

## **Hawai‘i Supersite: Data availability**

The vast majority of in-situ data for the Hawai‘i Geohazard Supersites is collected and processed by the U.S. Geological Survey’s (USGS) Hawaiian Volcano Observatory (HVO). These data are governed by the policy of the USGS Volcano Science Center (VSC), HVO’s parent organization. VSC strives for an open data policy, but recognizes that some datasets require substantial quality control before they can be released, and that suitable file formats and archival procedures are not available for all data types. As a result, some data from HVO will be available immediately (where archival locations and formats are established), others will be released episodically (after data quality are assured), and a few datasets will require direct interaction with the observatory (where there are no set archival locations nor standard data formats).

In-situ data available or potentially available for the Hawai‘i Supersite are summarized below.

### **Seismic**

All seismic waveform data collected by the HVO network are being archived at IRIS and are available for download. This archive extends from March 2011 to the present. Prior to that time, the seismic data were collected in a format that is cannot be ingested by IRIS. As a result, any investigators interested in pre-2011 seismic data should contact HVO.

Hypocenters are available from a variety of on-line earthquake catalogs.

### **Geodetic**

GPS data collected by HVO and many partner institutions (including the University of Hawai‘i, Mānoa, and Stanford University) are available for download from UNAVCO. Other geodetic data, including tilt and strain, currently lack archival locations and formats, and are only available through collaboration with HVO scientists.

Gravity data are collected by both continuous and campaign sensors. Campaign data will be made available as they are processed and quality controlled. Continuous data are still experimental and must be extensively analyzed before release. This process is currently ongoing.

### **Gas Geochemistry**

Gas emissions data for SO<sub>2</sub> and CO<sub>2</sub> from the summit and east rift zone require extensive analysis and are released in batches, every 2-3 years, after they have gone through quality control processing. The data are released in publically available Open-File Reports.

### **Geology**

Geologic data, including lava flow maps and observations of eruptive activity, are posted to HVO’s Web site ([hvo.wr.usgs.gov](http://hvo.wr.usgs.gov)) on a daily or weekly basis.

Any questions regarding data collected by HVO should be referred to the Scientist-in-Charge, Jim Kauahikaua ([jimk@usgs.gov](mailto:jimk@usgs.gov)).