# 10416

10416

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-10416

LOCALITY

State California

General locality Marin County

Locality Tomales Bay

Bolinas Ridge

19# 55-57

CHIEF OF PARTY

December 31, 1959

LIBRARY & ARCHIVES

DATE

3-1870-1 (1)

#### DESCRIPTIVE REPORT - DATA RECORD

T - 10116

Project No. (II): Ph-159

Quadrangle Name (IV):

Field Office (II): Portland Oregon

Chief of Party: J. Ralph Sobieralski (1957)

\* SUB - PARTY: Point Reyes Station, Calif.

Fred Natella (1956)

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, Supp.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 1958

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

breadsacterd except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., 2000 to 2000 mean lower low water

Reference Station (III): HANS 1857

Lat.:

Long .:

Adjusted **Management** 

Plane Coordinates (IV):

State:

Zone:

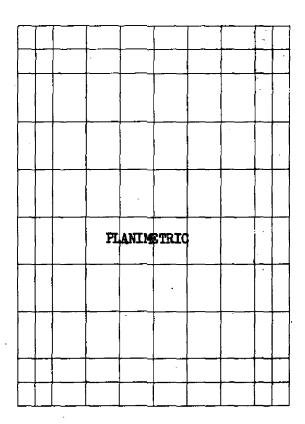
Y= 603,048.17 FT.

X= 1,319,266.29 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.

\* Sub. Party location - Sebastopol, Calif.



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

#### DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II):

C. H. Bishop

Date: April 1957

J. S. Chamberlin

C. D. Upham

1 ----

July - Aug. 1956

C.H. Bishop - V.J. Franz

Planetable contouring by (II): Inapplicable

Date:

Completion Surveys by (II):

None

Date:

Mean High Water Location (III) (State date and method of location): April 1957 Air Photo Compilation
1957 field inspection of 1955 photography

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

Date: Aug. 1956

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

Date: Aug. 1956

Control plotted by (III): Washington Office

Date: - 1956

Control checked by (III): W.O.

Date: - 1956

Regiel Plotor Stereoscopic

Control extension by (III): Washington

Date: 1956

Planimetry

W. W. Dawsey

Date: Sept. 1958

Stereoscopic Instrument compilation (III):

**EMADENDE** 

Date:

Manuscript delineated by (III): W. W. Dawsey

Date: Sept. 1958

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

Date: Oct. 1958

**Elevations on Manuscript** 

checked by (II) (III):

Inapplicable

Date:

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

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

Diapositives

MOCOGGGGGGGGGGGGG

Number	Date	Time	Scale	Stage of Tide
55w-649 55w-650 55w-668	10 Oct. 1955	10:42 10;42 10:55	1:25,000	3,8 3.3

Predicted Tide (III)

+04 34m

Diurnal

Reference Station: San Francisco

1959 TIDE TABLES TIME DIFFERENCE

+14,0m

Ratio of Mean SPRINK Range Ranges Range 3.9 5.7 1:2 3.6

Subordinate Station: Marshall, Tomales Bay High WATER LOW WATER Subordinate Station: Height of MHW 4.3 ft.

Cabove reference plane)

Washington Office Review by (IV): 5.6. Blankenbaker

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): 13

Shoreline (More than 200 meters to opposite shore) (III): 1MI Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): 3

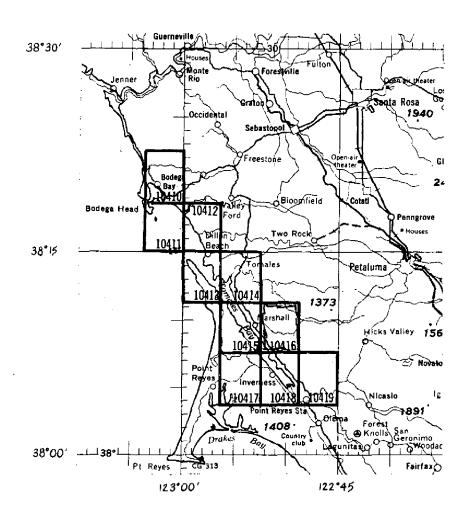
Recovered: 2 Recovered: -- Identified: 2 Identified: --

Number of BMs searched for (II): None Number of Recoverable Photo Stations established (III): None

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

Remarks:

# PLANIMETRIC PROJECT 25160 - 5 TOMALES AND BODEGA BAYS, CAL.



OFFICIAL	MILEAGE	FOR COST	ACCOUNTS
	IA.	REA	LIN.MI.
SHEET NO	SQ.	.M.	SHORELINE
10410	12	2	5
10411		l	2
10412	17	L	4
10413		<b>6</b>	13
10414	12	2	3
10415	9	9	9
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Summary To Accompany Descriptive Report T-10416

Planimetric map T-10416 is one of ten similar maps comprising Project PH-159. The project covers the Bodega Bay-Tomales Bay area of the California coast. This survey is in the south half of the project and covers a portion of the east shore of Tomales Bay and the alongshore area.

This is an instrument compilation project. Field work accomplished in 1956 and 1957 included field inspection and the recovery and establishment of horizontal control. The 1956 field party recovered, established and identified 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 shoreline and alongshore features.

The bridging and compilation of the "Incomplete" manuscripts were accomplished in the Washington Office. Field compilation by Kelsh plotter was accomplished in the Tampa Office.

Items registered under T-10416 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 (1956-1957).

(2) Three combined bridging and compiloration reports
(3) Bridging sketch

INCLUDED IN THE DESCRIPTIVE REPORT FOR T-10412

as copies of field inspection reports (1956-1957)

(e) Bridging Sketch

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

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

Desc. Report for

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

DESCRIPTIVE REPORT

COMM- DC- 57843 N.A. 1927 - DATUM

DISTANCE
FROM GAJO OR PROJECTION LINE
FROM GRID OR PROJECTION LINE
IN METERS (BACK) Q FORWARD SCALE FACTOR 1956 (BACK) DATE. FORWARD DATUM SCALE OF MAP 1:10,000 W. 0. DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS (BACK) CHECKED BY... FORWARD LONGITUDE OR x-COORDINATE LATITUDE OR y-COORDINATE 266.29 023.61 263.43 398.85 023.61 724.37 MAP T. 10416 PROJECT NO. 6159 1956 1319 1319 603 1329 603 603 DATE SOURCE OF INFORMATION DATUM 1 FT. = ,3048006 NETER COMPUTED BY: W. O. 1857 MILL(C of E) STATION S S M111 SS HANS HANS

овм **164** 4-23-54)

#### COMPILATION REPORT T-10416

#### PHOTOGRAMMETRIC PLOT REPORT

21 through 30.

The stereoplanigraph bridge was run in the Washington Office. The bridge points held except point No. 503. Point 503 failed to hold by about 20 meters (2 mm.on manuscript) while holding the other control. The new position also held when the adjoining flight was set up.

The bridging report is bound with the descriptive report for T-10418.

#### 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 for application to the smooth boat sheets. Interior delineation was accomplished by Kelsh plotter in the Tampa Office.

Field inspection was adequate. Areas labelled "S" (scrub) by the field inspector were shown as "open" on the map compilation.

#### 32. CONTROL

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

Corps of Engineers station MILL is shown on the map manuscript without a date of establishment since the date was not furnished by the field party or the Washington Office.

#### 33. SUPPLEMENTAL DATA

None used.

#### 34. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage was delineated according to field inspection notes and photographic interpretation.

#### 35. SHORELING AND ALONOSHORE DETAILS

Mean high-water line and alongshore details were delineated according to field inspection notes.

Shoreline inspection was adequate and delineation of low-water and shallow lines was based on the information furnished by the field inspector.

#### 36. OFFSHORE DETAILS

Rocks have been shown as indicated by the field inspector. No other offshore details are indicated.

#### 37. LANDMARKS AND AIDS

There are none.

#### 38. CONTROL FOR FUTURE SURVEYS

None.

#### 39. JUNCTIONS

Junctions have been made with the following:

To the north - USGS Quadrangle POINT REYES NE To the east - USGS Quadrangle POINT REYES NE To the south - T-10418 To the west - T-10415

#### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

#### 46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle POINT REYES NE CALIF. 1:24,000. Dated 1954. A favorable comparison was made. No other maps were available.

#### 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 major differences were noted.

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

None.

# 66. Adequacy of Results and Future Surveys

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

Reviewed by:

Approved by:

Review & Drafting Section

Photogrammetry Division

Chief, Photogrammetry Div.

Chief, Nautical Charts Division

Chief Coastal Surveys Div.

### ITEMS TO BE CARRIED FORWARD

None.

W. W. Dawsey Cartographer (Photo)

APPROVED AND FORWARDED:

Arthur L. Wardwell Chief of Party

48. GEOGRAPHIC NAME LIST

BOLINAS RIDGE

CALIFORNIA

FRINK CANYON

MARSHALL - PETALUMA ROAD MILLERTON GULCH

TOMALES BAY

VERDE CANYON

WALKER CREEK

Names approved
Thy 8, 1459
L. Heck

# PHOTOGRAMMETRIC OFFICE REVIEW

T- 10116

50.
1. Projection and grids WHS 2. Title WHS 3. Manuscript numbers WHS 4. Manuscript size who are as siried
4a Classification label
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 XX
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 WHS 14. Rocks, shoels, etc. WHS 15. Bridges XX 16. Alds
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 XX 23. Stereoscopic
instrument contours XX 24. Contours in general XX 25. Spot elevations XX 26. Other physical
features WHS
CULTURAL FEATURES
27. Roads WRS 28. Buildings WHS 29. Railroads XX 30. Other cultural features WHS
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names WIS 34. Junctions WIS 35. Legibility of the manuscript WIS 36. Discrepancy
overlay 37. Descriptive Report MS 38. Field inspection photographs WB 39. Forms WHS
40. William H. Shearouse M. M. Slavey
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.
O maller
Compiler Supervisor

43. Remarks:

# Review Report Planimetric Survey T-10416 July 1959

#### 62. Comparison with Registered Topographic Surveys

No. 840 - 1:10,000 scale - 1862 No. 4638 - 1:10,000 scale-1931 No. 880 - 1:10,000 scale - 1862

T-10416 and the contemporary hydrographic survey (H-8356) together provide the required shoreline and alongshore planimetric details for nautical charting and supersede the prior topographic surveys for this purpose. Possible exceptions are the three rocks "awash" shown on topographic survey T-4638 approximately 30 meters offshore at latitude 38°08'. There are no photogrammetric field inspection data pertaining to rocks in the area and in addition no rocks can be seen on the photographs. The rocks were not accounted for by the hydrographic survey.

#### 63. Comparison with Maps of Other Agencies

Point Reyes NE, Calif.-1:24,000 scale - 1954

Common details are in good agreement. Minor differences exist due to differences in time and scale.

#### 64. Comparison with Contemporary Hydrographic Surveys

H-8356 1:10,000 scale 1957

A copy of the incomplete manuscript (compiled without field inspection), a partial compilation which included shoreline, adjacent inshore features and offshore rocks was furnished the hydrographic party. Later the shoreline and alongshore details were corrected using the 1957 photogrammetric field inspection and a copy of the corrected manuscript furnished the hydrographic party in Oct. 1957. Differences between the hydrographic smooth sheet and the final photogrammetric manuscript were discussed with the Hydrographic Section during the final review of the photogrammetric survey. Discrepancies were resolved and the two surveys are in agreement.

### 65. Comparison with Nautical Charts

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

Minor differences exist in shoreline and alongshore features.

# NAUTICAL CHARTS BRANCH

# SURVEY NO. <u>T-10416</u>

# Record of Application to Charts

الربية سرط أحدا	
03 R.E. Elkins	Before After Verification and Review.  Considered fully applied
	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.