Formerly C&GS 8553. 1st Ed., Jan 1912 V-1912-119 KAPP 2579

UNITED STATES

ALASKA - SOUTH COAST

COOK INLET

NORTHERN PART

Mercator Projection
Scale 1:194,154 at Lat 61° 00'

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 found at nauticalcharts.noaa.gov.

TIDAL INFORMATION

PLACE		Height reference to datum of soundings (MLLW)			
NAME	(LAT/LONG)	Mean Higher High Water		Mean Low Water	
		feet	feet	feet	feet
Kenai River Ent	(60°33'N/151°17'W)	25.1	24.6	2.1	2.2
East Foreland	(60°42'N/151°30'W)	21.0	20.2	2.2	2.2
Fire Island Terminal	(61°12'N/150°12'W)	27.0	26.2	2.2	2.2
North Foreland	(61°00'N/151°19'W)	21.0	20.3	2.2	2.2
Drift River Terminal	(60°34'N/152°06'W)	16.1	17.4	2.0	2.0
Nikiski	(60°41'N/151°24'W)	25.2	24.4	2.2	2.2
Anchorage	(61°14'N/149°53'W)	29.2	28.4	2.2	2.2

Datums (---) located in datum columns indicate unavailable datum values for a tide station. Real-time water levels, tide predictions, and tidal current predictions are available on the Internet from http://tidesandcurrents.noaa.gov.

Alyr (0/0)

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

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

Bottom characteristics:

Blds boulders	Co coral	gr gritty	Oys oysters	so soft	
bk broken	S gravel	h hard	Pk rock	Sh shells	
Cy clay	Grs grass	M mud	S sand	sy sticky	

Miscellaneous

AUTH authorized	Obstn obstruction	PD position doubtful	Subm submerged
ED existence doubtful	PA position approximate	Rep reported	

⚓, Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
(2) 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 Corps of Engineers, Geological Survey, and U.S. Coast Guard.

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.

Bede Mt, AK	WNG-528	162.450 MHz
Ninilchik, AK	KZZ-97	162.550 MHz
Wasilla, AK	KZZ-98	162.400 MHz
Rugged I., AK	WNG-526	162.425 MHz
Potato Point, AK	WNG-527	162.425 MHz
Naked I, AK	WNG-530	162.500 MHz
Point Pigot, AK	KZZ-93	162.400 MHz
Anchorage, AK	KEC-43	162.550 MHz
Soldotna, AK	WWG-39	162.475 MHz
Whittier, AK	KXI-29	162.400 MHz

NOTE C
Fire Island Shoal is shifting in a southeasterly direction. Mariners are urged to use extreme caution when navigating in this area.

MINERAL DEVELOPMENT STRUCTURES
Obscuration lights and sound (fog) signals are required for fixed mineral development structures shown on this chart, subject to approval by the District Commander, U.S. Coast Guard (33 CFR 67).

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 2.031" southward and 7.899" westward to agree with this chart.

CAUTION
The Cook Inlet area is affected by land uplift due to forces such as post-seismic crustal rebound. As a result, the tidal datums including mean lower low water, the plane of reference used for depth soundings, have changed throughout this region. Tidal datums were updated in 1996 and depths of 11½ fathoms or less on this chart were adjusted accordingly to account for this uplift. As the uplift rates can only be estimated and areas continue to rise, depths may be shoaler than charted. Mariners are urged to exercise caution.

SOURCE

A 1990 - 2013	NOS Surveys	full bottom coverage
B2 1970 - 1989	NOS Surveys	partial bottom coverage
B3 1903 - 1969	NOS Surveys	partial bottom coverage
B4 1903 - 1939	NOS 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.

NOTE B
Area is subject to drastic and continuing change. Caution should be exercised when navigating in this area.

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.
Stated positions are shown thus:
(Accurate location) ⊙(Approximate location)

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).

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.

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

CAUTION
Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.
The buoys in Cook Inlet are seasonally maintained from May 1 to Nov. 1. For details see U.S. Coast Guard Light List.

SUPPLEMENTAL INFORMATION
Consult U.S. Coast Pilot 9 for important supplemental information.

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.

NOTE G
Hydrography in Turnagain Arm indicated within the dashed outline originates from surveys dated 1910 and 1912. Because of the highly changeable nature of the bottom, Mariners should use extreme caution when navigating in this area.

CAUTION
Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOTE A
Navigation regulations are published in Chapter 2, U.S. Coast Pilot 9. 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, 17th Coast Guard District 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.

CAUTION
Oil exploration and production operations are being conducted in the water of Cook Inlet. Drilling vessels and movable and permanent platforms are being used. Only permanent platforms are charted. Mariners are urged to exercise caution when transiting the area.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:

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 D
CAUTION
Entry into the Kenai River should only be attempted with local knowledge due to shifting sand bars. In addition, there are numerous uncharted seasonal mooring buoys located in the Kenai River.

NOTE E
CAUTION
Cook Inlet, Eastern Portion
Numerous uncharted and dangerous submerged boulders exist in the eastern portion of Cook Inlet. Mariners should use extreme caution in this area.

NOTE F
Kasilof River Channel Light and nine red or green buoys mark the entrance channel into Kasilof River and are maintained from May 1 to November 1 each year. These buoys are moved each year as channel conditions dictate.
Caution: The Kasilof River entrance channel should be only used with local knowledge. Dangerous seas are reported to exist in or near the channel.

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 of 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.

CAUTION
Mariners should be aware of a tidal bore beginning in the vicinity of Goose Bay that heads northward up Knik Arm at a velocity of 2-3 knots and an average height of 18 inches. In addition, it is noted that this area is highly susceptible to shifting mud flats and continual change.

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.

TUXEDNI BAY
The shifting of rocks and the possibility of uncharted rocks may exist in Tuxedni Bay west of longitude 152°40'W. The mariner should use caution when navigating in this area.

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.

16660
31st Ed., Apr. 2012. Last Correction: 10/26/2015. Cleared through:
LNM: 4916 (12/6/2016), NM: 5116 (12/17/2016), CHS: 1116 (11/25/2016)

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.

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

SOUNDINGS IN FATHOMS
(FATHOMS AND FEET TO 11 FATHOMS)

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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	19	20
FEET	0	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
METERS	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Cook Inlet, Northern Part
SOUNDINGS IN FATHOMS - SCALE 1:194,154

16660

JOINS CHART 16640

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