

NCEI/WDS Global Significant Volcanic Eruptions Database, 4360 BC to Present



A lava fountain from the 1959 eruption of Kilauea Iki, Hawaii.

The Significant Volcanic Eruptions Database is a global listing of over 600 eruptions from 4360 BC to the present. A significant eruption is classified as one that meets at least one of the following criteria:

caused fatalities, caused moderate damage (approximately \$1 million or more), Volcanic Explosivity Index (VEI) of 6 or greater, generated a tsunami, or was associated with a significant earthquake. The database provides information on the latitude, longitude, elevation, type of volcano, last known eruption, VEI index, and socio-economic data such as the total number of casualties, injuries, houses destroyed, and houses damaged, and \$ dollage damage estimates. References, political geography, and additional comments are also provided for each eruption. If the eruption was associated with a tsunami or significant earthquake, it is flagged and linked to the related database. For a complete list of current and past activity for all volcanoes on the planet active during the last 10,000 years, please see Smithsonian Institution's Global Volcanism Program (GVP).

Description :

Publication Dates •	publication: 2001-03-23
Data Presentation Form	mapDigital Digital table - digital representation of facts or figures systematically displayed, especially in columns
Dataset Progress Status	Ongoing - data is continually being updated
Data Update Frequency	As needed
Purpose	These data are necessary for volcanic hazard assessments and mitigation efforts.

Documentation :

General Documentation	<ul style="list-style-type: none">• NGDC Natural Hazards Website Data, products and services for natural hazards.
Associated Resources	<ul style="list-style-type: none">• NCEI/WDS Global Historical Tsunami Database, 2100 BC to Present• NCEI/WDS Global Significant Earthquake Database, 2150 BC to Present• Global Volcano Locations Database• The volcanic explosivity index (VEI): an estimate of explosive magnitude for historical volcanism• Volcanoes of the World, 2nd edition

Detailed description :

<https://data.nodc.noaa.gov/cgi-bin/iso?id=gov.noaa.ngdc.mgg.hazards:G10147>