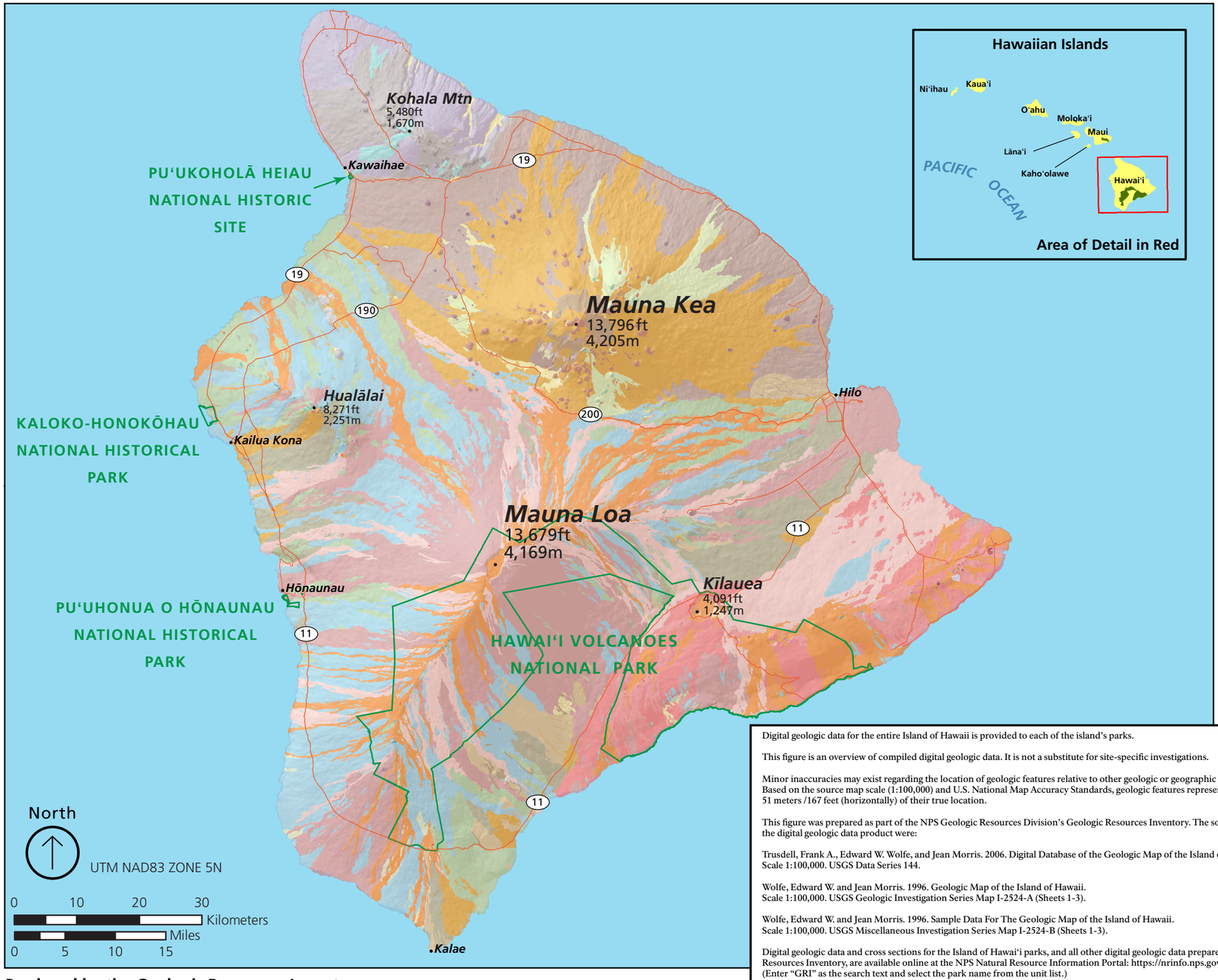
Overview of Digital Geologic Data for the Island of Hawai'i



Digital geologic data for the entire Island of Hawaii is provided to each of the island's parks.

This figure is an overview of compiled digital geologic data. It is not a substitute for site-specific investigations.

Minor inaccuracies may exist regarding the location of geologic features relative to other geologic or geographic features on the figure. Based on the source map scale (1:100,000) and U.S. National Map Accuracy Standards, geologic features represented here are within 51 meters /167 feet (horizontally) of their true location.

This figure was prepared as part of the NPS Geologic Resources Division's Geologic Resources Inventory. The source maps used in creation of the digital geologic data product were:

Trusdell, Frank A., Edward W. Wolfe, and Jean Morris. 2006. Digital Database of the Geologic Map of the Island of Hawai'i. Scale 1:100,000. USGS Data Series 144.

Wolfe, Edward W. and Jean Morris. 1996. Geologic Map of the Island of Hawaii. Scale 1:100,000. USGS Geologic Investigation Series Map I-2524-A (Sheets 1-3).

Wolfe, Edward W. and Jean Morris. 1996. Sample Data For The Geologic Map of the Island of Hawaii. Scale 1:100,000. USGS Miscellaneous Investigation Series Map I-2524-B (Sheets 1-3).

Digital geologic data and cross sections for the Island of Hawai'i parks, and all other digital geologic data prepared as part of the Geologic Resources Inventory, are available online at the NPS Natural Resource Information Portal: https://nrinfo.nps.gov/Reference.mvc/Search. (Enter "GRI" as the search text and select the park name from the unit list.)

NPS Boundary

Geologic Units

- Qf - fill
- Qls - landslide deposits
- Qac - alluvium and colluvium
- Qe - eolian deposits
- Qsd - slope deposits
- Qpha - Pahala Ash
- Qpc5 - Puna Basalt, cone
- Qp5 - Puna Basalt, lava flow
- Qpld5 - Puna Basalt, littoral cone
- Qpa5 - Puna Basalt, tephra deposit
- Qpc4y - Puna Basalt,cone
- Qpc4o - Puna Basalt, cone
- Qp4 - Puna Basalt, lava flow
- Qp4y - Puna Basalt, lava flow
- Qp4o - Puna Basalt, lava flow
- Qpld4o - Puna Basalt, littoral cone
- Qpa4o - Puna Basalt, tephra deposit
- Qpc3 - Puna Basalt, cone
- Qp3 - Puna Basalt, lava flow
- Qpld3 - Puna Basalt, littoral cone
- Qpc2 - Puna Basalt, cone
- Qp2 - Puna Basalt, lava flow
- Qpa2 - Puna Basalt, tephra deposit
- Qp1y - Puna Basalt, lava flow
- Qp1o - Puna Basalt, lava flow
- Qhi - Hilina Basalt, lava flow
- Qkc5 - Kau Basalt, cone
- Qk5 - Kau Basalt, lava flow
- Qkld5 - Kau Basalt, littoral cone
- Qkc4 - Kau Basalt, cone
- Qk4 - Kau Basalt, lava flow
- Qkld4 - Kau Basalt, littoral cone
- Qkc3 - Kau Basalt, cone
- Qk3 - Kau Basalt, lava flow
- Qkld3 - Kau Basalt, littoral cone
- Qka3 - Kau Basalt, tephra deposit
- Qkc2 - Kau Basalt, cone
- Qk2 - Kau Basalt, lava flow
- Qkld2 - Kau Basalt, littoral cone
- Qkc1 - Kau Basalt, cone
- Qkc1y - Kau Basalt, cone
- Qkc1o - Kau Basalt, cone
- Qk1 - Kau Basalt, lava flow
- Qk1y - Kau Basalt, lava flow
- Qk1o - Kau Basalt, lava flow
- Qkld1 - Kau Basalt, littoral cone
- Qkc - Kau Basalt, cone
- Qk - Kau Basalt, lava flow
- Qkh - Kahuku Basalt, lava flow
- Qn - Ninole Basalt, lava flow
- Qhc5 - Hualalai Volcanics, basalt, cone
- Qh5 - Hualalai Volcanics, basalt, lava flow
- Qh4 - Hualalai Volcanics, basalt, lava flow
- Qhc4 - Hualalai Volcanics, basalt, cone
- Qha4 - Hualalai Volcanics, basalt, tephra deposit
- Qhc3 - Hualalai Volcanics, basalt, cone
- Qh3 - Hualalai Volcanics, basalt, lava flow
- Qh2 - Hualalai Volcanics, basalt, lava flow
- Qhc2 - Hualalai Volcanics, basalt, cone
- Qhc1y - Hualalai Volcanics, basalt, cone
- Qh1y - Hualalai Volcanics, basalt, lava flow
- Qh1o - Hualalai Volcanics, basalt, lava flow
- Qhc1o - Hualalai Volcanics, basalt, cone
- Qhc - Hualalai Volcanics, basalt, cone
- Qh - Hualalai Volcanics, basalt, lava flow
- Qwc - Hualalai Volcanics, Waawaa Trachyte Member, cone
- Qw - Hualalai Volcanics, Waawaa Trachyte Member, lava flow
- Qlcy - Laupahoehoe Volcanics, younger volcanic rocks member, cone
- Qly - Laupahoehoe Volcanics, younger volcanic rocks member, lava flow
- Qlay - Laupahoehoe Volcanics, younger volcanic rocks member, tephra deposit
- Qlc - Laupahoehoe Volcanics, older volcanic rocks member, cone
- Ql - Laupahoehoe Volcanics, older volcanic rocks member, lava flow
- Qla - Laupahoehoe Volcanics, older volcanic rocks member, tephra deposit
- Qlbc - Laupahoehoe Volcanics, older volcanic rocks member, cone
- Qlb - Laupahoehoe Volcanics, older volcanic rocks member, lava flow
- Qlmt - Laupahoehoe Volcanics, Makanaka Glacial member, glacial deposit
- Qlmo - Laupahoehoe Volcanics, Makanaka Glacial member, glacial deposit
- Qhmc - Hamakua Volcanics, basalt, cone
- Qhm - Hamakua Volcanics, basalt, lava flow
- Qhmw - Hamakua Volcanics, Waihu Glacial member, glacial deposit
- Qhwc - Hawi Volcanics, scoria cone
- Qhwd - Hawi Volcanics, lava dome
- Qhw - Hawi Volcanics, lava flow
- Qhwa - Hawi Volcanics, tephra deposit
- Qhwbc - Hawi Volcanics, scoria cone
- Qhwbd - Hawi Volcanics, lava dome
- Qhwb - Hawi Volcanics, lava flow
- Qhwtd - Hawi Volcanics, lava dome
- Qhwt - Hawi Volcanics, lava flow
- Qplc - Pololu Volcanics, scoria cone
- Qpl - Pololu Volcanics, lava flow
- Qpld - Pololu Volcanics, lava dome
- Qplmc - Pololu Volcanics, scoria cone
- Qplm - Pololu Volcanics, lava flow