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

Formerly C&GS 4196, 1st Ed., May 1946 H-1946-716 KAPP 2828

SOUNDINGS IN FATHOMS

81048

CONTINUED ON CHART 81004

144° East from Greenwich

PHILIPPINE SEA

PACIFIC OCEAN

NORTH

Disposal Area
Depths from surveys of 1944-1945

Dump Site
(discontinued)
(dredged material)
Depths from surveys of 1944-1945
(see note S)

FIRING DANGER AREA

ACOUSTIC RANGE FACILITY (see note)

SMALL ARMS SAFETY DROP ZONE

APRA HARBOR
(see chart 81054)

AGAT BAY

TUMON BAY

Hagåtña

Dededo

Mt Lamlam

Mt Chachao

Mt Alutom

Mt Tenjo

Mt Almagosa

Mt Jumulong Manglo

Mt Sasalaguan

Mt Santa Rosa

Mt Barrigada

Cocos Lagoon

Jaotan Pt

Ritidian Pt

Pati Pt

Fafalog

Agat

Umatac

Merizo

Facpi Pt

Orote Pt

Asan

Piti

Asan Bay

Agana Bay

Tagachang Pt

Pago Bay

Talofofo Bay

Inarajan Bay

Togcha Bay

Yig Bay

Achang Bay

Bile Bay

Cocos Lagoon

Achang Reef

Tangon Rk

Babe I

Cocos I

Navigation regulations are published in NGA Publication 126 or weekly Notice to Mariners which include new or revised regulations. 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
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

Pipeline Area — Cable Area

Additional uncharted 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 should use extreme 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.

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 (EPA). See U.S. Coast Pilots appendix for addresses of EPA offices. Dumping subsequent to the survey dates may have reduced the depths shown.

NOAA WEATHER RADIO BROADCASTS
The NOAA Weather Radio station listed below provides 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.

Guam	WXM-55	162.40 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.

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 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 off the 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.

TIDAL INFORMATION

Place Name (LAT/LONG)	Height referred to datum of soundings (MLLW) Mean Higher High Water	Mean High Water	Mean Low Water	Extreme Low Water
	feet	feet	feet	feet
Apra Harbor, Guam (13°26'N / 144°39'E)	2.4	2.2	0.6	--.--

(Nov 2003)

SOURCE

C	1990-2001	US Navy Surveys — partial bottom coverage
f	1970-2003	US Government Surveys — partial bottom coverage
h	Pre-1900	Miscellaneous Surveys — partial bottom coverage

SOURCE DIAGRAM
The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, United States Coast Pilot.

1395

COCOS LAGOON
(PORT MERIZO)
Scale 1:40,000 at Lat 13°15'
SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

NOTE C
All buoys in Merizo Channel are privately maintained.

PACIFIC OCEAN

MARIANA ISLANDS

ISLAND OF GUAM
TERRITORY OF GUAM

Mercator Projection
Scale 1:100,000 at Lat 13°22'

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.

For Symbols and Abbreviations see Chart No. 1

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, U.S. Coast Guard, and Department of the Navy.

HEIGHTS
Elevations of rocks and lights are in feet and refer to Mean High Water. Contour and summit elevation values are in feet and refer to Mean Sea Level.

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 Guam 1963 Datum must be corrected an average of 5.274" northward and 8.635" eastward to agree with this chart.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 7 and NGA Publication 126 for supplemental information.

NOTE B
Submerged submarine operations are conducted at various times in the waters contained on this chart. Proceed with caution.

ACOUSTIC RANGE FACILITY
Numerous shore connected bottom cables are located within the outlined area.

CAUTION
Surface, subsurface, and aircraft operations including firing exercises are conducted at various times in areas within an approximate 220 mile radius of Guam.

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.

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)

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, U.S. Coast Pilot, and NGA Publication 126 for details.

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.

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

Island of Guam
SOUNDINGS IN FATHOMS - SCALE 1:100,000

10th Ed., Feb. 2006. Last Correction: 4/16/2015. Cleared through: LNM: 4916 (12/6/2016), NM: 5016 (12/10/2016)

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

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