

5922

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo Compilation

Field No. CS-262-C Office No. T-5922

LOCALITY

State California

General locality San Francisco Bay

Locality San Francisco

1945

CHIEF OF PARTY

J.C. Bose

LIBRARY & ARCHIVES

DATE April 25-1949

8-1870-7 (1)

5922

5922

Geographic (II):

Project No. (II):

San Francisco

Chief of Party: E.H. Pagenhart

Tampa, Fla

Chief of Party: J. C. Rose

Photographic Station (II) (III): Feb. 8, 1944

Scale of Station: 1:10,000

Geographic Datum (III): N.A. 1927 Scale Factor (III):

Reference Station (III): South Dutch Windmill, 1916 Datum Plane (III): MHW

37°45'54"204 (1671.1 Meters)

Longitude 122°30'27"308 (668.4 Meters)

Adjusted
~~Unadjusted~~

PHOTOGRAPHS (III)

Order	Date	Time	Scale	Stage of Tide
5483	5/18/41	10:43	1:10,000	+0.3
5484	5/18/41	10:43	1:10,000	+0.3
5485	5/18/41	10:43	1:10,000	+0.3
5304	5/14/41	4:04	1:10,000	4.7
5305	5/14/41	4:04	1:10,000	4.7
5306	5/14/41	4:04	1:10,000	4.7

Point Lobos, San Francisco, Golden Gate

San Francisco North Point 5.9'

Swing Angles 5.8'

U.S.C&G.S. 9 Lens 8 1/2 in

April 1944

Between Mar. & April 15

J.T. & ALT, Wash. D.C. 8/18/44 (1944)

J.T. & ALT, Wash. D.C. 8/18/44

M.M.S. Date: Oct. 15, 1944

BH. Lyon Date: Oct. 15, 1944

B. H. Lyon Date: Nov. 10, 1944

R. Dossett Date: Nov. 1944

J. A. Giles Date: Dec. 18, 1944

State Coordinates: Calif., Zone 5

STATISTICS (III)

2 1/2

16.2

3/5

7

10

* See note on field photograph No. 5485

MAIN RADIAL PLOT

T- 5922

Project CS 262 C

The projection for this sheet was received in this office on August 25, 1944. Control was plotted and checked by use of beam compass and meter bar method by members of the control section.

A circle with 14-inch radius was drawn upon each photograph for the purpose of utilizing the central portion of the photographs in preference to the outer extremities.

Secondary control was selected approximately 5 inches apart within the confines of the 14-inch circle. Primary control was picked on all photographs irrespective of its relation to the 14-inch circle, unless the area was somewhat obscured by faulty printing on a particular photograph. All azimuths between centers were drawn on photographs by means of the stereoscope and radial liner method. This method, incidentally, was used to determine the fact that no tilt was present in sufficient quantities to cause difficulty in obtaining a strong radial plot. If tilt is present to a degree sufficient to cause trouble it will not be possible to draw azimuths through precisely the same detail on adjacent photographs.

The regular discussion for the main radial plot follows:

(A) CONTROL DENSITY

Control was adequately distributed throughout the sheet to insure a strong plot, but since several other stations appeared near the sheet limits, they were used as further assurance of accuracy at the junction between sheets. The following stations were used in the plot:

Within sheet limits,

- S. Twin, 1932
- ✓Chimney, W. Portal School, 1944
- South Dutch Windmill, 1916-17
- Fleishacker, Pool Stack, 1929
- Mile Rock Lighthouse, 1916
- Prayer Book Cross, 1916-17
- St. Ignatius, Most Westerly Spire, 1916-17
- Fairway, 1932 (F.I.P.)
- Ft. Point Lighthouse, 1916
- Pt. Diablo Light *on T-5926*
- San Francisco, Fine Arts Bldg, Dome, 1925
- St. Francis Yacht Club Naval Beacon, 1932

Outside sheet limits,

- Wharf House Gable, 1916
- Alcatraz Water Tank, 1940
- Alcatraz Lighthouse, 1910
- Bonita Point Lighthouse, 1909
- City Hall Steeple, 1932

Identification of all points listed is excellent.

(B) PHOTOGRAPHS

*5483	*5490	5306
5484	*5491	5308
5485	*5492	5309
5486	*5303	5310
5487	5304	6313
*5489	5305	6314

* used in plot, but off sheet limits.

Photograph coverage for this plot was excellent.

(C) CLOSURES AND ADJUSTMENT

The regular procedure was followed in laying templets with strongest fixes first and then laying progressively through ones with weaker fixes. Excellent intersections were obtained throughout and azimuths to adjacent photographs were held. Some tilted photographs were noted and particular attention was given to all intersections formed by use of these photographs. No case was found where any improvement could be made by tilt computation. Although only the shoreline is to be detailed, the plot was necessarily completed for the entire sheet.

(D) AREAS OF QUESTIONABLE ACCURACY

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

(E) GENERAL

Secondary control was shown on the projection with double blue circles of 2.8 mm and 1.5 mm radii.

Photograph centers were shown with double blue circles of 4.0 mm and 2.8 mm radii. The sheet was turned over to the draftsman for the location of additional control or detailing points.

Forwarded by:

J. C. Bose
 J. C. Bose
 Chief of Party.

Respectfully submitted,

Bennie H. Lyon
 Bennie H. Lyon
 Chief Aero. Map Draftsman

DESCRIPTIVE REPORT
To Accompany
SHEET NO. T-5922

26. & 27. CONTROL & RADIAL PLOT

See report submitted by B. H. Lyon, Chief Aeronautical Draftsman, which has been incorporated in this report.

Attention is called to a letter from E. H. Pagenhart, dated 2/27/45 stating that all necessary notes and forms covering the triangulation and topographic stations have been forwarded to the Washington Office.

28. DETAILING

The detailing of this sheet has been done according to the current instructions for this project.

There are three series of photographs showing this area. The 5400 and 5300 series were taken in May, 1941 and the 6300 series taken in September 1941. All photographs were clear and reasonably good scale.

29. SUPPLEMENTAL DATA

The wharf appearing at Lat. $37^{\circ}-48'$ and Long. $122^{\circ}-28'$, was drafted in accordance with plans of the War Department Corps of U. S. Engineers, U. S. Army. Fort Scott California.

The position of the wharf ~~was~~ laid off from the angle to Alcatraz Light as indicated. Other dimensions were taken directly from the plans. This wharf appears under construction on the photographs. The existing wharf appearing at this point was not drafted as plans indicate it is to be removed.

32. DETAILS OFFSHORE FROM THE HIGH-WATER LINE.

Attention is called to rocks along the shoreline opposite Fort Funston. The field inspector has not indicated whether these rocks are submerged, bare or awash and they will require further investigation by the hydrographic party.

34. LANDMARKS AND AIDS TO NAVIGATION

The landmarks and Aids to Navigation on this sheet have been listed on form #567 and included in this report. 229 (1945)

A Light indicated at Fort Point on field print

5304 was cut in , giving its position about the center of the bridge and was labeled F. G. Light. Chart No. 5532, shows a light opposite this position on the western edge of the bridge. It is believed this is the same light but no substantiating information is available.

*Position on attached
Form 567. C.L. 529(1945)*

35. HYDROGRAPHIC CONTROL

Instructions to field party February 8, 1944, state that no hydrographic stations need be selected.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES.

A comparison was made with the U. S. G. S. and The U. S. Corps. of Engineer San Mateo and San Francisco Quadrangles. U. S. Corp of Engineers Quadrangle is of the later edition. The small scale of the Quadrangles made a thorough comparison of detail difficult. No outstanding differences could be noted along the shoreline, other than the Golden Gate bridge and the absence of large buildings constructed for the Panama- Pacific International Exposition. The Fine Arts building, still remains.

45. COMPARISON WITH NAUTICAL CHARTS.

A comparison was made with U. S. C & G. S. nautical chart # 5532, having a print date of October 7, 1944 and chart # 5535, with a print date of July 13, 1944.

The only outstanding change noted along the shoreline is just north of Fleishacker's pool between latitudes 37° 44' and 37° 45'. In this area there has been constructed a concrete platform which extends inshore to the bluff. The bluff in this area is washing inshore toward the highway. These discrepancies are shown on the map drawing.

Respectfully submitted,

Rudolph Dossett
Rudolph Dossett,
Print Photo Aid

& Russell J. Pate,
Photo. Aid

Russell J. Pate

Forwarded by:

J. C. Bose
J. C. Bose,
Chief of Party.

D.M.s and D.P.s

to accompany

Sheet No. T-5922

STATION	LATITUDE	LONGITUDE
B.M. N-568; 1939	37°-43' 1464 (386)	122°-30' 165 (1305)
B.M. P-568; 1939	37°-44' 330 (1520)	122°-30' 474 (995)
B.M. Q-568; 1939	37°-45' 123 (1726)	122°-30' 635 (834)
Tidal B.M. No.64	37°-48' 1023 (827)	122°-28' 692 (776)
Tidal B.M. No.166 (Presidio)	37°-48' 675 (1175)	122°-27' 247 (1221)
Tidal B.M. No. 180 (Ft. Point)	37°-48' 605 (1245)	122°-27' 1301 (87)
Tidal B.M. No.4,1938	37°-46' 500 (1350)	122°-30' 804 (665)
136 Pergola (Topo)	37°-47' 655	122°-29' 313

(COAST PILOT SECTION)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED ~~FOR REFERENCE~~ ^{STRIKE OUT ONE}
LANDMARKS FOR CHARTS
Tampa Photogrammetric Office
1101 E. Broadway, Tampa, Fla March 19, 1945

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on ~~charts~~ the charts indicated.
The positions given have been checked after listing.

J. C. Bose

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION				METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED					
		LATITUDE		LONGITUDE												
		°	'	°	'							D. M. METERS	D. P. METERS			
139		37	46	507	122	-30	827	N.A.	1927	Radial Plot	4/21/44	V			5532	
138	TANK	37	46	1802	122	-30	445	"	"	"	4/20/44	V			5532	
137	DOME 1930	37	47	115.6	122	-29	1467.2	"	"	Triangulation	1930	V			5532	
148	FLAGPOLE	37	48	395	122	-27	1463	"	"	Radial Plot	5/25/44	V			5532	
140	CUPOLA FORT PT. C.G.	37	48	612	122	-27	1407	"	"	"	4/21/44	V			5532	
149	FLAGPOLE	37	48	691	122	-26	533	"	"	"	5/25/44	V			5535	
	NORTH DUTCH WINDMILL, 1916	37	46	426.1	122	-30	732	"	"	Triangulation	1916	V			5532	
	SAN FRANCISCO FINE ARTS BLDG. LOME 1925	37	48	331.1	122	-26	1231.4	"	"	"	1925	V			5532	
	ST. LONAYIUS MOST WESTERLY SPIRE, 1916	37	46	953.5	122	-27	131.2	"	"	"	1916	V			5532	
	SOUTH DUTCH WINDMILL, 1916	37	45	1671.1	122	-30	668.4	"	"	"	1916	V			5532	
	PLEISHACHERS POOL STACK 1929	37	44	197.5	122	-30	356.0	"	"	"	1929	V			5532	
	NORTH TWIN PEAK, 1916	37	45	375.7	122	-26	1142.9	"	"	"	1916	V			5532	

Page -2-

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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
(COPY FOR COAST PILOT SECTION)

TO BE CHARTED } STRIKE OUT ONE
~~TO BE CHARTED~~
LANDMARKS FOR CHARTS
Tampa photogrammetric Office
1101 E. Broadway, Tampa, Fla. March 19, 1945

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks, be charted on ~~(charts)~~ the charts indicated.
The positions given have been checked after listing.

J. C. Bose

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION				METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED			
		LATITUDE		LONGITUDE								DATUM		
		°	'	°	'								D. P. METERS	
San Francisco														
	SOUTH TWIN, 1932	37	45	186.7	122	26	1171.8	N.A. 1927	Triangulation	1932	✓			5532
	MT. DAVIDSON CROSS, 1938	37	44	566.0	122	27	322.2	"	"	1932	✓			5532

Chief of Party.

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." 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-5922

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
California										USGB	1
San Francisco										"	2
San Francisco Bay										"	3
Pacific Ocean											4
U.S. No. 101											5
State No. 1											6
<u>State No. 5</u>											7
Lake Merced											8
Fort Funston											9
Fleishhecker Zoo											10
Sunset											11
Laguna Honda Home											12
Mt. Davidson										(highest elev. in San Francisco)	USGB 13
<u>Twin Peaks</u>											14
<u>Golden Gate Park</u>											15
<u>Point Lobos</u>											16
<u>Seal Rocks</u>											17
<u>Cliff House</u>											18
<u>Landsend</u>											19
<u>Mile Rocks</u>											20
<u>Seacliff</u>											21
<u>Baker Beach</u>											22
<u>South Bay</u>											23
<u>Golden Gate</u>											24
<u>Golden Gate Bridge</u>											25
<u>Fort Point</u>											26
<u>Fort Winfield Scott</u>											27
<u>Presidio</u>											27

Names underlined in red are approved. 4/4/49 L. Heck

Division of Photogrammetry
Review Report of
Shoreline Map Manuscript T-5922

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

27. RADIAL PLOT

A strong plot with all parts within the required limits of accuracy.

42. COMPARISON WITH HYDROGRAPHIC SURVEYS

No details were transferred to the present survey.

43. COMPARISON WITH PREVIOUS TOPOGRAPHIC SURVEYS

A comparison with previous surveys was made. The present survey supersedes them in their common areas and in comparable detail.

46. APPLICATION TO NAUTICAL CHARTS

Survey T-5922 has not been applied to chart 5532 as of the date of this review.

This map is unclassified. See letter attached to T-5922

Reviewed by:

R. J. Tallman
R. J. Tallman, 27 April, 1945 *RJM*

Under the direction of:

D. H. Benson
Chief, Review Section *RJM*

APPROVED BY:

B. J. Jones
Technical Assistant to the
Chief, Div. of Photogrammetry

H. C. [unclear]
Chief, Nautical Charts Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

W. M. Soule
Chief, Div. of Coastal Surveys

