THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

HAWAII

HAWAI'IAN ISLANDS

NORTHERN PART

Mercator Projection
Scale 1:675,000 at Lat 20° 30'

World Geodetic System 1984
(North American Datum of 1983)

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

Formerly C&GS 4180, 1st Ed., Feb. 1948. KAPR 2796

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see Chart No. 1.)

Aids to Navigation (lights are white unless otherwise indicated)

AERO aeronautical
Al alternating
B black
Bn beacon
C can
DIA diaphone
F fixed
Fl flashing
G green
IQ interrupted quick
Iso isophase
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mkr marker
Mo morse code
N nun
OBSC obscured
On occulting
Or orange
Q quick
R red
Ra Ref radar reflector
R Bn radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St M statute miles
VQ very quick
W white
WHS whistle
Y yellow

Bottom characteristics:

Blds boulders
Bk broken
Cy clay
Co cone
Gl gravel
Gs grass
Gy gray
H hard
M mud
Ok oysters
P pebbles
S sand
Sh shells
Sy sticky

Miscellaneous:

ALOV authorized
ED existence doubtful
Obstr obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged
Wreck, rock, obstruction, or shoal swept clear to the depth indicated
Rocks that cover and uncover, with heights in feet above datum of soundings.

HEIGHTS
Heights in feet above Mean High Water.

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.

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.

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

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

HORIZONTAL DATUM
The horizontal reference datum of this chart is World Geodetic System 1984 (WGS 84), which for charting purposes is considered equivalent to the North American Datum of 1983 (NAD 83). Geographic positions referred to the Old Hawaiian Datum must be corrected an average of 11.410" southward and 10.002" eastward to agree with this chart.

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).

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.

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

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:
(Accurate location) (Approximate location)

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.

NOTE C
PROHIBITED AREAS
Pearl Harbor
Kāne'ohe Bay
Regulations are published in Chapter 14, United States Coast Pilot 7.

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.

NOTE D
Submarine Fish Aggregating Devices (FADS) are contained within this area at depths of 40 to 100 feet below the surface. Mariners are advised to use caution when entering or transiting.

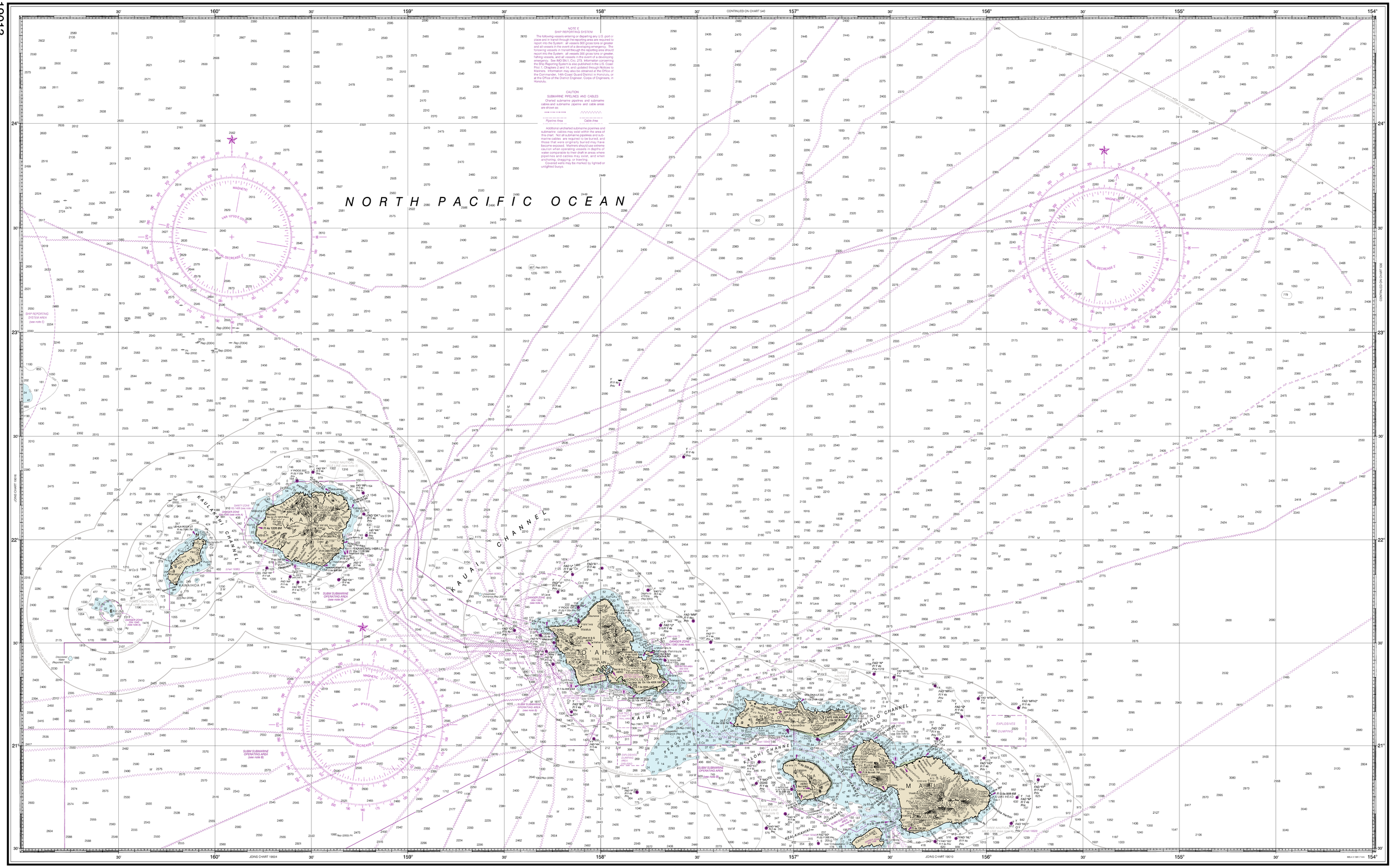
WARNING
The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

NOTE S
Regulations for Ocean Dumping Sites are contained in 40 CFR, Parts 220-228. Additional information concerning the regulations and requirements for use of the sites may be obtained from the Environmental Protection Agency (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to this survey dates may have reduced the depths shown.

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 State of Hawaii. Federal fisheries jurisdiction between the coasts of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line sometimes remains 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.

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

SOUNDINGS IN FATHOMS



19013

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 each U.S. Coast Guard district to 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.

19th Ed., Oct. 2010. Last Correction: 2/8/2019. Cleared through:
LNM: 2919 (7/16/2019), NM: 3019 (7/27/2019)

To ensure that this chart was printed at the proper scale, the line below should measure as inches (1/32 millimeters).
If the line does not measure as inches (1/32 millimeters), this copy is not certified safe for navigation.

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

SOUNDINGS IN FATHOMS

This chart was distributed as a PDF (Portable Document Format). Printing PDFs may alter the chart scale, color, or legibility that may impact suitability for navigation. Printed charts provided by NOAA certified Print on Demand (POD) providers fulfill a vessel's requirement to carry a navigational chart "published by the National Ocean Service" in accordance with federal regulations, including but not limited to 33 C.F.R. 164.33(a), 33 C.F.R. 164.72(b), and 46 C.F.R. 28.225(a). POD charts meet stringent print standards and can be recognized by an official certification of authenticity printed on the chart. A list of POD providers can be found at: nauticalcharts.noaa.gov/pod

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
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 18
FEET 0 3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54
METERS 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Hawai'ian Islands, Northern Part
SOUNDINGS IN FATHOMS - SCALE 1:675,000

19013