Formerly C&GS 5984 1st Ed., June 1892 D-1953-821 KAPP 1796

COOS BAY, ISTHMUS SLOUGH AND CHARLESTON CHANNEL DEPTHS
TABULATED FROM SURVEYS AND REPORTS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2013 AND SURVEYS TO OCT 2013

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW): LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS: WIDTH (FEET)	LENGTH (MILES)	DEPTH (FEET)
ENTRANCE RANGE	35	40	40	9-13	---	1.9	37
ENTRANCE RANGE AND TURN	36	42	37	10-13	300	0.8	37
COOS BAY INSIDE RANGE	38	38	38	10-13	300	0.8	37
COOS BAY RANGE	37	38	37	10-13	300	0.9	37
EMPIRE RANGE	35	38	30	7-13	300-800	2.3	37
LOWER JARVIS RANGE	33	37	21	10-13	300-800	1.1	37
JARVIS TURN RANGE	43	40	38	10-13	300	0.6	37
UPPER JARVIS RANGE A	38	36	37	10-13	300	1.0	37
UPPER JARVIS RANGE B	35	37	33	10-13	400	1.4	37
NORTH BEND LOWER RANGE	37	39	37	10-13	400	0.4	37
RANGE AND TURN	34	39	37	10-13	500	0.4	37
NORTH BEND RANGE	26	38	36	5-13	400	1.1	37
NORTH BEND UPPER RANGES	27	37	37	5-13	400	0.8	37
LOWER TURNING BASIN	26	32	29	5-13	800	0.5	37
FERNDALE LOWER RANGE	30	38	35	7-13	400	0.4	37
FERNDALE TURN	25	36	36	7-13	400	0.1	37
FERNDALE UPPER RANGE	8	30	28	7-13	400	0.9	37
MARSHFIELD RANGE	32	33	23	7-13	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	23	16	28	7-13	400-600	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22
CHARLESTON CHANNEL							
ENTRANCE	13	18	9	9-13	150	0.3	17
ENTRANCE TO BASIN	13	17	10	9-13	150	0.4	17
BASIN	15	15	1	9-13	250-500	0.2	16
BASIN TO BRIDGE	10	11	12	9-13	150	0.3	16

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

TIDAL INFORMATION

PLACE: NAME	(LAT/LONG)	Height referred to datum of soundings (MLLW): Mean Higher High Water	Mean High Water	Mean Low Water
		feet	feet	feet
Coos Bay	(43°23'N/124°13'W)	7.3	6.7	1.1
Empire	(43°24'N/124°17'W)	6.7	6.0	1.1

Dashes (- - -) 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.
(Feb 2011)

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, Oc 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, WHIS whistle, Y yellow
Bottom characteristics:
Blds boulders, bk broken, Cy clay, Co coral, G gravel, Grs grass, gy gray, h hard, M mud, Oys oysters, Rk rock, S sand, so soft, Sh shells, sy sticky
Miscellaneous:
AUTH authorized, ED existence doubtful, Obstn obstruction, PA position approximate, PD position doubtful, Rep reported, Subm submerged
21 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.
COLREGS: International Regulations for Preventing Collisions at Sea, 1972.
Demarcation lines are shown thus:

71st Ed., Apr. / 11 Corrected through NM Apr. 16/11 Corrected through LNM Apr. 05/11

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.

This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

LOGARITHMIC SPEED SCALE
To find SPEED, place one point of dividers on distance run (in any unit) and the other on minutes run. Without changing divider spread, place right point on 60 and left point will then indicate speed in units per hour. Example: with 4.0 nautical miles run in 15 minutes, the spread is 16.0 knots

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	FEET	METERS

Coos Bay
SOUNDINGS IN FEET - SCALE 1:20,000

NSN 7642014011579 NGA REFERENCE NO. 18BHA18587 ED. NO. 71

Corrected through
LNM: 0314 (1/21/2014), NM: 0514 (2/1/2014), CHS: 1213 (12/27/2013)
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