

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

SEP 12 1932

Acc. No. SUPPLEMENTAL Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE u. s. coast and geodetic survey R. S. Patton, Director State: California DESCRIPTIVE REPORT Sheet No. 4642 Hydrographic LOCALITY San Francisco Bay Pt. San Mateo to Steinbergen Slough 1932... CHIEF OF PARTY O. S. Reading ٠,٠

DESCRIPTIVE REPORT TO ACCOMPANY AIR PHOTO-TOPOGRAPHIC SHEET NO. 4642. PT. SAN MATEO TO STEINBERGEN SLOUGH, CALIFORNIA

This is a compilation of five lens photographs, made up of three flights, taken with T-3 camera No. 30-1 by the U. S. Army Air Corps; one flight, P-14 through P-34, taken May 8, 1931, at 11:20 A.M., direction of flight northwest, extending the length of the sheet through the foothills, and two flights, A-1 through A-10, taken April 29, 1931, at 2:30 P.M., direction of flight northwest, and AA-27 through AA-35, taken May 7, 1931, at 12:00 noon, direction of flight southeast, each extending half the length of the sheet along the shore.

Low tide in San Francisco Bay on April 29, 1931, occurred at 3:53 P.M., at Point San Mateo.

LIMITS OF SHEET

This sheet includes the area from the southern shore of San Francisco Bay to about two to four miles inland and from Pt. San Mateo to Steinbergen Slough.

CONTROL

This sheet is controlled by several triangulation and topographic stations, a traverse originating at Brownstone Archway, and T-4505. Two triangulation stations were apparently spotted incorrectly by the field inspection party, Windmill on Ranch and Radio Pole. The computations for the former were checked and found correct, indicating that the error must have been in the spotting. In the case of the latter, by the use of the stereoscope, the station was found to be at the opposite end of a house. The field spotting had been the chimney of this house. Two topographic stations were found in error, Arcade Tower and Air Beacon. The spotting of Air Beacon was also an illustration of the hurried method used by the field inspection party. It was shown on two photographs and the difference in spotting was some one hundred and fifty meters. Difficulty was experienced in tieing in to the traverse, several plots and adjustments being necessary. An error of one hundred feet was discovered in the computation of this traverse.

COMPILATION

A spotting plot was made of the three flights to determine their scale. Since flight P extended the full length of the sheet, it was decided to construct the sheet to this scale. A projection was laid out on the celluloid sheet using a scale factor of 1.094 x 10,000 and all control plotted. The shoreline of T-4505 was traced in blue ink. The other two flights were photostated to this scale. A radial plot was made tieing in the three flights. Tilted photographs, the fact

that the center pictures of flight P contained elevation, and faulty spotting of control stations caused considerable difficulty.

CHANGES

The projection of this sheet is of the new 1927 datum. The intersection projection is of the datum used immediately prior to 1927.

In general, the shoreline of this sheet agrees with that of T-4505 with the following exceptions: At Lat. 37° 34½°, Long. 122° 18½°, where San Mateo Creek empties into the bay, there is an inshore shift; at Lat. 37° 34½°, Long. 122° 15¾°, the spit at the bridge is shifted slightly; at Lat. 37° 33°, Long. 122° 14°, the east end of the island is shifted northward. There are several slight shifts in the sloughs. Comparisons have been made with the current hydrographic sheet, H-5133, and this sheet (T-4642) fits the hydrography very much better than T-4505.

The transmission towers on T-4505 were apparently put in very roughly; however, those used as topographic stations check fairly well. Four are listed with landmarks for charts in this report.

At the time of the photographs, Port San Francisco (at Belmont) had a very narrow channel, with a marshy strip remaining alongside the channel between the dikes. The field inspection party noted, however, that dredging was in progress. It has been learned that there is a recommendation for the name "Port San Francisco" to be changed. At the present time, no change has been made.

Attention is called to the two rocks awash off Pt. San Mateo. There are two more or less recent topographic sheets of this area, one showing rocks awash, the other showing islands. In the verification of H-5129, an investigation was made by the cartographer and it was decided to show rocks awash. The basis of this decision will be found in the descriptive report of H-5129.

LANDMARKS

A list of prominent objects was furnished with T-4505. The corrected topographic stations appear with this report. It is suggested that the cartographer refer to the photographs in compiling the chart of this area.

NAMES

Names appearing on this sheet were taken from chart 5530, T-4505, field inspection notes, and the Sanborn maps.

SYMBOLS

The standard topographic symbols were used throughout.

REMARKS

More accurate and rapid compilation could be made if the field inspection was done with a little more care and understanding of the needs for certain data necessary for compilation:

Respectfully submitted,

Frank G. Erskine

Jr. Cartographic Engineer

June 24, 1932.

APPROVED

FIELD RECORDS (C)

Chief, Division of Charts

Jhief, Section Field Work

Chief, Div. of Hyd'y and Top'y

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

June 25

1932

DIRECTOR, U. S. COAST AND OCODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

						0.	S. Res	ding	Chief of Party.
								<u> </u>	Cilier of Faity.
			<u> </u>	POSIT	ION				
DESCRIPTION		LATITUDE			LONGITUDE			METHOD OF DETER- MINATION	CHARTS AFFECTED
	٥		D, M. METERS	٥	1	D. P. METERS			
) 	Į.
Stations cha	mged l	y A	ro-topos	raph	ic S	heet #46	42	<u>-</u>	
			(498)			(141)	New		
Arcade Tower	37_	30	1352	122	<u> 15</u>		1927	Photo	5530
	ľ		(551)	1		(1342)			
Air Beacon	37	32	1299	122	18	131		17	
			(1619)			(43)			
TRAN	37	35	231	122	18	1429		17	***
			(1637)		-	(43)			'
Line	37	35	1 7	122	18	1429		11	*
	1		(1285)			(505)		i 	
IS	37	34		122	17	967	17	Ħ	n
10			(1360)			(706)			,
CAN	37	34	1 ' '	122	17	766	17	11	π
SAN		•	100						
-11 -1	- -	1.				2.4	, ,		0 +
Note: The	eo	oze	ils a	ne	<u> </u>	sted	m,	the a	Cerreti
R	ار پراس	Ø ,	12	Doa	nas	Lie s	Sheet	+ Regu	ten 16 468
	0		1	00		1		-	. , .
To the state of th	e a	for	معر سعة	Loc	رص	the_	Corre	aled,	fortion
0_1			0 _	-			-4		1 . 10
but n	OR	nfi	mar	as-		20 4	M	ur a	ecuant
L- 1				, , ,		ef-	le	Lan	the '
		1	1					1	
Choton	anh	<u> </u>	Thus	fo	420	was	uses	Ima	luntarity.
and to	2		1			12	2 As	neo or	1931
			, , , , ,		of J	lon	Op.	dans	h
	7 /~	1:	tone		~~	0			
recorns	men.	na	ceons.			1-2-	2-	<u> </u>	<u> </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 chart

chart.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

SEP 12 1332

LIBRARY AND ARCHIVES

Acc.	No	_	

AERO- 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. 4642 State California General locality San Francisco Bay Locality Pt. San Mateo to Steinbergen Slough Scale 1:10,000 Date of survey Photos taken , 19 April 29, May 7, May 8, 1931 Vesselv Army Air Corps Agroplane Chief of Party O. S. Reading Surveyed by F. G. Erskine Inked by F. G. Erskine Heights in feet above ______ to ground to tops of trees Contour, Approximate contour, Form line interval.....feet Instructions dated....., 19..... Remarks: Compilation of five-lens air photographs Nos. P-14 -P 34, A 1 - A 10, AA 27 - AA 34, and printed by photolithographic

process in Printing Section. 9 Po

464

Wescriptive Report T4642 Supplemental

The area whom in ned on T4642 Supplemental has been concerted to perfect the junction with T 4643. Supplemental This concertion involves no new information serves the date of the original photographis. In addition to the areas whoun in ved on T4642 Supplemental the n.a. 1927. Datum projection has been conected as North answer was originally plotted on North answer water and the projection was correct after completion of the drawing the north answer 1927 water was added by istepping or claying off distances from
the original north american projection an
enor was made in laying about the
Na 1927 dotum - whis was loter found
and has been conected in april 1939 The enor

varied from 0 to 0.7 mm.

Bg. Jones

ود ده ده است می میدانشد. میرد می دود بید در میدان میدان بید در میدان در است.
