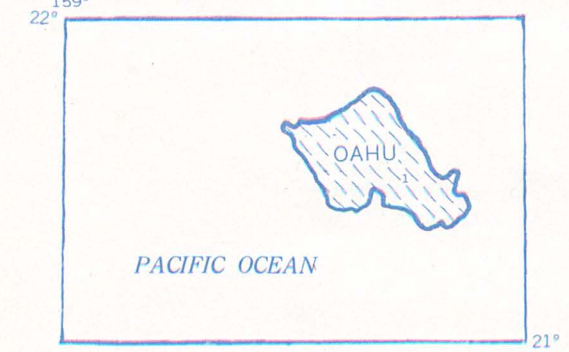


Additional triangulation on the island of Oahu
will be found on CHART 4110.

Compiled in 1971 from U.S. Geological Survey 1:24,000-scale and 1:62,500-scale maps surveyed 1952-69, by reference to Army Map Service 1:250,000-scale maps dated 1952, and from other sources. Control by USGS, USC & GS and Hawaiian State Survey. Superceded Army Map Service map dated 1952. Universal Transverse Mercator projection. Old Hawaiian datum. Selected hydrographic data compiled from USC & GS charts. Not for Navigational purposes.

100,000-FOOT PLANE COORDINATE GRID TICK SYMBOLS

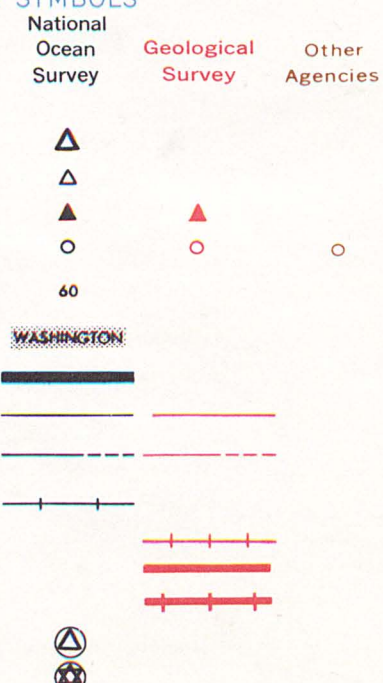
INDEX TO COUNTY BOUNDARIES
(See county designation list for county identification)



PLANE COORDINATE ZONE

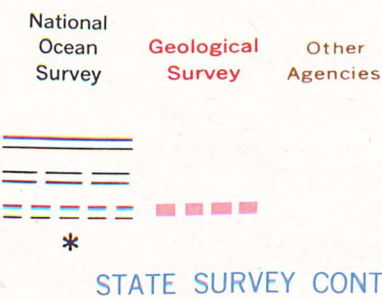
HAWAII ZONE 3

HORIZONTAL CONTROL



Monumented Point - First Order
Monumented Point - Second Order
Monumented Point - Third Order
Located Object - Third Order
See separate index for names of numbered stations
Station reported not recovered
Measured Distance - First Order
Line of triangulation observed
Line of triangulation observed from one end only
Measured Distance - Second Order
Theodolite Traverse - Electronic Distance
Transit Traverse - Taped Distance Third Order
Transit Traverse and Leveling Third Order
Satellite Station
Astronomic Station

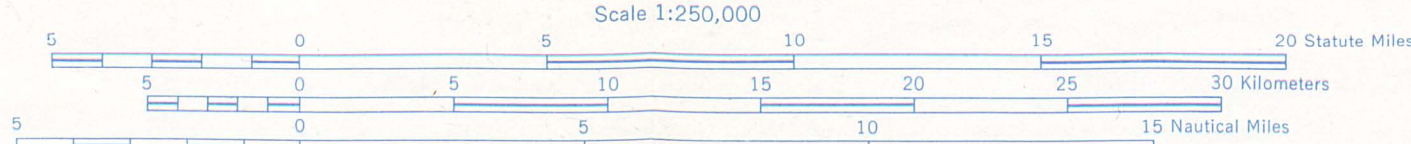
VERTICAL CONTROL



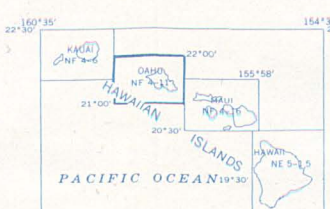
STATE SURVEY CONTROL

CODE OF OTHER AGENCIES

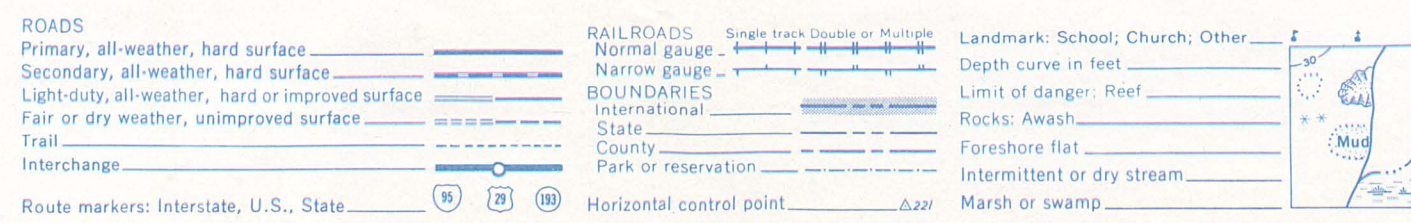
Geodetic control established by other agencies, shown in brown, may be obtained from Office of National Geodetic Survey, NOAA, Rockville, Maryland 20852.



LOCATION DIAGRAM FOR NF 4-11

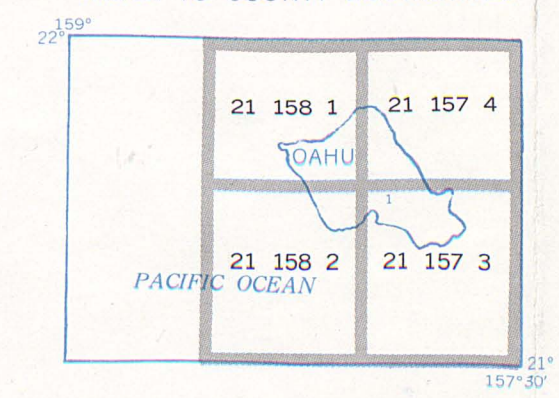


LEGEND



NATIONAL OCEAN SURVEY
THIRTY MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES



ORDER CONTROL DATA, SHOWN IN BLACK OR BROWN, BY 30 MINUTE QUADRANGLE UNITS FROM OFFICE OF NATIONAL GEODETIC SURVEY, NOAA, ROCKVILLE, MARYLAND 20852.

COUNTY DESIGNATIONS

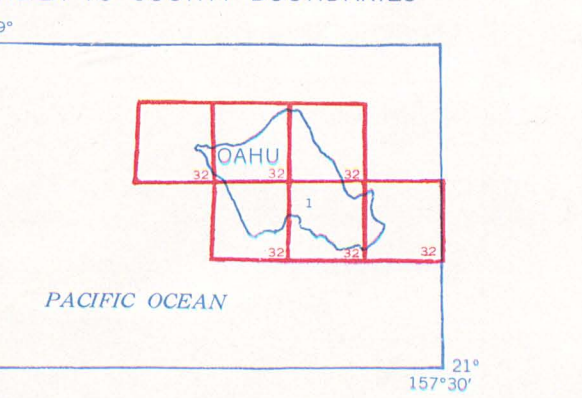
INDEX TO COUNTY BOUNDARIES



ORDER CONTROL DATA, SHOWN IN RED, BY 15 MINUTE QUADRANGLE UNITS FROM U.S. GEOLOGICAL SURVEY, NCIC, MENLO PARK, CALIFORNIA 94025

GEOLOGICAL SURVEY
FIFTEEN MINUTE QUADRANGLE DESIGNATION

INDEX TO COUNTY BOUNDARIES



ORDER CONTROL DATA, SHOWN IN RED, BY 15 MINUTE QUADRANGLE UNITS FROM U.S. GEOLOGICAL SURVEY, NCIC, MENLO PARK, CALIFORNIA 94025

KEY TO NUMBERED STATIONS
OAHU, HAWAII (NF 4-11) DIAGRAM

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY
ROCKVILLE, MARYLAND 2085
DATE JULY 1979

PAGE 1
QUADS 211571-2-3-4 & 211581-2-3-4
HI
LATITUDE 21 00' TO 22 00'
LONGITUDE 157 00' TO 159 00'

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2 PUNCHBOWL	31 STATE SURVEY 4-23
3 STATE SURVEY 1-11	32 STATE SURVEY 4-33
4 KEWALO	33 STATE SURVEY 4-6
4 BM B 5	34 STATE SURVEY 4-4
5 STATE SURVEY 2-4	35 STATE SURVEY 4-7
6 STATE SURVEY 2-3	36 STATE SURVEY 4-5
7 STATE SURVEY 2-9	37 ROSEBANK
8 WAIKIKI 2	38 STATE SURVEY 1-5
8 WAIKIKI 3	39 STATE SURVEY 1-10 (GUAVA)
9 WAIKIKI	40 HAKAUEA
10 STATE SURVEY 2-2	41 KALAEPONAHAKU
11 STATE SURVEY 2-10	42 STATE SURVEY 1-7
12 STATE SURVEY 2-6	43 STATE SURVEY 1-9
13 ROCKY HILL	44 STATE SURVEY 1-1
14 MAKIKI	45 STATE SURVEY 1-6
15 ROUND TOP	46 STATE SURVEY 1-13
16 STATE SURVEY 2-8	47 STATE SURVEY 1-8
17 KALEPEANDA	48 STATE SURVEY 1-3
18 WAAHILA	49 STATE SURVEY 1-2
19 MAUHEA	50 HAWAII ASTRO (IGY)
20 STATE SURVEY 3-3	51 STATE SURVEY 4-18
21 STATE SURVEY 2-5	52 PUU KAILIO 2500
22 STATE SURVEY 3-7	52 PUU O HULU MAKAI
23 STATE SURVEY 3-8	53 STATE SURVEY 7-17
24 LUCAS	54 STATE SURVEY 9-4
25 STATE SURVEY 3-10	55 30188 (SATELLITE STATION)
26 STATE SURVEY 4-10	56 NIU LONGITUDE (ASTRO STATION)
27 STATE SURVEY 4-14	57 HONOLULU
28 STATE SURVEY 4-13	58 HONOLULU LONGITUDE MON (ASTRO STATION)
29 STATE SURVEY 4-12	59 ANTENNA (ASTRO STATION)