

F00069

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NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SERVICE	
DESCRIPTIVE REPORT	
Type of Survey	Field Examination
Field No.	
Registry No.	F00069
LOCALITY	
State	California
General Locality	Carquinez Strait
Sublocality	Suisun Bay
.....	
1948	
CHIEF OF PARTY	
.....	
LIBRARY & ARCHIVES	
DATE	

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.6 1948

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF FIELD EXAMINATION

REGISTRY NO. FE 6 (1948)

FIELD NO. -----

California, Suisun Bay, Carquinez Strait
Surveyed on June 23, 1948
Project No. -----

Scale 1:5,000

Soundings:

808 Fathometer

Control:

Visual fixes on shore signals

Chief of Party - W. M. Gibson
Surveyed by - W. M. Gibson
Boat Sheet Verified by - S. Rose
Reviewed by - G. F. Jordan, October 12, 1948
Inspected by - R. H. Carstens

1. This field examination was made for the purpose of determining the amount of shoaling in the vicinity of the Southern Pacific Railroad Bridge in lat. $38^{\circ} 04.3'$, long. $122^{\circ} 07.2'$, which is shown on Chart 5534.
2. The records include one boat sheet, three sounding volumes, graphic record from 808-Fathometer No. S-111 on launch No. 113, graph showing tide curve drawn from tabulated readings at the tide staff at Army Point and fathometer bar check graph. Correspondence pertaining to this examination is filed as Chart Letter No. 614 (1948). No Descriptive Report accompanied the records.
3. The results of the examination show that considerable shoaling had occurred west of the lift span, where 28-ft. depths now supersede 45-ft. depths on H-6524 and H-6525 of 1940-41. A comparison with H-6525 also shows changes in depths north of the lift span.
4. The latest print of Chart 5534 (9/6/48) incorporates the results of this examination and shows a controlling depth of 29 feet in the dredged channel. Inasmuch as the information from the present examination was applied before verification, it should be noted that the 27-ft. sounding charted at lat. $38^{\circ} 02.32'$, long. $122^{\circ} 07.38'$ is an error and is 40 meters south of comparable depths. The sounding was erroneously scaled from the fathogram and is actually 33 feet.

5. Although this work has not been smooth-plotted, the boat sheet has been verified and is considered to be an adequate plot for this limited survey.

Tide Staff ARMY Pt.
Carguinez Straits MLLW = 3.6

23 June 1948 105 MER. TIME

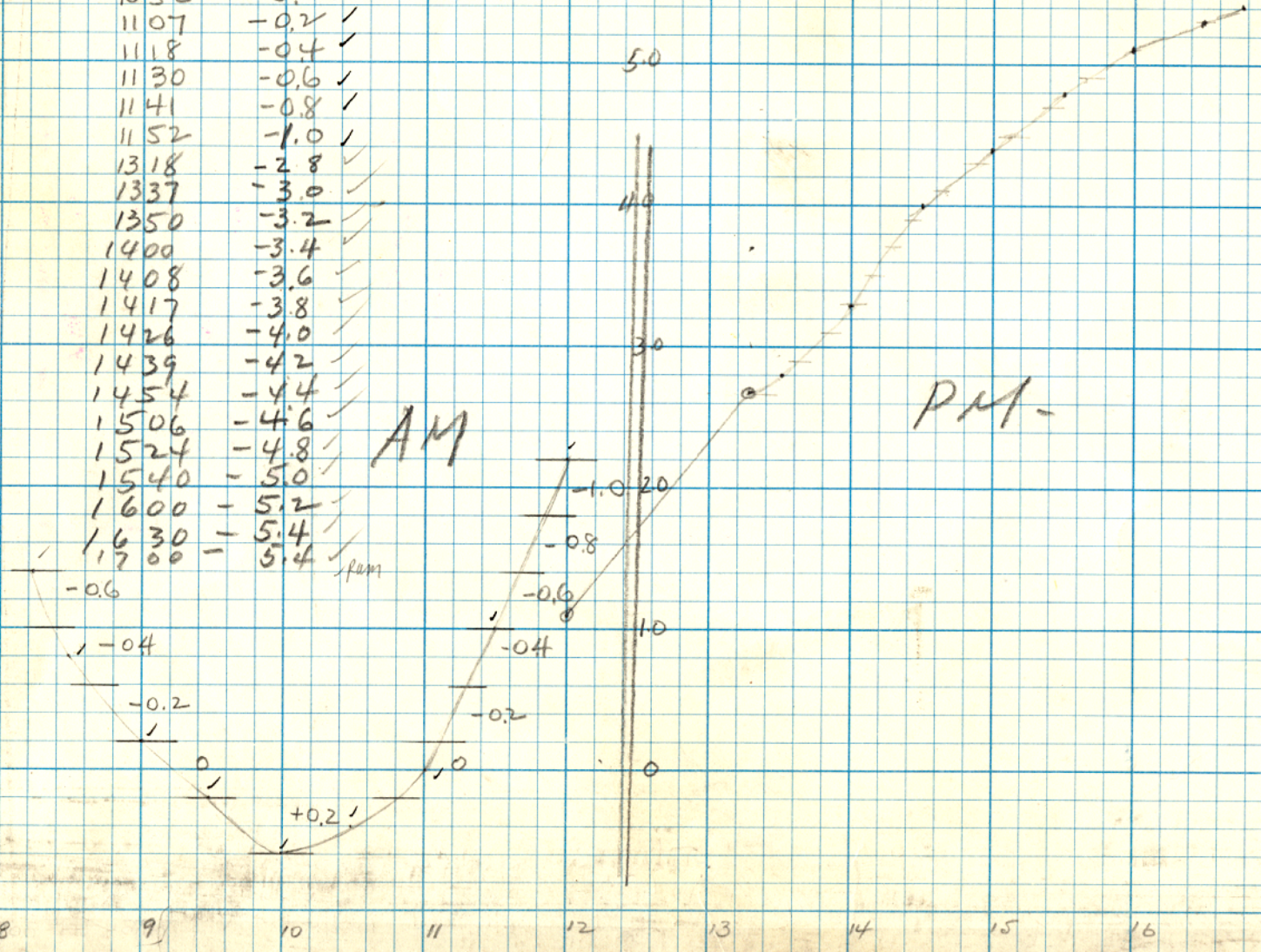
VWNG.

8461 9 III

3.0	0815	-0.6 ✓
	0822	-0.4 ✓
	0839	-0.2 ✓
	0900	0.0 ✓
	0930	+0.2 ✓
	1050	0.0 ✓
	1107	-0.2 ✓
	1118	-0.4 ✓
	1130	-0.6 ✓
	1141	-0.8 ✓
	1152	-1.0 ✓
2.0	1318	-2.8 ✓
	1337	-3.0 ✓
	1350	-3.2 ✓
	1400	-3.4 ✓
	1408	-3.6 ✓
	1417	-3.8 ✓
	1426	-4.0 ✓
	1439	-4.2 ✓
	1454	-4.4 ✓
	1506	-4.6 ✓
1.0	1524	-4.8 ✓
	1540	-5.0 ✓
	1600	-5.2 ✓
	1630	-5.4 ✓
	1700	-5.4 ✓

AM

PM



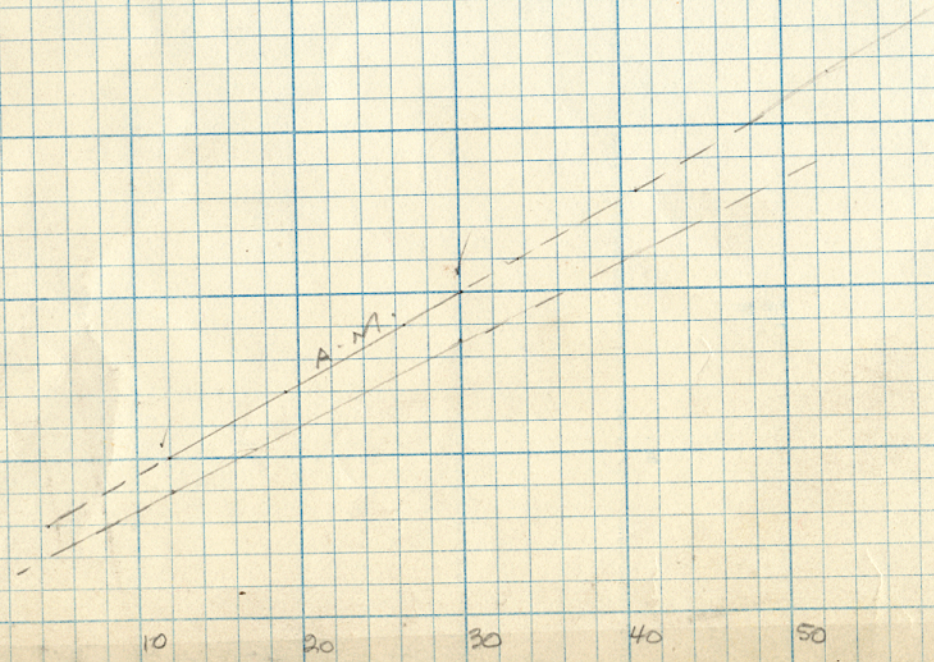
Feb 1948

TIME	PM BAR	INI
12	12.3	INI 2.1
1400	30	31.0
1640	12	12.8 INI 2.4 (12.5)
	30	31.0 (30.7)

Corrections

12	=	-10.4	INI 2.1
30	=	-0.85	

CORRECTION



A.M. bar.

4.4	-0.4	✓
12.0	-0.6	✓
19.0	-0.8	✓
26.6	-1.0	✓
33.6	-1.2	✓
40.8	-1.4	✓

P.M. BAR

8.5	=	-0.4	✓
16.2	=	-0.6	✓
24.2	=	-0.8	✓
32.2	=	-1.0	✓
40.4	=	-1.2	✓

P.M.

1. EMC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography:~~

September 13, 1948

Division of Charts: R. H. Carstens

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET FE 6 1948

Locality Suisun Bay - Carquinez Strait, California.

Chief of Party: W. M. Gibson in 1948

Plane of reference is mean lower low water, reading
5.5 ft. on tide staff at Presidio, San Francisco
13.5 ft. below B. M. 180 (1936)

Height of mean high water above plane of reference is 5.1 feet.

NOTE: These tide reducers were checked by means of San Francisco observations using the following allowances for time and range at the working grounds:

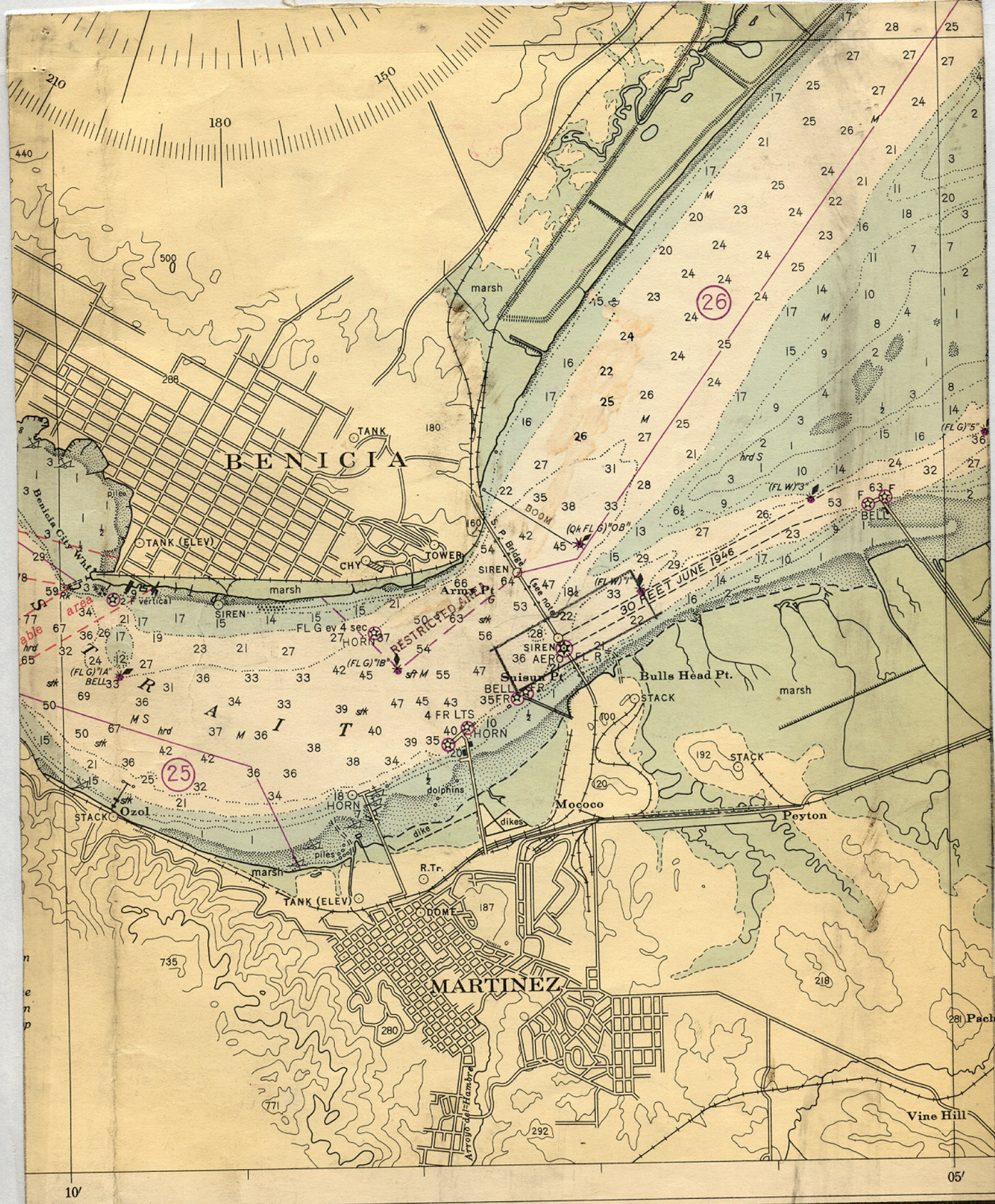
<u>Time difference</u>	<u>Ratio of range</u>
+2 hrs. 20 mins.	1.1

Condition of records satisfactory except as noted below:

5872

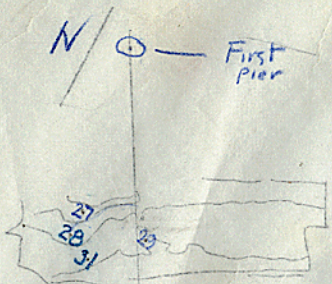
E. C. McKay
Section
Chief, Division of Tides and Currents

FE 6 1948



Section of chart 5534 FE 6 1948

FEF 6
1948



see CL 614 (1947)
~~not in files~~

Sept 13 1948

LOCALITY: Suisun Bay - Carquinez Strait, California.
C of P. : W. M. Gibson
PLANE OF REFERENCE: M L L W reading 5.5 ft on staff
at PRESIDIO, San Francisco.
13.5 ft. below B.M. 180 (1936)

Height of mean high water above plane of reference is 5.1 feet.

Note: These tide reducers were checked by means of San Francisco observations using the following allowances for time and range at the working grounds.

Time difference	Ratio of range
plus 2 hrs. 20 mins.	1.1

error
should be 33
9/10/48



SOUTHERN PACIFIC RR BRIDGE

U.S. COAST & GEODETIC SURVEY
Ship BOWIE W.M. Gibson, Comdg.
Scale 1:5000
Field examination at Southern Pacific RR bridge Carquinez Strait--Suisun Bay

27 June 1948 Soundings in feet at MLLW
Subject to verification by Washington Office

Approximate Projection
from
T-6735

Scale of this print 1:10000

Az. of bridge
330 T from chart

see CL 614 (1948)
that in files

Sept 13 1948

LOCALITY: Suisun Bay - Carquinez Strait, California.
C of P. : W. M. Gibson
PLANE OF REFERENCE: M L L W reading 5.5 ft on staff
at PRESIDIO, San Francisco.
13.5 ft. below B.M. 180 (1936)

Height of mean high water above plane of reference is
5.1 feet.

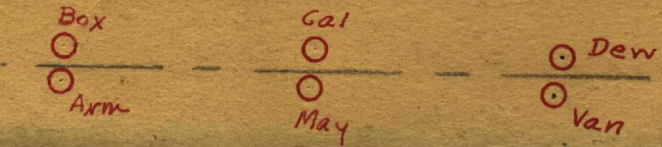
Note: These tide reducers were checked by means of
San Francisco observations using the following
allowances for time and range at the working
grounds.

Time difference Ratio of range
plus 2 hrs. 20 mins. 1.1

error
should be 33
97
9/10/48



SOUTHERN PACIFIC RR BRIDGE



Az. of bridge
330 T from chart
Abe
(6 first pier)

U.S. COAST & GEODETIC SURVEY
Ship BOWIE W.M. Gibson, Comdg.
Scale 1:5000
Field examination at Southern
Pacific RR bridge Carquinez
Strait--Suisun Bay

23 June 1948. Soundings in feet at MLLW
(Army Pt. Benicia.)
Subject to verification by
Washington Office

Approximate Projection
from
6735

W. 122° 07'

Nig-Nap-Low-Age
main channel
under lift span

Scale of this print 1:4000

29 1/2

11000

N 30° 00' E

W. 122° 07'