THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

ALASKA - SOUTHEAST COAST

TONGASS NARROWS

INCLUDING WARD COVE TO KETCHIKAN HARBOR

Mercator Projection
Scale 1:10,000 at Lat 55°20'N
North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO ELEVEN FATHOMS)
AT MEAN LOWER LOW WATER

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

COLREGS, 80,1705 (see note A)
International Regulations for Preventing Collisions at Sea, 1972
The entire area of this chart falls seaward of the COLREGS Demarcation Line.

Formerly C&GS 8063, 1st Ed., June 1931 C-1803-360

NOTE B
CAUTION
Log booms are not permanently placed. Locations of log storage areas vary.

NOTE C
CAUTION
A general shoaling trend of 6 to 12 feet is evident due to logging operations. Extreme caution should be used while navigating in this area. Due to the profusion of logs on the seafloor mariners are advised against anchoring.

HEIGHTS
Heights in feet above Mean High Water.

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 exercise 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.

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).

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 North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 1.200" southward and 6.037" westward to agree with this chart.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 8 for important supplemental information.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 8. 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 District Engineer, Corps of Engineers, in Juneau, Alaska, or at the Office of the District Engineer, Corps of Engineers in Anchorage, Alaska.
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.

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.

VEGETATION
The land is generally heavily wooded. The woods decrease in density with the elevation, leaving the higher elevations bare.

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.

Sukkwan I, AK	KZZ-69	162.425 MHz
Zarembo I, AK	KZZ-91	162.400 MHz
Gravina I, AK	KZZ-96	162.525 MHz
Duke I, AK	KZZ-92	162.450 MHz
Ketchikan, AK	WXJ-26	162.550 MHz

TIDAL INFORMATION

PLACE		Height referred to datum of soundings (MLLW)		
NAME	(LAT/LONG)	Mean Higher High Water	Mean High Water	Mean Lower Low Water
		feet	feet	feet
Ketchikan	(55°20'N/131°37.5'W)	15.4	14.5	1.6

Dashes (---) located in datum columns indicate unavailable datum values for a tide station. Pre-4-hrs water levels, tide predictions, and tide current predictions are available on the Internet from http://tidesandcurrents.noaa.gov. (Sep 2013)

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

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. Time signals and weather broadcasts commercial broadcasting stations are subject to error and should be used with caution.
Station positions are shown thus:
⊙(Accurate location) ⊙(Approximate location)

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
DA daphane
F fixed
Fl flashing
G green
Iq interrupted quick
Iso isophase
LT HO lighthouse
M nautical mile
m minutes
MICRO TR microwave tower
Mo morse
Mo morse code
N nun
OBSC obscured
Oc occulting
Or orange
Q quick
R red
Ra Rad radar reflector
R Br radiobeacon
R TR radio tower
Rot rotating
s seconds
SEC sector
St St statute miles
VQ very quick
W white
WHS whistle
Y yellow

Bottom characteristics:
Bld boulders
ck broken
Cy clay
Dn coral
G gravel
Gn green
gy gray
h hard
M mud
Ms mud
Oys oysters
Rk rock
S sand
sh soft
Sh shells
sy sticky

Miscellaneous:
AUTH authorized
ED evidence doubtful
Dsen obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged
Wreck, rock, obstruction, or dead sweep cover to the depth indicated.
Rocks that cover and uncover, with heights in feet above datum of soundings.

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

SCALE 1:10,000
Nautical Mile
Statute Mile
Yards
Meters

SOURCE
A 1900-2000 NOS Surveys full 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.

REVILLAGIGEDO ISLAND
GRAVINA ISLAND
PENNOCK ISLAND
KETCHIKAN
KETCHIKAN INTERNATIONAL AIRPORT
WARD COVE
Bar Point Basin
Thomas Basin
Peninsula Pt
Lewis Pt
Clam Cove
Whisky Cove
Naketosbugh Cove
Bald Headed Cove
SAXMAN
Potter Rk
Navigation Regulations 162.240 (see note A)
ANCHORAGE AREA 110.237 (see note A)
CONTINUED ON 17430
CONTINUED ON 17420
JOINS PANEL BELOW
JOINS PANEL ABOVE

12th Ed., Nov. 2013
17430
Last Correction: 6/18/2015. Cleared through:
LNM: 4616 (11/15/2016), NM: 4616 (11/12/2016), CHS: 1016 (10/28/2016)

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.

To ensure that this chart was printed at the proper scale, the bar 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.

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

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

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

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
FEET	0	6	12	18	24	30	36	42	48	54	60	66
METERS	0	1.8	3.7	5.5	7.3	9.1	10.9	12.8	14.6	16.4	18.2	20.1

Tongass Narrows Including Ward Cove to Ketchikan Harbor
SOUNDINGS IN FATHOMS - SCALE 1:10,000

17430