UNITED STATES

HAWAII

HAWAI'IAN ISLANDS

Mercator Projection
Scale 1:600,000 at Lat 20° 31'

World Geodetic System 1984
(North American Datum of 1983)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

Additional information can be obtained at nauticalcharts.noaa.gov.

Formerly C&GS 4102, 1st Ed., Mar. 1912 C-1910-115 NAPP 2193

THE NATION'S CHARTMAKER SINCE 1807

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

Kulani Cone, HI	KBA-99	162.550 MHz
South Point, HI	KBA-99	162.550 MHz
Mt Haleakala, HI	KBA-99	162.400 MHz
Haiwahi Kai, HI	KBA-99	162.400 MHz
Mt Kaala, HI	KBA-99	162.550 MHz
Kokee, HI	KBA-99	162.400 MHz

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility. If telephone communication is impossible (33 CFR 153),

NOTE B

Boundary limits of Submerged Submarine Operating Areas are shown by a solid magenta line. As submarines may be submerged in these areas, vessels should proceed with caution. During torpedo practice firing, all vessels are cautioned to keep well clear of Naval Target Vessels flying a large red flag at the highest masthead.

HORIZONTAL DATUM

The horizontal reference datum of this chart is World Geodetic System 1984 (WGS-84), which for navigation purposes is considered equivalent to the North American Datum of 1983 (NAD 83). The geographic positions referred to the Hawaiian Datum could be connected with an average of 11.210" southward and 10.030" eastward to agree with this chart.

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

ABBREVIATIONS

(for complete list of Symbols and Abbreviations, see Chart No. 1,
Aids to Navigation (lights are white unless otherwise indicated)

AUHO aeronautical
Al alternating
Bk black
Bn beacon
Cl clear
Dia diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
Mo(A) morse code
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
Ox oscillating
Pa patterned
Q quick
R red
Ra ref radar reflector
R dir radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
Sir siren, fog siren
VQ very quick
W white
WHO whistle
Y yellow

Rocks characteristics:

Bld boulders
Br broken
Cy clay
gr gray
Gr gravel
Grs grass
M mud
Oys oysters
Pk rock
S sand
so soft
Sh shells
sy sticky

Miscellaneous:

AUTH authorized
Obstn obstruction
PD position doubtful
Sub submerged
Ex existence doubtful
Ap approximate
Rep reported

(Z), Wreck, rock, obstruction, or shoal swept clear to the depth indicated;
(2) Rocks not cover and uncover, with heights in feet above datum of soundings.

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION

Limitations on the use of radio signals as aids to marine navigation can be found in the U.S. Coast Guard Light Lists and National Geospatial-Intelligence Agency Publication 117.

Radio direction-finder bearings to commercial broadcasting stations are subject to error and should be used with caution.

Station positions are shown thus:
(A)(Accurate location) u(Approximate location)

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey; with additional data from the U.S. Coast Guard, Geological Survey, U.S. Navy, and National Geospatial-Intelligence Agency.

HEIGHTS

Heights in feet above Mean High Water.

NOTE S

Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-229. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency. See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 14th Coast Guard District in Honolulu, Hawaii or at the Office of the District Engineer, Corps of Engineers in Honolulu, Hawaii.

Refer to charted regulation section numbers.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE E

NAVAL OPERATING AREA

Vessels should use caution while transiting this area due to naval test operations which involve frequent maneuvers in the vicinity of and around this location.

NOTE C

PROHIBITED AREAS

Pearl Harbor
Kāne'ohe Bay

Regulations are published in Chapter 14, United States Coast Pilot 7.

CAUTION

SUBMARINE PIPELINES AND CABLES

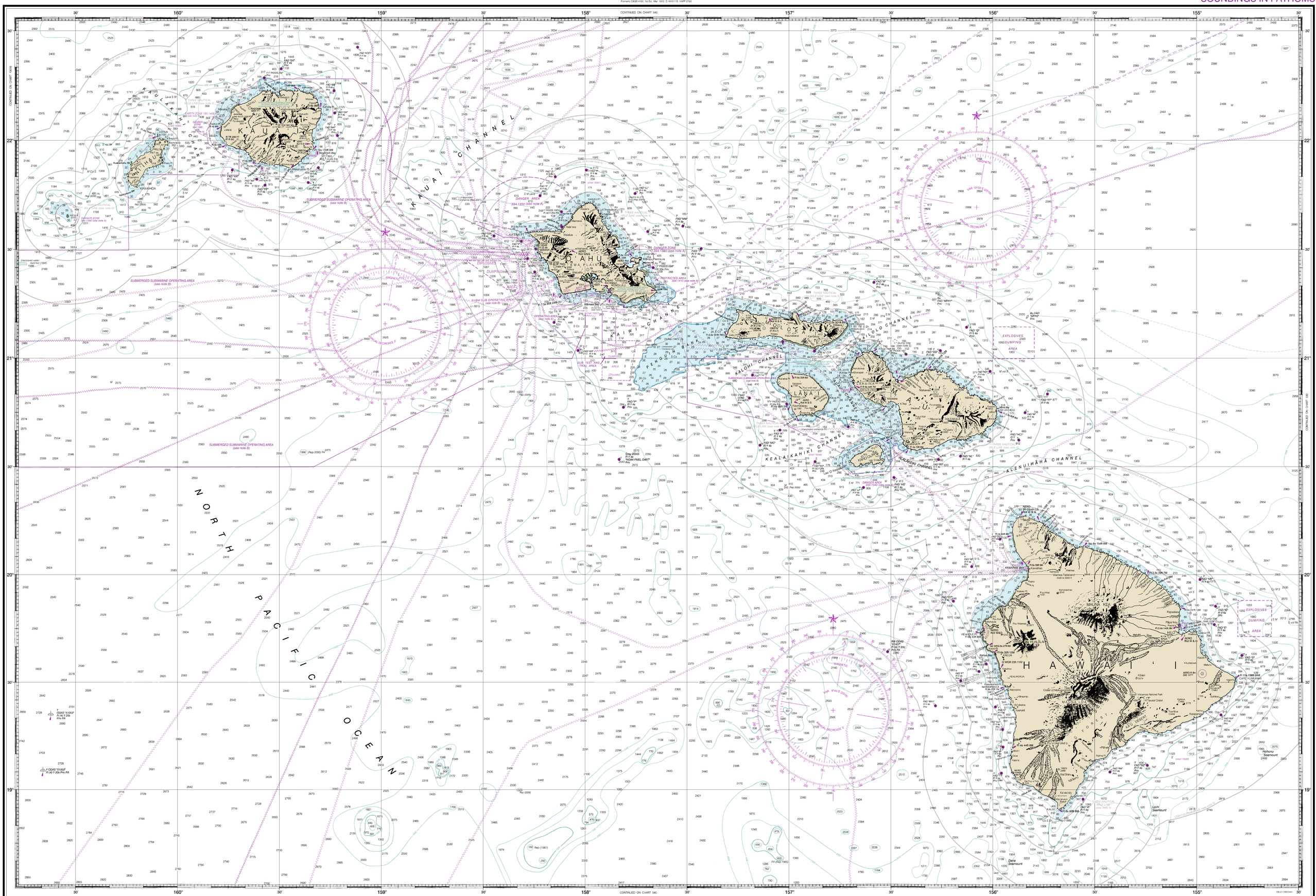
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional unchartered submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners are cautioned to use caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling.

Covered wells may be marked by lighted or unlighted buoys.

SOUNDINGS IN FATHOMS



To ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).

If the line does not measure six inches (152 millimeters), this copy is not certified safe for navigation.

CAUTION
This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by the U.S. Coast Guard district for the dates shown in the lower left hand corner. Chart updates corrected from Notice to Mariners published after the dates shown in the lower left hand corner are available at nauticalcharts.noaa.gov.

NOAA encourages users to submit inquiries, discrepancies or comments about this chart at http://www.nauticalcharts.noaa.gov/staff/contact.htm.

SOUNDINGS IN FATHOMS

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	0	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51
METERS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Hawai'ian Islands
SOUNDINGS IN FATHOMS - SCALE 1:600,000

19004