

3861

G. & S. SURVEY

L.S.A.

FEB 21 1922

AGE No.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: *A. E. Alaska*

11-5072

DESCRIPTIVE REPORT.

*Topo* Sheet No. *3861*

LOCALITY:

*San Fernando  
Island - vicinity  
of Pt. Garcia*

*91*  
1921

CHIEF OF PARTY:

*T. J. Maher*

LIST OF TOPOGRAPHIC POSITIONS AND

D E S C R I P T I V E R E P O R T

To Accompany Topographic Sheet No.

of

GARCIA COVE AND VICINITY

S. E. Alaska

W. Coast Prince of Wales I.

September, 1921

Surveyed by L. C. Wilder

T. H. Maher, Chief of Party.

Descriptive Report to Accompany Topographic Sheet No.    of  
Garcia Cove and Vicinity.

This topographic survey of Garcia Cove and Vicinity was made following instructions from the Director, U.S.C. & G. Survey to T.J. Maher H. & G. Engineer, dated Feb. 12, 1921.

Limits of the Sheet.

This sheet covers the north-west part of San Fernando Island, west of Prince of Wales Island, from Point San Pasqual to the north-west entrance to Portillo Channel, including Garcia Cove.

General Description of the Coast.

Approaching San Fernando Island from the Gulf of Esquibel, no prominent features of importance, either along the shore or back in the interior of the island, are visible, excepting the Hermagos Islands when approaching Pt. Garcia from the direction of Noyes Island. This group of islands appears as a single island and well off-shore. The small island approximately half way between this group and Pt. San Pasqual, when distant two or three miles is prominent. It has a single evergreen tree upon its north side.

San Fernando Island is low and flat to a distance well back where there is a series of peaks, ranging from 420' to 885' in elevation, none of which are prominent. Just south of Pt. San Pasqual there is a small range of hills with an elevation at the north end of 228' and at the south end of 330' elevation. When in the locality of Garcia Cove this small range is prominent and the three peaks with elevations of 325', 341' and 320' appear as round nobs. The hill of 240' elevation, south of Point Garcia is un-prominent and its sides slope very gradually.

The shore-line above the high water line is almost extensively rocky ledge and in almost all of the bights, coarse gravel or small boulders. There are three sand beaches; one, just east of A Neck, another inshore from the island east of A Chill and a third south of the island which is 400m. SW of A Race. In nearly all places the shore line above the H.W. mark is of the same character as shown below the H.W. line.

Dangers and Islands

The Hermagos Islands have abrupt shore-lines and excepting the most westerly island are heavily wooded. One lone is a lone evergreen tree on the small island between the Hermagos Islands and Pt. San Pasqual. The larger islands in Garcia Cove are heavily wooded. The rocks upon which A Mid and Rock are located are bare and have small rocks close by which cover. At the head of Garcia Cove, a gravel and small boulder beach makes well out at low water. The small bight between A Pine and A Race is foul and has growing kelp. The rock 880m. NWxW of A Race is a rocky shelf about 25m. long in a NE and SW direction. A shoal area extends the length of the group of rocks north of the large island near A Port. The island upon which A Chill is located is bare and about 15' in elevation. The small island 100m. NxE of A Chill is broken out-cropping ledge and low in elevation. Inshore of the small island east of A Chill, a sandy reef makes out to that island. In the locality of A Port are low flat rocks and ledges making out into the water from these rocks.

70m. NW of  $\odot$  Kok is a reef which bares at  $1/2$  tide.

#### Anchorage.

In Garcia Cove south of the rock upon which  $\Delta$  Rock is located a good anchorage is afforded for large or small vessels. Anchorage can be made in about 10 fms. of water and sand bottom. Coming into an anchorage in Garcia Cove keep to the east side passing 100m. off  $\odot$  Bon and the island south of this signal and well off the two rocks which bare at  $3/4$  tide on the west side of the entrance. Pass between the two rocks upon which  $\Delta$  s Mid and Rock are located and after passing the latter swing to the west to an anchorage about 150m. south of this rock and midway between the east and west shores of Garcia Cove.

#### Survey Methods.

A traverse was run between  $\Delta$  Palisade and  $\Delta$  Pasqual and the signals shown on the dotted shore-line were located by rod readings and cuts. This traverse closed with no error.

In the locality of Garcia Cove no traverse was run. Nearly all the set ups were at triangulation stations.

A traverse was run from  $\Delta$  Race to  $\Delta$  Port with a closing error of 8m. ESE of  $\Delta$  Port. Adjustment was made proportionally from  $\Delta$  Port to  $\Delta$  Bold. As a check  $\Delta$  Bold and  $\Delta$  Hill were later established and observed upon, as the topography from  $\Delta$  Port to Pt. Garcia as included in a previous sheet was found in error, and resurveyed.

Dotted contours on the sheet were transferred from adjacent topographic sheets. The dashed contours were determined from cuts and elevations obtained by sextant angles from a launch anchored off-shore. The lay of the land south and southeast of Garcia Cove is low and flat and such that few elevations or cuts could be obtained by plane-table. However, the full line contours were drawn from six peaks located by the usual plane-table methods.

Note; All bearings as given in this descriptive report are true with north as an initial.

# TOPOGRAPHIC POSITIONS.

Station	Lat.	Meters.	Long.	Meters.	Remarks.
✓Hap	55-34	546.2 1309.4	133-22	122.0 929.5	w.w.
✓Pie	55-34	612.0 1242.6	133-22	227.0 824.5	w.w. on point.
●Kik	55-34	586.0 1269.6	133-22	362.5 689.0	w.w.
✓Bert	55-34	637.6 1218.0	133-22	563.2 488.3	w.w. on point
●Mono	55-34	205.3 1650.3	133-22	689.0 362.5	w.w.
✓Dog	55-34	95.4 1760.2	133-21	722.0 329.5	w.w.
✓Cat	55-34	71.9 1783.7	133-21	1042.0 9.5	w.w.
✓Mule	55-33	1791.7 63.9	133-22	136.0 915.5	w.w.
✓Bas	55-33	1599.3 256.3	133-22	586.0 465.5	w.w.
✓Bru	55-33	1544.8 210.8	133-22	685.0 366.5	w.w.
✓Hoot	55-34	83.3 1772.3	133-23	209.6 841.9	lone growing tree.
✓Jib	55-34	49.8 1805.8	133-23	287.9 763.6	w.w. on point.
✓Roz	55-33	1610.4 245.2	133-23	393.8 657.7	w.w.
●ate	55-33	1251.8 603.8	133-23	635.5 416.0	w.w.
✓Ale	55-33	1788.3 67.3	133-23	928.6 122.9	w.w.
✓Pup	55-34	93.4 1762.2	133-24	56.5 995.0	w.w. on point.
✓Ham	55-34	100.4 1755.2	133-24	122.0 929.5	w.w. on boulder.
✓Lone	55-34	233.1 1622.5	133-25	162.0 889.5	lone growing tree.
✓Fly	55-34	206.0 1649.6	133-25	701.1 350.4	w.w. on nob of rock.
✓Rig	55-33	1442.6 413.0	133-25	367.8 683.7	w.w. on pinnacle rk.
✓Bon	55-33	1176.5 679.1	133-25	701.6 349.9	w.w. on rock.
✓West	55-33	708.8 1146.8	133-25	330.5 721.5	w.w.
✓ree	55-33	597.6 1258.0	133-25	538.3 513.7	w.w. on point.
✓Con	55-33	379.0 1476.6	133-25	599.5 452.5	w.w.
✓Bo	55-32	1715.6 140/0	133-25	763.7 288.3	dressed signal.
✓Monk	55-33	109.2 1746.4	133-25	889.0 163.0	w.w. on tree.

Lynx ✓	55-33	308.8	133-25	940.7	w.w.on point.
		1546.8		111.3	
Lion ✓	55-33	411.4	133-26	1.0	w.w.
		1444.2		1051.0	
Jet ✓	55-33	607.6	133-25	940.0	w.w.on point.
		1248.0		112.0	
Tuk ✓	55-33	970.8	133-26	192.3	signal cloth o
		884.8		859.2	on tree.
Nip ✓	55-33	953.3	133-26	293.2	w.w.on boulder.
		902.3		758.3	
Garcia ✓	55-33	1181.8	133-26	519.0	dressed signal.
		673.8		532.5	
Cram ✓	55-33	755.7	133-26	738.3	w.w.
		1099.9		313.7	
Bus ✓	55-33	603.0	133-26	623.6	w.w.
		1252.6		428.4	
Hal ✓	55-33	552.3	133-26	766.6	w.w.
		1303.3		285.4	
Hig ✓	55-33	630.0	133-26	934.3	w.w.
		1225.6		117.7	
Abe	55-33	61.5	133-26	821.3	w.w.and signal..
		1794.1		230.7	
Zok	55-31	1843.6	133-27	360.0	w.w.
		12.0		692.4	

Scaled from tape sheet by *L.C. wear*

Checked by *ccc*

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

SECTION OF FIELD RECORDS.

Report on Topographic Sheet No. 3861.

Surveyed in 1921.

Instructions dated Feb. 12, 1921.

Chief of Party, T. J. Maher.

Surveyed and inked by L. C. Wilder.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey fulfill the requirements of the General Instructions insofar as the details alongshore are concerned, but there are too few determined elevations in the interior of the island and the formlines are below standard.
3. The plan and extent of the survey satisfy the specific instructions, but it should be noted that there is an unsurveyed area of about 5 square miles that remains unsurveyed.
4. The field drafting was completed to the extent prescribed in General Instructions.
5. No further surveying is required within the limits of the sheet, the deficient area noted in paragraph 3 lying outside of the limits. As stated in paragraph 2 the formlines are below standard. Attention is called to the fact that the southeast coast of San Fernando Island and the northwest coast of San Juan Bautista Island have never been surveyed, being charted from a crude reconnaissance.
6. As stated in the descriptive report of this sheet the coast line between Pt. Garcia and Animas Island was found to be incorrectly surveyed on sheet No. 3550 and it was re-surveyed on 3861. Mr. Mattison who was in the party that made sheet 3550 advises that the new survey be used for charting, but that some rocks on 3550 that do not appear on 3861 should be added to the latter. Also in view of the fact that 3550 was probably surveyed during a low stage of the tide he considers the delineation of low water best on 3550.
7. The character and scope of the survey of the shoreline is good. The field drafting is also good.
8. Reviewed by E. P. Ellis, December, 1922.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3861

State . . . S.E. Alaska

General locality . . . ~~West Coast Prince of Wales Island~~

Locality . . . . . San Fernando Island. Vicinity of Pt. Garcia

Chief of party . . . . . T.J. Maher.

Surveyed by . . . . . L.C. Wilder.

Date of survey . . . . . September 1921.

Scale . . . . . 1:10,000

Heights in feet above Mean Sea Level.

Contour interval . 100 . feet.

Inked by L.C. Wilder . . . Lettered by L.C. Wilder.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet . . . . .

**Plane-table Positions.**

Remarks: