

S. CAAST	Ł	GLEGETIC SURVEY
1.180人		DERCHIVES

MAY 12 1936

Acc. N	•	

Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY R.S. Pattop _{Director}			
State: CALIFORNIA			
DESCRIPTIVE REPORT ***********************************			
LOCALITY 600 SOUTHERN CALIFORNIA COAST GULF OF SANTA CATALINA			
OHIEF OF PARTY			
0. W. Swainson,			

Form 537

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U. S. COMST & GEODETIC SURVEY LIBRARY AND ARCHIVES

MAY 12 1936

HYDROGRAPHIC TITLE SHEET Acc. No. -

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. 80-2 - 6119

REGISTER NO.

State California
General locality Southern California Caast
Locality Gulf of Santa Catalina
Scale 1:80,000 Date of survey July 23-Sept. 15 ,19235
Vessel Ship PIONEER
Chief of Party O. W. Swainson
Surveyed by O. W. Swainson
Protracted by M. E. Wennermark
Soundings penciled by M. E. Wennermark
Soundings in fathoms feet-
Plane of reference M.L.L.W.
Subdivision of wire dragged areas by
Inked by J.a. Mc Cornick
Verified by J.a. We Counch
Instructions dated June 23, 1934 and July 16, 1935.
Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET FIELD NO. 80-2

U.S.C. & G.S.S. PIONEER

O. W. Swainson, Cmdg.

Project No. HT-187

Season 1935.

AUTHORITY

This survey was made in accordance with the Director's Instructions dated June 23, 1934, and Supplemental Instructions dated July 16, 1935.

LOCALITY

This sheet comprises an area in the Gulf of Santa Catalina off San Diego, California. It joins sheet Field No. 120-1 on the south, sheet Field No. 80-3 on the west, sheet Field No. 80-1 on the north and sheets Field Nos. 40-2, Register No. 4266 and Register No. 4258 on the east.

SURVEY METHODS

The fathometer was used to obtain the soundings. Sufficient vertical casts were taken throughout the sheet for bottom characteristics and for fathometer comparisons. The wire soundings were plotted above or below their respective fathometer soundings and designated by (v.c.).

Standard R. A. R. methods were used for control. A few of these positions were checked or strengthened by single angles or three point fixes.

Six hydrophone stations in all were used with at least three in operation at any one time. Stations "Crystal", "Loma", and "Pyramid" were the most reliable and the greatest weight was given them whenever used. Stations "Lacosta-l" was later changed to "Lacosta-2", but neither was entirely satisfactory. A variable lag was noted and these stations merely served as a check on the actual position. Station "Romance" was of little value on this sheet as it was still in its experimental stage.

A launch was used as a floating station at "Romance". The hydrophone was suspended over the stern. 't was located by bomb returns from two shore stations.

The velocity of sound used was 1482.5 meters per second. This was determined by velocity tests. The details of this work are submitted in a separate report. Time circles in units of five seconds are plotted on the sheet.

The following are the accepted final positions of the various hydrophones. All but station "Romance" were shore stations and were located by three point fixes, strengthened by from one to three check angles. "Romance" was located as noted above.

Crystal	Lat 33°	34 '	111.2 m	(1737.2 m.)
	Long 117	50	1048.0	(499.6)
Loma .	32	42	1703.4	(144.8)
	117	16	1039.1	(523.4)
Pyramid	32	48	1444	(404)
	118	20	1 3 86	(175)
LaCosta-l	33	05	1044.7	(803.8)
	117	19	1280.0	(275.9)
LaCosta-2	33	05	1140.0	(708)
	117	20	644.0	(912.0)
Romance	32	05	22	(1826)
	1 1 8	14	1563	(11)

In laying the time circles down on the smooth sheet, two or three points along the arcs were computed for insured accuracy. Where the hydrophone stations fell off the sheet, the projection was temporarily extended and an extended beam compass was used to plot the circles.

DISCREPANCIES

There are no major discrepancies on this sheet. In general, the cross lines are in satisfactory agreement. In a few cases, however, where the cross lines were run along steep slopes there seem to be slight discrepancies, but making due allowance for this fact they are satisfactory.

At Latitude 32° 26.5', Longitude 117° 39.5', between positions 29 and 30 X, the 518 and the 464 fathom soundings appear to be 100 fathoms too shoal. This is of little significance, however, as there are lesser depths $1\frac{1}{2}$ miles to the eastward. It is recommended there fore that they be retained. That they are probably good soundings is substantiated by the fact that there are "miss" soundings following. This is also true on the cross line 20-21 X which might suggest a shoaling. Also a 460 fathom sounding was rejected on the cross line because of a very weak echo.

In a few instances the fathometer soundings were obviously either read or recorded 100 fathoms in error. These soundings were either corrected or rejected as shown by accompanying notes in the record.

The soundings from position 28 to 31 M inclusive were rejected by the smooth plotter. The bomb position No. 29 was no good and the dead reckoning failed to check.

The soundings from position 48 to 82 M, and those from 11 N to the end of the day were rejected by the Chief of Party. Static and interference ruined bomb reception.

JUNCTION WITH OTHER SHEETS

Junctions with the other sheets of the current season are satisfactory.

DANGERS

There are no dangers within the limits of this sheet. Except for the inshore area off Point Loma the only shoal less than 100 fathoms lies at Latitude 32° 39', Longitude 117° 58'. The least depth on this shoal is 43 fathoms.

TIDAL DATA

Los Angeles tide reducers were applied to soundings less than 100 fathoms. The tidal data was furnished by the Washington Office.

FATHOMETER CORRECTIONS

Fathometer corrections were computed in accordance with the method laid down in the Hydrographic M anual and are submitted in a separate report. A list of the corrections for the various hydrophone-oscillator combinations will be found in Vol. 1 of the sounding tecords.

COMPARISON WITH PREVIOUS SURVEYS

By making due allowance for the difference in the methods of survey, this sheet agrees very favorably with the previous work. On aheet Register No. 4366, the two most prominent shoals appear to have been very accurately located. However, the current sheet was developed in much greater detail and in most cases slightly lesser depths were obtained on the shoals.

Good agreement is also noted by comparison with sheet Register No 4265a, although the latter was very sketchily done.

MISCELLANEOUS INFORMATION

In compliance with the Instructions no further development was done on the shoal area in the southeast corner of the sheet.

As oil streaks on the surface had been observed in the area embraced by this sheet, the officers on watch were requested to keep a sharp lookout for evidence of such conditions, particularly in the areas formerly noted. There are several notations of oil streaks in the records, which were questioned at the time and later deleted as none of them could definitely be classed as seepage from the bottom.

Respectfully submitted.

M. E. Wennermark, Jr. H. & G. Engr.,

U.S.C. & G. Survey.

Approved and forwarded:

R. R. Moore,

H. & G. Engineer,

R.R. mme

USC & G. Survey.

STATISTICS, SHEET 80-2

Date	Day Letter	Posn No.	No. of Bomb	No. c	of Sound.	St. Mi.	Area.
			Positions	Fath.	V.C.	Sndg.Ln.	
7/23	A	62	39	403		82.8	
24	B	88	58	380		80 •5	
25	C	8 2	44	561		112.1	
26	D	37	21	226		43.4	
8/6	E F	73	48	540	1	110;4	
7	F	7 2	46	594	2	117.8	
9	G	60	42	349	1 2 1 1	66.0	
12	H	29	17	213	1 .	37.1	
13	J	52	39	459		80.0	
14	K	58	31.	452	2	73.6	
15	L	56	33	493	1	90.3	•
21	M	91	51	535	1	106.0	
22	N	11	7	82		17.0	
23	P	67	37	367	2	73.0	
27	R	100	52	596	1 1	144.4	
28	s	· 78	49	5 8 9		112.0	
29	T	87	46	559	3	104.5	
30	U	52	31.	417		76.5	
9/13	v	42	28	405		79.5	
14	W	10	6	6 4		14.0	
15	Х	72	33	349	l	60.0	
Totals	8	1279	758	8633	17	1680.9	1940 SqStMi

CHIEF OF PARTY'S REPORT OF INSPECTION OF SHEET FIELD NO. 80-2

The sheet and records for this work have been examined and are approved by me. No further work is recommended for the area within the limits of the sheet.

R. R. Moore,

H. & G . E., Chief of Party.

hydrographic survey no. H6119

Smooth Sheet Yes
Boat Sheet Yes - 1
Sounding Records Yes 6 & 3 Vols.
Descriptive Report Yes
Title Sheet Yes
List of Signals Yes
Landmarks for Charts (Form 567) No
Statistics Yes
Approved by Chief of Party
Recoverable Station Cards (Form 524) No
Special Chart for Lighthouse Service (Circular Nov. 30, 1933)
Remarks

HYDROGRAPHIC SHEET NO. H.6119

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

Number of positions on sheet	1279
Number of positions checked	١٧
Number of positions revised	
Number of soundings recorded	8633
Number of soundings revised	7
Number of signals erroneously	
plotted or transferred	

Date: June 16, 1936

Verification by J.a.m. Conneck
Review by Harddle humay
Yu.Con. by

Time: 31 hv.

Time: /6 ''

	Remarks	Decisions
-		
_		
<u></u>		
<u>}</u>		
)_		
<u>L</u> _		·
<u>-</u>		
3		
1		
5 5		
7		
8		
9_		
0		•
1		,
2		
3		
4)	
5	·.	
6	•	
7 34		
J+		

GEOGRAPHIC NAMES Survey No. 1611	19	Cross by	O C AC OF	D D	St. Logo stor	Or local Magis	Cine	Mod Media	N. J.	, \$
Name on Survey	/ os A	`+ ⁰ '	C C	D	E	5° / 6	G	201 H	S. K	
Gulf of Santa Catalina	*									1
										2
	n.									3
										4
										5
										6
					,					7
										8
										9
					-					10
										11
										12
			ļ							13
			-							14
										15
			i							16
										17
										18
										19
					ļ					20
					<u> </u>					21
										22
	-							3		23
						200	$\int_{(i)} \frac{a_i}{h_i}$	6/15/3].	24
					(20)	RES WINDOW	1			25
					100	Ni Port				26
										27
										M 234

MEMORANDUM IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT No. H #6119 -PHOTOSTAT OF No. T	received registered verified reviewed approved	,	1 3 1936 1 1936
--	--	---	--------------------

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE	Initial	Attention called to
20		·
22		
24		
25		
26		
30		
40		
62		
63		
82		
83		
88		
90		
		•

RETURN	ТО
82	

C. K. Green

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 6, 1936.

Division of Hydrography and Topography:

✓ Division of Charts: Att: Mr. E. P. Ellis

Tide Reducers are approved in 9 volumes of sounding records for

HYDROGRAPHIC SHEET 6119

Locality Gulf of Santa Catalina, Southern California.

Chief of Party: O. W. Swainson in 1935 Plane of reference is mean lower low water reading 3.6 ft. on tide staff at Los Angeles Harbor (Berth 60) 14.0 ft. below B.M.8

Height of mean high water above plane of reference is 4.7 feet.

Condition of records satisfactory except as noted below:

Once there mean

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE

Venfrer's Deport on H-6119.

Quardo: Quendo are satisfactory.

Drafting:

June tions:

The sheet is formed on the month ast by H-6117 (unverified), on the month west by H-6118, on the month west by H-5758, on the west by H-6120 and on the south by H-6121 (unverified).

Junctions with verified sheets were satisfactory.

July 16, 1936.

Submitted, J.a.m. Cormietz.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6119 (1935) FIELD NO. 80-2

Gulf of Santa Catalina, Southern California Coast, Cal. Surveyed in 1935, Scale 1:80,000. Instructions dated June 23, 1934 and July 16, 1935. (Pioneer)

Fathometer Soundings.

3 Point fixes on shore signals. RAR control.

Chief of Party - 0. W. Swainson
Surveyed by - 0. W. Swainson
Protracted by - M. E. Wennermark
Soundings plotted by - M. E. Wennermark
Verified and inked by - J. A. McCormick

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that the number of bottom characteristics obtained on this survey, especially in the vicinity of important detached shoals was insufficient. This deficiency was remedied in the office by carrying forward bottom characteristics from H-4265a (1922-28), H-4266 (1922-23) and H-4366 (1924-28).

The Descriptive Report is clear and comprehensive and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The plan, character, and extent of the survey satisfy the instructions for the project except as noted in paragraph 1 of this review.

3. Shoreline and Signals.

This is an offshore survey and contains no shoreline nor topographic signals.

4. Sounding Line Crossings.

Agreement of sounding line crossings is satisfactory. The 464 fm . sounding which falls close to a 518 fm. sounding (lat. 32° 26.5', long. 117°39.5') has been retained. (See D.R. page 2.)

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Surveys.

a. The junctions on the northeast with H-6117 (1935), on the north with H-6118 (1935), and on the south with H-6121 (1935) will be considered in the reviews of those surveys.

- b. The junctions on the northwest with H-5758 (1933-35) and on the west with H-6120 (1935) are satisfactory.
- c. There are no contemporary surveys on the east between lat. 32°30' and lat. 32°54.' This area; however, is covered by 1:40,000 scale surveys, H-4258 (1922-23) and H-4266 (1922-23). Depths on these old surveys are vertical cast and tube soundings, those falling within the limits of the present survey being vertical casts. In view of the general good agreement existing between the old and present work, the old surveys have been considered as contemporary and the usual junctions effected. Several depths on the old surveys were in disagreement with the present survey. These were not carried forward and should be omitted in future charting.

7. Comparison with Prior Surveys.

a. H-289 (1851).

This is a reconnaissance survey on a very small scale. It contains no information that needs consideration in this review.

b. H-1888 (1888-89) and H-1889 (1888-89).

These 1:20,000 scale sheets cover a small portion of the eastern limits of the present survey. Soundings are generally in good agreement with the present survey; however, in the vicinity of lat. 32°32', long. 117°24', line 24 to 28c on H-1888 (1888-89) with depths varying 87 to 109 fathoms, (none charted), falls in depths of 150 to 450 fms. on the present survey. This line is obviously misplaced and should be disregarded in future charting.

c. H-4265a (1922-28), H-4366 (1924-28) and H-4549a (1925-28).

These surveys are on scales of 1:120,000; 1:160,000, and 1:140,000 respectively and cover most of the present survey. Depths are generally in good agreement with the present survey; however, a number of differences are noted with the sonic soundings on H-4366 (1924), the more important being:

```
The 308 fath. sounding (charted) at lat. 32°51', long.l17°57';
" 181 " " " 32°54', " 117°53';
" 370 " " " " 32°48', " 118°09'.
```

Each of these soundings are shealer by 10 to 30 fathoms than the surrounding depth on the present survey, but in each case the present survey clearly shows definite evidences of shealing. An investigation of the records for H-4266 (1924) shows that the various types of control was alternately used through-

out the survey, (3 point fixes, RAR, single cuts, dead reckoning, and combinations thereof). The control for the above 3 soundings was considered to be reasonably rigid and the soundings have therefore been carried forward to the present survey and should be used for charting. The remainder of the work on the various surveys noted above should be superseded by the present survey for charting purposes.

8. Comparison with Charts 5002 (New Print dated Sept. 10, 1935) and 5101 (New Print dated Mar. 28, 1936).

Several soundings shown on the above charts originate with sources other than those discussed in paragraph 7 of this review and are from miscellaneous sources. The authority for these soundings could not be readily ascertained but it is noted that most of them were charted on Chart 5000 (Edition of 1888). A few of these soundings are found to be in conflict with the present survey. The most important of which are the 266 fathom sounding at lat. 32°34', long. 117°44' and the 428 fathom sounding at lat. 32°46', long. 117°41'. They fall on the present survey in depths of 400 and 585 fathoms respectively. However, in view of their uncertain origin and the probable weak control it is considered that the soundings are out of position, and should therefore be disregarded in future charting.

9. Field Plotting.

Field protracting and plotting were exceptionally accurate and conform to the requirements of the Hydrographic Manual.

10. Additional Field Work Recommended.

This survey is complete and no additional field work is required at this time. However, when field work is resumed in this locality an adequate examination and definite disposition should be made of the following:

- a. The 464 fm. sounding discussed in the Descriptive Report (page 2, Discrepancies).
- b. The 308 fm. sounding discussed in paragraph 7-c of this review.

11. Note to Compiler.

Attention is called to the continued use of bottom characteristics from previous surveys discussed in paragraph 1 of this review.

12. Superseding Previous Surveys.

The present survey with the indicated additions from previous sur-

H-6119 (1935) -4

veys supersedes the following surveys for charting purposes:

H- 289 (1851) In part
H-1888 (1888-89) "
H-1889 (1888-89) "
H-4265a(1922-28) In part, except bottom characteristics.
H-4366 (1924-28) " " " " "

Reviewed by - Harold W. Murray, July 29, 1936. and John G. Ladd

Inspected by - A. L. Shalowitz

Examined and approved:

C. K. Green,

Chief, Section of Field Records

& M. Breeze.

Chlef. Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

applied to Chart 5101 - Feb 27, 1937 - 2m.z. addtl mork 1937 " " 5101 mar 23 1938 Strong applied to Chart 5117 gue 7,1937 g.H.s. addtl wk 1937" " 5111 appl 1936 34.52

ONO NEEDS

Form **504** Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY R.S. Patton, Director

State: CALINORITA

DESCRIPTIVE REPORT

Topographic | Hydrographic

Sheet No. 120 80-2

LOCALITY

Gulf of Santa Catalina (Lat..32° 50.8', Long. 117° 57';

Lat. 32° 54.1', Long. 117° 53;;)

193 7

CHIEF OF PARTY

H. B. Campbell, H. & G. Engineer.

U. S. GOVERNMENT PRINTING OFFICE: 1933

(Add1. Work (937)





DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET NO. 120 Season of 1937.

U.S.C. & G.S.S. PIONEER

H. B. Campbell, Commanding.

AUTHORITY

The work on this sheet was done under Supplemental Instructions dated April 19, 1937.

LOCALITY

This work was to make an investigation of two soundings brought forward from Hydrographic Sheep # H-4366 and plotted on Sheet H-6119, as follows:

A 308 fathom sounding in latitude 32° 50.8', longitude 117° 57'.

A 181 fathom sounding in latitude 32° 54.1°, longitude 117° 53°.

The shoalest soundings found are as follows:

A 316 fathom sounding in latitude 32° 49.6°, longitude 117° 57°.3

A 195 fathom sounding in latitude 32° 54.6°, longitude 117° 53.6°?

METHOD OF SURVEY

The work was done using three point fixes on shore objects. The soundings were obtained by fathometer.

No smooth sheet was made as it was thought that the work would be plotted on Sheet H-6119 in the office.

No reduction was made for tide as the soundings were all over 100 fathoms.

STATISTICS

A Day Str. PIONEER 20 miles 122 soundings 26 positions B Day Str. PIONEER 16 miles 99 soundings 19 positions TOTALS: 36 miles 221 soundings 45 positions

R.R. mm

R. R. Moore, H. & G. Engineer, U.S.C. & C.S.S. PIOMEER.

Approved and forwarded:

H. B. Campbell,

H. & G. Engineer, Commanding Ship PIONEER.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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. 120 80-2

REGISTER NO. H 6119 (Addl. WK. 1937)

StateCALIFORNIA
General locality Offshore Southern California Coast Gulf of Santa Catalina
Locality Lat. 32° 50.8', Long. 117° 57'; Lat. 32° 54.1', Long. 117° 55'
Scale1:120,000 Date of survey October 11 - 12 , 19 7
Vessel PIONEER
Chief of Party H. B. Campbell,
Surveyed by R. R. Moore,
Protracted by G.H.Everett
Soundings penciled by
Soundings in fathoms fact
Plane of reference MLLW
Subdivision of wire dragged areas by
Inked by G.H.Everett
Verified by"
Instructions datedApril 19,, 1937
Remarks: No smooth sheet, to be plotted on Sheet H-6119, in
the office.

applied to drawing of Chart No 5101 - S.B. M. March 23-1938

U. S. GOVERNMENT PRINTING OFFICE

HYDROGRAPHIC SHEET NO. H6119 (Addl. Wk. 1937)

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

Number of positions on sheet	45
Number of positions checked	•••••
Number of positions revised	201
Number of soundings recorded	221
Number of soundings revised	••••
Number of signals erroneously	
plotted or transferred	

Date: Jan. 18, 1938

Office Plotting
Verification by G. H. Everett
Completing junction & RAR adjustment by H.W.M.
Review by Harold W. Murray

Time: 18 hrs } 42

Time: 4/211

HYDROGRAPHIC SURVEY NO. H-6119 (Addl. Work, 1937)

Smooth Sheet Original one
Root Sheet YAS Two I made in office
Boat Sheet Yes / Wo C Made In STREE
Sounding Records One Vols.
Descriptive Report Yes
Title Sheet Yes
List of Signals
Landmarks for Charts (Form 567) No
Statistics No
Approved by Chief of Party No
Recoverable Station Cards (Form 524) No
Special Chart for Lighthouse Service No (Circular Nov. 30,1933)
Remarks HYDROGRAPHY
Total Days2
Lest Date Oct 12, 1937
·

TIDE NOTE FOR HYDROGRAPHIC SHEET

December 22, 1937.

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Plane of reference

RidaxRaducersxxxxx approved in

1 volumes of sounding records for

HYDROGRAPHIC SHEET 6119 Add. Wk. 1937

Locality Gulf of Santa Catalina, California coast.

Chief of Party: H. B. Campbell in 1937
Plane of reference is mean lower low water.
ft. on tide staff at
ft. below B.M.

All depths over 100 fathoms and no tide reducers were necessary.

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE

Report on H-6119 (Add 1. Work 1937)

The records conform to the requirements of the vigeneral Instructions.

The field party submitted a boot sheet which showed a considerable amount of shrinkage. The positions on this B.S. will not check with the recorded angles pecause of this shrinkage. It was also noted that A Guds was plotted one minute off in longitude.

Because of the condition of the field B.S. a new projection was made and the positions replotted. Transfer of positions was made on H-6119 and the soundings inked on H-6119. The office the and the plotting of A stations have been checked. The plotting of the positions their transfer and plotting of soundings have not been verified by anyone else except as checked by the office plotter.

Time checked very well. In the first area examined

Lat. 32°-50', Long. 117-57, the additional work agrees very
good with itself and with H-6119 but disagrees with the 305 fm.

sounding from H-4366. A 336 fm. falls on top of this 30+ fm.

(Pos. 20A) but was inked just above it morden to show it.

Soundings in this area which could not be inked because

of lack of space are shown to one side in pencil.

In the area at Lat. 32-544 Long 117-52.5 Pos 26 A (a because It was not sucomparied by a rpt. fix position comparative sounding) was not inked, but this position checks well the 198 fms of H-6119. Pos 26 A is \$199 fm. Vertical Cast (201"

10 the some 10 thy soundings between 2 3 13 disagree with

Differences in soundings on B day with H-6119 are tabulated. been -

Curves have revised.

Submitted 1/18/38

Disagreements on B day with 4-6119

	Note	17-188	16-1713	14-15B	8-98	4-50	1B - 3B	(Add') work)	Pos.	
Above discrep	There are no . Sounding of	204	268	§ 243 - 285	226	217	315	(Add') Work)	Sound	(
Above discrepancies eliminated by readjusting 1935 work. Coce	here are no soundings which tall on the 181 tm (+ sounding of 199 ten was. L.D. obtained in this	193 - 196	1/8-230	238 102	198	202	2 2 8	H-6119	soundings (tathoms)	
y readjusting 1	tall on the 18	-54.5	-54.2	-53:6	-54,3	-54.6	32-55	Location		
935 work. (Sce Rou, Adw	There are no soundings which tall on the 181 tm (from H- 4366). a Sounding of 199 ten was. L.D. obtained in this dicinity of 181 fm.	-52.8	- 5/2 P	- 52,3	75.2.5	-52,8	117 - 53		manin managama, aparahasa haka da managaman manaman ang kala ta aman manakahaban padaman padaman padaman paga	
Reu, Adwk, par.3c) Hwm	(tm.	193-196	2/8	236	1981	202	222	inted t	Depth	

H-6119 (Add'l Work 1937)

A stations used by hydro party. For data see U.S.C.&G.S. Report 1904 Appendix 9 Part I. Correction for N.A. Datum 1927 Lat. (-20.9 meters) Long. (-37.3 meters) 170 X.25. Plotted N. 4. 1927 datum A Santiago N.W. Peak (pg. 614) Lat. 33°-43'- 346.9 m. (N.A. Dot.) 117- 32'- 947.2 m (N.A.Dat) -20.9 3 26.0 m (N.A.1927) A High Mt. Cataling I 1876 (pg. 580) 118°-25'- 231.5 m 33°-22'- 960 m (1860) San Clemente I(pg.578) 118-21-1439.7 m V Plotting (N.A.1927) 1 U.S. Navy Tower 1936. San Clemente I. 118-27 <u>34.93 m7595.43</u> 32 - 53 - 71,4 m

MEMORANDUM IMMEDIATE ATTENTION

		received Dec. 7, 1937
SURVEY DESCRIPTIVE REPORT RHOTOSTATXOF	No. H-6119 (Addl. Work 1937) ~	registered Dec. 17, 1937 verified reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE	Initial	Attention called to
20		
22		
24		
25		
26		
30		
40		
62		
63		
82		
83		
88		
90		

RETURN TO							
82		c.	K.	Green			

1/

33°00					32°40′
					ří ,
,04	693	• •			,0,
,0 # 04.11.	503 503		ONLY	1937) show- id H-6119 th sheet as f Add'l	117° 40′
,	523		165 147 FOR INFORMATION OF COMPILER ONLY	Section of Chart 5101 (New Print dated Oct. 23, 1937) showing charted soundings from H-6118(1935) and H-6119 (1935) that have been changed on the smooth sheet as a result of adjustment. See Rev, Par. 3c of Add'l Work (1937).	
	568	210	165 147 FORMATION C	rt 5101 (New Pr undings from ve been change ljustment. See	•
-		£2 7	FOR IN	Section of Chaing charted so (1935) that have a result of adwork (1937).	
,00		495 454 454			·o
00 811	·	476 390 407	427		00,
	·	90	, , , , , , , , , , , , , , , , , , , ,	•	•
•		•	410	•	
		,			
33*00					32,40

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6119 (1937) Ad.Wk. FIELD NO. 80-2

Gulf of Santa Catalina, Southern California Coast, California Surveyed in October 1937, Scale 1:80,000 Instructions dated April 19, 1937 (PIONEER)

Fathometer Soundings.

3 Point fixes on shore signals.

Chief of Party - H. B. Campbell.
Surveyed by - R. R. Moore.
Protracted by - G. H. Everett.
Soundings plotted by - G. H. Everett.
Verified and inked by - G. H. Everett.

1. Purpose of Additional Work.

The purpose of this additional work was to investigate a 181 and 308 fathom sounding carried forward from H=4366 (1924-28) to H=6119 (1935), one of which, the 308 fathoms, was called for in the review of H=6119 (1935) pare 10b.

2. Office Work.

The field work was submitted on a boat sheet, scale 1:120,000. An inspection revealed that the sheet was considerably distorted and that triangulation station GUDS on San Clemente Island was plotted 1 minute west in longitude of its correct position thereby causing a 340 m. error in position plotting. The work was therefore replotted on a new sheet (now labeled as boat sheet) in the office and transferred to H-6119 (1935).

3. Results of Additional Work.

- a. Development of the 308 fathom (charted) carried forward from H-4366 (1924-28) in latitude 32° 51', longitude 117° 57' does not reveal any shoaler depths here, a least depth of 336 fathoms being obtained along side of the 308 fathoms and a 316 fathoms about 1 mile S X W. The transferred 308 fathom sounding has been retained.
- b. Development of the 181 fathoms (charted) carried forward from H-4366 (1924-28) in lat. 32° 46', long. 118° 53' does not reveal any shoaler depths, however, the 200 fathom curve enclosing the two detached shoal areas here is now completely defined. The transferred 181 fathoms has been retained.
- c. An analysis of cross line agreement showed discrepancies of 5 to 50 fathoms between the 3 point fix controlled additional work and several of the previous season's RAR lines. It was noted in the case of the RAR lines that the three bomb returns obtained in most cases did not intersect at a common point. By using the arc which was disregarded in the

original plotting in combination with one or the other of the other two arcs together with the dead reckoning data, a much better agreement in crossings was obtained. Lines 10 to 24A in lat. 32°55', long. 117°50'; 30 to 42A in lat. 32°51', long. 118°03', and 29 to 36L in lat. 32°53', long. 117°52' on H-6119 (1935) and 1 to 6L in lat. 32°53', long. 118°02', on H-6118 (1935) were readjusted on this basis.

4. Note to Compiler.

The compiler's attention is called to a tracing attached to the Descriptive Report which shows the charted soundings affected by the adjustments discussed in par. 3c, this review.

5. Reviewed by - Harold W. Murray, Jan. 31, 1938.

Inspected by - A. L. Shalowitz.

Examined and approved:

K. T. Adams,

Asst. Chief, Division of Charts.

Chief. Section of Field Work.

Chief, Division of H. & T.