6378

Form 504
Rev. Dec. 1933
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Topographic / ~~*Hydrographic*~~ } *Sheet No.*
Field No. B-1935

State CALIFORNIA

LOCALITY

Northern California ~~NORTH~~ COAST

USAL AND VICINITY

193 5

CHIEF OF PARTY

F. H. Hardy

U. S. GOVERNMENT PRINTING OFFICE: 1934

6378

Applied to chart 5602 June 25, 1937 g.H.S. 25 June 17, 1936

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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 Letter B

REGISTER NO. 6378

State CALIFORNIA

General locality ~~NORTH COAST~~ Northern California Coast

Locality USAL AND VICINITY

Scale 1:10,000 Date of survey June and July, 1935

Vessel U.S.C. & G.S.S. GUIDE

Chief of Party F. H. Hardy

Surveyed by Max G. Ricketts

Inked by Max G. Ricketts

Heights in feet above high water to ground ~~to tops of trees~~

Contour Approximate ~~contour~~ Form line interval 100 feet

Instructions dated HT-206 May 2nd, 1935

Remarks: Complete resurvey of shoreline and offshore features, form lines revised only.

U. S. GOVERNMENT PRINTING OFFICE: 1928

DESCRIPTIVE REPORT

to accompany

Topographic Sheet No. B.

PROJECT NO. HT-206

U.S.C. & G.S.S. GUIDE F. H. Hardy, Commanding

Season of 1935

* *

INSTRUCTIONS

Director's instructions dated May 2,1935.

LIMITS

This sheet covers the shoreline of the North Coast of California, from South Usal to Little Jackass 2. Junction at the south end is with Sheet A-1935 and at the north end with Sheet C-1935.

DESCRIPTION

The hills at the south end of this sheet rise abruptly from the beach over grass covered slopes to about 1000 feet and then with an easy grade over timbered slopes to the top of the ridge, about 1200 feet elevation. Numerous slides and steep bluffs show on the coastal face of this section, the points have sheer rock bluffs. From the top this ridge slopes gradually northward toward Usal Valley. North of the valley the hills rise with abrupt slopes covered with scattered timber to about 800 feet then with a gradual slope heavily timbered to the top of the ridge about 2000 feet elevation. This section has sheer rocky bluffs from the vicinity of Timber Ridge on to the north end of the sheet. A small sand and gravel beach lies at the mouth of Usal Valley, the creek cuts through to the ocean during the winter rains. Usal Valley is quite narrow and has abrupt walls.

The old sawmill and landing at Usal have been abandoned for a good many years, little remains to mark their location. Big White Rock is the most prominent object on this sheet. It is a large white 95 foot rock which shows prominently during the periods of low clouds.

CONTROL

The control for this sheet was furnished by the 1930 scheme of second order coastal triangulation.

SURVEY METHODS

This sheet was surveyed by a shore party. It was impractical to make small boat landings along this coast during most of the season.

South Usal was occupied for cuts and depression angles.

A traverse down the coastal side of the ridge from South Usal into Usal Valley and up the north side to close on North Usal 2. Closure was 6 meters, not adjusted as slope corrections were excessive in this traverse. A check, before dropping down into the valley, by resection on Shoreline Rock showed 3 meters error. From this traverse the section from the south end of the sheet to Shoreline Rock was located, it being impractical to traverse the beach. Offshore features were located by the intersection of at least three cuts and additionally checked by some depression angle distances, signals were also located by this method. Shoreline and close inshore detail was located by cuts and depression angle distances.

The position of LUG (app. Lat. 39-49.9 Long. 123-51.0) being determined by the above traverse, it was occupied and checked by resection on Shoreline Rock and Timber Point, Large White Rock Off; no adjustment was necessary.

A traverse south from LUG to Shoreline Rock, closure 3 meters, no adjustment. Additional cuts were taken to offshore features.

A traverse north from LUG to just inshore of Timber Point, Large White Rock Off; closure by resection on this rock 4 meters, no adjustment. Additional cuts were taken to the section between the south end of the sheet and Shoreline Rock. Offshore features were located by the intersection of at least three cuts. The shoreline was carried on this traverse to the impassable point just north of the stream which falls to high water line just north of Timber Point, Large White Rock Off. From this traverse cuts were also taken to offshore features northward.

From the point just north of this stream, the beach to the north is impassable. Timber Point 2, Little Jackass 2 and a three point position (app. Lat. 39-51.1 Long. 123-53.0) on the ridge were occupied for cuts and depression angles. All offshore features were located by the intersection of three or more cuts additionally checked by depression angle distances. Signals were located by the intersection of three cuts. Shoreline and close inshore detail was located by cuts and depression angle distances. Checks of from 3 to 8 meters were obtained by comparing depression angle distances with locations by cuts.

Elevations for checking the old form lines were taken on all triangulation stations and on the traverse points along the ridge at the south end of the sheet.

COMPARISON WITH PREVIOUS SURVEYS

This sheet covers the area previously surveyed on Sheets T-1323 and T-1324 in 1873. One discrepancy common to all the 1873 sheets which were resurveyed in 1935 is the lack of definition

between high water and MLLW rocks, this has occasioned numerous minor changes. The shoreline agreement is good with the exception of a small section just north of the Usal Valley in the vicinity of NIK. In this section as much as 40 meters difference was found, this being the extension of the toe of a very large slide. Throughout the sheet numerous additional rocks were charted.

Discrepancies warranting special attention are as follows:-

(1) Lat. 39-49.2 -- In the vicinity of Shoreline Rock it was necessary to make some minor changes in the location and the number of rocks in the group, additional rocks were added offshore. The position of these rocks as shown on this sheet B-1935 are the result of intersection of three cuts, the area was field checked on a low tide. Features as shown on this sheet B-1935 should be used for charting.

(2) Lat. 39-50.7 -- A high water rock shown on the 1873 sheet is replaced on this sheet by two MLLW rocks. The high water rock should be removed from the chart, this section ~~being~~ to be charted as shown on this sheet B-1935.

(3) Lat. 39-51.2 -- A minor discrepancy as to placement and number of rocks in the inshore group is noted. This section should be charted as shown on this sheet B-1935, representing the existing conditions.

Form lines have been revised slightly in the vicinity of Little Jackass 2, Timber Point 2 and the ridge north from South Usal.

The features as shown on this sheet B-1935 should be used for charting. Definition between high water and MLLW rocks and the numerous additional rocks added clearly define existing conditions in this section.

LANDMARKS FOR CHARTS

One landmark, Big White Rock, is submitted on Form No. 567. The triangulation name of this landmark is Timber Point, Large White Rock Off - 1930.

RECOVERABLE TOPOGRAPHIC STATIONS

Descriptions of stations are submitted on Form No. 524 for the following stations; NOB, HI, LUG, MIKE and BULL.

LIST OF NAMES

Well established names:- Big White Rock, Usal Valley and Timber Ridge.

MISCELLANEOUS

The tracings used in transferring Sheets T-1323 and T-1324 to this sheet are forwarded with this report. Discrepancies noted in this report are indicated on the tracing.

STATISTICS

Statute miles of shoreline -------- 5.7

Elevations ---------- 8

Magnetic meridians ---------- 2

Respectfully submitted,

Max G. Ricketts

Max G. Ricketts
Jr. H. & G.E.

Approved and Forwarded:

F. H. Hardy

F. H. Hardy,
Commanding Ship GUIDE

	Remarks	Decisions
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GEOGRAPHIC NAMES

Topographic Survey No. 6378

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Timber Ridge	5602									1
Usal Valley	5602									2
PACIFIC OCEAN	5602									3
										4
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Names approved Jan. 14 1936.										6
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				E.T. Eggert						8
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REVIEW OF TOPOGRAPHIC SURVEY No. 6378(1935) F "B"

Title (Par. 56) Usal and Vicinity, Northern California Coast, California

Chief of Party F.H. Hardy Surveyed by Max G. Ricketts Inked by Max G. Ricketts

Ship Guide Instructions dated May 2, 1936 Surveyed in June-July 1935.

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓

2. The character and scope of the survey satisfy the instructions. ✓

3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓

4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓

5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) This is a revision survey and changes only are indicated.

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) No additional maps have been submitted ✓

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.) No marshy or mangrove coast

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) ✓

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
Reviewed north to Lat. 39-50. RFE June 17, 1936.
Entire shoreline and rocks compared with the previous surveys — T. 1323 (1873) and T. 1324 (1873). * See reverse of this page.

10. ~~The span, draw and clearance of bridges are shown. (Par. 16c.)~~

11. Locations and elevations of summits are not given, except where contours were revised. (Par. 19, 51.) —

12. The tree line was not shown on mountains. (Par. 16g.) See Descr Rep for general description

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

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* Those old surveys are faulty in that they fail to distinguish between the three classes of rocks. All important rocks on the old surveys are shown on T. 6378 (1935), and this sheet only should be used in charting the rocks.

E.O.E.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) ✓

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓

17. The magnetic meridian was shown ~~and declination~~ was checked. (Par. 17, 52.) but there is no evidence that the declination

18. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) ✓

19. Junctions with contemporary surveys are adequate. ✓

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓

22. No additional surveying is recommended. ✓

23. The Chief of Party inspected and approved the sheet and the descriptive report. ~~after review by~~

24. Remarks: this survey shows evidence of careful and conscientious work by the topographer.

Reviewed in office by R.J. Christman, June 17, 1936.

Examined and approved: Inspected by E.P. Fair, Aug. 7, 1936

E.K. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Section of Field Work

L.O. Colbert
Chief, Division of Charts

G Rude
Chief, Division of Hyd. and Top.

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