



U.S. DEPARTMENT OF DEFENSE
NATIONAL IMAGERY AND MAPPING AGENCY

KALAPANA QUADRANGLE
HAWAII-HAWAII CO.
7.5-MINUTE SERIES (TOPOGRAPHIC)



Produced by the United States Geological Survey
in cooperation with National Imagery and Mapping Agency

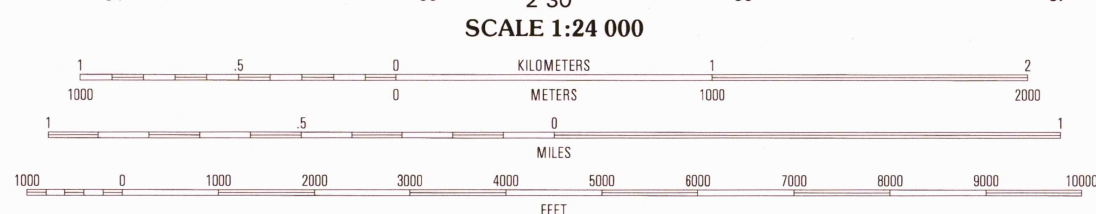
Topography compiled 1954. Planimetry derived from imagery dated 1954. Survey control control as of 1956. Contours that conflict with updated map features are as shown.

North American Datum of 1983 (NAD 83). Projection and 100-meter grid: Universal Transverse Mercator, zone 5
10 000 foot ticks: Hawaii Coordinate System of 1983 (zone 1)

Old Hawaiian Datum is shown by dashed contour ticks
The vertical shift between NAD 83 and Old Hawaiian Datum
for 7 ± minute intersections is 0.83 meters (National Geographic Survey NADCON software)

This map lies within an unstable volcanic area
There may be private inholdings within the boundaries of the National or State Reserves

UTM GRID AND 1998 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL
TO CONVERT FROM FEET TO METERS, MULTIPLY BY 0.3048
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER
THE MEAN RANGE OF TIDE IS APPROXIMATELY 1 FOOT

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, P.O. BOX 25286, DENVER, COLORADO 80225
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



QUADRANGLE LOCATION

1	2	3	1 Volcano
			2 Kalalua
			3 Pahoia South
4		5	4 Makaopuhi Crater
			5
			6
			7
6	7	8	8

ADJOINING 7.5' QUADRANGLE NAMES:

RECEIVED

DEC 3 1 1998

USGS NMD
HISTORICAL MAP ARCHIVES

ROAD CLASSIFICATION

Primary highway
hard surface Light-duty road, hard or
improved surface
Secondary highway
hard surface  Unimproved road 
 Interstate Route  U.S. Route  State Route

KALAPANA, HI
1994

NIMA 6016 IV SW-SERIES W833