# 10417

Diag. Cht. No. 5502.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-159 Office No. T-10417

LOCALITY

State California

General locality Marin County

Locality Tomales Bay

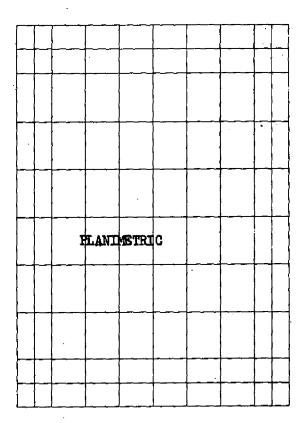
19455-57

CHIEF OF PARTY
V.R.Sobieralski, Chief of Field Party
A.L.Wardwell, Tampa Photo, Office

LIBRARY & ARCHIVES

DATE December 17, 1959

8-1870-1 (1)



Areas contoured by various personnel
(Show name within area)
(II) (III)
INAPPLICABLE

#### DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):

C. H. Bishop

Jan. thru Date: April 1957

J. S. Chamberlin

C. D. Upham

C.H. Bishop - V.J. Fran 2

Planetable contouring by (II): Inapplicable

July-Aug. 19 56

Date:

Completion Surveys by (II):

Inapplicable

Date:

Mean High Water Location (III) (State date and method of location): April 1957, Air Photo Compilation

Field Inspection (1957) Of 1955 Photography

Projection and Grids ruled by (IV): A.R. (Washington Office)

Date: 23 Aug. 1956

Projection and Grids checked by (IV): A.R.

Date: # #

Control plotted by (III): Washington Office

and I. I. Saperstein

Date: 1 July 1958

Control checked by (III): E. T. Ogilby

Date: 1 July 1958

Restricted Stereoscopic

Control extension by (III): Washington Office

Date:

Planimetry I. I. Saperstein

Date: July 1958

Stereoscopic Instrument compilation (III):

**EXECUTE** 

Date:

Manuscript delineated by (III): I. I. Saperstein

Date: July 1958

Photogrammetric Office Review by (III): W. H. Shearouse

Date: Sept. 1958

**Elevations on Manuscript** 

checked by (II) (III):

Inapplicable

Date:

USC&GS Single-lens Wild "W" and "S" Camera (kind or source) (III):

		/ photographs (iii)	1:10,000 (natio)	
Number	Date	Time	/ Scale & 1:25,000	Stage of Tide
55W-619	10 Oct. 1955	10:14	1:25,000	4.1 (TOMALES BAY)
PHOTO 575-5786	23 Nov. 1957	12:21	1:215,000	5.4 (SCHOONER BAY
57s-5787	11	12:22	11	H the State of
57S-5797	11	12:31	11	11
57S-5798	tt tt	12:32	II.	"
578-5799	n n	12:32	II.	11
57S-5800	11	12:33		"
57S-5801	11	12.22	"	11
		Sub. Sta. Point	REYES (PACIFIC OCEAN	N) 1959 TIDE TABLES
			HEIGHT	MEAN RANGE= 3,9 ft.

55 W 609 (FIELD PHOTO) 10 OCT. 1955 TIME=10hq5 1:10, SCALE - TIDE = 3.5 ft. (SCHOONER BAY)

HEIGHT OF MAW ABOVE \_ +0.1 -NESS (TOMALES BAY) 1959 TIDE TABLES

HEIGHT -0.2.ft.

HEAN RANGE : 3.7 ft. PLANE OF REFERENCE = 4.6 ft. Diurnal

Ratio of Mean | Spring Range Ranges Range 4.0 5.7

Reference Station: San Francisco

Subordinate Station: Marshall, Tomales Bay Inverness

Subordinate Station: Point Reyes

Washington Office Review by (IV): 5.6. Blanken baker

Date: July , 1959

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Date:

Date:

Proof Edit by (IV):

Date:

13 Land Area (Sq. Statute Miles) '(III):

Shoreline (More than 200 meters to opposite shore) (III): 1\*\*\*

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

Control Leveling - Miles (II):None

Number of Triangulation Stations searched for (II): 6 \*

Recovered: 5\*\* Recovered:

Identified: 5\*\* Identified:

Number of BMs searched for (II): 0

Number of Recoverable Photo Stations established (III): 0

Number of Temporary Photo Hydro Stations established (III): 0

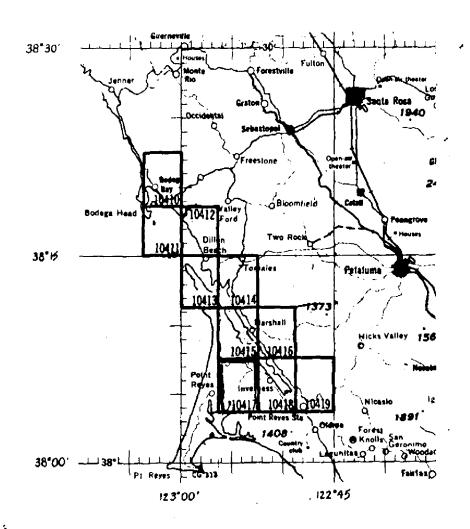
Remarks:

5 stations fell outside project limits

\*\*

One mile of shoreline in Tomales Bay, but 3 additional miles of shoreline in Home Bay and Schooner Bay in the southwest corner of the manuscript.

# PLANIMETRIC PH-159 SHSRELINE PROJECT 6159 TOMALES AND BODEGA BAYS, CAL.



OFFIC:	LAL MILE	ACE FOR	COST ACCOUNTS
		AREA	LIN.MI.
SHEET	1:0.	SQ.II.	SHORELINE
10410		12	5
10411		1	15
10412		11	4
10413		6	$\mathfrak{v}$
10414		12	3
10415		9	9 .
10416		13	1.
10417		13	1
10418		10	7
10419		14	<b>-0-</b> '
		-	
	TYOTAT S	ım	MR 1720

Summary To Accompany Descriptive Report T-10417

Planimetric map T-10417 is one of twelve similar maps in project PH-159. The project covers the Bodega Bay-Tomales Bay area of the California Coast. T-10417 is one of the three southernmost maps in the project and its' coverage includes small portions of Tomales, Schooner and Home Bays.

This is an instrument compilation project. Field work was accomplished in 1956 and 1957. The 1956 field party recovered, identified and established horizontal control for use in stereoplanigraph bridging and compilation of the incomplete manuscripts used to provide shoreline for contemporary hydrographic surveys. The 1957 field party completed the field inspection for use in compiling the final planimetric manuscripts.

The bridging and compilation of the incomplete manuscripts was accomplished in the Washington Office. The compilations were completed by instrument (Kelsh) in the Tampa Office.

Items registered under T-10417 will include a Descriptive Report and positive impression on cronar of the scribed copy of the manuscript.

ORM 164 4-23-54)			U.S. DE	U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	COAST AND GEODET	URVEY		0
MAP T. 10417		PROJE	PROJECT NO.	6159	SCALE OF MAP	1:10,000	SCALE FACTOR	JR 1.0
STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE	LATITUDE OR v-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GLID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
DRIFT 1930	d1/	N.A. 1927	591	222.84 028.15	Outside project 11	mits		
Pt reyes Ranch White Barn Cup 1930	720	÷	586 1294	170	=			
Estero 2 1938	99/	11	578	658.71.				
SS Estero 2 1938		=	578	543.58				
MUD 2 1938	4347/60 pg	·#99	1316	978.73	Octside project			
SS MUD 2 1938	700	=	564	931.35	=			
LAGOON 1930		=	567 1304	415.33	4			
SS LAGOON 1930		din tin	1304	440.30 607.07	-			
								-7
COMPUTED BY. Compilation Unit	sh. Of.		DATE 1956		CHECKED BY.	n. Office Compilation	fon Unit 1956	COMM- DC-57843

(1) Two field inspection reports (1956-1957)
(2) Three Combined bridging and compilation reports
(3) Bridging sketch

# THE 1956 and 1957 FIELD INSPECTION REPORTS WERE SUBMITTED AS SEPARATE REPORTS

INCLUDED IN THE DESCRIPTIVE REPORT FOR T-10412

(1) copies of field inspection reports (1956-1957)

(2) Bridging sketch
(3) Two(2) combined bridging & compilation reports

The combined bridging & compilation report for T-10415;
T-10417; T-10418 is included in the Desc. Report for T10418.

# COMPILATION REPORT T- 10417

## PHOTOGRAMMETRIC FLOT REPORT

The stereoplanigraph bridge was run in the Washington Office.

The bridging report is bound with the Descriptive Report for T-10h18.

#### 31. DELINEATION

The "INCOMPLETE MANUSCRIPI", showing the shoreline and pass points in the northeast corner of the manuscript, was delineated by the instrument method in the Washington Office. Some shoreline changes were made in this office by the graphic method after field inspection for use on the smooth boat sheets. The remainder of the manuscript was then compiled using the Kelsh Plotter.

Two sets of photographs were used. One flight was flown in October 1955 and the other set was flown in November 1957.

The field inspection was adequate and no difficulty was encountered in the interpretation of the photographs.

#### 32. CONTROL

The density of primary and secondary control was adequate.

#### 33. SUPPLEMENTAL DATA

Plat (in 6 sheets) titled "Record of Survey for State of California, Dept. of Natural Resources, Division of Beaches and Parks", scale 1" \* 400 ft., dated April 1953 was used to construct the boundary of Tomales Bay State Park (see Item 41) It is being submitted with data for survey T-10418.

#### 34. CONTOURS AND DRAINAGE

Contouring not applicable.

Drainage shown was from field inspection and office interpretation.

## 35. SHORELINE AND ALONGSHORE DETAILS

The high-water line was delineated according to field inspector's notes. (See Item N.) The shoreline inspection is adequate.

The low-water line was not determined by the field inspector. Therefore, the approximate low-water line and approximate limits of shallow areas were delineated from office interpretation of the photographs.

# 36. OFFSHORE DETAILS

All offshore details, including rocks and oyster beds have been shown according to the field inspector's notes.

## 37. LANDMARKS AND AIDS

None.

#### 38. CONTROL FOR FUTURE SURVEYS

None, excepting the shoreline pass points on Tomales Bay which were dropped by the Washington Office, to enable the hydrographer to locate photo-hydro stations.

#### 39. JUNCTIONS

Junctions have been made with the following: T-10h15 to the north, T-10h18 to the east and Drakes Bay -U.S.G.S. 1:24,000 to the west and south.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

#### LL. BOUNDARIES

The boundary of Tomales Bay State Park was constructed by using the plat submitted by the field party (see Item 33). Only those boundary monuments that were recovered in the field were shown on the manuscript.

# 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle HRAKES BAY, CALIFORNIA 1:24,000 dated 1953.

The compilation and quadrangle compare very favorably except that a few stock tanks have been created with earth dams since the 1953 survey.

# 47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 5603, scale 1:30,000, edition of Nov. 1934 corrected to 4 Feb. 1952. No appreciable differences were noted, except for a dam constructed across the narrow upper part of Home Bay.

## ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

## ITEMS TO BE CARRIED FORWARD

None.

Cartographer (Photo)

APPROVED AND FORWARDED:

Arthur L. Wardwell Chief of Party

# 48. GEOGRAPHIC NAME LIST

Names were taken from the Drakes Bay Quadrangle.

HLACKSMITH SHOP

CALIFORNIA ~

CLENEROOK CREEK

HOME RANCH
HOME RANCH CRESK
H RANCH

INVERNESS RIDGE

M RANCH

SCHOONER BAY SCHOONER LANDING SHALLOW BEACH SIRLFRANCIS DRAKE HIGHWAY

TOMALES BAY -TOMALES BAY STATE PARK -

> forge In Ball July 13, 1959

50.

# PHOTOGRAMMETRIC OFFICE REVIEW

T-10417

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS 4a Classification label unclassified
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy WIS. 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks WHS
9. Plotting of sextant fixes XX 10. Photogrammetric plot report XX 11. Detail points WHS
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline WHS 13. Low-water line XX 14. Rocks, shoels, etc. WHS 15. Bridges WHS 16. Alde
to navigation XX 17. Landmarks XX 18. Other alongshore physical features WHS 19. Other along-
shore cultural features WHS
PHYSICAL FEATURES
20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours 23. Stereoscopi
instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
features_WBS
· · · · · · · · · · · · · · · · · · ·
CULTURAL FEATURES
27. Roads WHS 28. Buildings WHS 29. Railroads 30. Other cultural features
27, Rodds 25, Salidings 25, Italifolds 36, Salidi Calculat Touchist
BOUNDARIES
31. Boundary lines WHS 32. Public land lines WHS
51. Southday lines 52. Public land lines
MISOSCILANISOLIO
MISCELLANEOUS  33. Geographic names <u>WHS</u> 34. Junctions <u>WHS</u> 35. Legibility of the manuscript <u>WHS</u> 36. Discrepance
overlay, XX 187. Descriptive Report WIS 38. Field inspection photographs, WIS 39. Forms WIS
W. H. Shearanne
Reviewer Supervisor, Review Section or Unit
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
manuacipe is now complete except as noted and a term 45.
Compiler Supervisor
A2 Damarke
43. Remarks:

# Review Report Planimetric Survey T-10417 July 1959

# 62. Comparison with Registered Topographic Surveys

T- 805 - 1:10,000 scale - 1862 T- 880 - 1:10,000 scale - 1862 T- 882 - 1:10,000 scale - 1862 T-4638 - 1:10,000 scale - 1931

T-10417 supersedes these prior Bureau surveys for nautical charting purposes in common areas.

# 63. Comparison with Maps of other Agencies

Drakes Bay, Calif. (USGS)-1:24,000 scale - 1953

The maps are in good agreement except for discrepancies in shoreline at Scooner Landing and in the boundary of the Tomales Bay State Park. The shoreline shown on the quadrangle at Schooner Landing is in error. There are differences between the maps in geographic position of monumentare boundard corners of Tomales Bay State Park. The park boundary as constructed on T-10417 is based on the California Dept. of Natural Resources plot which includes plane coordinate positions of monumentare corners. Refer to paragraphs no. 33 and 41 (compilation report).

# 64. Comparison with Contemporary Hydrographic Surveys

H-8356 1:10,000 1956

Shoreline and alongshore details were transferred from the "incomplete" planimetric manuscript, compiled without field inspection, to the boat sheet prior to sounding. The planimetric manuscript was subject to field edit by the hydrographic survey and the photogrammetric field inspection party. The "advance" planimetric manuscript, based on field inspection but subject to final review, was used during verification of the hydrographic smooth sheet. All discrepancies between the two surveys were discussed with the Hydrographic Section and cleared up during final review of the planimetric survey.

# 65. Comparison with Nautical Charts

No 5603 1:30,000 1934 revised 4/28/58

Only a small portion of Tomales Bay is covered by T-10917. There is a difference between the chart and planimetric map in shoreline at Shallow Beach due to a natural change or a difference in interpretation.

Small portions of Schooner Bay and Home Bay are covered by T-10417. There is no contemporary hydrographic survey coverage of the area. Shoreline and alongshore details, with the exception of the approximate low water line were field inspected. There are considerable shoreline differences between the chart and map on the point off Schooner Landing and at the head of Home Bay.

# 66. Adequacy of Results and Future Surveys

This map complies with the National Standards of Map Accuracy and Bureau Requirements.

Reviewed by:

S.G. Blankenbaker

Approved by:

Chief, Review and Drafting Section Photogrammetry Division

Chief, Photogrammetry Division

12 V (CO

Chief, Nautical Charts Branch Charts Division

Chief, Coastal Surveys Div.

# NAUTICAL CHARTS BRANCH

# SURVEY NO. <u>T-10417</u>

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12-2-60	5603	R.E. Elkins	Betwee After Verification and Review Considered fully applied atthough no revisions were made in Orapia Estero:
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
<u> </u>	· · · · · · · · · · · · · · · · · · ·		

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

M-2168-1