

10414

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-10414

LOCALITY

State California

General locality Sonoma and Marin Counties

Locality Tomales

1955-57

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE December 31, 1959

10414

DESCRIPTIVE REPORT - DATA RECORD

T - 10414

Project No. (II): **Ph-159**

Quadrangle Name (IV):

Field Office (II): **Portland, Oregon**

Chief of Party: **V. Ralph Sobieralski** 1957
Fred Natella 1956

* **Sub party: Point Reyes Station, Calif.**

Photogrammetric Office (III): **Tampa, Florida**

Officer-in-Charge: **Arthur L. Wardwell**

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

Copy filed in Division of

Compilation - Project 25160, 13 Aug. 1956

Photogrammetry (IV)

Project 25160 - 12 Oct. 1956 Suppl. 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):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): **11 June 1959**

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): **N. A. 1927**

Vertical Datum (III):

~~Mean sea level~~ except as follows: **MHW**
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., ~~mean low water~~ or mean lower low water

Reference Station (III): **HALLECK, 1930**

Lat.:

Long.:

Adjusted
Unadjusted

Plane Coordinates (IV):

State: **Calif.**

Zone: **3**

Y= **629,659.61**

X= **1,309,285.24**

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.

DESCRIPTIVE REPORT - DATA RECORD

PLANIMETRIC

Areas contoured by various personnel
(Show name within area)
- (ii) (iii)

Inapplicable

DESCRIPTIVE REPORT - DATA RECORD
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Field Inspection by (II): **C. H. Bishop**

Date: **April 1957**

J. S. Chamberlin

C. D. Upham

C.H. Bishop - V.J. Franze

July-Aug. 1956

Planetable contouring by (II): **Inapplicable**

Date:

Completion Surveys by (II): **Inapplicable**

Date:

Mean High Water Location (III) (State date and method of location):

April 1957

Field Inspection (1957) of 1955 photography

Air Photo Compilation

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

Date: **Aug. 21, 1956**

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

Date: **Aug. 21, 1956**

Control plotted by (III): **Washington Office**

Date:

Control checked by (III): **Washington Office**

Date:

~~Radial Plot or~~ Stereoscopic

Washington Office

Date:

Control extension by (III):

Stereoscopic Instrument compilation (III):

Planimetry

R. E. Smith

Date: **Apr. 1958**

~~Contours~~

Date:

Manuscript delineated by (III): **R. E. Smith**

Date: **May 1958**

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

Date: **Sept. 1958**

Elevations on Manuscript

checked by (II) (III): **Inapplicable**

Date:

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): **C&GS WILD "W"**

Number	Date	Time	Scale	Stage of Tide
55-W-644 - 647	10 Oct. 1955	1040	1:25,000	*3.9
55-W-670 - 673	"	1056 - 1057	"	Inapplicable
55-W-624	"	10:18		3.9
55W 695	"	11:12		3.4

PREDICTED

Tide (III)

Reference Station: **San Francisco**Subordinate Station: **Marshall, Tomales Bay** ^{10^h34}Subordinate Station: **Height of MHW above MLLW 4.3ft**1959 TIDE TABLES
TIME DIFFERENCEHW ^{7^h10^m}
LW

WEIGHT DIFFERENCES Diurnal

Ratio of Ranges	Mean Range	Spring Range
-	3.9	5.7
HW -0.5	3.6	5.4
LW -0.2		

-0.1

Washington Office Review by (IV): **S.G. Blankenbaker**Date: **June, 1959**Final Drafting by (IV): **TAMPA**Date: **1958**

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): **12**Shoreline (More than 200 meters to opposite shore) (III): **3**Shoreline (Less than 200 meters to opposite shore) (III): **-**Control Leveling - Miles (II): **Inapplicable**Number of Triangulation Stations searched for (II): **10***Recovered: **4***Identified: **5* ****Number of BMs searched for (II): **3**Recovered: **3**Identified: **2**Number of Recoverable Photo Stations established (III): **0**Number of Temporary Photo Hydro Stations established (III): **0**

Remarks:

***One station (VIXEN, 1949) falls east of sheet**

**** One station Preston Ranch N. Gable, 1906 (recovery & identification) not used in stereo. bridge**
one station (identified) Halletts schoolhouse Spire was identified for stereo. Bridge control (sta. was destroyed)

INCLUDED IN THE PROJECT COMPLETION REPORT

- (1) 1956 & 1957 Field Inspection Reports
- (2) Three combined bridging and compilation reports
- (3) Bridging sketch

THE 1956 and 1957 FIELD INSPECTION

REPORTS WERE SUBMITTED AS SEPARATE

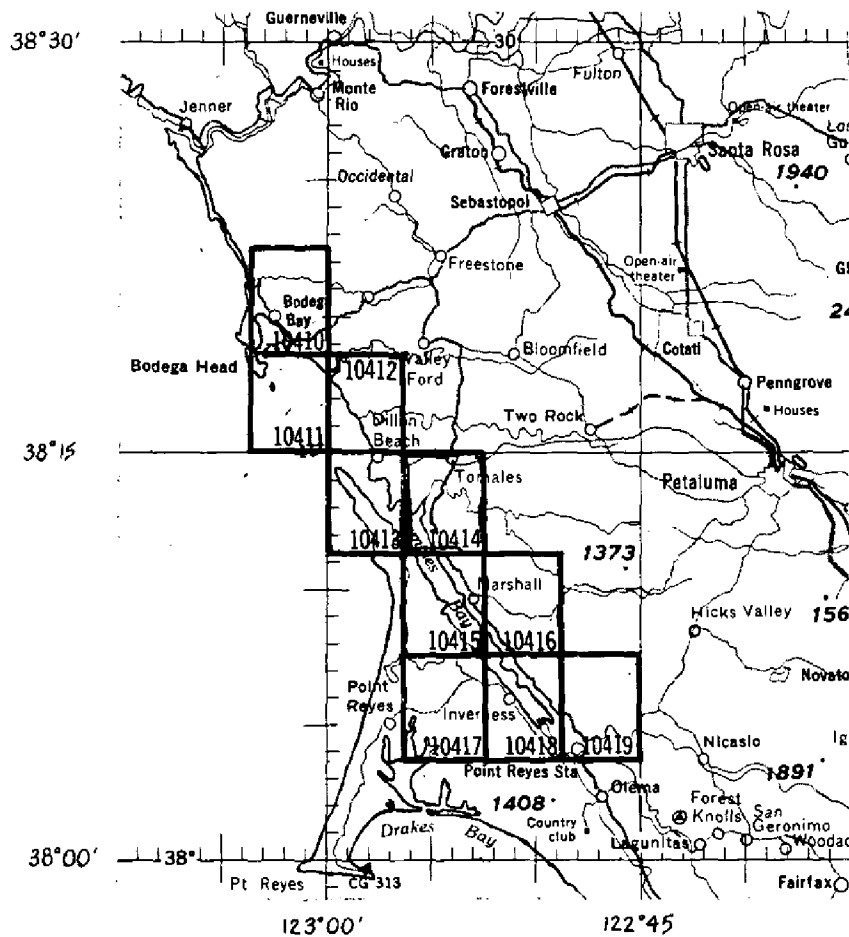
REPORTS.

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

PLANIMETRIC PROJECT 25160 TOMALES AND BODEGA BAYS, CAL.

5



OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	AREA SQ. MI.	LIN. MI. SHORELINE
10410	12	5
10411	1	2
10412	11	4
10413	6	13
10414	12	3
10415	9	9
10416	13	1
10417	13	1
10418	10	7
10419	14	0

TOTALS 101 45

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-10414

Planimetric map T-10414 is one of twelve similar maps in project PH-159. The project covers the Bodega Bay-Tomales Bay area of the California Coast. T-10414 covers a portion of the north end of Tomales Bay at the mouth of Walker Creek and the town of Tomales.

PH-159 is an instrument compilation project. Field work in advance of compilation was accomplished in 1956 and 1957. The 1956 field party recovered and identified 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 inspection for use in compiling the complete planimetric manuscripts. The bridging and compilation of the "Incomplete" manuscripts was accomplished in the Washington Office. The compilations were completed (Kelsh Plotter) in the Tampa Office.

Items registered under T-10412 will include a descriptive report and a positive impression on "carbon" of the scribed copy of the manuscript.

MAP T-.....10414..... PROJECT NO.....6159..... SCALE OF MAP.....1:10,000..... SCALE FACTOR.....

[illegible]

1 1 FT. = 3048006 METER STEREO. INSTR. SECTION
COMPUTED BY: WASH OFFICE
DATE:

COMPUTED BY: WASH OFFICE

DATE 1956

CHECKED BY. WASH. OFFICE

DATE 1956

COMM-DC-57843

COMPILATION REPORT T-10414

PHOTOGRAMMETRIC PLOT REPORT

21 through 30

The stereoplanigraph bridge was run in the Washington Office. Although most of the bridge points held well, points number 451, 461, 712 and 722 failed to hold by 0.7 m.m. to 1.8 m.m. The discrepancies were meaned through the models.

31. DELINEATION

The "INCOMPLETE MANUSCRIPT" was delineated by the instrument method in the Washington Office. Shoreline corrections noted during field inspection were applied by the graphic method and furnished the Washington Office for the smooth boat sheets. The manuscript was completed using the Kelsh Plotter.

The field inspection was satisfactory. Areas shown as S (scrub) on the field prints were shown as "open" on the compilation.

32. CONTROL

The density of primary and secondary control was adequate. Refer to Items 21 through 30.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage has been delineated according to field inspection notes and photographic interpretation.

35. SHORELINE AND ALONGSHORE DETAILS

The high-water line and rocks were delineated according to the field inspection notes.

The shoreline inspection was adequate.

The shallow areas were delineated by office interpretation. The low-water line could not be discerned.

36. OFFSHORE DETAILS

Offshore details were delineated from field inspection notes and office interpretation.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made with the following:

T-10415 to the south

T-10413 to the west

VALLEY FORD, U.S.G.S. 1:24,000 - to the north

POINT REYES N.E., U.S.G.S. 1:24,000 - to the east

40. HORIZONTAL AND VERTICAL CONTROL

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U. S. Geological Survey quadrangle TOMALES, CALIF., scale 1:24,000, compiled from aerial photographs taken in 1952, field checked in 1954. Only minor differences were noted.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with C&GS Chart No. 5603, scale 1:30,000, 2nd edition Nov. 1934, revised Feb. 4, 1952. Only minor differences were noted.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Rexford B. Smith, Jr.
Rexford B. Smith, Jr.
Carto Photo Aid

APPROVED AND FORWARDED:

Arthur L. Wardwell
Arthur L. Wardwell
Chief of Party

48. GEOGRAPHIC NAME LIST

BLAKES LANDING
BOLINAS RIDGE

CALIFORNIA —
CAMP TOMALES
CERENI ROAD —

DILLON BEACH ROAD —

HAMLET —
HOG ISLAND —

JOINT UNION HIGH SCHOOL —

KEYS CREEK —

MIDDLE ROAD —

NICKS COVE

OBLATES OF ST JOSEPH NOVITIATE —
OCEAN ROAR

PELICAN POINT
PRESTON POINT

SHORELINE HIGHWAY —

TOMALES
TOMALES BAY
TOMALES PETALUMA ROAD —

WALKER CREEK

George M. Bare
Geographic Name Section
June 3, 1959

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10414

1. Projection and grids MMS 2. Title - 3. Manuscript numbers - 4. Manuscript size -4a Classification label Unclassified
CONTROL STATIONS5. Horizontal control stations of third-order or higher accuracy MMS 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) XX 7. Photo hydro stations XX 8. Bench marks MMS 9. Plotting of sextant fixes XX 10. Photogrammetric plot report XX 11. Detail points MMS

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline MMS 13. Low-water line XX 14. Rocks, shoals, etc. MMS 15. Bridges MMS 16. Aids to navigation XX 17. Landmarks XX 18. Other alongshore physical features MMS 19. Other along-shore cultural features MMS

PHYSICAL FEATURES

20. Water features MMS 21. Natural ground cover MMS 22. Planetable contours XX 23. Stereoscopic instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical features MMS

CULTURAL FEATURES

27. Roads MMS 28. Buildings MMS 29. Railroads MMS 30. Other cultural features MMS

BOUNDARIES

31. Boundary lines XX 32. Public land lines XX

MISCELLANEOUS

33. Geographic names MMS 34. Junctions MMS 35. Legibility of the manuscript MMS 36. Discrepancy overlay MMS 37. Descriptive Report MMS 38. Field inspection photographs MMS 39. Forms MMS40. M.M. Slavney William A. Rasure
M.M. Slavney Reviewer Supervisor, Review Section or Unit
William A. Rasure

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. Remarks:

REVIEW REPORT

PLANIMETRIC SURVEY T-10414

JUNE 11, 1959

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

T-849	1:10,000	1862
T-3840	1:10,000	1921
T-4597	1:10,000	1930

T-10414 supersedes these prior surveys for nautical charting purposes in common areas except for contours on T-849.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

Minor differences exist in planimetry due to differences in interpretation, time, scale and mapping requirements.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

H-8355 1:10,000 1957

The MHW and other details were transferred to the boat sheet prior to sounding. Inking of the smooth sheet was completed prior to the final review of T-10414. The Descriptive Report for H-8355 mentions discrepancies in the locations of rocks awash and in the locations of oyster pen fences. The discrepancies were discussed with the Hydrographic Section and disposed of during the final review.

65. COMPARISON WITH NAUTICAL CHARTS

5603 1:130,000 1934 revised 4-28-58

Differences exist in alongshore and interior features.

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
S. G. Blankenbaker

APPROVED BY:

L. C. Landy
Chief, Review and Drafting Section
Photogrammetry Division

L. W. Swanson
Chief, Photogrammetry Division

24 Nov. '59

mgg

Max H. Little
Chief, Nautical Charts Branch
CHARTS DIVISION

J. Bowie
Chief, Coastal Surveys Division

NAUTICAL CHARTS BRANCH

SURVEY NO. T-10414

Record of Application to Charts

[illegible]

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.