

5948

Diag'd. on Diag. Ch. No. 5534

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Air Photo. Compilation

Field No. CS-262-A Office No. T-5948

LOCALITY

State California

General locality Suisun Bay

Locality Suisun Slough

194 1

CHIEF OF PARTY

L.D. Graham

LIBRARY & ARCHIVES

DATE

Sept 28 - 1949

B-1870-1 (1)

5948

DATA RECORD

T-5948

Quadrangle (II):

Project No. (II): CS-262-A

Field Office: San Francisco
Calif.

Chief of Party: L.D. Graham

Compilation Office: Tampa, Fla. Chief of Party: K.G. Crosby

Instructions dated (II III): 9/4/41

Copy filed in *Division of*
~~Report No. T~~ *Descriptive*
Photogrammetry Office Files (VI)

Completed survey received in office: 31 May, 1943

Reported to Nautical Chart Section: 6/6/43

Reviewed: 14 June 1948 Applied to chart No. 5534 Date: June 1943
5575 May 1945

Redrafting Completed: 7/26/48

Registered: 9/14/49

Published: 3/15/49

Compilation Scale: 1:10,000

Published Scale: 1:10,000

Scale Factor (III): 1.00

Geographic Datum (III): N.A. 1927 Datum Plane (III):

M.H.W.
~~M.S.L.~~

Reference Station (III): Barn South Gable, 1922

Lat.: 38°07'09".634 (297.04 m) Long.: 122°05'35".724 (870.20m) Adjusted
Unadjusted

State Plane Coordinates (VI): California - Zone 2

X = 1, 973, 168.28

Y = 164, 875.79

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
5531	5-18-41	12:04	1:10,000	1.8'
5532	"	12:05	"	1.8'
5533	"	12:05	"	1.8'
5547	"	12:39	"	1.4
5548	"	12:40	"	1.4
6336	9-3-41	11:34	"	4.1
6337	"	11:34	"	4.1
6338	"	11:37	"	4.1

Tide from (III): Suisun Slough Entrance (Ref. Station: San Francisco)
Mean Range: 1.2 ft. Spring Range: 4.1 ft.

Camera: (Kind or source) USC&GS 9 lens (8 $\frac{1}{4}$ " focal length)

Field Inspection by: W.J.Chovan & W.C.Russell date: 1942

Field Edit by: *None* date:

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

Projection and Grids ruled by (III) C.H.R.Wash. Office date: 12/10/42

STATISTICS (III)

Land Area (Sq. Statute Miles): 17.6

Shoreline (More than 200 meters to opposite shore): 7.9

Shoreline (Less than 200 meters to opposite shore): 50.5

Number of Recoverable Topographic Stations established: 3

Number of Temporary Hydrographic Stations located by radial plot: 11

Leveling (to control contours) - miles:

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:

Field Inspection

The field inspection for the area of T-5948 is covered in the Field Inspection Report, Suisun Bay Area, California by W. C. Russell and is filed in the Division of Photogrammetry general files.

DESCRIPTIVE REPORT
TO ACCOMPANY
SHEET NO. T-5948

CONTROL

All triangulation stations on this sheet have been listed in the Field Inspection report of the Suisun Bay area submitted by Lieut. Comdr. L. D. Graham in 1941.

*Filed in Div. of
Photogram. Gen. Files
under "Sp'l. Rep'ts."*

There are seven triangulation stations plotted in the limits of this sheet. Control was very inadequate in the hilly section embracing the area west of State Highway 21.

Three triangulation stations are in this area, namely: "DUMP 1940", "LOPEZ 1932" and "GOODYEAR 1864". Station "DUMP 1942" was held to on photograph 6338 only. Picking of this station was questionable on photograph 5548 and could not be held to. It could not be picked on Photo 5532. These were the only three photos used that the station appeared on.

Station "LOPEZ 1932" could not be located on the photograph by the field inspector. However, "F.I.P. Ran" was established. This was held to on photos 5532 and 6338 but could not be picked on any other photos.

Station "GOODYEAR 1864" could not be located on the photograph so "F.I.P. Good" was established. This F.I.P. was held to on all photos while cutting in additional radial points.

*5. Goodyear Tank, 1922
6. Bait N. South Whale, 1922
7. Echo Island Navigation Bcn. 1932
Bench Marks: (Leaves 524)
2-129, 1932
4-129, 1932
4-129*

Station "Red Tank White Tower 1922" could not be held to consistently as the tank could not be defined clearly in all photos.

Numerous additional points were added in the hilly section, many of which were "two cut" points as they could not be picked on a third photo.

RADIAL PLOT

For a discussion of the radial plot covering this sheet reference is made to the compilation report for sheet No. T-5946. *Dec. Report in Bureau Archives*

DETAILING

Photos used for detailing this sheet are clear but of very poor scale with the exception of 5447 which was a very good scale and was used in detailing for a considerable distance from the center.

Field inspection was very good throughout the marsh land area but did not give proper identification of levees. Neither did it extend far enough into the hills.

Accuracy of detailing along the western border of the sheet is a bit questionable due to inadequate photographs and hilly terrain.

SUPPLEMENTAL DATA

The War Dept. Corps of Engineers, U. S. Army, 1942, Carquinez Quadrangle and General Highway maps, Solano County were used in some instances to supplement field inspection.

LANDMARKS AND AIDS TO NAVIGATION

There are no uncharted landmarks in this area. Aids to navigation which are on this sheet are listed on Form 567 which is made a part of this report. *Ext. Letter No. 452 (1948)*

HYDROGRAPHIC CONTROL

There are eleven unmarked stations located by the radial plot that fall in the limits of this sheet. These stations are listed at the bottom of the survey sheet. Also, they are listed in Lieut. Comdr. L. D. Graham's Field Inspection report of the Suisun Bay area. (Filed under Special Reports - Project 262) General Files - Div. of Phtg.

*Nos. 61
62
63
64
65
66
67
68
69
70
217*

Only those considered so well established as to be correct beyond question are shown on this sheet. This was done in accordance with a letter from the Acting Director dated December 2, 1942, Reference 28-PFA-1990.

COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES

A comparison was made with the War Dept. Corps of Engineers, U. S. Army, 1942, Carquinez Quadrangle and numerous changes were noted in ditches and levees but the features in general are about the same.

COMPARISON WITH NAUTICAL CHARTS

This sheet was compared with U. S. C. & G. S. Chart No. 5534 (Suisun Bay). The comparison is favorable and no important changes have been noted. This compilation should supersede the charted information.

Respectfully submitted,

Russell J. Pate

Russell J. Pate,
Asst. Photogrammetric Aid

Forwarded by:

Kenneth G. Crosby
Kenneth G. Crosby,
Chief of Party....

GEOGRAPHIC NAMES

Survey No.

Name on Survey

On Chart
No.On previous survey
No.On U. S. quadrangle
MapsFrom local
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

A

B

C

D

E

F

G

H

K

Grizzly BaySuisun Slough*Montezuma Slough*California* (for title)Grizzly IslandGoodyear SloughSouthern Pacific R.R.PierceCygnusCordelia SloughLake Herman ReservoirState Highway # 21Benicia JunctionHarvey SloughSuisun Bay* (for title)Joice Island

* = Decis. of BGN

Underlined names approved.

10-22-48.

a. f. w.

DIVISION OF PHOTOGRAMMETRY
Review Report of
Planimetric Map Manuscript T-5948

Paragraph numbers not used in this report have been adequately covered in other parts of the Descriptive Report.

34 Landmarks and Aids to Navigation

The triangulation station "Echo Island Navigation Beacon, 1932" is an aid to navigation and it appears in the light list as "Suisun Slough Entrance Light and Echo Board". The latter name has been shown on the map manuscript with the station name in parentheses.

43 Comparison with Previous Surveys

T-1029	1:20,000	1866
T-1847	1:10,000	1887-8
T-1892	1:10,000	1888
T-4026	1:10,000	1922

These surveys are superseded ^{for charting purposes} in common areas by T-5948.

44 Comparison with Existing Topographic Quadrangles

Carquinez	U. S. E.	1:62,500	1942
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The entire shoreline on the map manuscript borders marsh, whereas, the land to the south and west of the entrance to Suisun Slough on the quadrangle has been drained.

Several long 2nd class roads extending westward from Highway 21 on the map manuscript do not appear on the quadrangle.

45 Comparison with Nautical Charts

5534	1:40,000	1946 revised 1948
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The chart shows three small settlements along the Southern Pacific Railroad, viz. Pierce, Joyce and Hoyt. Only Pierce is shown on the map manuscript. Joyce and Hoyt are to be deleted from the chart. (Authority of the Geographic Names Section - Division of Charts).

46 Application to Nautical Charts

This map manuscript was applied to chart 5534 prior to the date of review.

Reviewed by:

Lena T. Stevens
Lena T. Stevens 14 June 1948
Cartographer (Photogrammetrist)

Reviewed under direction of:

S. V. Griffith
S. V. Griffith
Chief, Review Section

Approved:

P. J. Jones 9/49
Technical Assistant to the
Chief, Div. of Photogrammetry

H. C. Edmiston
Chief, Nautical Chart Branch
Division of Charts

K. T. Adams
Chief, Div. of Photogrammetry

W. M. Scaife
Chief, Div. of Coastal Surveys *WMS*