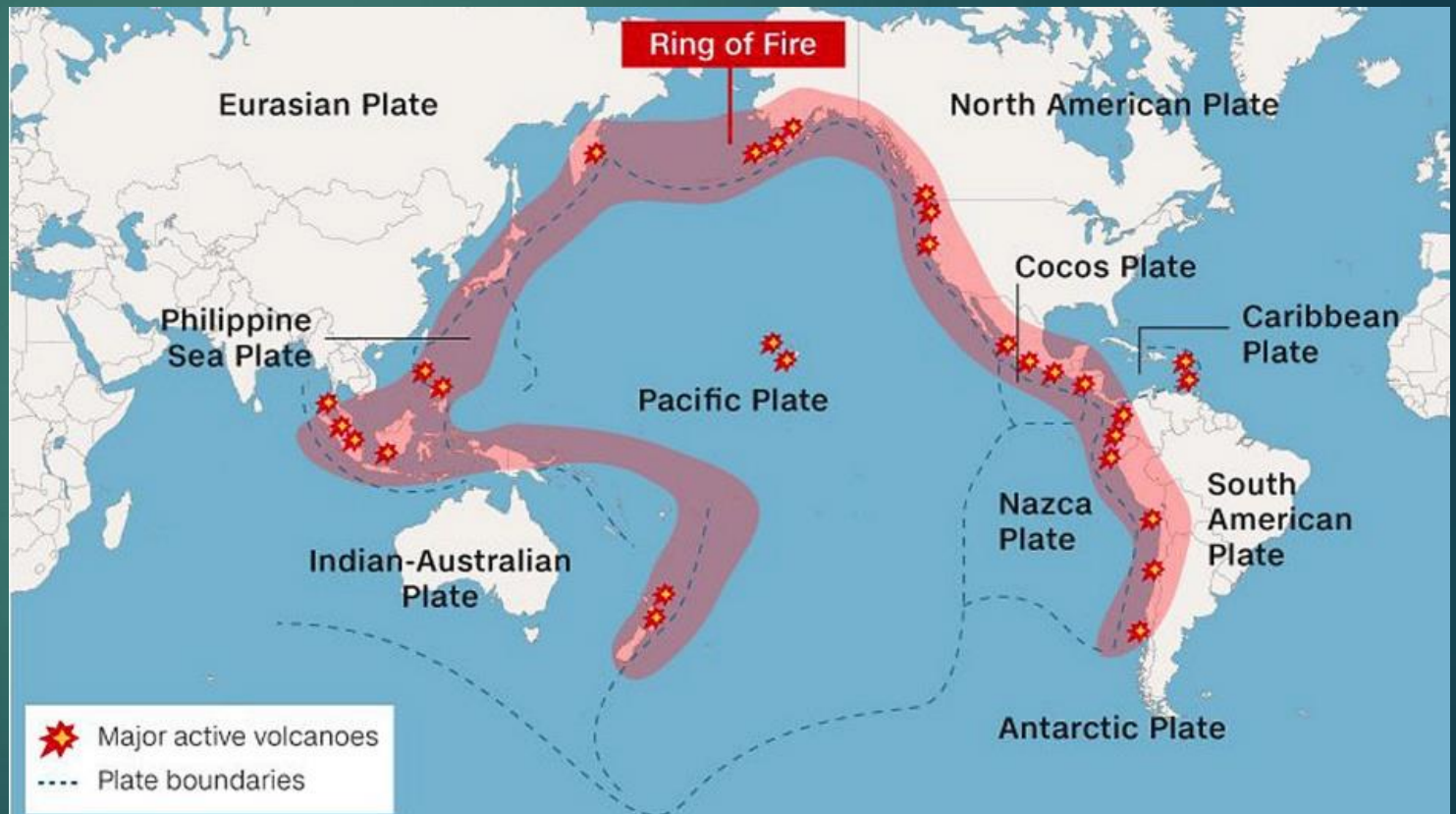
The Main Problem

- ▶ Volcanoes
- ▶ Safety



The Location

- ▶ Japan
- ▶ Ring of Fire
- ▶ Confirmed Eruption sites



Analysis

- Population Density
- Volcano Proximity
- VEI
- Deaths

VEI	Ejecta volume (bulk)	Classification	Description	Plume	Frequency	Tropospheric injection	Stratospheric injection ^[2]
Examples							
0	< 10 ⁴ m ³	Hawaiian	Effusive	< 100 m	continuous	negligible	none
		Kilauea, Piton de la Fournaise, Erebus					
1	> 10 ⁴ m ³	Hawaiian / Strombolian	Gentle	100 m – 1 km	daily	minor	none
		Nyiragongo (2002), Raoul Island (2006), Stromboli (continuous since Roman times to present)					
2	> 10 ⁶ m ³	Strombolian / Vulcanian	Explosive	1–5 km	fortnightly	moderate	none
		Unzen (1792), Cumbre Vieja (1949), Galeras (1993), Sinabung (2010)					
3	> 10 ⁷ m ³	Vulcanian / Peléan/Sub-Plinian	Catastrophic	3–15 km	3 months	substantial	possible
		Lassen Peak (1915), Nevado del Ruiz (1985), Soufrière Hills (1995), Nabro (2011)					
4	> 0.1 km ³	Peléan / Plinian/Sub-Plinian	Cataclysmic	> 10 km (Plinian or sub-Plinian)	18 months	substantial	definite
		Laki (1783), Mayon (1814), Pelée (1902), Galunggung (1982), Eyjafjallajökull (2010), Calbuco (2015)					
5	> 1 km ³	Peléan/Plinian	Paroxysmic	> 10 km (Plinian)	12 years	substantial	significant
		Vesuvius (79), Fuji (1707), Mount Tarawera (1886), Mount Agung (1963), St. Helens (1980), Mount Hudson (1991), Puyehue (2011)					
6	> 10 km ³	Plinian / Ultra-Plinian	Colossal	> 20 km	50 - 100 yrs	substantial	substantial
		Laach Lake Volcano (c. 12,900 BC), Veniaminof (c. 1750 BC), Lake Ilopango (535), Huaynaputina (1600), Krakatoa (1883), Santa Maria (1902), Novarupta (1912), Pinatubo (1991)					
7	> 100 km ³	Ultra-Plinian	Super-colossal	> 20 km	500 - 1,000 yrs	substantial	substantial
		Mazama (c. 5600 BC), Thera (c. 1620 BC), Taupo (180), Baekdu (946), Samalas (Mount Rinjani) (1257), Tambora (1815)					
8	> 1000 km ³	Ultra-Plinian	Mega-colossal	> 20 km	> 50,000 yrs ^{[3][4]}	vast	vast
		La Garita Caldera (26.3 Ma), Yellowstone (630,000 BC), Toba (74,000 BC), Taupo (25,360 BC)					

Results

- ▶ Medium VEI
- ▶ Small Population Area risks
- ▶ Asama



<https://sunny-buffalo.maps.arcgis.com/home/webmap/viewer.html?webmap=4212cb15abde4878a8139c3ad6e7654e>

Career Plans (So Far)

- ▶ Who I am
 - ▶ I like school, learning, challenges, and watching movies
 - ▶ I am good at School, taking on challenges and sitting through movies.
 - ▶ My interests were Conventional, Enterprising, and Investigative.
- ▶ Where I'm headed
 - ▶ I researched Judicial Law Clerk. They assist a judge in court or by conducting research or preparing legal documents.
- ▶ How I can get there
 - ▶ This summer I will: Focus on my school work as well as research more into the career
 - ▶ This year I will: Work during school , join clubs, and take internships.
- ▶ My family, my friends, and my school can help me on my career path.

My Career Interests

- ▶ My Current Interests
 - ▶ Pharmacology
 - ▶ Lawyer
 - ▶ Anesthesiologist
 - ▶ Clinical Research Coordinator

References

- ▶ <https://volcano.si.edu/volcano.cfm?vn=283260>
- ▶ <https://www.volcanodiscovery.com/searchresults.html?cx=partner-pub-3740653521982427%3A9wc33x-8e80&cof=FORID%3A10&ie=UTF-8&q=,tate-yama>
- ▶ ArcGIS tools.