



Mapped, edited, and published by the Geological Survey  
Revised in cooperation with Hawaii Dept. of Transportation

Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial photographs  
taken 1954. Field checked 1963. Revised from aerial photographs  
taken 1977. Limited field check 1980. Map edited 1981

Projection and 10,000-foot grid ticks: Hawaii coordinate system,  
zone 1 (transverse Mercator) Clarke spheroid 1886. Old Hawaiian Datum  
1000-meter Universal Transverse Mercator grid ticks, zone 5 shown  
in blue. International spheroid. To place on the predicted North  
American Datum 1983 move the projection line 337 meters north and  
291 meters west as shown by dashed corner ticks

This map lies within an unstable volcanic area  
There may be private inholdings within the boundaries of  
the National or State reservations shown on this map

TRUE NORTH  
MAGNETIC NORTH  
APPROXIMATE MEAN  
DECLINATION, 1981

USGS AND HISTORICAL  
MAP ARCHIVES  
JUN 30 1997  
REC'D FILE COPY

SCALE 1:24 000  
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET  
1 0 1 2 3 4 5 6 7 8 9 10 KILOMETER

CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL  
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER  
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2 FEET



ROAD CLASSIFICATION  
Medium-duty ——— Light-duty ———  
Unimproved dirt - - - - -

MAKAOPUHI CRATER, HAWAII  
N1915—W15507.5/7.5

1981

THIS MAP COMPLIES WITH 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

