SOUNDINGS IN FEET

18659

Formerly C&GS 5576, 1st. Ed., Aug. 1953 Gr-1953-831 KAPP 1852

CONTINUED ON CHART 18658

121° 55' 54' 53' 52' 51' 121° 50' 49'

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.

SOURCE

A	1990 - 2012	NOS Surveys	full bottom coverage
B1	1990 - 1991	NOS Surveys	partial bottom coverage

SCALE 1:10,000
Nautical Miles
Yards

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.

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 unit if telephone communication is impossible (33 CFR 153).

NOTE C
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.

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

HONKER BAY
GENERAL ANCH AREA NO. 27 110.224(see note A)
VAN SICKLE ISLAND
CHIPPS ISLAND
SUISUN BAY
Spoonbill Creek
Spoonbill
BRIDGE RUNS NOR. CL 36 FT
Montezuma Slough
Dutton
Spinner Island
Collinsville
Montezuma Island
Marshall Cut
Chain Island
SACRAMENTO RIVER
Pt Sacramento
Fraser Shoal
SHERMAN ISLAND
SHERMAN LAKE
Middle Slough
WINTER ISLAND
Broad Slough
SAN JOAQUIN RIVER
BROWNS ISLAND
Pt Emmett
WEST REACH
New York Slough
EAST REACH
Pt Beenar
Pittsburg Pt
PITTSBURG
Pittsburg Landing
KIMBALL ISLAND
Cabin Slough
Mallard Island
Mallard Slough
Willow Creek
ANTIOCH
Pt San Joaquin
Pt Wall
Chipps
Ryer Island
Cable area
Pipeline Area

SAN FRANCISCO BAY VESSEL TRAFFIC SERVICES AREA (see note C)

REGULATED NAVIGATION AREA 165.1181 (see note A)

SACRAMENTO RIVER DEEP WATER SHIP CHANNEL PROJECT DEPTH 30 FEET (see note)

STOCKTON DEEP WATER CHANNEL (see chart 18661)

Fl G 6s 10ft 4M "31"
Fl R 2.5s 20ft 3M "28"
Fl R 4s 8ft "2" Pile
Fl G 4s 25ft "1" Pile
Fl R 4s 11ft "4" Pile
Fl G 4s 20ft 4M "4"
Fl G 2.5s 18ft 4M "5"
Fl G 4s 10ft 4M "11"
Fl G 2.5s 15ft 3M "3"
Fl R 2.5s 15ft 3M "6" Ra Ref
Fl G 2.5s 15ft 4M "33"
Fl R 2.5s 15ft 3M "34" Ra Ref
Fl R 4s 10ft 4M "8"
Fl G 4s 15ft 4M "7"
Fl R 2.5s 20ft 4M "6"
Fl G 4s 20ft 4M "2" 25
Fl R 2.5s 20ft 3
Fl R 4s 20ft 4M "6" Ra Ref
Q R 11ft "3"
Q G 11ft "1" Pile
Q R 15ft 3M "8"
Fl G 4s 20ft 4M "35"
Fl R 4s 10ft 4M "10"
Fl G 2.5s 18ft 4M "9"
Fl G 4s 15ft 4M "7"
Fl R 2.5s 20ft 4M "4"
Fl R 2.5s 20ft 3M "10"
Fl G 4s 20ft 4M "3"
Fl R 4s 20ft 4M "5"
Fl G 4s 20ft 4M "1"
Fl R 4s 20ft 4M "2"
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RADIO TOWERS (600/0.990 kHz)

GENERAL ANCH AREA NO. 28 110.224(see note A)

162.205 (see note A)

(see tabulation)

TIDAL INFORMATION

PLACE (LAT/LONG)	Height referred to datum of soundings (MLLW): Mean Higher High Water	Mean High Water	Mean Low Water
	feet	feet	feet
Pittsburg (38°02'N/121°53'W)	4.1	3.6	0.6
Antioch (38°01'N/121°48'W)	4.1	3.6	0.6
Mallard Island Ferry Wharf (38°02'N/121°55'W)	4.1	3.6	0.6
Collinsville, Sacramento River (38°04'N/121°51'W)	4.0	3.5	0.6

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.
(Dec 2013)

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; Ch Racon; F fixed; Fl flashing; G green; Gp group; Iso isophase; LT HO lighthouse; M nautical mile; Mo(A) Morse code; Mon monument; Mor mooring; N nun; OBSC obscured; Oc occulting; Or orange; Oscillating; 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; W white; W Or buoy; W whistle; Y yellow

Bottom characteristics:
Blds boulders; Co coral; br broken; Cr rky; gy gritty; Grs grass; Oys oysters; Rk rock; S sand; so soft; Sh shells; sy sticky; M mud

Miscellaneous:
AUTH authorized; ED existence doubtful; ⚓ 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; Obstrn obstruction; PA position approximate; PD position doubtful; Rep reported; Subm submerged

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 Sacramento, California.
Refer to charted regulation section numbers.

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.

PLANE COORDINATE GRID
(based on NAD 1927)
California State Grid Zone 11, is indicated by dashed ticks at 5,000 foot intervals. The last three digits are omitted.

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. Pisa, CA KHB-49 162.400 MHz WX2
Sacramento, CA KEC-67 162.550 MHz WX1

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)

SUISUN BAY PROJECT DEPTHS (see note)

NAME OF CHANNEL	PROJECT DEPTH (feet)
NEW YORK SLOUGH	
WEST REACH	35
EAST REACH	35

PROJECT DEPTHS
Channel legends and tabulations, where indicated, reflect the U.S. Army Corps of Engineers (USACE) project depths. The channel may be significantly shoaler, particularly at the edges. For detailed channel information and minimum depths as reported by USACE, use NOAA Electronic Navigational Charts. USACE surveys and channel condition reports are available at http://navigation.usace.army.mil/Survey/Hydro.

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.

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

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

THE NATION'S CHARTMAKER SINCE 1807

UNITED STATES

CALIFORNIA - WEST COAST

SUISUN BAY

MALLARD ISLAND TO ANTIOCH

Mercator Projection
Scale 1:10,000 at Lat. 38°03'

North American Datum of 1983
(World Geodetic System 1984)

SOUNDINGS IN FEET
AT MEAN LOWER LOW WATER

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

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.

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 of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.28" southward and 3.843" westward to agree with this chart.

SCALE 1:10,000
Nautical Miles
Yards

18659

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 chart is canceled. No new editions will be issued.

16th Ed., Jan. 2011. Last Correction: 10/4/2021. Cleared through:
LNM: 1/20 (5/25/2021) NM: 14/21 (4/2/2021)
Caution: Ensure that this chart was printed at the proper scale, the line below should measure six inches (152 millimeters).

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

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

SOUNDINGS IN FEET

Suisun Bay, Mallard Island to Antioch
SOUNDINGS IN FEET - SCALE 1:10,000

18659