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U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: California.

DESCRIPTIVE REPORT

Air-photo
Topographic
Hydrographic

Sheet No. T-5008.

LOCALITY

Sacramento River.

Riverview Station to Merkeley Light.

19 33

CHIEF OF PARTY

M. H. Reese

U. S. GOVERNMENT PRINTING OFFICE: 1921

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5008a

Descriptive Report to Accompany
Air-photo Topographic Sheet T-5008.

See Descriptive Report T-4685 for general report of Field Inspection

General Information:

- a. Date of Instructions- November 15, 1932.
- b. Sheet data-

Projection by	E.L.F.	May 2, 1933.
Projection checked by	M.H.R.	May 2, 1933.
Control plotted by	E.L.F.	May 3, 1933.
Control checked by	J. R.	May 3, 1933.
Radial line plot by	E.L.F.	May 5-20, 1933.
Drafting of photographs by	S.E.S. & R.A.K.	May 20-June 27, 1933.
- c. Statistics-
 1. Area of sheet: 23.4 square statute miles.
 2. Shoreline of rivers and sloughs less than 300 meters wide: 20.8 statute miles.
- d. Reports affecting sheet-

U. S. Engineer blueprints of the Sacramento River. The blueprints were used in conjunction with the notes made on the photographs by the field inspection party. The notes made by the inspection party were complete.
- e. Numbers, time, and dates, of photographic flights-

SS. 143-151,	2:30 P. M.,	Dec. 14, 1931.
SS. 67- 74,	2:10 P. M.,	Dec. 14, 1931.
SS. 40- 46,	2:00 P. M.,	Dec. 14, 1931.

Control:

Sources-

1. First order triangulation by John Bowie, 1932. The computations have been adjusted to N. A. Datum, 1927.
2. Three point fixes by L. P. Raynor, 1933.
3. Reduction of rectangular coordinates of the U. S. Engineer stations to Geographical coordinates by L. P. Raynor, 1933.

Compilation:

a. Method-

The radial line method as applied to five lens photographs was used throughout the sheet.

Comparison with other surveys:

a. Junction of sheets-

Satisfactory junctions were obtained with Sheets T-5009 and T-5007.

Landmarks:

A list of landmarks was submitted by the field inspection party. Additional objects located by the compilation party are submitted on form 567.



M. H. Reese,
Lieut.(j.g.) C. & G. Survey.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES	REG. NO.
JAN 29 1934	
Acc. No. _____	T-5008

AIR-PHOTO TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 26

REGISTER NO. T-5008

State California

General locality Sacramento River

Locality Riverview Station to Merkeley Light

Date of Photographs Dec. 14, 1931.

Scale 1:10,000 Date of ~~survey~~ ^{Compilation} June 27, 1933

Lieut. J. F. Stevens, Pilot.

~~Vessel~~ Army Air Corps F.A. Airplane: Capt. A.W. Stevens, Photographer.

Reviewed and recommended for approval

Chief of ~~party~~ ^{Compilation} M.H. Reese, June 30, 1933.

Photographs plotted by *E.L. Fitch* E.L. Fitch, May 20, 1933.

Inked by *S.E. Sperry Jr.* S.E. Sperry Jr., and R.A. Kempton, June 27, 1933.

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated November 15, 1932.

Remarks: Compilation of aerial photographs Nos. SS.143-151, SS.67-74, SS.40-46. Scale 1:10,000, printed by photo lithographic process.

Polyconic projection by *E.L.F.* E. L. F. May 2, 1933.

Projection verified by *M.H.R.* M. H. R. May 2, 1933.

Control plotted by *E.L.F.* E. L. F. May 3, 1933.

Control verified by *J. R.* J. R. May 3, 1933.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. 5008

Title (Par. 56) *Sacramento River, Riverview Station to Turkey Pt., Cal.*
Photos plotted by G. R. Fitch
 Chief of Party *M. H. Reese* *Inked*
 Compiled by *S. E. Sperry and R. A. Kempton*
 Project *Sacramento San Joaquin* Instructions dated *Nov. 15, 1937*

1. ✓ The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
2. ✓ The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
3. ✓ The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
4. ~~There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.)~~
5. ✓ High water line ~~on marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
6. ✓ The representation of low water lines, ~~reefs, coral reefs and rocks, and legends pertaining to them~~ is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *is not very clear, and there are no legends pertaining to them. See back side of this sheet.*
7. ✓ Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. *There is no previous Coast Survey chart of this area.*
8. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~
9. ✓ The data furnished by the Field Inspection is adequate.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

(6) cont. On the Sacramento River between $38^{\circ}31'$ and $38^{\circ}32'$ there is some sanding. This is apparently a sand bar. Also in this area just north of Oak Hall Red Lt. there are a row of piers protruding normal to the shore. These piers are not labeled. On the lower end of the river (south of $38^{\circ}31'$) there are a number of small dots running with the shore (both sides of the river) These are piers, and it should be so labeled.

10. ✓ The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
11. ✓ The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
12. ✓ The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) *Descriptions of recoverable stations will be submitted on form 524 by G. P. Palmer during the hydrographic survey of this area.*
13. ✓ A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) *Lists of landmarks are on file as chart letters*
14. ✓ The geographic datum of the sheet is *N.A. 1927* and the reference station is correctly noted. (Par. 34.)
15. ✓ Junctions with contemporary surveys are adequate.
16. ✓ Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.) *See "General Information (A)"*
17. ✓ The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
18. ✓ No additional surveying is recommended.

19. Remarks:

20. Examined and approved:

Chief of Party

21. Remarks after review in office:

Reviewed in office by: *Frank G. Euskine Feb. 24, 1934*

Examined and approved:

K.T. Adams
Chief, Section of Field Records

L.O. Robert
Chief, Division of Charts

F.S. Borden
Chief, Section of Field Work

G. P. Palmer
Chief, Division of
Hydrography and Topography.

GEOGRAPHIC NAMES

Date Dec. 14, 1934

Chart No. _____

HMS

Names approved Dec. 14, 1934.

Diagram No. _____

Harlow Bacon

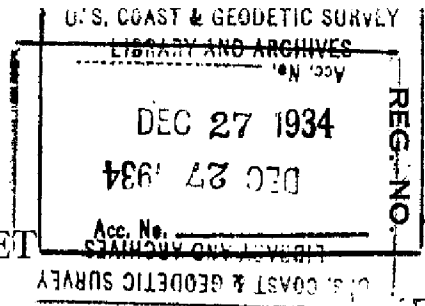
*, Approved by the Division of Geographic Names, Department of Interior.

Ø, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>West Cut</u> OK				
	<u>Riverview Red Light</u>	<u>Light List, Pacific Coast, 1934,</u>		<u>United States</u>	
	* <u>Oak Hall</u>	"			
	<u>Oak Hall Bend</u> OK				
	<u>Clay Bank Bend</u> OK				
	<u>Oak Hall Red Light</u>	"			
	<u>Chicory Bend</u> OK				
	<u>Merkeley's Red Light</u> Not Merkeley	"			
	<u>Sacramento River</u>	<u>U.S.G.B. 6th Report</u>			
	<u>Sutterville</u>	<u>U.S.G.S. Lovdal Quad.</u>			
	<u>Riverside</u>	"			
	<u>Riverview Station</u> OK				
	<u>Gordova Station</u> OK				
	<u>Sutterville Lake</u>	"			
	<u>Edwards Break</u>	"			
	Names of schools and minor names not checked unless so indicated				
	<u>Sacramento Airport</u> OK				
	<u>Lisbon School</u>	<u>U.S.G.S. Lovdal Quad.</u>			
	For maps on area see DF for T-4685. HMS				

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY



TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. _____

REGISTER NO. 5008 A

50082

State California

General locality Sacramento River

Locality Riverview Station to Sutterville

Scale _____ Date of survey Aug 29, 1934

Vessel _____

Chief of Party _____

Surveyed by _____

Inked by _____

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated _____, 19 _____

Remarks: Corrections and additions to the original survey.

For additional data see the Descriptive Report. _____

DESCRIPTIVE REPORT TO ACCOMPANY
AIR PHOTO TOPOGRAPHIC SHEET NO. 5008 A
(to be included in report of T-5008)

Riverview Station to Sutterville, Sacramento River, California.

This sheet contains corrections (shown in red) to the original survey of this area.

Sources of Information: Sheet No. 61 Air Photo Section files; blue prints 27612 and 25708; chart letter 630 (1934).

Compilation: Sheet No. 61 gave the new location of a light and deleted several others. It also called attention to a few other small corrections.

Chart letter 630 (1934) called attention to the deletion of two lights, and gave the position of the new light.

The town and bend names came from the two blueprints.

The title of this sheet was changed from "Riverview Station to Mirkeley Light" to Riverview Station to Sutterville".

Respectfully submitted,

Frank G. Erskine

Frank G. Erskine.

October 23, 1934.

The datum note in this sheet was changed from "U. S. G. S. Pier 20 1931" to "Brickyard East Stack 1931"

NAME: There are no charts covering the area of this project except Chart 5534 at the junction of the Sacramento and San Joaquin Rivers. The following maps filed as Blueprints were furnished by the field party with corrections made from field examination to show the names in local use and have been used in making the corrections to compilations on this project.

Capt. Leathers Map (1931)--R.- 25706

U.S.G.S. Quadrangle BPs. --25704 to 25707

(See also chart letter No. 698 (1932))

Name lists are now being prepared under Mr. Bacon's Direction and will be attached at the back of the descriptive reports when completed. Any changes in names indicated by the name lists will be applied to the compilations at the next printing.

November 25, 1934

Frank G. Eskine

*Applied to drawing of Chart 5528
Jan 14, 1935 - JTW.*