

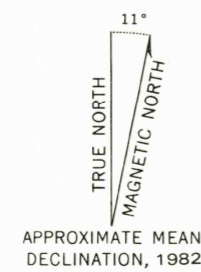
Mapped, edited, and published by the Geological Survey  
Revised in cooperation with Hawaii Dept. of Transportation  
Control by USGS and NOS/NOAA

Topography by photogrammetric methods from aerial photographs  
taken 1954. Field checked 1959. Revised from aerial photographs  
taken 1977. Limited field check 1980. Map edited 1982

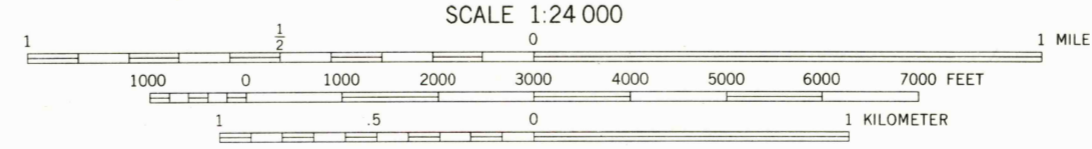
Selected hydrographic data compiled from NOS/NOAA chart  
4140 (1953). This information is not intended for navigational  
purposes

Projection and 10,000-foot grid ticks: Hawaii coordinate system,  
zone 1 (transverse Mercator) Clarke spheroid 1866. Old Hawaiian Datum  
1000-meter Universal Transverse Mercator grid ticks, zone 4, shown  
in blue. International spheroid. To place on the predicted North  
American Datum 1983 move the projection lines 343 meters north and  
291 meters west as shown by dashed corner ticks

There may be private inholdings within the boundaries of  
the National or State reservations shown on this map



APPROXIMATE MEAN  
DECLINATION, 1982



CONTOUR INTERVAL 40 FEET  
DOTTED LINES REPRESENT 20-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL  
DEPTH CURVES IN FEET—DATUM IS MEAN LOWER LOW WATER  
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE  
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, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



HAWAIIAN ISLANDS  
QUADRANGLE LOCATION

ROAD CLASSIFICATION  
Heavy-duty ——— Light-duty ———  
Unimproved dirt - - - - - State Route ○

MAKALAWENA, HAWAII  
N1945—W15600/7.5  
1982