

4403

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
E. LESTER JONES, Director	
<div>C. & G. SURVEY L & A APR 6 1929 Acc. No.</div>	
State: CALIFORNIA	
DESCRIPTIVE REPORT	
Topographic Hydrographic	Sheet No. ⁴⁴⁰³ 4403
LOCALITY	
SOUTH OF	
CRESCENT CITY	
NORTHERN CALIFORNIA	
Midway Pt. to Cushing Creek	
1928	
CHIEF OF PARTY	
F. G. ENGLE, H. & G. ENGINEER	

GOVERNMENT PRINTING OFFICE

T 4403 (1928)

Sunken rocks in Lat 41-42.1 Long 124-08.7
and in Lat 41-42.6 Long 124-08.8 have been transferred
from T 1248 (1871) and are being carried forward
in red in accordance with standard methods
of treatment of such rocks when they had not
been disproved.

Reviewed. *W. J. Jankowski*
March 9, 1935

DESCRIPTIVE REPORT

T O . A C C O M P A N Y

TOPOGRAPHIC SHEET NO. _____ SCALE: 1:10,000.

COAST OF NORTHERN CALIFORNIA SOUTH

OF CRESCENT CITY.

LIMITS: This sheet includes the shore-line of northern California South of Crescent City, between the Latitudes, $41^{\circ} 39'$ and $41^{\circ} 43'$ North and extending about a half mile inland.

GENERAL DESCRIPTION: The shore-line is very rugged. From the sand beach south of Crescent City the coast rises rapidly to rocky bluffs and sliding gulches. In the bights there are narrow gravel beaches at low tide. At high tide the seas run to the foot of the bluffs. The rocky bluffs are for the most part composed of a loose formation that is constantly sliding into the sea to such an extent that in some bights the shoreline has moved inland from fifty to a hundred meters since the last survey was made.

Above the rocky bluffs the mountain slopes are covered with brush to the tree line which is reached at elevations from 500 to 1000 feet. The mountain tops are covered with a dense growth of Redwoods.

There are several high outlying rocks, the most important being the group known as the Sister Rocks. The highest has an elevation of 72 feet. There is another group of four rocks about a mile south of Sister Rocks, the highest having an elevation of 27 feet. This group is about threequarters of a mile off shore.

CHANGE OF COAST LINE: The previous survey was found to be in error in regards to the shore-line and the shape of rocks. Many of the bights have receded. Part of this may be due to slides and erosion. However it is evident that some of the points were not detailed enough in the original survey.

The mouth of Damnation Creek was charted 120 meters north of its actual location. Due to the rocky formation the mouth could not have changed since the original survey.

SURVEY METHODS: The triangulation stations, Round Rock, Beach, Ledge, Easy, Climb and Sister Rock were recovered and used as control for this sheet.

Ten new signals were located for hydrography, namely; First, End, Slope, Slide, Led, Lo, Brown, Out, Dun, Bluff. These signals were all permanently marked.

A traverse was run from triangulation station Beach south along the Redwood Highway to triangulation station Ledge and on to triangulation station Easy and in each case checked. A traverse was run along the top of the bluff from triangulation station Easy to triangulation station Climband south to the limit of the sheet at signal Bluff. Position of Bluff was checked by resecting on station Sister Rock and by traversing back along the beach to a point below triangulation station Easy. Position there was checked by resection. Traverse was carried from Easy to the beach and north to a point below Ledge and checked. All the details of shoreline were located by rod readings, rocks off-shore by three or more cuts. There was adequate control and resections were made on either Round Rock or Sister Rock together with one of the other stations at each plane-table set-up.

Contours were found to be in error in all gullies and bights so they were relocated. Contours were located by rod-readings and cuts using the hypsograph for computing the elevations. Elevations are in feet above high water. Contour interval 20 feet.

Some of the change in contours may be due to slides that are continually taking place in this stretch of coastline.

A magnetic meridian was found on November 15, using the declinoire, at triangulation station Ledge.

Party consisted of three men, one officer and a truck, for transporting party.

Work on this sheet was executed by a party from the Str. Discoverer from November 1, to November 21, 1928, according to instructions dated March 13, 1928.

Magnetic declination	scaled	21° 00'
Declinoire error		5.9
Observed declination		21 05.9

Respectfully submitted,

A. C. Thorson
A. C. Thorson,
Jr. H. & G. Eng'r.
Topographer.

Approved and forwarded:

F. G. Engle
F. G. Engle,
H. & G. Eng'r,
Chief of party.

STATISTICS

Statute miles of shore-line----- 7.47

Statute miles of roads ----- 4.03

Statute mile of creeks ----- 1.38

Square statute miles of topography ----- 2.30

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

AND REFER TO No. 11-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4403

Midway Point to Cushion Creek, Calif.

Surveyed in 1928

Instructions dated March 13 and May 8, 1928 (DISCOVERER)

Chief of Party, F. G. Engle.

Surveyed by A. C. Thorson.

The survey complies with the General Instructions.

It also complies with the specific instructions, except that there are three sunken rocks that appear on the old survey which are not shown on T. 4403, nor is there any indication that they are non-existent.

Pencil notations of the doubtful rocks, which should be cleared up by the field party, have been placed on the sheet.

Cushion Creek on the sheet is Cushing Creek on chart 5702/

The field drafting is excellent.

Reviewed by E. P. Ellis, July, 1929.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

Chief, Division of Charts

Chief, Div. of Hyd'y and Top'y

PLANE TABLE POSITIONS.

Object	Latitude D.M.			Longitude D.P.			Height	Remarks
	°	'	meters	°	'	meters	feet	
First	41	42	773	124	08	865	20	W.W. Marked with $\frac{1}{2}$ " galv. i. pipe
End	41	44	32	124	08	662	8	W.W. Marked-same
Slope	41	41	549	124	08	731	85	W.W. " "
Slide	41	40	1753	124	08	455	80 Approx.	W.W. " "
Led	41	40	738	124	08	469	203	W.W. " "
Lo	41	40	100	124	08	337	12	W.W. " "
Brown	41	39	1189	124	08	55	93	W.W. " "
Out	41	39	436	124	08	1088	13	W.W. " "
Dun	41	39	87	124	07	768	20	W.W. " "
Bluff	41	38	1522	124	07	625	61	W.W. " "
Rock	41	39	1827	124	08	980	51	Large rock $\frac{1}{2}$ mile north of Sister Rks.
Rock	41	38	1324	124	08	826	27	Small rock. Highest of four south of Sister Rocks.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L & A
APR 6 1929
Acc. No.

REG. NO.

4403

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 JREGISTER NO. **4403**State CALIFORNIAGeneral locality ~~NORTHERN CALIFORNIA~~ South of Crescent CityLocality ~~SOUTH OF CRESCENT CITY~~ Midway Pt to Cushing CreekScale 1:10,000 Date of survey NOV. 1, 1921, 1928Vessel STR. DISCOVERERChief of Party F. G. ENGLESurveyed by A. C. THORSONInked by A.C.T.Heights in feet above MHW to ground ~~at tops of trees~~Contour ~~Approximate contour~~ **Form line** interval 20 feetInstructions dated MARCH 13, 1928

Remarks: