# 10415

Diag. Cht. No. 5502.

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-159 Office No. T-10415

LOCALITY

State California

General locality Marin County

Locality Tomales Bay

Pelican Point to Marconi

194 55-57

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

LIBRARY & ARCHIVES

December 17, 1959 DATE .....

B-1870-1 (I)

### T - 10/15

Project No. (II): Ph-159

Quadrangle Name (IV):

Field Office (II): Portland Oregon

Chief of Party: V. Ralph Sobieralski 1957

Sub-Party: Point Reyes Stateion Calif. (1957)

Fred Natella

Photogrammetric Office (III): Tampa Florida

Officer-in-Charge: Arthur L. Wardwell

Instructions dated (II) (III): Project 6159, July 1956 (Field)

Copy filed in Division of Photogrammetry (IV)

Compilation Project 25160, 13 Aug. 1956

Project 25160, 22 Oct. 1956, Supplement I (Field) Office - Supplement I-Project Ph-159, 4 Oct. 1957

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:5,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV): 12 NOV Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 23 July 1959

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

MINDERCEAST LEGISLAND CONTRACTOR CONTRACTOR

Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., Mean Down water mean lower low water

Reference Station (III): Foster 1857

Lat.:

Long.:

Adjusted **XDOMEDISTIC** 

Plane Coordinates (IV):

State: Calif.

Zone: 3

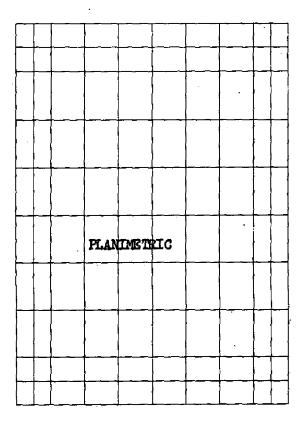
Y= 604,862.93 FT.

x= 1,308,018.82 FT.

Roman numerals indicate whether the Item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

\* 1956 Sub. Party location - Sebastopol, Calif.



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

### DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): C. H. Bishop

J. S. Chamberlin

C. D. Upham

C.H. Bishop-V.J. Franz

Planetable contouring by (II): Inapplicable

Date: Jan thru Apr. 1957

July-Aug. 1956

Date:

Completion Surveys by (II): Inapplicable

Date:

Mean High Water Location (III) (State date and method of location): Apr. 1957 Air Photo Compilation 1957 Field Inspection of 1955 photography

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

Date: 23 Aug.1956

Projection and Grids checked by (IV):

Date:

Control plotted by (III): Washington Office

Date: 1956

Control checked by (III): Washington Office

Date: 1956

Restate Rhotogr Stereoscopic

Control extension by (III): Washington Office

Stereoscopic Instrument compilation (III):

Date: 1956

Planimetry

I. I. Saperstein

Date: Apr. 1958

CHICKNESS .

Date:

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

Date:Apr. 1958

Photogrammetric Office Review by (III): M. M. Slavney

Date:Aug. 1958

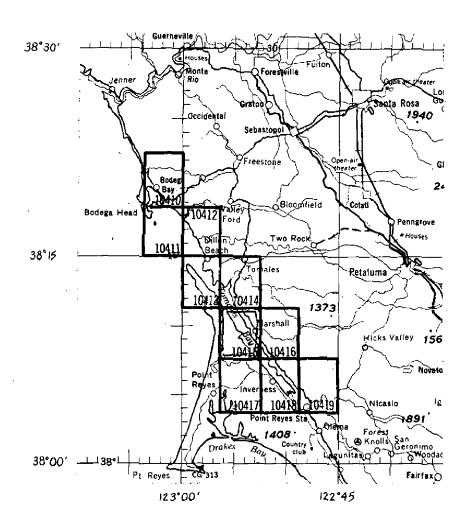
**Elevations on Manuscript** 

checked by (II) (III):

Inapplicable

Date:

### PLANIMETRIC PROJECT 25160 TOMALES AND BODEGA BAYS, CAL.



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10419		14	<u>-</u> ò_
!	TOTALS	101	45

### DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): Wild, Camera "W" and camera "S"

		PHOTOGRAPHS	(III)	
Number 55w 620	Date 10 Oct. 1955	Time 10:15	Scale 1:25,000	Stage of Tide
55W 621	11 11 11	10:15	11	4.1 "
55w 622 55w 647	11 11 11 11 11 11	10:16	11	3,9 3.3
55W 648	11 11 11	10:41	11	3.9 11
578 5802	23 Nov. 1957		1	

Predicated

Tide (III) 1959 TIDE TABLES Diurnal

Reference Station: Subordinate Station: San Francisco

TIME DIFFERENCE Marshall, Tomales Bay +0 34m +1 10m

Ratio of Mean Spring-Ranges Range Range

Subordinate Station: Height of MHW 4.3 ft.

Washington Office Review by (IV): 5.6.8 Lankenbaker

Date: July 1959

Final Drafting by (IV): Tampa Office

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 9

Shoreline (More than 200 meters to opposite shore) (III): 9

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

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 9

4 Recovered: 3 Recovered:

Identified: 6\*

Identified:

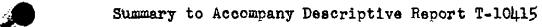
Number of BMs searched for (II): 3 Number of Recoverable Photo Stations established (III): 🗶 🗦

Number of Temporary Photo Hydro Stations established (III): None

Remarks: \*2stations reported lost, but were identified.

(Marconi Wireless Mast, 1929)

(White Barn Cupola, 1929) - Not held in bridging



This planimetric map is one of ten similar maps in project PH-159. The project covers the Bodega Bay-Tomales Bay area of the California coast. This survey covers a portion of Tomales Bay and the adjacent land area.

This is an instrument compilation project. Field work accomplished in 1956 and 1957 included field inspection and the establishment of some additional horizontal control. 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 and alongshore details for contemporary hydrographic surveys (1957). The 1957 field party inspected the MHW line and alongshore features.

The bridging and compilation of the "Incomplete" manu-scripts were accomplished in the Wash. Office. Final compilation by Kelsh plotter was accomplished in the Tampa Office.

Items registered under the survey will include a Descriptive Report and a positive impression on "cronar" of the scribed copy of the manuscript.

### THE 1956 AND 1957 FIELD INSPECTION REPORTS

### WERE SUBMITTED AS SEPARATE REPORTS.

INCLUDED IN THE PROJECT COMPLETION REPORT (1) Two field inspection reports (1956-1951)
(2) Three combined bridging and compilation reports
(3) Bridging sketch

INCLUDED IN THE DESCRIPTIVE REPORT FOR T10412

- (1) copies of field inspection reports (1956-1957)
- (2) Bridging Sketch
- 3 ) Two alcombined Bridging & Compilation Reports

The Bridging and Compilation Report for T-10415; T-10417; T-10418 are included in the Descriptive Report for T-10418.

### COMPILATION REPORT T-10415

### PHOTOGRAMMETRIC PLOT REPORT

The stereoplanigraph bridge was run in the Washington Office and a copy of that report is included with the Descriptive Report for T-10h18.

### 31. DELINEATION

The "Incomplete Manuscript" with shoreline, alongshore features, some roads and shoreline pass points was compiled in the Washington Office. Corrections to the shoreline were made graphically by this office from the field photographs holding the shoreline pass points for application to the smooth boat sheets. The manuscript was completed using the Kelsh Plotter.

The southwest corner of the manuscript was compiled from the 1957 photography.

The field inspection was adequate. Scrub shown as "S" on the field prints was shown as "open" on the manuscript.

### 32. CONTROL

The density of primary and secondary control was adequate.

### 33. SUPPLEMENTAL DATA

The boundary of Tomales Bay State Park was reconstructed using the following plat:

"Record of Survey for State of California, Dept. of Natural Resources, Division of Beaches and Parks" Dated April 1953, scale 1"= 400 (6 sheets)

### 34. CONTOURS AND DRAINAGE

Inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were compiled according to the field inspector's notes. The shoreline inspection was adequate. \*The low-water line was based on data furnished by the field inspector. The shallow areas were delineated by office interpretation of the photographs.

### 36. OFFSHORE DETAILS

All rocks recovered by the field inspector and those that could be seen on the photographs have been shown.

\* No low-water line or shallow areas shown on the registered manuscript.

### 37. LANDMARKS AND AIDS

Two landmarks have been shown and are reported on Form 567. \*
There are no fixed aids to navigation.

### 38. CONTROL FOR FUTURE SURVEYS

The field inspector recovered topographic station CUT 1931 with a note cautioning "Position should be verified by compilation method". The photostat of the 1931 form 524 gives the position on the N.A. datum. This compilation position checks within 6.4 meters of the 1931 position when the correction for datum is applied. The station is listed under Item 49. No other control was established.

### 39. JUNCTIONS

Junctions have been made with the following:

T-10hih to the north.
T-10hi7 to the south.

T-10416 to the east U.S.G.S. Quadrangle TOMALES, CALIF. 1:24,000, 1954 to the west.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

### 41. BOUNDARIES

The boundary of Tomales Bay State Park was reconstructed 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 TOMALES, CLAIF., 1:24,000 dated 1954. The two maps compare very forably except for a shoreline change around the town of Marshall.

There are no planimetric maps available in this office.

### 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; there were no important differences.

ORM 164 4-23-54)

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

٨.

FACTOR DISTANCE FROM GRID OR PROSECTION LINE IN METERS (BACK) 0**•**1 FORWARD SCALE FACTOR DISTANCE FROM GLID OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD (for control in bridging DATUM SCALE OF MAP 1:10,000 (New 1957 posttion) <u>gtatton destroyed</u> OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (BACK) (524 card FORWARD 38°-091-1112.2m 122° 53'-933.6m LONGITUDE OR x.COORDINATE LATITUDE OR y-COORDINATE 107.48 827.08 163.54 153.97 736.91 778.93 862.93 621 178.95 NA 1927 1308 222-15 PH-159 1316 1309 608 1309 621 621 **1**09 PROJECT NO. DATUM Ξ Ė = 1416 pg 4/12 SOURCE OF INFORMATION 11/h 84 70 (INDEX) MAP T. IO415 MARCONI WIRELESS McDONALDS HOUSE S CHY 1906 CUT 1931 (Topo Sta.) STATION MAST 1929 1856 SS MERSHON 1856 MERSHON FOS TER

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1956				
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### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

### THEMS TO BE CARRIED FORWARD

None.

Jumy 2 Saperstein
I. I. Saperstein
Cartographer (Photo)

APPROVED AND FORWARDED:

Filher Kill and Arthur L. Wardwell Chief of Party

### 48. GEOGRAPHIC NAME LIST

Names were taken from the TCMALES Quadrangle, Chart 5603 and field inspector's notes.

CALIFORNIA CYPRESS GROVE

DUCK COVE

HEARTS DESIRE

INDIAN HEACH INVERNESS RIDGE

KEHOE RANCH

LAIRDS LANDING

MARSHALL
MARSHALL - PETALUMA ROAD
MCDONALD MCDONALD

PEBBLE BEACH PELICAN PT.

REYNOLDS

\* SACRAMENTO LANDING \_\_\_ Checked by G.M. Ball 7/1/59 Correct usage SIR FRANCIS DRAKE HIGHWAY STATE 1

TOMALES BAY STATE PARK

\* YOUNG LANDING

\* U.S.C.& G.S. Chart 5603 shows this feature as YOUNG LANDING but U.S.G.S. Quadrangle TOMALES BAY 1:24,000 dated 1954 shows it as SACRAMENTO LANDING.

Names checked by G.M. Ball 7/1/59
Geog. Names Section

14/3

50,

### PHOTOGRAMMETRIC OFFICE REVIEW

T-10115

1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size WHS 4a Classification dabel unclassified
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy <u>MS</u> 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)WHS7. Photo hydro stationsXX8. Bench marks WPS
9. Plotting of sextant fixes XX 10. Photogrammetric plot report WHS 11. Detail points XX
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline WHS 13. Low-water line WHS 14. Rocks, shoals, etc. WHS 15. Bridges XX 16. Alds
to navigationXX 17. Landmarks WHS 18. Other alongshore physical featuresWHS 19. Other along
shore cultural features <u>WFS</u>
PHYSICAL FEATURES
20. Water features WHS 21. Natural ground cover WHS 22. Planetable contours XX 23. Stereoscopic
instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
features WIS
reatures
CULTURAL FEATURES
27. Roads WHS 28. Buildings WHS 29. Railroads XX 30. Other cultural features WHS
BOUNDARIES XX
31. Boundary lines WHS 32. Public land lines XX
MISCELLANEOUS
33. Geographic names WHS 34. Junctions WHS 35. Legibility of the manuscript WHS 36. Discrepancy
overlay XX 37. Descriptive Report WHS 38. Field inspection photographs WHS 39. Forms WHS
40. W. H. Shearouse M. M. Slayney
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.
Compiler Supervisor ,
43 Pamerte:
43. Remarks: comm. DC 34529

## Review Report Planimetric Survey T-10415 July 1959

### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

849 1:10,000 1862 4637 1:10,000 1931 880 1:10,000 1862 4638 1:10,000 1931

T-10415 supersedes the planimetric details on the prior bureau topographic surveys for nautical charting purposes.

### 63. COMPARISON WITH MAPS OF OTHER AGENCIES

Tomales, Calif. (USGS) 1:24,000 1954

There are no major discrepancies between T-10415 and the USGS quadrangle. Minor differences in planimetric details exist due principally to the difference between the maps in time and scale.

### 64. - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-8355 1:10,000 1957 H-8356 1:10,000 1957

The MHW line and alongshore details were transferred from the "Incomplete" photogrammetric manuscript (compiled without field inspection data) to the boat sheet prior to sounding. Details on the photogrammetric manuscript were subject to edit by the hydrographic survey and the 1957 photogrammetric field inspection party.

Photogra-mmetric field inspection data were utilized in compiling the advance planimetric manuscript in 1958. Discrepancies between the planimetric and hydrographic surveys were brought to the attention of the Hydrographic Section and disposed of during the final review of the planimetric manuscript. The two surveys are in agreement and together provide the shoreline and alongshore planimetric details required for nautical charting.

### 65. COMPARISON WITH NAUTICAL CHARTS

5603 1:30,000 1934 revised 4/28/58

Differences exist in shoreline and alongshore details.

### ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Approved by:

Section, Photogrammetry Div.

Chief,

Charts Division

Div. Chief, Coastal Surveys Division

### DESCRIPTIVE REPORT - DATA RECORD

T- 1047.

Project No. (II): Ph-159

Quadrangle Name (IV):

Field Office (II): Portland Oregon

Chief of Party: V. Ralph Sobieralski 1957

Sub-party: Point Reyes Station, California

Fred Natella

1956

Photogrammetric Office (III): Tampa, Florida

Officer-in-Charge:

A. L. Wardwell

Instructions dated (II) (III): Project 6159, 3 July 1956 Field

Copy filed in Division of Photogrammetry (IV)

Compilation Project 25160, 13 Aug. 1956

Project 25160 - 22 Oct. 1956, Suppl. 1 (Field)

Office-Supplement 1 Project Ph-159, 4 Oct. 1957

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

1:5,000

Scale Factor (III): Pantographed to 1:10,000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 9 July 1959

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Meanceentreconcerts a delicant

Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., description mean lower low water

Reference Station (III): ESTERO 2, 1938

Lat.:

Long .:

Adjusted DESCRIPTION

Plane Coordinates (IV):

State: Calif.

Zone: 3

Y= 578,658.71

x = 1,307,563.03

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

\* 1956 Sub-Party location - Sebastopol Calif.

DEPARTMENT OF COMMERCE COAST AND

# ODETIC SURVEY

# MONETONICINE STOR LANDMARKS FOR CHARTS

STRIKE OUT ONE ARCHART CONTRACTOR TO BE CHARTED

Form 567

Tomps P. crids

10 April

I recommend that the following objects which have (national peen inspected from seaward to determine their value as landmarks be charted on (netreption) the charts indicated.

The positions given have been checked after listing by L. L. Backershaft

Arthur L. Bartuell

STATE				_	POSITION			METHOD			TEAH:
			LAT	LATITUDE *	LON	LONGITUDE *		LOCATION	DATE		CHARTS
CHARTING	DESCRIPTION	SIGNAL	•	D.M. METERS	•	D. P. METERS	DATUM	SURVEY No.	LOCATION	HARBO OHSNI	M2110
TANK.	white cylinderical value tank hts 8 (107)		39 09	-	122 B	23.16	1551	150 S	1957	M	693
	Mary A Wilder Book & Bakene			9.4		8 3 2					
ECHEST.	with red tile hip roof.		8	1,307	722 55	201	•			*	•
	-		 								
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											16

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

Comm-DC 61327

### NAUTICAL CHARTS BRANCH

### SURVEY NO. <u>T-10415</u>

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12-2-60	5603	R.E.Elkins	Before After Varification and Review  Considered completely officed
			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
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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.