# 5015a

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

JUL 15 .333

Acc. No

<b>Form 504</b> Ed. June, 1928						
DEPARTMENT OF COMMERCE						
U. S. COAST AND GEODETIC SURVEY						
R.S.Patton , Director						
State: California						
NOUVE, RSSARINANIA						
DESCRIPTIVE REPORT						
Topographic Sheet No. 5015						
LOCALITY						
San Joaquin River						
Jersey Island to Middle River						
19.31-33						

CHIEF OF PARTY

# Descriptive Report to Accompany Air Photo Topographic Sheet No. 5015 Longitude 1210 39' to Middle River San Joaquin River California

See Descriptive Report T-4685 for general report of Field Inspection
1. General Information.

(a) This sheet is a compilation of air photographs taken by the U. S. Army Air Corps using five (5) lens camera, Type T 3A, No. 28-30-1, carrying six ingh (6") F 6.8 lenses. Flight photographs SS 791 to SS 813, flown west to east, and photographs SS 889 to SS 909, flown east to west, were taken between 9:30 and 10:20 A.M. on December 12, 1931.

The plane (type F-1A), piloted by Lieutenant Phillips with Captain Stevens as observer, was used.

The altitude maintained was approximately 5,000 feet, giving an average scale factor of 1.0159, which was used in constructing the projection and making the finished celluloid plot.

- (b) The area of this sheet is covered by the two strips of photographs, mentioned above, extending from Longitude 121° 39.2' to 121° 31.4'. A third strip was flown (SS 1219 to SS 1236) approximately on the line of flight of 889-909, but in the opposite direction (west to east). This flight was not used, however, except where the field inspection prints contained information not found on the other strips.
- (c) 28\* square miles of topography comprise the area of this compilation. There are 27 miles of rivers and sloughs less than 200 meters wide.
- (d) The area covered by this sheet, except for portions of the north-west corner, is cultivated. In this corner of the sheet are several bare sand mounds and weed covered areas interspersed with occasional cultivated plots. About three square miles of the southwest corner of the sheet are devoted to orchards.

Two rivers, Middle River on the east edge and Old River on the east central portion, cross the sheet approximately north and south. There are several dredged sloughs draining the other portions of the sheet with a number of irrigation canals and many irrigation ditches between.

### 2. Control.

(a) Control was obtained from triangulation by J. Bowie, 1931, theodolite three point fixes by L. P. Raynor, and third order traverse along the Atchison, Topeka and Santa Fe R.R. between Middle River draw bridge and Bixler.

## 3. Compilation.

- (a) The compilation was made by the radial plot method.
- (b) Due to tilt in two photos (SS 804 and SS 805) Lat. 37° 59.5° on Old River, difficulty was experienced in effecting a strong junction with the adjoining sheet No. 5014. While no excessive tilt was found in the photos on sheet No. 5014, covering the area of this overlap, (SS 739 to SS 743) evidence of photographic distortion was found which was probably due to atmospheric changes encountered over the water and marsh areas of Old River. A thorough, detailed investigation was made in an effort to effect a close agreement. After the areas affected were given the most careful plotting possible, independently of each other, there was still found some slight disagreements in overlap when a comparison was made. These were corrected by a give and take adjustment between the two adjoining flights.
- (c) For the purpose of clarity all leves roads are shown by a solid double line. The condition of the road is indicated by notes (such as private dirt road, poor, etc.). Where no note occurs to indicate a paved, public or other road, the road is a dirt road in fair condition.
- (d) All information was obtained directly from the photographs and from field inspection notes.
- 4. Comparison with Other Surveys.
- (a) No difficulty was encountered in effecting a junction with sheet No. 4689 on the east or with sheet No. 5014 on the north, except in the vicinity of Old River (see note above paragraph No. 3 b). No sheets join on the west and south.
  - (b) There were no previous surveys by the U. S. Coast Survey in this area. The Geological Survey quadrangles covering this area were surveyed in 1911. Maps in blue-print of Bacon Island and Lower Jones Tract were examined to make sure all relevant information had been traced from the photographs. These blue-prints were furnished by California Delta Farms, Inc., Stockton, California.

### 5. Landmarks

Spending

15

See list in back of the report.

6. No further survey is deemed necessary in this area.

Respectfully submitted,

H. E. MacEwen

HEMae Ewen

# DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

# DANNOMARKSX BORXCHARTS

LIST OF PROMINENT OBJECTS

	June 22 1933
DIRECTOR, U. S. COAST AND GEODETIC SURVEY:	and marked objects suitable for use as hydrocan be readily distinguished from ground from the can be readily distinguished from the can
together with a list of natural	and marked chiects suitable for use as hadre
The following determined objects are prominent,	can be readily distinguished from seaward from the

description given below, and should be should be graphic signals

				<u></u>						Chief of Party.
			POSITION							
	DESCRIPTION		LAT	ITUDE		LONG	SITUDE		METHOD OF DETER- MINATION	CHARTS AFFECTED
دب		٥	<u> </u>	D. M. METERS	0		D. P. METERS	DATUM	MINATION	
report.	Water tank	37	59	428.4	121	37	554.0	1927		
the	Windmill Windmill	38	_ 00	220.8	121	34	1191.3	17		_
of	Windmill in trees	37	59	637.6	121	34_	1330.3	n		
ੂਨ ਨੂੰ *∗	Wooden pole (E)	37	58	1790.1	121	34	1051.2	11		
grap	Wooden pole (W)	37	58	1776.0	121	34	1344.7	17		
para, y	Wooden pole (N)	37	58	1176.9	121	36	126.3	n		
mentioned in paragraph with certainty	Wooden pole (S)	37	_ 58	1003.9	121	36	129.0	17		
oned	Windmill and tank	37	_58	299.9	121	<u>3</u> 7	562.3	17		
enti Ith	Tank	37	57	1627.7	121	31	( 24.0) 1440.7	**		
98 m( 9d ∰	Hydro.									
the area spotted	*Tree	38	00	115.8	121	34	1126.3	11		
in the not spo	_A	37	_57	1782.0	121	31	(379.5) 1085.1	19		
	В	37	58	1159.9	<u>121</u>	31	(246.1) 1218.3	н		
r fall	C	37	58	1033.9	<u>121</u>	31	(64.1) 1400.3	Ħ		
points f position	Tule	37	58	352.5	121	32	121.8	11		_
o po pos he r	Point	37	58	1279.2	121	32	2.3	n		
These This you the	Beet Loader	37	56		121	32	(872.7 (432.2)	17		
* *	Mark A list of objects which are of:	37 aufficier	57	1043.5	121	31 the c	<u>1039 ちー</u>			

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to

U. S. GOVERNMENT PRINTING OFFICE: 1921

# REVIEW OF TOPOGRAPHIC SURVEY No. 5015

Title (Par. 56) Gersey Island to Middle Ruce, San Joquin River, Cal.

Chief of Party O. S. Rading Surveyed by N. E. Nac Emernked by H. E. Nac Emer (Photos-Nec. 12 1931)

Chief of Party O. S. Rading Surveyed by N. E. Nac Emernked by H. E. Nac Emer (Photos-Nec. 12 1931)

Surveyed in Complation-June 9, 1933

- The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)
- 2. The character and scope of the survey satisfy the instructions.
- 3. The control and closures of traverses were adequate. (Par. 12, 29.)
- 4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
- 5. The delineation of -contours-formlines is satisfactory. (Par. 49, 50.)
- 6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.)

1

- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- 8. The representation of low water lines, reefs, earal reefs and recks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)
- 9. Rooks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
  Lee are no previous surveys by the Cost of George Servey.

10. The span, draw and clearance of bridges are shown, (Par. 16c.) except when it was imposite to determine from the photograph, and not more more supplied to the trille description but the ellacions was by the locations and elevations of summits are given. (Par. 19, 61.) upon to the the

12. The tree line was shown on mountains. (Par. 16g.)

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.

- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)
- 14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.
- The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) form 524 of P. Raynor during the hydrographic work in
- this vicinity.

  16. A list of fandmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) A list of landmarks was furnished to find the field we perton and is m find the allocation was checked. (Par.
- 17. The magnetic meridian was shown and declination was checked. 17, 52.)
- 18. The geographic datum of the sheet is N.A. 1927 reference station is correctly noted. (Par. 34.) He shet in controlle by imadiguesed tranquestion.

19. Junctions with contemporary surveys are adequate. Junction to each with T-46 89- Lad disagreement as to method of mainting types of water on lines. Before from T-5015 suplains practices on this sheet.

- 20. Geographic names are shown on the sheet and are covered by the Desgradranger, and blue prints of Boon bland and Long for Leach.
- 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 40, 41, 42, 45, 46, 47, 48, 49, 50.)
- 22. No additional surveying is recommended.
- The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks: In the review of This shet miner errors were discovered and correction the correction sheet was substituted for the old expery Reviewed in office by July 9. Eistin . hounter 10, 1933

Examined and approved:

Section of Field Records

of Field Work

Chief, Division of Hyd. and Top.

# 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. 5015			
State California			•••	
General locality San Joaquin	River			
Locality Jersey Island to Mid	dle River	TIAN 12 11021		
Scale 1:10,000 Date of en	pilation:	June 9, 1933	.92	
Vessel Army Air Corps F 1A airp	Lt lane Capt.	J. F. Phillips A. W. Stever	, Pilo	t tographer
Chief of Party <u>Q.S.Readin</u> Photographs plotted by: Surveyed-by H.E	£			•
Inked by H. E	• MacEwen			•
Heights in feet above	to ground	to tops of t	rees	
Contour, Approximate contour, Fo	rm line int	ervalfe	et	
Instructions dated		, 1	92	
Remarks: Compilation of aerial	photograph	s Nos. S\$ 791	- 813	and
SS 889 - 909. Reduced to scale process.	and printe	d by photo-li	thograi	ohi <b>c</b>
Polyconic projection by: " verfied by:	H. E. MacE	wen Mar rskine "	ch 29,	1933.
Control plotted by: Control verified by:	H. E. MacE Frank G. E	wen Mar	sh 29,	1933.

Form 537a Ed. Nov., 1929

# DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LIBRARY AND ARCHIVES

:JUL 15 .933

U. S. COAST & GEODETIC SURVEY

AERIAL PHOTO-TOPOGRAPHIC
TOPOGRAPHIC TITLE SHEET

Acc. No.	

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. 5015

State California
General locality San Joaquin River
Locality Jersey Island to Middle River
photographs: Dec. 12, 1931 compilation: June 9, 1933 Scale 1:10,000 Date of survey.
wassak Army Air Corps F 1A sirplane, Capt. A. W. Stevens, Photographe
Lt. J. F. Phillips, Pilot Chief of party O. S. Reading
Photographs plotted by H. E. MacEwen
Inked by H. E. MacEwen
Heights in feet aboveto ground to tops of trees
Contour, Approximate contour, Form line interval feet
Instructions dated, 19
Remarks: Compilation of aerial photographs Nos. SS 791-813 and
SS 889-909. Reduced to scale and printed by photo lithographic
process.
Polyconic projection by H. E. MacEwen, March 29, 1933  verified by Frank G. Erskine, March 29, 1933  Control plotted by H. E. MacEwen, March 29, 1933  Control verified by Frank G. Erskine, March 29, 1933
AATATAT AATTITUM ON TIMIN OF BIONING, WOLCH VA. 1892

U. S. CO.A.T & GEODETIC SURVEY
LIBRARY AND MICHIVES

JUN 26 . 334

Descriptive Report to Accompany
Air Photo Topographic Sheet No. 5015-A
(to be included in report of T-5015)

Acc.	No.	 	 	

Jersey Island to Middle River, San Joaquin River Delta, California.

This sheet contains changes, additions, and corrections (shown in red) to the original survey of this area T-5015.

# SOURCES OF INFORMATION

Hydrographic survey #6001 by L. P. Raynor 1934; blueprint #25708 (Captain Weather's map); sheet #17, Air Photo Section files; T=5027; recoverable stations Semaphore and Road Crossing, submitted by L.P.Raynor on form 524; original celluloid sheet T-5015 and T-5027; photographs SS 888 to SS 904 and SS 914 to SS 929.

# COMPILATION

The most important correction was in the southeast corner of the sheet and concerned the shoreline of Middle River south of the railroad bridge. A plot was made on the celluloid of T-5027 (as these photographs were clearer than those for T-5015). This plot tied in well with the detail on 5015 but showed an appreciable error in the shoreline of Middle River. These two sheds just west of Middle River along the railroad were also found to be slightly in error. The reason for the error in the shoreline with apparantly more control than necessary (3 latticed steel poles) was because these poles were not spotted by the field inspection on photos SS 889,888. The photographs were dark, and the steroscope was unable to pick them up. On the photographs for T-5027, they were easily identified.

At  $37^{\circ}$   $56\frac{1}{4}$ ,  $121^{\circ}$   $36\frac{1}{2}$  there were some slight errors in shoreline. These errors were easily corrected with the photographs of T-5027. These two corrections enabled a good junction to be obtained with T-5027.

Captain Weather's Map (blue prints #25708) changes the name "Empire Slough" to "Empire Cut", (37° 58', 121° 32').

Air Photo Section file sheet #17 gives additional names which were not shown on the original sheet.

Two 3 point fixes described on form 524 were plotted. One is near the town of Orwood, the other near Wener, both on the center line of The A.T. & S.F.R.R.

H-6001 calls attention to two small tule islands in Middle River. They were plotted by the photographs and checked the hydrographic sheet location.

H-6001 mentions several shoreline changes but as the change was so small (width of shoreline) no correction was made.

Respectfully submitted,

June 21, 1934. (over)

Trank & Enkine

NOTE: The following changes have been made on the file copies of compilation T 5015 and T 5015A on August 21, 1934:

Dates added on all Triangulation Stations; names on several triangulation stations corrected to agree with the triangulation records; Triangle symbol shown on several stations for which no data is filed in the triangulatin records have been changed to topographic symbols. These changes will be applied to the plates and negatives at the next printing of this compilation. A number of the topographic stations shown on this compilation are not recoverable and will not be shown on the copies printed for sale in the future.

B. G. Jones

MANUES: There are no charts covering the area of this project except chart 5554 at the junction of the Secremente and San Josquin 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. Wenthers Map (1931) -- EP.-25708

U.S.G.S. jundrangles-- BPs.-25708 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.

Arauk G. Eishine

# Page 1

# GEOGRAPHIC NAMES

Survey	No.T-5015 H-6001
O la const	NI.

Date. April 11, 1935

HMS

✓ Diagram No. 5534

Names approved April 11, 1935. Harlow Bacon

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

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

Under investigation. Q

Status	Name on Survey	Name on CEARX maps **	New Names in local use	Names assigned by Field	Location
	Upper Jones Tract	** Same			
	Roberts Island	Lower Jones Tract			 
	Middle River	** Same			i
	Bacon Island	** 11			
	Old River	** 11		·	
	Fay Island V	** 11			. <del> </del>
•	Palm Tract √	** 11			
•	Orwood Tract	** 11			
	Veale Tract	** 17		-	<del></del>
<del></del>	Holland Tract	** 55			
	Rock Slough	** 17			<del></del>
	Jersey Island	Delete'			
		Rhode Island **			
	Holman Slough	U.S.G.S. Woodward Islan	d quad		
	Youngs Slough	#		7	
	Empire Slough	Same **			<del></del>
<b>*</b>	Woodward Island √	11 **			
	Atchison, Topeka and	Santa Fe Ry R. should be			
<del>,</del>	Bixler /	Atchison, Topeka and Sa Rand McNally Commercial		Official Ra Guide, Jan.	lway 934.
	Middle River	U. S. Official Postal C			
	Werner /	Rand McNally Commercial	Atlas, 1935		
<del></del> _	** For authorities	used see DR for T-4685.			
	<del> </del>	<del>   </del>		<del>   </del>	

# Page 2

# GEOGRAPHIC NAMES

Survey No	T+20T5	
	H-6001	
	0002	
Chart No		
ult 110		

Date. April 11, 1935

HMS

Diagram No. 5534

Namess	approved	April	11,	1935

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

Referred to the Division of Geographic Names, Department of Interior. \*\*

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
<u> </u>	Oritood /	Rand McNally Commercia:	Atlas, 1935		
	Woodward	ít			
	Post Office	Delete No post officing to Post Office De	e where word	is placed	accord-
	Moorland P. O.	Delete post office be	came Middle	River on Jar	1,191
	Orwood Station	Official Railway Guide,	Jan. 1935		
7	-				
•					
<u> </u>					
				1	-
i ,					
1					