THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

CALIFORNIA - WEST COAST

SUISUN BAY

Mercator Projection
Scale 1:40,000 at Lat. 38°07'

North American Datum of 1983
(World Geodetic System of 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

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

SCALE 1:40,000

Nautical Miles 0 1 2 3

Yards 1000 0 1000 2000 3000 4000 5000

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
Suisun City	(38°14'N/122°02'W)	5.4	4.9	0.7
Antioch	(38°01'N/121°48'W)	3.9	3.4	0.6
Benicia	(38°03'N/122°08'W)	5.3	4.8	0.8
Martinez	(38°01'N/122°08'W)	5.3	4.8	0.8
Suisun Slough Entrance	(38°01'N/122°04'W)	4.7	4.2	0.7
Montezuma Slough Bridge	(38°11'N/122°00'W)	4.9	4.4	0.7

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. (Jun 2010)

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
Gp group
int 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
Rn 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:

Bld boulders
bk broken
Cy clay
Co coral
G gravel
Grs grass
gy grey
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

Wrecks, rock, obstruction, or shoal swept clear to the depth indicated.
Rocks that cover and uncover, with heights in feet above datum of soundings.
COLREGS: International Regulations for Preventing Collisions at Sea, 1972.

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.

CAUTION

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

CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

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.

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.

Mt. Pise, CA KHB-49 162.400 MHz WX2
Sacramento, CA KEC-57 162.550 MHz WX1

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 7 for important supplemental information.

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.

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

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 7. 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, 11th Coast Guard District in Alameda, California or at the Office of the District Engineer, Corps of Engineers in San Francisco, California.
Refer to charted regulation section numbers.

NOTE B

The area within one hundred yards of the southern end of Mare Island and within 50 yards of any part of the berthing piers at the Navy Yard including pier 35 at the south end of Mare Island is a Prohibited Area 334.1100 (See Note A).

NOTE C
UNION PACIFIC BRIDGE

The clearance of the lift span is 70 feet above mean higher high water when down and 135 feet when raised. Horizontal clearance 291 feet.
Fixed red lights are shown to mark the piers supporting the spans that adjoin the lift span. A fixed green light is shown to mark the middle of each of those spans. Flashing red lights are shown from the top of the middle of those spans and from the top of the northern lift tower.

NOTE D

CAUTION

Mariners are warned that numerous uncharted piles, snags, pumps, and piers, some submerged, may exist along the edges of the waterway.

NOTE E

The U.S. Coast Guard operates a mandatory Vessel Traffic Services (VTS) system in the San Francisco Bay and surrounding areas. Vessel operating procedures and designated radiotelephone frequencies are published in 33 CFR 161, the U.S. Coast Pilot, and/or the VTS User's Manual. The entire area of the chart falls within the Vessel Traffic Services (VTS) system.

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 0.291" southward and 3.871" westward to agree with this chart.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been bandied 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.

SOURCE

A	1990-2016	NOS Surveys — full bottom coverage
B1	1990-1991	NOS Surveys — partial bottom coverage
B2	1970-1989	NOS Surveys — partial bottom coverage
B5	Pre - 1990	NOS Surveys — partial bottom coverage

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.

SUISUN BAY
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2017

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT HALF QUARTER	MIDDLE HALF QUARTER	RIGHT HALF QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUTICAL MILES)	DEPTH (FEET)
SUISUN PT. REACH	46.2	49.9	51.0	7-17	300	0.8	35
BULLS HEAD CHANNEL	39.0	38.4	35.8	10-17	350-300	1.0	35
EAST BULLS HEAD CHANNEL	36.5	35.4	35.0	10-17	350	1.1	35
PT. EDITH CHANNEL RANGE	35.8	35.1	35.0	10-17	350	1.1	35
PRESTON PT. REACH	34.3	35.1	30.7	10-17	350	0.9	35
ROE ISLAND CHANNEL	33.7	35.1	30.1	10-17	350	1.1	35
PORT CHICAGO REACH	37.8	37.5	36.8	2-17	350	0.52	35
MIDDLE GROUND CHANNEL							
WEST REACH	36.0	37.0	35.0	2-17	350	1.29	35
EAST REACH	36.0	37.0	35.0	2-17	350	1.09	35
NEW YORK SLOUGH							
WEST REACH	31.0	34.0	35.0A	7-17	400	1.3	35
EAST REACH	34.0	35.0	34.0	7-17	400	1.7	35

A: AN OBSTRUCTION WITH A DEPTH OF 35 FEET BLOCKED AT 38°02'41.2" N 121°50'31.32" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

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

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)

SACRAMENTO RIVER
DEEP WATER SHIP CHANNEL
162.200 (see note A)

Controlling depth for a width of 200 feet was 25.0 feet from the channel entrance (38°03'46.7"N, 121°51'17"W) to Lt. "40", thence 26.0 feet to Lt. "52", thence 31.0 feet to Lt. "60", thence 26.0 feet to the turning basin and 26.0 feet in the turning basin at West Sacramento.

April 2014

The Sacramento River Deep Water Ship Channel lights are equipped with radar reflectors.

SCALE 1:40,000

Nautical Miles 0 1 2 3

Yards 1000 0 1000 2000 3000 4000 5000

JOINT CHART 18654

JOINT CHART 18661

JOINT CHART 18661

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

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