| | | | U. 8 | COAST & C | EODETIC | SURVEY WES | |
|--|----------|--|------|-------------------|-----------|---------------------------------------|--------------|
| | | 5699 | | MAR | 21 193 | 35 | |
| · | | | | Acc No. | | | 1 |
| | , | | | | | | |
| | | FORM 504 Rev. Dec. 1933 DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR | | Ē. | •. | | |
| | | DESCRIPTIVE REPORT | | | | | |
| | | Topographicx Sheet No. 5.3.24 Hydrographic | - 1 | | | | • |
| | | | | | | | 1 |
| | | | | • | | | |
| 1 | | | - | - | | • | ┼- |
| U J | | StateCalifornia | - | - | | | |
| 7 | | LOCALITY | | | | · · | 1 |
| | | Southorn Colifo nie | | | | - • • | |
| CO | | Santa Cruz Island (South Side | | | X. | | |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | Valley Anch to Kinton Pt. | - | ! | _ | | +- |
| | ٤ | | - | , | | | |
| | | 193 4-5 | | i } | | · · · · · · · · · · · · · · · · · · · | <u> </u> |
| • (| C | · . | | | | | |
| and the second s | 7 | Chas K. Green Robert W. Knox | | • • | | | |
| | | Robert #, Knox | -] | | | | |
| | | U.S. GOVERNMENT PRINTING OFFICE: 1934 | _ | i | | | |
| | | | | - | - | | <u> </u> |
| | | | | • • | | | |
| | | | | | | | |
| | | | | | | | |

GEOGRAPHIC NAMES Date. March 26, 1935 CALLFORNIA

| Survey No. | I 5699 | · · · · · · · · · · · · · · · · · · · | |
|-------------|---------------|---------------------------------------|--|
| Chart No. | 5202 | | |
| Diagram No. | 5202-2 | | |

Approved by the Division of Geographic Names, Department of Interior. *\frac{\times}{R} \text{Referred to the Division of Geographic Names, Department of Interior. R Under investigation. Q

New Names Names assigned Status Name on Survey Name on Chart Location in local use by Field Kinton Point Posa Anchorage Same Morse Point Punto Arena Gull Island Same Laguna Harbor Willows Anch Alamos Anchorage Same =1 Bowen Point Albert Anchorage Blue Banks Anch. Santa Cruz Island Malva Real Anchorage APPROVED NAMES UNDERLINED IN RED H.L. Flemer:

DEPARTMENT OF COMMERCE U. S, COAST AND GEODETIC SURVEY

| II. S. COAST & GEODETIC | CSURVEY |
|-------------------------|---------|
| LIBRARY AND ARCH | IIYES Z |
| MAR 21 19 | REG. NO |

HYDROGRAPHIC TITLE SHEET

| Acc. | Ns. | |
|------|-----|--|
| | | |

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 24

REGISTER NO. 5699 State Galifornia General locality Santa Cruz Island (South Side) Locality Valley Anchorto Kinton Phint Scale 1-20,000 Date of survey Jun 134 Jan 135 , 19 Vessel chartered launch Virginia and launch Remance Chief of Party Chas K. Green and R.W. Knox Surveyed by Harry T. Kelsh Protracted by D. V. Radcliffe. Soundings penciled by do Soundings in fathoms feet-Plane of reference MLLW Subdivision of wire dragged areas by Inked by_____ Verified by S.M. Green Jr. Instructions dated Oct 31,1932 and Sept 9,1933 19

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET FIELD NO. --24 Santa Cruz Island-South Side.

INSTRUCTIONS

October 31,1932 and Sept. 9, 1933

LIMITS AND SCALE

This sheet embraces the inshore hydrography on the south dide of Santa Cruz Island, from signal Train (long 119-36) to Kinton Pt. (119-52) a distance of approximately 19 miles; and extends offshore an average distance of 12 miles to form a junction with the ship hydrography (Str. Pioneer) carried offshore from that point. H-5850(

It joins with sheet 23 on the west and 22 on the east. The scale is 1-20,000 (long. 119-42.5)

GENERAL DESCRIPTION

The south shore of Santa Cruz Island is very precipitious and from the east end of the sheet to longitude 119-17, with the exception of the anchorages at Cochies Prietos and Alamos and another small bight west of the latter, there are no sand beaches; the shore-line consisting mainly of vertical cliffs with a small fringe of broken rock at the base.

West of signal Sand, inshore from Gull Island there is a mile and a half of sand beach beyond which the rocky shoreline resumes.

Gull Island lies about 3/4 mile offshore and consists of a small flat topped, rock with elevation of 65 ft. and a number of pinnacles and smaller rocks, forming a close group. The island is surrounded by thick kelp, with a shoal area just south of the main island. In ordinary weather the sea breaks over this, the breaker spreading in an east west direction and running inshore on the island. Ordinarily landing can be made however by skiff behind this breaker by rowing in from the east side of the rocky group, and keeping close to the south side of the east island. An automatic light has recently been installed on the island.

SURVEY METHODS

A skiff was used for the inshore shallow water line, the remainder with launch using hand lead to 15 fathoms and vertical cast wire machine soundings above that depth. 3 point fixes on shore signals for location. Control was ample.

DISCREPANCIES

None

DANGERS

There are no offshore dangers for general navigation. Except where it swings around Gull Island the 20 fathom curve lies within a half mile of shore. For close inshore navigation the only danger is the long group of rooks extending nearly a half mile in a south east direction from Morse Pt. towards Gull Island. However

the tips are always bare, and the rocks are surrounded by kelp extending out in the same direction for another 400 meters so that reef can easily be avoided.

Sheal water, with a minimum of 3 fathoms is found between Gull Island and the mainshore.

ANCHORAGES

Johnsons Lee, formed by the reef off Morse Pt. furnishes a fairly good anchorage for the prevailing northwest wind and sea.

Alamos (locally called the Willows) is a good small boat anchorage for northwest weather.

Cochies Prietos is also satisfactory for small

boats in northwest breezes.

Albert Anchorage just east of it is also used by fishing boats, but is not considered as good.

Valley Anchorage, at the east end of the central valley of Santa Cruz Isaand is a fair open anchorage, and weather conditions east of Bowen Pt. are generally better than to the westward, both northwest wind and swell usually breaking down at that point.

COMPARISON WITH PREVIOUS SURVEYS

Allowing for greater development of the present work the depth curves check satisfactorily with the former survey of 1875 sheet 1323 A and 1323 B

A slightly less depth was found through greater development, between GullIsland and the main shore.

It is noted that the Coast Pilot (4th edition) gives an elevation of GullIsland of 150 ft. Correct elevation is 65 ft.

GEOGRAPHIC NAMES

The general names given by the previous work are all in general use today. The names of the small rocks and points which do not appear on the chart are of course unknown.

Robert W. Kirox, Chief of Party.

STASTICS - SHEET SB 24

| | | Day etter | Volume | Statute miles of sounding | Number of soundings | Number of positions | Ship |
|------|---------|--------------|-----------|---------------------------|---------------------|---------------------|-----------------|
| Jun | 27 | A | 1 | 20.5 | . 180 | 91 . | Virginia |
| Jul | | В | · ī | 19,9 | 194 | 82 | īŧ |
| • | 18 | Ċ | ī | 22.1 | 227 | 92 | 11 |
| | 19 | D | 1 & 2 | 22.5 | 178 | 107 | 11 |
| Aug | 1 | E | 2 | 17.3 | · 79 | 34 | 11 |
| 6 | 2 | F | 2 | 15.5 | 240 | 86 | rt |
| | 3 | Ğ | Z | 24,6 | 413 | 129 | 11 |
| | 9 | H | 2 | 11.4 | 176 | 56 | Ħ |
| | 10 | J | 3 | 16.7 | 232 | 85 | 17 |
| | 14 | K | 3 | 12.0 | 115 | 60 | 11 |
| | 15 | L | 3 | 12.0 | 169 | 71 | ** |
| | 16 | M | 3 | 26.7 | 479 | <u>161</u> | 11 |
| SUB- | -TOTAL(| Chas.K. | Green) | 221.2 | 2682 | 1054 | |
| Sep | 23 | N | 4 | 17.0 | 331 | 108 | Virg.& skiff |
| • | 24 | P | 4 | 8.5 | 140 | 59 | 11 11 |
| | 25 | Q | 4 | 1.0 | 29 | 6 | Virginia |
| Oct | 2 | R | 4 | 8.5 | 87 | 33 | tt |
| | 3 | S | 4 | 21,4 | 356 | 132 | #1 |
| | 4 | T | 5 | 8.8 | 112 | 55 | . 11 |
| | 10 | υ. | 5 | 0.6 | 15 | 7 | 11 |
| | 24 | A | 5 | 7.8 | 249 | 76 | Virg.& skiff |
| | 25 | W | 5 | 3.1 | 75 | 33 | Virginia |
| Jan | 16/35 | X | 5 | 8.2 | <u>136</u> | 78 | Romance & skiff |
| SUB | TOTAL(| Robert | W., Knox) | 84,9 | 1520 | 587 | Mar 7 7 |
| Tota | als | | | 306.1 | 4202 | 1641 | · |

APPROVAL OF CHIEF OF PARTY

Hydrographic sheet No. SB24 and accompanying records have been inspected and approved by the undersigned. The field work was done under the occasional supervision of Lieuts. Chas K. Green and Robert W. Knox. The office work was done under the direct supervision of the latter.

No additional work is considered necessary.

Chas. K. Green, Chief of Party.

Robert W. Knox, Chief of Party.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ... 5699

The following statistics will be submitted with the cartographer's report on the sheet:

| Number of positions on sheet | 1641 |
|-------------------------------|-------|
| Number of positions checked | 127 |
| Number of positions revised | .19 |
| Number of soundings recorded | 4202 |
| Number of soundings revised | ••••• |
| Number of signals erroneously | • |
| plotted or transferred | |

Verification by S.M.Green Jr.

Review by

John G. Ladd R.g. Christman

Time:

Time:

April 11, 1935

Fairly Ensy

Division of Hydrography and Topography:

V Division of Charts:

Attention Mr. E. P. Ellis

Tide Reducers are approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET

5699

Locality Valley Anchorage to Kinton Pt., Santa Cruz Island, Coast of Calif.

Chief of Party: Chas. K. Green in 1934-1935
Plane of reference is mean lower low water reading
3.5 ft. on tide staff at Prisoners Harbor
11.8 ft. below B.M. 1

4.3 ft. on tide staff at Beachers Bay 24.1 ft. below B. M. 1

Height of mean higher high water above plane of reference is 5.0 feet at Prisoners Harbor; 5.3 feet at Bechers Bay.

Condition of records satisfactory except as noted below:

Chief. Division of Tides and Currents.

The soundings are sufficient to draw all curves completely with the exception of the 5 fathon curve and those inside of it which are broken in numerous places. The works checks well on the closs lines and at the function with H-5695 at the western end of the sheet. The cross lines however were not chitemied to the western limit of the survey. Theet H-5660 end of the sheet overly with # 5660 how were been applied at 33-59-0; 119-52.8 a 5%, fathern odg on pas 75 M falls adjacent to a 7% fathern odg on Pas 9 N. The 71/2 odg is omitted Between post49 and 150NI (33°575; 119-45.8) a236 fathon sody falls between a 516 and a 62/6. This soly is questioned in the record. 27/6/1 the minutes of the a 32 fathern odg is shown on pos 43T. (33°-57.9 5 119-520) as it is ourrounded by 42 fathern of sty is in error. I 32 fathern or relained The shore line was checked with the Topo sheets and corrected where rescessary. In this connecte in attention is called to the following. 33°59.1; 119°-52.6 On the topo sheet 4909 a rock

33°59.1; 119°-52.6 On the topo sheet 4909 a rocke awash is shown at this point. This has been I corrected on the H.S. to an islet in accordance with the notation in the record appos 43°V 33°57.7; 119-50.7, Same as above See retation \\
in the record at position 6'x"

33°-58.5; 119-40.9 an islet is shown on the topo \\
Sheet 74909 at this point but according to the \\
record this should be a rock awash De Pos. 98".

33-59.2; 119-39.4 a rock fees is shown as awash

Mapo short +4909 and awar shet on topo

Sheet +4885 Shown awar bet on the H.S.

33°-58.3; 119°-41.6 and 33°-58.6; 119-40.9.

Two Delets shown in the above positions on Topo

sheet +4909 with the rotations base 8 MILLW. Both
one shown on the H.S. as Delets but the notations

have been smitted.

S.M. Green Jr.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5699 (1934-5) FIELD NO.S.B.24

Valley Anchorage to Kinton Point, Santa Cruz Island, (southside) California Surveyed in June 1934-January 1935

Instructions dated October 31, 1932 and September 9, 1933 (C.K.Green)

Hand Lead and Machine Soundings

3 Point fixes on shore signals

Chief of Party - Charles K. Green and R. W. Knox.

Surveyed by - Harry T. Kelsh.

Protracted by - D. V. Radcliffe.

Soundings penciled by - D. V. Radcliffe.

Verified and inked by - S. M. Green, jr.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual.

The Descriptive Report is complete and adequately covers all matters of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Sounding Line Crossings.

The cross lines together with the parallel adjacent lines are in good agreement.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn including most of the 5 fathom and part of the 3, 2 and 1 fathom curves.

5. Junctions with Contemporary Surveys.

Satisfactory junctions are made with H-5695 (1934-5) on the west, with H-5660 (1934) on the east and with H-5662 (1934) around Gull Island. The junction with the offshore survey H-5850 (1932-35) will be considered in the review of that sheet.

6. Comparison with Prior Surveys.

a. H-1221a (1873-4) and H-1323a and b (1875).

These surveys together cover the entire area of the present survey. The agreement is very satisfactory with the following exceptions:

H-5699 (1934-5) - 2

- (1) A 9-3/4 fathom sounding from H-1221a (1873-4) fell on the present survey in depths of 14 fathoms at latitude 33° 59.05', longitude 119° 53.10'. An examination of the sounding records shows that the position (7 i blue) was incorrectly plotted in addition to being very weak. A correct plotting places the position and the 9-3/4 fathom sounding about 100 meters shoreward where it makes a satisfactory agreement with the present survey. The 9-3/4 fathom sounding should therefore be disregarded in future charting.
- (2) A number of soundings on H-1323a (1875) including an 18 foot sounding at latitude 33° 59.35', longitude 119° 52.9' fall on the present survey in depths appreciably deeper. An examination of this sheet shows that all the soundings north of latitude 33° 59' are a replotting and duplication of the soundings as shown in this area on H-1221a (1873-4), and that the plotting on the former sheet is very inaccurately done. The 18 foot sounding as correctly plotted on H-1221a (1873-4) is in satisfactory agreement with the present survey. Consequently all the soundings including the 18 foot sounding on H-1323a (1875) north of latitude 33° 59' which are also plotted on H-1221a (1873-4) should be disregarded in charting. A note to this effect has been shown on H-1323a (1875).
- (3) Numerous inshore rocks, reefs and islets shown on the old surveys but originating with T-1436 (1874-5) and T-1437 (1875) are considered to be a generalization only of the more accurately defined rocks, etc. as shown on the present survey but originating with T-4906 (1934), T-4909 (1934) and T-4885 (1933-4), and should be superseded by the delineation shown on the present survey.

7. Comparison with Chart No. 5202.

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

8. Field Plotting.

The field plotting was satisfactory.

9. Additional Field Work Recommended.

No additional field work is required.

10. Superseding Old Surveys.

Within the area covered the present survey supersedes the following surveys for charting purposes:

H-1221a (1873-4) in part H-1323a (1875) in part H-1323b (1875) in part

Reviewed by - John G. Ladd 11.

August 15, 1935

Inspected by R. J. Christman

August 16, 1935

Examined and approved:

K. T.Adams, Assistant Chief, Division of Charts

Chief, Section of Field Work

lude Chief, Division of H. & T.

applies to Chart 5115 Jan 29,1936- Luzeckind
" " 5202 Man 1936 C.M.Z.
" " 5114 Ret 1936 D.M.Z.
" " 5101 May 1936 C.M.Z.

