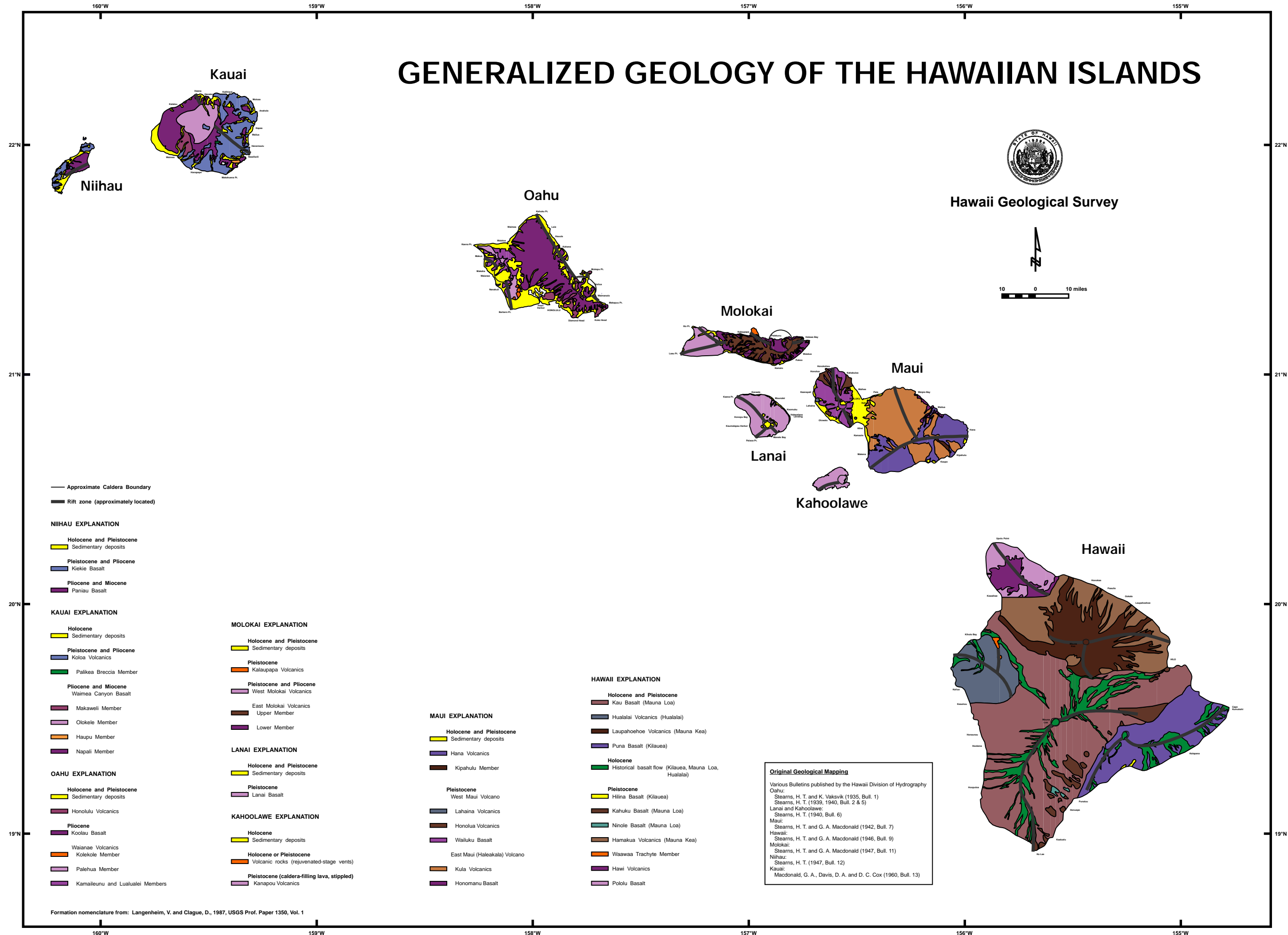
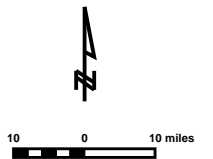


GENERALIZED GEOLOGY OF THE HAWAIIAN ISLANDS



Hawaii Geological Survey



— Approximate Caldera Boundary
 ■ Rift zone (approximately located)

NIIHAU EXPLANATION

- Holocene and Pleistocene Sedimentary deposits
- Pleistocene and Pliocene Kiekie Basalt
- Pliocene and Miocene Paniau Basalt

KAUAI EXPLANATION

- Holocene Sedimentary deposits
- Pleistocene and Pliocene Koloa Volcanics
- Palikea Breccia Member
- Pliocene and Miocene Waimea Canyon Basalt
- Makaweli Member
- Olokele Member
- Haupu Member
- Napali Member

OAHU EXPLANATION

- Holocene and Pleistocene Sedimentary deposits
- Honolulu Volcanics
- Pliocene Koolau Basalt
- Waianae Volcanics Kolekole Member
- Palehua Member
- Kamaileu and Lualualei Members

MOLOKAI EXPLANATION

- Holocene and Pleistocene Sedimentary deposits
- Pleistocene Kalaupapa Volcanics
- Pleistocene and Pliocene West Molokai Volcanics
- East Molokai Volcanics Upper Member
- Lower Member

LANAI EXPLANATION

- Holocene and Pleistocene Sedimentary deposits
- Pleistocene Lanai Basalt

KAHOOLAWE EXPLANATION

- Holocene Sedimentary deposits
- Holocene or Pleistocene Volcanic rocks (rejuvenated-stage vents)
- Pleistocene (caldera-filling lava, stippled) Kanapou Volcanics

MAUI EXPLANATION

- Holocene and Pleistocene Sedimentary deposits
- Hana Volcanics
- Kipahulu Member
- Pleistocene West Maui Volcano
- Lahaina Volcanics
- Honolulu Volcanics
- Wailuku Basalt
- East Maui (Haleakala) Volcano
- Kula Volcanics
- Honomanu Basalt

HAWAII EXPLANATION

- Holocene and Pleistocene Kau Basalt (Mauna Loa)
- Hualalai Volcanics (Hualalai)
- Laupahoehoe Volcanics (Mauna Kea)
- Puna Basalt (Kilauea)
- Holocene Historical basalt flow (Kilauea, Mauna Loa, Hualalai)
- Pleistocene Hiiina Basalt (Kilauea)
- Kahuku Basalt (Mauna Loa)
- Ninole Basalt (Mauna Loa)
- Hamakua Volcanics (Mauna Kea)
- Waawaa Trachyte Member
- Hawi Volcanics
- Pololu Basalt

Original Geological Mapping
 Various Bulletins published by the Hawaii Division of Hydrography
 Oahu: Stearns, H. T. and K. Vaksvik (1935, Bull. 1)
 Stearns, H. T. (1939, 1940, Bull. 2 & 5)
 Lanai and Kahoolawe: Stearns, H. T. (1940, Bull. 6)
 Maui: Stearns, H. T. and G. A. Macdonald (1942, Bull. 7)
 Hawaii: Stearns, H. T. and G. A. Macdonald (1946, Bull. 9)
 Molokai: Stearns, H. T. and G. A. Macdonald (1947, Bull. 11)
 Niihau: Stearns, H. T. (1947, Bull. 12)
 Kauai: Macdonald, G. A., Davis, D. A. and D. C. Cox (1960, Bull. 13)

Formation nomenclature from: Langenheim, V. and Clague, D., 1987, USGS Prof. Paper 1350, Vol. 1

Generalized Geology of the Hawaiian Islands

Due to the numerous requests for geologic maps of the Hawaiian Islands that are long out-of-print, the Hawaii Geological Survey compiled the Generalized Geology of the Hawaiian Islands map that can be viewed in PDF format. This map represents a compendium of the geological mapping as presented in the out-of-print bulletins published by the Hawaii Division of Hydrography from the 1935 to 1960. The rock unit nomenclature was later revised and updated to conform to the North American Stratigraphic Code (1983).

The revision of the units as shown in the Generalized Geology of the Hawaiian Islands map was done by:

Langenheim, V. A. M. and D. A. Clague, 1987, The Hawaiian-Emperor Volcanic Chain Part II: Stratigraphic Framework of the Volcanic Rocks of the Hawaiian Islands, U. S. Geological Survey Prof. Paper 1350, Vol. 1, pp. 55-84.