C-193-361

Mercator Projection N. A. Datum of 1927

(CONTINUED ON CHART 8079)

(CONTINUED ON CHART 8075)

(CONTINUED ON CHART 8076)

(CONTINUED ON CHART 8078)

(CONTINUED ON CHART 8077)

(CONTINUED ON CHART 8075)

(CONTINUED ON CHART 8076)

(CONTINUED ON CHART 8078)

(CONTINUED ON CHART 8077)

WIRE DRAGGED AREAS

The area tinted green has been swept by wire drag to a depth which in deep waters materially exceeds the draft of the largest vessels. In shoal waters the drag was set to pass as close as practicable to the bottom.

SOUTHEAST ALASKA

TONGASS NARROWS

SOUNDINGS IN FATHOMS
AT MEAN LOWER LOW WATER

Nautical Miles

Yards

TIDES (referred to mean lower low water)

	Ketchikan	Ward Cove	Vallenar Bay
Mean higher high water	15.4 ft.	15.7 ft.	15.5 ft.
Mean sea level	8.0 ft.	8.2 ft.	8.0 ft.
Lowest tide to be expected	–5.0 ft.	–5.0 ft.	–4.5 ft.

Feb. 1967

ABBREVIATIONS (For complete list of Symbols and Abbreviations, see C. & G. S. Chart No. 1):

Lights: *F. fixed, FL. flashing, Qk. quick, I. Qk. interrupted quick, S.L. short-long, Occ. occulting, Alt. alternating, Gp. group, W. white, R. red, G. green, m. nautical miles, min. minutes, sec. seconds, ew. everg. D. destroyed, to be reestablished; vis. visible; Sec. sector; Obsc. obscured, AERO. aeronautical light. Lights are white unless otherwise indicated.*

Buoys: *C. can, N. nun, S. spar, Ref. reflector; T.B. temporary buoy. Day Beacons: ▷, white unless otherwise indicated.*

R. Bn. radiobeacon.

C.G. Coast Guard Station; R. Tr. radio tower; D.F.S. distance finding station.

Cr. clog, Co. coral, G. gravel, Grs. grass, M. mud, Rk. rock, S. sand, Sh. shells, bk. black, br. brown, bu. blue, gn. green, gy. gray, rd. red, wh. white, yl. yellow, hrd. hard, rky. rocky, sft. soft, stk. sticky.

23 Wreck, rock or obstruction sweet clear to the depth indicated.
(2) Rocks that cover and uncover, with heights in feet above datum of soundings.
P.D. position doubtful; I.D. existence doubtful; Obstr. obstruction.

HEIGHTS *in feet above mean high water.*

AUTHORITIES

Hydrography and topography by the Coast and Geodetic Survey.

RADIOBEACON SIGNALS

For schedule of operations see Light List and for changes see Notice to Mariners.

Stations	Signals
Guard Islands Lighthouse	*Gp 1 dot and 3 dashes for 60 sec., silent 120 sec.*

1 REVILLA HOTEL CUPOLA
2 EPISCOPAL CHURCH SPIRE
ENGINE HOUSE CUPOLA
3 LONE FLAGSTAFF
4 WHITEHOUSE, BIG, S. GABLE
5 MAGNETIC STATION

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY
WASHINGTON, D.C.

March 1979

TRIANGULATION DIAGRAM

(Not For Navigational Purposes)

HORIZONTAL CONTROL

- ○ Monumented Point or Located Object
- 4 See separate index for names of numbered stations
- SPOOK Station reported not recovered
- Measured Base - Electronic or Taped
- Line of triangulation observed
- Line of triangulation observed from one end only

Information may be obtained from the Director, National Geodetic Information Center, National Ocean Survey, N.O.A.A., Rockville, Md. 20852

5000 0 5000 10000 15000 Feet

Nautical Miles

Yards

GUARD ISLAND LIGHTHOUSE (1930)
GUARD ISLAND LIGHTHOUSE (1912)
GUARD ISLAND
SIN
VAL
VAL 2
BLUE
RUN
ROSA
ROSA REEF LIGHT (1951)
SABE
CHALK
DECOY
NELL
ABIDE
CHANNEL ISLAND LIGHT (1951)
TUNGA
WRONG
SIM
BEACON (1914)
PENINSULA PT. DAYBEACON (1955)
CORB 2
CORB
MAG (KETCHIKAN MAG STA)
PREACH
NEMO
NEMO 2
LEWIS REEF LIGHT (1951)
LEWIS REEF LIGHT (1930)
LEE
YINA
BOFE
CHIM
DAGO
KETCHIKAN W. WIRELESS TOWER
KETCHIKAN N. WIRELESS TOWER
KETCHIKAN E. WIRELESS TOWER
DIG
BO
DUTCH
GREEN
SPIT
TANGO
ISLE
ISLE 2
ROOT
KETCHIKAN NW. BASE
KETCHIKAN SE. BASE
RAIN
NEW
MATE
TIDE STAFF
FIRST
RED
HICK
MILL
SALTERY W. GABLE
MID
FOOL
HIGH
LONG
VERNEY
LOW
SAXMAN CHURCH SPIRE
SAXMAN
GRAVE
WIND
WIND 2
SUN
RUBY
WASH
WASH 2
PENN
TEMP
PENNY
NEAR
WET
NOC 2
NOC CAT
OUT
MENA
WORK
NET
HAUL
TREE
LAST
SHIFT
ROSE
MOUNTAIN POINT LIGHT (1962)
MOUNT
VIEW
POLE
VILLAGE
CUTTER ROCKS DAYBEACON, WEST CORNER (1962)
CUTTER ROCKS DAYBEACON, ECC. (1962)
SPINDLE 2
SPIRE ISLAND REEF LIGHTHOUSE (1914)
Spire 1
SUB
FAWN
HAT
WIG
CITY
BE
SEAL
AY
BLANK
BLANK ISLAND LIGHTHOUSE (1914)
WAL
WALDEN
DEN
PLUG
BARE
ANVIL MT. (MT. E)
GRAVINA
PUG
SOUTH VALLENAR
COFFEE
CAMP
GSB
STOP
TRAP
REVILLAGIGEDO ISLAND, RADIO STATION KABI, TOWER
GAX 2
GNX
DEER MT. (KETCHIKAN PEAK 1)
DOE MT. (KETCHIKAN PEAK 3)
HOUSE MT. (PEAK 6)
CURVE MT. (PEAK 5)
NIPPLE MT. (PEAK 4)
PLAIN MT. (PEAK 3)
SPOT MT. (PEAK 2)
HIGH MTN.
Pt. Higgins
Vallenar Pt.
Rock Pt.
Mud Bay
Wacker
Ward Cove
Ketchikan
Tongass Narrows
Revillagigedo Island
Gravina Island
Vallenar Bay
Inside Passage
Clarence Strait
Behm Canal
Tongass Passage
Blank Inlet
Ketchikan Lake
Whipple Cr.
Grant Cr.
Charcoal Pt.
Brown Mt.
Diana Mt.
Minerva Mt.
Fish Mt.
Achilles Mt.
Buck Mt.
Fawn Mt.
Judy Hill
Signal Mt.
Jump Mt.
Sullivan Mt.
Wood Mt.
Bush Hill
Mountain Pt.
Gravina Pt.
Race Pt.
Walden Pt.
Blank Pt.
Spot Mt.
Nipple Mt.
Plain Mt.
Curve Mt.
House Mt.
Flat Mt.
Anvil Mt.
Red Mt.
Deer Mt.
Doe Mt.
Fawn Mt.
Lake Whitman
Bering Bay
Ward Lake
Judy Lake
Mud Bay
Vallenar Bay
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ENGINE HOUSE CUPOLA
3 LONE FLAGSTAFF
4 WHITEHOUSE, BIG, S. GABLE
5 MAGNETIC STATION

WARD COVE HOUSE, WEST GABLE
SALMON BY-PRODUCTS CO. PLANT, STACK
BABEL
DOCK
WARDS COVE CANNERY, FLAGSTAFF
SCHOOLHOUSE CUPOLA
COURTHOUSE FLAGSTAFF
CATHOLIC CHURCH SPIRE
CANNERY PT.
HILL
Cannery
OIL
Tidal Inlet
Fredenburgh Cove
Cove Mt.
Sawmill
Nakman
Loon Lake
Lake Harbor
Lake Entrance
Lake Point
Lake Island
Lake Bay
Lake Cove
Lake Short
Lake Sun
Lake Ruby
Lake Wet
Lake Out
Lake Mena
Lake Work
Lake Net
Lake Haul
Lake Tree
Lake Last
Lake Shift
Lake Rose
Lake Mountain
Lake View
Lake Pole
Lake Village
Lake Penn
Lake Temp
Lake Penny
Lake Near
Lake Noc 2
Lake Noc Cat
Lake Wash
Lake Wash 2
Lake Wind
Lake Wind 2
Lake Sun
Lake Ruby
Lake Wet
Lake Out
Lake Mena
Lake Work
Lake Net
Lake Haul
Lake Tree
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Lake View
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Lake Village
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Lake Temp
Lake Penny
Lake Near
Lake Noc 2
Lake Noc Cat
Lake Wash
Lake Wash 2
Lake Wind
Lake Wind 2
Lake Sun
Lake Ruby
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