

5925

Diag'd. on Diag. Ch. No. 5530-4

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Planimetric shoreline

Field No. T-5925 Office No. Shoreline

LOCALITY

State California

General locality San Francisco Bay

Locality Berkeley

1946

CHIEF OF PARTY

Lieut. Comdr. George E. Morris, Jr.

LIBRARY & ARCHIVES

DATE October, 1948

B-1870-1 (1)

5925

DATA RECORD

T- 5925

Quadrangle (II):

Project No. (II): CS 262-C

Field Office: San Francisco, Calif.

Chief of Party: E.J. Pagenhart

Compilation Office: Tampa, Fla.

Chief of Party: George E. Morris, Jr.

Instructions dated (II III): 8 Feb. 1944

Copy filed in Descriptive
~~Report No. T-~~ (VI)
 Div. of Photogram. Office Files

Completed survey received in office: 31 Oct., 1946

Reported to Nautical Chart Section:

Reviewed: Oct 17, 1947 Applied to chart No. 5532 Date: 23 Mar. 1948

Redrafting Completed: 12 Jan. 1948

Registered: 16 April, 1948

Published: Shoreline (Vault copy)

Compilation Series: 1: 10,000

Published Scale: 1:10000

Scale Factor: (III): None

Geographic Datum (III): N.A. 1927

Datum Plane (III): M.H.W.

Reference Station (III): Radio Tower KRE, 1938

Lat.: $37^{\circ} 50' 58.312$ (1797.8m.) Long.: $122^{\circ} 17' 43.753$ (1069.7m.)
 (non-adjusted)

State Plane Coordinated (VI): 2nd & 3rd Zone

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
14031	6/2/43	2:30		4.4 Feet
14032	6/2/43	2:30		4.4 Feet
14033	6/2/43	2:30		4.4 Feet
6365	9/3/41	12:17	1: 10,000	5.07 Feet
6366	9/3/41	12:17		5.07 Feet
6367	9/3/41	12:17		5.07 Feet
6368	9/3/41	12:17		5.07 Feet
2382	9/3/41	12:17		4.48 Feet
2383	9/3/41	12:17		4.48 Feet

From 9/2/41 San Francisco Bay

+ 8 Single-lens

Diurnal

Mean Range:

Mean Range:

Camera: (kind or source) U.S.C. & G.S. 9-lens -81/4 focal length

Field Inspection by: C.A Kester

date: 1944

Field Edit by: None

date:

Date of Mean High-Water Line Location (III): Date of Photographs

Projection and Grids ruled by (III) S.R.E B.R.C.

date: 13 Dec. 1944

" " " checked by: B.R.C.

date: 15 Dec. 1944

Control plotted by: M.M. Slavney

date: 5/28/45

Control checked by: B.H. Lyon

date: 5/29/45

Radial Plot by: D. G. Singleton

date: 4/5/45

Detailed by: W.W. Dawsey

date: May-Aug. 1946.

Reviewed in compilation office by: J.A. Giles

date: Aug. 1946.

Elevations on Field Edit Sheet
checked by:

date:

STATISTICS (III)

Land Area (Sq. Statute Miles): 4.7

Shoreline (More than 200 meters to opposite shore): 8.4

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established: 18

Number of Temporary Hydrographic Stations located by radial plot: None

Leveling (to control contours) - miles: None

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname
and initials (not initials only).

Remarks:

MAIN RADIAL PLOT
SHEET T-5925
PROJECT C.S. 262-C CALIFORNIA

The projection for this sheet was received in this office on 16 December 1944. Control was carefully plotted and checked by members of the Control Section, using the beam compass and meter bar method.

A circle with 14-inch radius, was drawn upon each photograph in order to facilitate use of the central portion of each photograph in preference to the outer extremities. Pass points were picked as nearly as possible in a regular scheme of quadrilaterals, 5-inches on a side, in order to strengthen the graphic control scheme. Extreme care was exercised in plotting primary control on the photographs and this was done without regard for the 14-inch circle.

All azimuths between centers were established by means of the stereoscope and radial lines method.

The photographs used for this plot were printed on unmounted positype paper; therefore, it was necessary to treat for the effect of paper distortion. This has been accomplished by means of the distortion templet, constructed from non-shrinking vinylite material.

Discussion of the main radial plot follows:

A. CONTROL

The following control stations were used to control this plot:

- Berkeley, incinerator Stack, 1916 - 1917
- Campsile, 1916 (*East of detailed area*)
- Oakland, Peet Bros., Stack, 1916-1917
- Radio Tower, K.R.E. 1938
- West Berkeley Eldorado Oil Co., W.T. 1932
- Yerba Buena Power Co., Concrete Chimney, 1916-17
- Emeryville Judson Iron Works Center Stack, 1925

Oakland Mole, High Tank, 1938 was used for control but falls outside the limits of the map manuscript.

The control stations were fairly well distributed, and since they were natural objects, easily identified; control for the radial plot may be considered excellent.

B. PHOTOGRAPHS

The following nine-lens photographs were used in this plot:

6365,	6386,
6366,	14031,
6367,	14032,
6368,	14033,
6385,	14034.

The photograph coverage was sufficient for a radial plot but considerable time elapsed between the 63 hundred series and the 14 thousand series. The coverage of the most recent series, the 14 thousand, is sufficient to fix points where changes are apparent.

C. CLOSURE AND ADJUSTMENT:

Regular procedure was followed in laying templets, with strongest fixes first, then progressively laying through templets with weaker fixes. Tilt was not sufficient to warrant computation.

All azimuths to adjacent centers were held and excellent intersections were obtained throughout.

D. AREAS OF QUESTIONABLE ACCURACY:

It is believed that all parts of this plot fall within the limits of prescribed accuracy.

E. GENERAL:

Secondary control was picked on the sheet and shown by double blue inked circles, of 2.8 millimeters, and 1.5 millimeters radii. Centers were shown by double blue inked circles and 4.0 m.m. and 2.8 m.m. radii. The sheet was released to the draftsman for the addition of delineating points which are to be shown in blue ink with 2.0 m.m. circles.

Respectfully submitted,

Bennie H. Lyon
Asst. Photo. Engr.

Approved and forwarded:


George E. Morris, Jr.
Chief of Party.

DESCRIPTIVE REPORT
TO
ACCOMPANY No. T-5925
PROJECT C.S. 262-C

28 DELINEATING:

The detail on this map manuscript has been shown according to the current instructions for this project dated February 1944.

In the delineation of this map manuscript it was necessary to use a 6300 and a 14000 series of nine-lens photographs; the former dated 3 September 1941 and the latter 2 June 1943.

The 14000 series of nine-lens photographs was used wherever possible due to considerable cultural changes since the 6300 series was taken. The 6300 series was valuable in picking common detail points in the areas where the 14000 series was used. If the 6300 series had been of a more recent date it would have been preferable for delineating the shoreline. The photographs of the 14000 series were taken some distance inland causing the detail to be taken from the outer extremities.

The field inspection was not overly adequate but in most instances the features in doubt could be discerned with the help of the stereoscope.

29 SUPPLEMENTAL DATA:

The city map of Berkeley was very helpful. Most of the map manuscript fell within its limits.

30 MEAN HIGH WATER LINE:

The mean high water line was not identified in the field, so it was necessary to employ the use of the stereoscope for an approximate high water line.

31 LOW WATER AND SHOAL LINES:

None were recovered by the field inspector.

32 DETAILS OFF SHORE FROM THE HIGH WATER LINE:

At approximately 37° 50' Latitude and 122° 19' Longitude, just north of the toll building for the Oakland Bay Bridge, the photographs indicate that a land area is being built up by pumping methods.

33 WHARVES AND SHORELINE STRUCTURES:

All structures and wharves have been delineated as shown on the photographs.

34 LANDMARKS AND AIDS TO NAVIGATION:

All landmarks and aids to navigation recovered by field party have been listed on Form No. 567 and made a part of this report.

Three lights were noticed on chart No. 5532, San Francisco entrance, of the entrance to the Berkeley Yacht Harbor, that were not identified on the photographs. A dolphin also was noticed southwest of the tip of the rock jetty, north of the Berkeley Yacht harbor.

Two piles were not identified on the photographs that are shown on chart 5532, just north of the beginning of the Oakland Bay Bridge.

35 HYDROGRAPHIC CONTROL:

Instructions to field party, dated February 1944 state that no hydrographic stations need be selected by them for this project:

36 LANDING FIELDS AND AERONAUTICAL AIDS:

None appear within the limits of this map manuscript.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADS:

Comparison was made with a quadrangle done by the (Corps of Engineers, U.S. Army) 1892-94. A cultural revision was made in 1914. The sheet is quite old and considerable changes have taken place.

USGS
C&GS

45 COMPARISON WITH NAUTICAL CHARTS:

Chart Nos. 5532 and 5535 published by the U.S.C. & G.S. bearing a print date, October 1944 was used for comparison. The shoreline in general compares favorably.

Buildings at the site of the Golden Gate Turf Club were omitted from Nautical Chart No. 5532; location approximately Lat. 37 degrees 53' 48" and Long. 122 degrees 18' 30".

Reference is hereby made to photograph No. 34. A large ferry building (and its approach) at Latitude $37^{\circ} 49' 03''$ Longitude $122^{\circ} 20' 45''$ appearing on the photographs and map manuscript is not shown on above nautical charts.

A small island shown on the nautical charts at Latitude $37^{\circ} 49' 34''$ and Longitude $122^{\circ} 19' 33''$ has been reduced until the small portion remaining gives appearance of a small shoal. Its status was not determined in the field.

Attention is called to another island approximately 1000 meters east of the one mentioned above which gives the appearance of undergoing cultural changes.

Respectfully submitted,

Webber W. Dawsey
Webber W. Dawsey,
Photogrammetric Aid

Approved and forwarded:

George E. Morris, Jr.
George E. Morris, Jr.
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

(This copy for Coast Pilot)

~~NONNAVIGATING/AIDS/OR~~ LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Tampa Photogrammetric Office
Tampa, Fla.

1946

I recommend that the following objects which have ~~(been)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(the charts)~~ the charts indicated.

The positions given have been checked after listing by

R. A. Reese

Lieut. Comdr. George E. Harris, Jr.

Chief of Party.

STATE CALIFORNIA		DESCRIPTION	SIGNAL NAME	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	WOODEN			LATITUDE		LONGITUDE							
				D. M. METERS	D. P. METERS	D. M. METERS	D. P. METERS						
TANK	WOODEN	205	NONE	37° 49'	1602	122° 17'	469	H.A. 1927	1942	X			5532 ✓ 5535
CHI	YERBA BUENA POWER COMPANY CONCRETE CHIMNEY		"	37 49	1215	122 17	380.3	"	1916	X			5532 ✓ 5535
CENTER STACK	EMERYVILLE HUDSON IRON WORKS CENTER ONE OF THREE STACKS		"	37 49	1685.8	122 17	632.4	"	1925	X			5532 ✓ 5535
TOWER	COMPANIES		"	37 52	606.1	122 15	591.5	"	1916	X			5532 ✓ 5535
TANK	ELEVATED (GRAY)	190	"	37 49	91	122 18	1085	"	1942	X			5532 ✓ 5535
STANDPIPE			LUM	37 52	530	122 18	146	"	1938	X			5532 ✓
TANK			INK	37 52	1219	122 18	162	"	1938	X			5532 ✓
TANK			PIP	37 52	1704	122 18	255	"	1938	X			5532 ✓
STACK	BERKELEY INCINERATOR		NONE	37 52	1656.4	122 18	540.7	"	1916	X			5532 ✓ 5535
TANK	SHEWAN TANK		"	37 50	330	122 17	657	"	1942	X			5532 ✓ 5535
TANK	BOOK CO. TANK		"	37 50	662	122 17	392	"	"	X			5532 ✓ 5535
TANK	PABCO		"	37 50	790	122 17	919	"	"	X			5532 ✓ 5535
TANK	PAPER COMPANY		"	37 50	1171	122 17	407	"	"	X			5532 ✓ 5535
TANK	HEINZ		"	37 51	357	122 17	416	"	"	X			5532 ✓ 5535

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

(This copy for Coast Pilot)

TO BE CHARTED

STRIKE OUT ONE

LANDMARKS FOR CHARTS
Tampa Photogrammetric Office
Tampa, Fla. August 1946

I recommend that the following objects which have ~~(been examined)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(determined)~~ the charts indicated.

The positions given have been checked after listing by R. A. Reese

STATE CALIFORNIA										POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE			DATUM											
			°	'	°	'	D. P. METERS												
15 TANK	DURKEE	None	37	51	281	122	17	671	N.A. 1927					1942	X			5532 ✓	
16 STACK	HEIDZ	"	37	51	413	122	17	428	"					"	X			5535 ✓	
17 R. Tr.	RADIO TOWER KRG	"	37	50	1792.8	122	17	1069.7	"					Triang.	1938	X		5532 ✓	
18 STACK	OAKLAND PEET BROS	"	37	51	667.3	122	17	1023.0	"					"	1916	X		5535 ✓	
19 CHY	RED CHIMNEY	"	37	51	1788	122	18	49	"					Topo.	1942	X		5532 ✓	
20 TANK	WEST BERKELEY ELDERADO OIL COMPANY WATER TANK	"	37	52	102.8	122	18	29.6	"					Triang.	1932	X		5532 ✓	
21 TANK	WOODEN See item No 1205	"	37	49.9	1598	122	17.3	468.5	"					Radial PI	1944	X		5535 ✓	
22 STACK	206	"	37	50.6	1184	122	17.5	693	"					"	1944	X		5532 ✓	
23 TOWER	195	"	37	49.1	253	122	17.2	268	"					"	"	X		5532 ✓	
24 STACK	ROUND BRICK - CUTTER LAB. 207	"	37	51.6	1121	122	17.5	754	"					"	"	X		5532 ✓	
25 CHY	RED CHIMNEY See item 19	"	37	52	1789	122	18	41.5	"					"	"	X		5532 ✓	

Chief of Party.

Lieut. Comdr. George E. Morris, Jr.

Chief of Party

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

TO BE DELETED
03/24/79 1319

STRIKE OUT ONE

NONFLORIDIAN/ANDS OR LANDMARKS FOR CHARTS
Tampa Photogrammetric Office
Tampa, Florida

Q

I recommend that the following objects which have ~~(been inspected)~~ been inspected from seaward to determine their value as landmarks, be ~~inspected~~ ^{inspected} the charts indicated.

The positions given have been checked after listing by

Lieut. Comdr. George E. Morris, Jr. *Chief of Party.*

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

GEOGRAPHIC NAMES

Survey No.

T-5925

GEOGRAPHIC NAMES										
Survey No. T-5925										
Name on Survey	<div>On Chart No. On previous survey No. On U. S. quadrangle Maps From local information On local Maps P. O. Guide or Map Rand McNally Atlas U. S. Light List</div>									
	A	B	C	D	E	F	G	H	K	
<u>California</u>									USGB	1
<u>San Francisco Bay</u>									"	2
<u>San Francisco-Oakland Bay Bridge</u>										3
<u>Oakland Outer Harbor</u>										4
<u>Camp Knight</u>										5
<u>Emeryville</u>										6
<u>Berkeley</u>										7
<u>Berkeley Yacht Harbor</u>										8
<u>Berkeley Pier</u>										9
<u>Golden Gate Turf Club</u>										10
<u>State Highway No. 24</u>										11
<u>U.S. 40, U.S. 50</u>										12
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Names underlined in red are approved. 1/8/48 L. Heck

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-5925

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

31. Low-Water and Shoal Lines.

Four small areas, in which the MLLW line was shown on the field inspection photographs, have been added to the map manuscript by the reviewer.

37. Photographs.

Field inspection photograph No. 6386 was not available at the time of review.

44. Comparison with Existing Topographic Quadrangles.

U.S.E., San Francisco, Cal., 15' quadrangle,
1941, scale 1:62,500.

U.S.E., San Francisco, Cal., 15' quadrangle,
1946, scale 1:50,000.

The 1:50,000 scale quadrangle is a copy of the 1:62,500 quadrangle.

These quadrangles were compiled from photographs taken in 1939. The changes, from that time to the date of the photographs used in the compilation of the map manuscript and subsequent photographs, are too numerous to mention.

There are eighteen topographic surveys covering all or part of the area detailed on the map manuscript. The dates of these surveys range from 1852 to 1938. A visual comparison of these surveys with the map manuscript indicated such extensive changes in common features that a written comparison would be of no value to this report. The map manuscript supersedes these surveys on all common features in common areas.

45. Comparison with Nautical Charts:

Chart 5535, scale 1:20,000, First Edition 1926,
Seventeenth Edition 1943 with corrections to 6/16/47.

The planimetry common to both is in good agreement with the following exceptions:

1. At approximate latitudes $37^{\circ}51'00''$ and $37^{\circ}52'00''$ and longitude $122^{\circ}18'00''$ the shoreline of the lagoon disagrees with that on the map manuscript and an island in the lagoon is not shown.

2. The planimetry of the Berkeley Pier disagrees with the map manuscript.

3. At approximate latitude $37^{\circ}50'55''$ and longitude $122^{\circ}17'50''$ a road, running approximately east and west, does not appear on the chart.

4. At approximate latitude $37^{\circ}50'45''$ and longitude $122^{\circ}17'45''$ a pond is being partially filled in.

5. At approximate latitude $37^{\circ}50'30''$ and longitude $122^{\circ}17'50''$ two dolphins are not shown on the chart.

6. At approximate latitude $37^{\circ}50'25''$ and longitude $122^{\circ}17'55''$ the shoreline is in disagreement.

7. At approximate latitude $37^{\circ}49'45''$ and longitude $122^{\circ}17'45''$ the shoreline is in disagreement.

8. At approximate latitude $37^{\circ}49'30''$ and longitude $122^{\circ}18'45''$ the shoreline is in disagreement.

9. At approximate latitude $37^{\circ}49'30''$ and longitude $122^{\circ}18'55''$ one pile and one dolphin do not appear on the chart.

10. There is no record in the descriptive report of a landmark stack at approximate latitude $37^{\circ}49'30''$ and longitude $122^{\circ}17'30''$.

11. Landmark No. 207 does not appear on the chart.

Chart 5532, scale 1:40,000, First Edition 1903, Twenty-sixth 1947 with corrections to 7/7/47.

The planimetry common to both is in good agreement with the following exceptions:

1. At approximate latitude $37^{\circ}52'30''$ and longitude $122^{\circ}18'30''$ an area of shoreline is being changed by filling.

2. A pier and a number of dolphins in the Berkeley Yacht Harbor do not appear on the chart.

3. See item 1 of previous comparison.
4. See item 2 of previous comparison.
5. See item 3 of previous comparison.
6. See item 4 of previous comparison.
7. See item 5 of previous comparison.
8. See item 6 of previous comparison.
9. See item 7 of previous comparison.
10. See item 8 of previous comparison.
11. See item 9 of previous comparison.
12. See item 11 of previous comparison.

This map manuscript has not been applied to nautical charts.

Reviewed by:

Reviewed under direction of:

B. Thomas Hynson
B. Thomas Hynson 10/17/47
Photogrammetrist

S. V. Griffith 10/23/47
S. V. Griffith
Chief, Review Section

APPROVED:

M. J. Jones 5/48
Technical Assistant to the
Chief, Div. of Photogrammetry

H. Stuenkel
Chief, Nautical Chart Br.
Division of Charts

E. S. Jones 15 Oct 48
Chief, Div. of Photogrammetry
Acting

C. H. Green
Chief, Div. of Coastal
Surveys



Section of chart No. 5532

Cable area

11

NAUTICAL CHARTS BRANCH

SURVEY NO. T-5928

Record of Application to Charts

[illegible]

M-2168.1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.