



LEGEND

ROADS
 Primary, all-weather, hard surface
 Secondary, all-weather, hard surface
 Light-duty, all-weather, hard or improved surface
 Fair or dry weather, unimproved surface
 Trail
 Interchange

Route markers: Interstate, U.S., State

RAILROADS
 Normal gauge
 Narrow gauge
 International
 State
 County
 Park or reservation
 Horizontal control point
 Spot elevation in feet

Landmark: School, Church, Other
 Depth curve in feet
 Limit of danger, Reef
 Rocks, Atoll
 Foreshore flat
 Intermittent or dry stream
 Marsh or swamp

Compiled in 1975 by the U.S. Geological Survey from 1:24,000-scale maps surveyed 1956-67, from aerial photographs taken 1965, from NOS charts dated 1970-74, and by reference to Army Map Service 1:250,000-scale maps, dated 1951, 1962, and other sources. Supersedes Army Map Service maps dated 1951, 1962.

Control by USGS, NOS/NOAA, and Hawaii State Survey
 Universal Transverse Mercator projection; Old Hawaiian datum
 100,000-foot grid based on Hawaiian Islands coordinate system, zone 1

Selected hydrographic data compiled from NOS charts
 This information is not intended for navigational purposes

100,000 FOOT PLANE COORDINATE GRID
 TICK SYMBOLS
 — HAWAII ZONE 1
 INDEX TO COUNTY BOUNDARIES
 (See county designation list for county identification.)

HORIZONTAL CONTROL

NATIONAL OCEAN SURVEY
 Astronomic Station
 Satellite Station
 Monumented Point - First Order
 Monumented Point - Second Order
 Monumented Point - Third Order
 Located Object - Third Order
 32
 Station reported destroyed
 Measured Distance - First Order
 Measured Distance - Second Order
 Theodolite Traverse - Electronic Distance
 Transit Traverse - Taped Distance Third Order
 Transit Traverse and Leveling Third Order

GEODETIC SURVEY
 Astronomic Station
 Satellite Station
 Monumented Point - First Order
 Monumented Point - Second Order
 Monumented Point - Third Order
 Located Object - Third Order
 32
 Station reported destroyed
 Measured Distance - First Order
 Measured Distance - Second Order
 Theodolite Traverse - Electronic Distance
 Transit Traverse - Taped Distance Third Order
 Transit Traverse and Leveling Third Order

VERTICAL CONTROL

NATIONAL OCEAN SURVEY
 First Order
 Second Order
 Third Order
 Tidal Bench Mark

GEODETIC SURVEY
 First Order
 Second Order
 Third Order
 Tidal Bench Mark

STATE SURVEY CONTROL
 Horizontal or Vertical

LOCATION DIAGRAM FOR NE 5-1, 5

COUNTY DESIGNATIONS

NATIONAL OCEAN SURVEY THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES

INDEX TO COUNTY BOUNDARIES

ORDER CONTROL DATA, SHOWN IN BLACK, BY 30 MINUTE QUADRANGLE UNITS FROM U.S. NATIONAL OCEAN SURVEY, NOAA, ROCKVILLE, MARYLAND 20852

ORDER CONTROL DATA, SHOWN IN RED, BY QUADRANGLE UNITS FROM U.S. GEOLOGICAL SURVEY, NCIC, MENLO PARK, CALIFORNIA 94025

GEODETIC SURVEY QUADRANGLE DESIGNATION

1 Ka Loo	20 Pua Puhia	39 Pua Laha	48 Upper Pitonea
2 Pua Hoo	21 Kaula Pe	40 Kaula Pe	49 Pitonea
3 Kaula Pe	22 Kaula Pe	41 Kaula Pe	50 Pitonea
4 Kaula Pe	23 Pua South	42 Pua	51 Pua South
5 Pua Bay	24 Kaula	43 Pua	52 Pua South
6 Pua Bay	25 Kaula	44 Pua	53 Pua South
7 Kaula Pe	26 Kaula	45 Pua	54 Pua South
8 Pua	27 Kaula Pe	46 Pua	55 Pua South
9 Pua	28 Pua	47 Pua	56 Pua South
10 Pua	29 Pua	48 Pua	57 Pua South
11 Pua	30 Kaula	49 Pua	58 Pua South
12 Pua	31 Kaula	50 Pua	59 Pua South
13 Kaula	32 Pua	51 Pua	60 Pua South
14 Kaula	33 Pua	52 Pua	61 Pua South
15 Kaula	34 Pua	53 Pua	62 Pua South
16 Kaula	35 Pua	54 Pua	63 Pua South
17 Kaula	36 Pua	55 Pua	64 Pua South
18 Kaula	37 Pua	56 Pua	65 Pua South
19 Kaula	38 Pua	57 Pua	66 Pua South

HAWAII, HAWAII (NE 5-1,5)

October 1980

Index To Numbered Stations

NATIONAL OCEAN SURVEY

- 1 AN/CGR 5 ANTENNA (USE)
- 2 AN/CGR 6 ANTENNA
- 3 AN/CGR 8A ANTENNA
- 4 KA LAE 2
- 5 TELEMETRY BORESIGHT TOWER
- 6 KA LAE LIGHT (1978)
- 7 BEACHLOTS HVO 168 (USGS)
- 8 BA YI 153 (USGS)
- 9 HONUAULA (1949) (HITS)
- 10 HONUAULA (1901)
- 11 HONUAULA (1914)
- 12 HVO 125 (USGS)
- 13 ROCK HVO 134 (USGS)
- 14 W. HEBERANU (HIGS)
- 15 MAHUKONA
- 16 CAPE KUMUKAHI LIGHTHOUSE (1949)
- 17 HALEKAMAHINA HVO 125 (USGS)
- 18 LIGHTHOUSE 2 HVO 151 (USGS)
- 19 PUU KUKAE HVO 156 (USGS)
- 20 BA 5.79 (USGS)
- 21 REEF
- 22 AT
- 23 HIAHEO
- 24 BAN
- 25 KUHO BAY RANGE REAR LIGHT (1976)
- 26 MAHUKONA
- 27 BELLFRY
- 28 CATHOLIC CHURCH NW TOWER
- 29 CHURCH SQUARE TOWER
- 30 FOREIGN CHURCH
- 31 HILO ST. JOSEPH CATHOLIC CHURCH CROSS
- 32 COCONUT PT LIGHT (1974)
- 33 CUPOLA
- 34 DOCK
- 35 WHITE (1900)
- 36 WAIAXEA CREEK CHANNEL DAYBEACON 1 (1978)
- 37 EAST OF TWO STACKS
- 38 WEST OF TWO STACKS
- 39 MAHUKONA
- 40 GENERAL TYMAN FIELD AP A
- 41 STAND
- 42 GENERAL TYMAN FIELD AP B
- 43 GENERAL TYMAN FIELD AP
- 44 HIO TYMAN FIELD CONTROL TOWER (1949)
- 45 GENERAL TYMAN FIELD BALLCOON
- 46 GENERAL TYMAN FIELD CONTROL TOWER BEACON (1967)
- 47 GREEN LIGHT (1900)
- 48 PALKAA LIGHTHOUSE (1900)
- 49 MAHUKONA
- 50 MAHUKONA
- 51 WHARF
- 52 HILO BULK SUGAR BINS W LIGHT
- 53 HILO HARBOR COMMISSIONERS TANK
- 54 HILO COMTEC MAST
- 55 HONO KAWAIA SUGAR CO STACK
- 56 HILO HAWAIIAN TEL CO TOWER
- 57 HILO HONGWANJI CHURCH STEEPLE
- 58 HILO KHIO RADIO TOWER
- 59 MOKUOLA
- 60 MOKUOLA 2
- 61 HILO PNH TV MAST
- 62 HILO RADIO STATION TOWER
- 63 HILO TYMAN FIELD AIRPORT BEACON (1949)
- 64 HILO MIDDLE BASE
- 65 HILO N BASE
- 66 HILO RR S BASE
- 67 HILO RADIO RANGE
- 68 HILO RR S BASE OFFSET
- 69 HILO RR S BASE
- 70 HILO SUGAR CO STACK
- 71 WAIAXEA SUGAR CO STACK
- 72 MILL TALLEST OF 3 STACKS
- 73 HILO W BASE
- 74 HONOHONO STACK
- 75 WHITE (1912)
- 76 LONE HALE
- 77 STON (1977)
- 78 KEA RM A
- 79 KEA
- 80 RM 1
- 81 POINT E
- 82 TELECOM
- 83 LURE CALIBRATION PT
- 84 SUMMIT (USGS)
- 85 MAUNIA KEA
- 86 SUMMIT
- 87 MAUNIA KEA UNIV OF HAWAII OBS DOM
- 88 KEOKEA
- 89 KEOKEA 2
- 90 KUHO BAY RANGE FRONT LIGHT (1976)
- 91 PLATFORM BOLLARD
- 92 ROCK
- 93 PANAHEWA (HIGS)
- 94 11 C (HIGS)
- 95 PEAK B
- 96 SCORPION
- 97 STAKE 88
- 98 WAIAXEA NEW (USGS)
- 99 11 B (HIGS)
- 100 HONO KAA HAWAIIAN TEL MICROWAVE
- 101 HONO KAA SUGAR CO MILL STACK (1966)
- 102 IKI
- 103 IKI 2
- 104 ISAK
- 105 PAAHUHAU SUGAR CO STACK
- 106 PAAHUO STACK (1948)
- 107 PAAHUO STACK (1913)
- 108 PAUHAU CHURCH
- 109 PUU LIQHO
- 110 MAHUKONA
- 111 KAHEI (HITS)
- 112 CATHOLIC CHURCH E CROSS ON BELFRY
- 113 CATHOLIC CHURCH W CROSS ON BELFRY
- 114 HAWI UPOLO AIRPORT BEACON (1977)
- 115 HOEA MILL CHIMNEY W STACK
- 116 MAHUKONA
- 117 KEHOHI (HITS)
- 118 KAIHOLA STACK
- 119 KAIHOLA MILL STACK
- 120 LORAN A TOWER (1977)
- 121 LORAN C TOWER (1948)
- 122 LORAN C TOWER (1964)
- 123 MAHUKONA HARBOR WHARF DERRICK
- 124 MAHUKONA LIGHT (1979)
- 125 MAHUKONA HARBOR S DAY BEACON (1910)
- 126 PRIMARY PT 2 RM 5
- 127 PRIMARY PT 2
- 128 PUU O NAIE
- 129 PUU O NAIE E SLOPE
- 130 PUU O NAIE W SLOPE
- 131 KALAOA CATHOLIC CHURCH SPIRE
- 132 KEALAKEUA KONA CHURCH SPIRE
- 133 PARKER RANCH TANK A
- 134 POINT
- 135 TARGET
- 136 PUU LOA 2
- 137 KAILUA LIGHT (1913)
- 138 KAILUA LIGHT (1957)
- 139 KEAHUOULU RM 1
- 140 KEAHUOULU
- 141 KEAHUOULU PT SW RANGE MARKER
- 142 KEEL N BASE
- 143 BERRY MON 9
- 144 COFFEE
- 145 CAFFN COOKS MON
- 146 HONIARU HUTCHINSON MILL STACK (1967)
- 147 NAPOOPOO KAHIKOULU CHURCH SPIRE
- 148 NAPOOPOO LIGHT (1978)
- 149 MAHUKONA
- 150 MAHUKONA
- 151 CRACKS
- 152 UNTERKAMUNA (HIGS)
- 153 HVO 113 (USGS)
- 154 HVO 119 (USGS)
- 155 SAND HILL (USGS)
- 156 SAND HILL
- 157 KAUHAO (1974)
- 158 KAUHAO (1894)
- 159 KILAUEA MILITARY CAMP FLAGPOLE
- 160 NORTH RM
- 161 PAHALA HAWAIIAN AG CO MILL STACK
- 162 SOUTH RM
- 163 SPIT