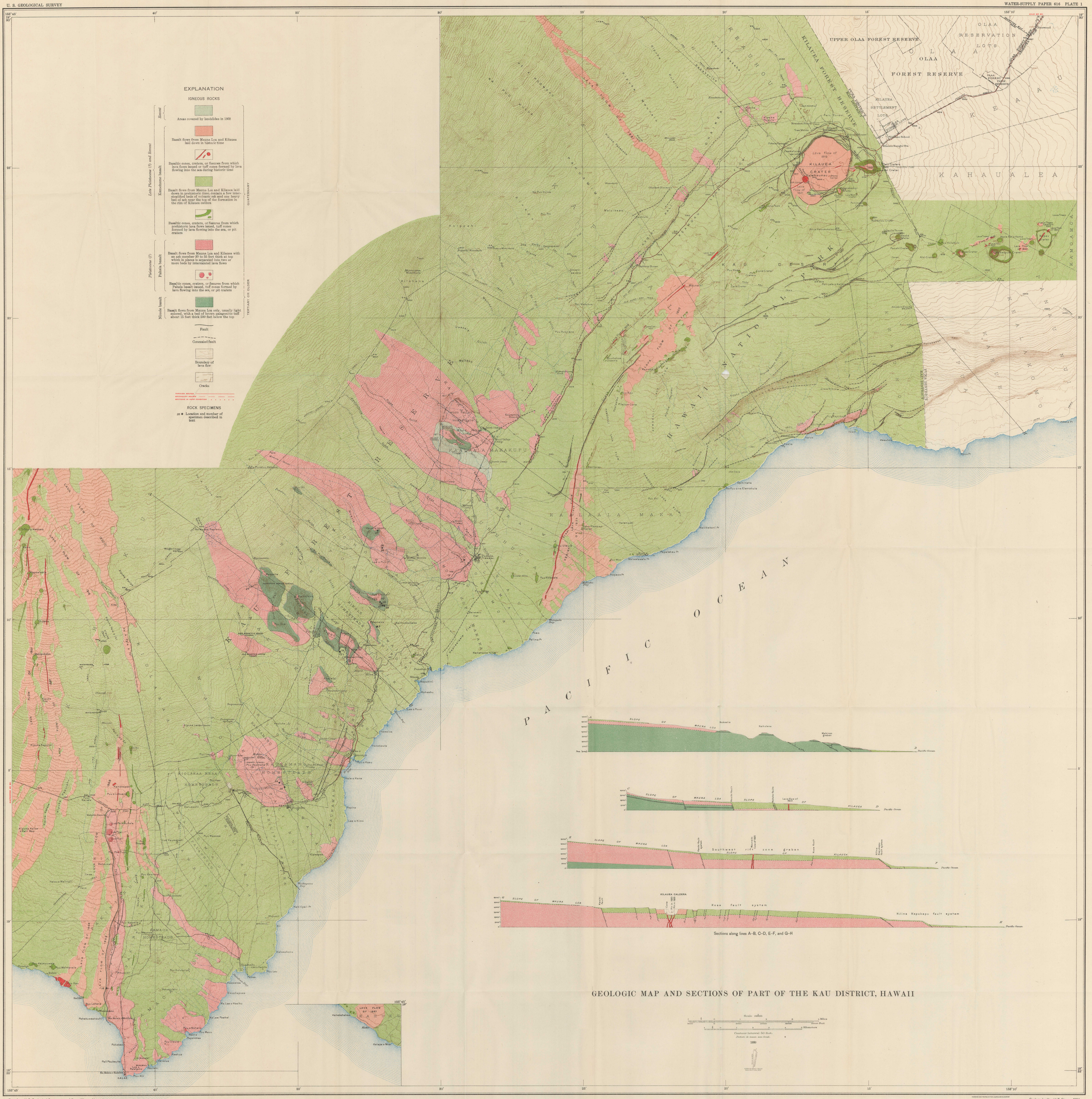
EXPLANATION
IGNEOUS ROCKS
Recent
Areas covered by landslides in 1868
Late Pleistocene (?) and Recent
Basalt flows from Mauna Loa and Kilauea laid down in historic time
Basaltic cones, craters, or fissures from which lava flows issued or tuff cones formed by lava flowing into the sea during historic time
Kamehame basalt
Basalt flows from Mauna Loa and Kilauea laid down in prehistoric time; contain a few interstratified beds of volcanic ash and one heavy bed of ash near the top of the formation in the rim of Kilauea caldera
Basaltic cones, craters, or fissures from which prehistoric lava flows issued, tuff cones formed by lava flowing into the sea, or pit craters
QUATERNARY
Pleistocene (?)
Pahala basalt
Basalt flows from Mauna Loa and Kilauea with an ash member 30 to 55 feet thick at top which in places is separated into two or more beds by intercalated lava flows
Basaltic cones, craters, or fissures from which Pahala basalt issued, tuff cones formed by lava flowing into the sea, or pit craters
Ninole basalt
Basalt flows from Mauna Loa only, usually light colored, with a bed of brown palagonitic tuff about 15 feet thick 500 feet below the top
TERTIARY OR OLDER
Fault
Concealed fault
Boundary of lava flow
Cracks
THROUGH ROUTES
SECONDARY ROUTES
SECTIONS IN POOR CONDITION
ROCK SPECIMENS
25 ● Location and number of specimen described in text
UPPER OLAA FOREST RESERVE
OLAA RESERVATION LOTS
OLAA FOREST RESERVE
KILAUEA FOREST RESERVE
KILAUEA SETTLEMENT LOTS
KAHAUALEA
KAMOAMOA
KILAUEA CRATER
Lava flow of 1919
Lava flow of 1921
HAWAII NATIONAL PARK
KAU DESERT
KAALAALA MAKAKUPU
KAALAALA MAKA
PACIFIC OCEAN
SLOPE OF MAUNA LOA
Southwest rift zone graben
KILAUEA CALDERA
Koae fault system
Hilina Kapukapu fault system
Sections along lines A–B, C–D, E–F, and G–H
GEOLOGIC MAP AND SECTIONS OF PART OF THE KAU DISTRICT, HAWAII
Scale 1/62500
Contour interval 50 feet.
Datum is mean sea level.
1930
Base from U. S. Geological Survey maps of Puna, Kilauea, Mauna Loa, Pahala, Honuapo, and Kalae quadrangles, surveyed in 1912–1922.
Geology by Harold T. Stearns, 1924