

6118

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: CALIFORNIA

DESCRIPTIVE REPORT
~~Topographic~~ } Sheet No. 80-1
Hydrographic }

LOCALITY
Gulf of Santa Catalina
~~Southern California Coast~~
and Southern California
Between San Clemente Id to Coast Line.

1935

CHIEF OF PARTY
O. W. Swainson, H. & G. Engr.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
MAY 12 1936
REG. NO.
Acc. No.

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. 80-1-6118

REGISTER NO.

State CALIFORNIA

General locality GULF OF SANTA CATALINA

Locality BETWEEN SAN CLEMENTE ISLAND AND CALIFORNIA COAST
26 30 Southern 23 24

Scale 1:80,000 Date of survey JULY 1935

Vessel STR. PIONEER

Chief of Party O.W. SWAINSON

Surveyed by O.W. SWAINSON AND R.R. MOORE

Protracted by HENRY J. HEALY

Soundings penciled by HENRY J. HEALY

Soundings in fathoms ###

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by G.C. Mc Blosson

Verified by G.C. Mc Blosson

Instructions dated JULY 16, 1935 ###

Remarks:

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEET FIELD NO. 80-1.

Project No. 187
Scale 1:80,000.

U.S.C. & G.S.S. PIONEER,
O. W. Swainson, Cmdg.

AUTHORITY

This survey was made in accordance with the Director's supplemental instructions for Project No. 187, dated July 16, 1935.

LOCALITY AND JUNCTIONS

This sheet constitutes the area between San Clemente Island, and the California Coast south of Santa Catalina Island and south to a line between Latitude $33^{\circ} 02' N.$, Longitude $117^{\circ} 34' W.$, and Latitude $32^{\circ} 46.5' N.$, Longitude $118^{\circ} 16' W.$, also a small area both east and west of Santa Catalina Island.

Inshore this sheet makes a satisfactory junction with the visual inshore work executed on sheets Field Nos. 40-1 and 40-2.

On the north a satisfactory junction is made with visual inshore work executed on sheets Field Nos. 48 and 49.

Offshore this sheet makes a satisfactory junction with visual work executed on sheets Field Nos. 25 and 26 (1933).

On the south a satisfactory junction is made with sheet Field No. 80-2. H-6119 (1935) *See discussion of discrepancy in Rev. par. 6.*

SURVEY METHODS

The standard R. A. R. methods were used for control of the greater portion of this sheet. The small area between San Clemente Island and Santa Catalina Island (positions 33G to 89G); and between 14Q and 17Q, were controlled by visual fixes.

The R. A. R. positions were controlled from three hydrophone stations, La Costa, Crystal, and Loma, whose positions were determined and then plotted on this sheet. The positions of these stations are in the hydrophone record. Circles were laid out on the sheet using 5 second intervals at a velocity of sound of 1482.5 meters per second.

In plotting the smooth sheet the bomb positions were plotted, then dead reckoning was fitted through the bombs. The best probable

position being chosen.

A few vertical casts were taken, Temperature and bottom characteristics were also obtained.

On the lines running approximately east and west only every other sounding was plotted. On the cross lines all soundings were plotted.

DISCREPANCIES

There are no discrepancies within the limits of this sheet. All junctions with other sheets are good and all cross lines show very good agreement ~~except as noted in the review~~.

FATHOMETER CORRECTION

The fathometer correction used will be found attached inside the front cover of Volume No. 1 of the sounding records.

These fathometer corrections were computed using the data collected on temperatures and salinity and also taking into consideration the various oscillator and hydrophone combinations.

TIDAL DATA

The tidal reducers used were computed from the data, for the Outer Los Angeles Harbor Tide Gage, furnished us by the Washington Office.

COMPARISON WITH PREVIOUS SURVEYS

H-4366 - Soundings seem to be in good agreement, but seem to be displaced somewhat. This is no doubt due to the difference in control used. The 407 fathom sounding in Latitude $33^{\circ} 02'$ N., Longitude $118^{\circ} 01.8'$ W. was not investigated. The lines on both sides of this show indications of shoaler water. The 407 fathom sounding should be retained. *Sdg Retained, M.M.M.*

H-4549a - The soundings are in good agreement; discrepancies due no doubt to difference in sounding instrument.

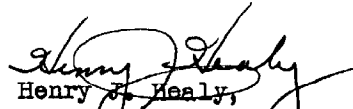
H-4504 - The differences between this survey and the present survey is probably due to control and method of sounding.

H-4560 - In Latitude $33^{\circ} 10.9'$ N., Longitude $118^{\circ} 04.8'$. Present survey shows 277 fathoms, old survey shows 274 fathoms. In Latitude $33^{\circ} 24'$ N., Longitude $117^{\circ} 59.6'$ W., present survey shows 60 fathoms, old survey shows 58 fathoms. The balance of the old survey is in good agreement with the new survey.

See Review for further discussion of these items.

4447 - The soundings on this survey are in good agreement with the present survey.

Approved and forwarded
R.R. Moore
Navy.


Henry J. Healy,
Jr. H. & G. Engineer,
U.S.C. & G.S.S. PIONEER.

STATISTICS - Sheet 80-1

Date 1935	Day	Statute Miles Sndg.	No. of Sndgs.		No. of Bombs	Total Posns.
			Echo	VC		
7/9	A	59	285		29	52
7/10	B	95	403		38	58
7/11	C	105	494	1	38	72
7/12	D	103.9	497	1	42	69
7/15	E	83.5	377	1	28	52
7/16	F	102	483	2	38	71
7/17	G	143.4	679		39	112
7/18	H	149.7	637	1	46	92
7/19	J	125.7	552		53	72
7/22	K	44.3	204		18	35
7/23	L	20.7	94		9	19
7/26	M	63.0	328	1	32	52
8/5	N	16.0	82		10	14
8/16	Q	4.0	20			4
8/15	P	-	-		-	-
Totals		1105.2	5135	7	420	774

CHIEF OF PARTY'S REPORT OF INSPECTION OF SHEET FIELD NO. 80-1

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. See Rev., Par. 10, for important soundings requiring future consideration.

RR Moore
R. R. Moore,
H. & G. E.,
Chief of Party.

HYDROGRAPHIC SURVEY NO. H6118

Smooth Sheet Yes

Boat Sheet Yes - 1

Sounding Records Yes 4 & 2 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) No

Statistics Yes

Approved by Chief of Party No ✓

Recoverable Station Cards (Form 524) No

Special Chart for Lighthouse Service _____
(Circular Nov. 30, 1933)

Remarks _____

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **HC-118**

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

Number of positions on sheet	<i>.774.</i>
Number of positions checked	<i>.19..</i>
Number of positions revised	<i>None</i>
Number of soundings recorded	<i>514.2</i>
Number of soundings revised	<i>.186</i>
Number of signals erroneously plotted or transferred	<i>None</i>

Date: *3 July, 1936*
Verification by *G. C. McBlown*
Review by *Harold W. Murray*
Ver. Corrections by ..

Time: *7 days 3/4 hrs.*
Time: *3 " 2 1/2 "*
4 "

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		
4		
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GEOGRAPHIC NAMES
 Survey No. H6118

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No. 5101</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous Survey No. 2612</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. Standard ^{Index} Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">T 6080 On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										
	A	B	C	D	E	F	G	H	K		
<u>California</u>	*	H	-	-	✓	✓	✓	-	✓	✓	1
<u>San Clemente I</u>	*	H	✓	✓	✓	✓	✓	✓	✓	✓	2
<u>Gulf of Santa Catalina</u>	*			-			✓				3
											4
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Names underlined in red approved
 by on 6/17/92

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H **H6118**
~~PHOTOSTAT OF~~ } ~~No. T~~

received MAY 12 1936
 registered JUN 1 1936
 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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

June 5, 1936

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

Tide Reducers are approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 6118

Locality Between San Clemente Island and Southern California Coast

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

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

Condition of records satisfactory except as noted below:

Paul Schurman
Acting Chief, Division of Tides and Currents.

1 July, 1936.

Report on H-6118
Verifying and Linking.

1. The records on this sheet conform to the requirements of the General Instructions ^{as noted in the review.} except ✓
2. The usual depth curves can be completely drawn within the limits of the sheet. ✓
3. The field plotting was completed to the extent prescribed in the Hydrographic Manual. ✓
4. The officer draftsman did not have to do over any part of drafting done by the field party except as noted on statistic sheet. ✓ However the field party plotted every other sounding on the lines running approximately east and west regardless of ✓

depth or shoal sounding. Therefore the verifier made of different sections of many sounding on the sheet mentioned in Rev.

5. The junctions with contemporary adjacent sheets H-5758, H-5848, and H-5600 were found to be satisfactory. The junctions with the remaining adjacent sheets will be made when they have been verified and indexed.

6. The signals on this sheet were taken from T-6087, T-6088, T-6089, T-4884, and T-4895.

There is no shoreline on the sheet as it is an off-shore sheet.

Respectfully submitted,

E. C. McElroy

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6118 (1935) FIELD NO. 80-1

Between San Clemente Island and Southern California Coast, Gulf
of Santa Catalina, California

Surveyed in 1935 - Scale 1-80,000

Instructions dated July 16, 1935 (PIONEER)

Fathometer Soundings.

3 Point fixes on shore signals.

RAR control.

Chief of Party - O. W. Swainson

Surveyed by - O. W. Swainson and R. R. Moore

Protracted by - H. J. Healy

Soundings plotted by H. J. Healy

Verified and inked by - G. C. McGlasson

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except as follows:

- a. The number of bottom characteristics (seven) obtained on this survey is insufficient for the area covered. A number of these were therefore carried forward from previous surveys.
- b. Evidence that the plotting of time circles and hydrophone stations had been checked was lacking since no initials pertaining to the checking was shown on the sheet.

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 1b of this review.

3. Shoreline and Signals.

This is an offshore survey and contains no topography.

The signals are from T-4884 (1934), T-4895 (1934), T-6087 (1933), T-6088 (1933) and T-6089 (1933) and are supplemented by three hydrophone stations and two hydrographic signals.

4. Sounding Line Crossings.

Agreement of sounding line crossings is satisfactory.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Surveys.

H-6118 (1935)-2

- a. The junctions on the northeast and eastward with H-6115 (1934-35), H-6116 (1935) and H-6117 (1935) will be considered in the reviews of those surveys.
- b. The junction with H-6119 (1935) on the south is satisfactory except that the 368 fathom sounding (approved in records at time of entry) on the present survey (lat. $32^{\circ}53'$, long. $117^{\circ}59'$) falls in depths of 470 to 485 fathoms and should have been investigated. Nearby soundings on both surveys are Red Light x 6 and were obtained with the same fathometer. Line 23 to 24A on H-6119 (1935) which was run directly over the 368 fathoms indicates a small shoaling of 10 fathoms. Since the sounding has been approved by the field party it has been retained and should be used in future charting.
- c. The junctions on the southwest with H-5758 (1933-35), on the west with H-5600 (1933-34) and on the northwest with H-5848 (1934) are satisfactory.
- d. There are no contemporary surveys to the west and north-westward of the present survey in the vicinity of lat. $33^{\circ}10'$, long. $118^{\circ}35'$. However, for charting purposes, a satisfactory junction is made with H-4447 (1924-28).

7. Comparison with Prior Surveys.

a. H-1430 (1879).

One sounding from this 1 to 20,000 scale survey falls within the limits of the present survey in the vicinity of lat. $32^{\circ}59'$, long. $118^{\circ}27'$. It is in excellent agreement with depths on the present survey.

b. H-4366 (1924-28), H-4504 (1925), H-4560 (1926-28), H-4447 (1924-28), H-4549a (1925-28).

Portions of these surveys on scales of 1-120,000, 1-140,000 and 1-160,000 cover the entire area of the present survey. The soundings which fall within the limits of the present survey were practically all obtained with the ~~same~~ depth finder except in the case of the 1928 work on H-4560 (1926-28) in which a fathometer was used. The sounding lines were controlled by 3-point fixes, dead reckoning and RAR (in elementary stage of development). A detailed study was made of each survey and depths in general are in good agreement with the present survey. However, in a number of areas depths on these surveys are from 3 to 57 fathoms shoaler than those on the present survey in some cases and 10 to 30 fathoms deeper in others. Some of these differences are probably due to inaccuracies in the method of sounding on the old surveys. Among the more important differences noted are:

(1) H-4504 (1925).

The 439, 426 and 448 fathom soundings in the vicinity of lat. $33^{\circ}12'$, long. $117^{\circ}57'$ are from 20 to 57 fathoms shoaler than the depths on the present survey. The soundings were obtained on the same line (pos. 19 to 25 L), other depths on which are consistently shoaler than those on the present survey. Soundings on this line should be disregarded in future charting.

(2) H-4560 (1926-28).

The shoal in lat. $33^{\circ}24'$, long. $118^{\circ}00'$ originating with the 1928 work of this survey differs slightly in geographic position from that on the present survey, the delineation of the 100 fathom curve on either survey being substantially identical. The 1928 work shows several additional shoal soundings not brought out by the present survey. These have been carried forward to the present survey in positions derived by superimposing the 100 fathom curve of the old survey on the present survey.

- (3) The following soundings (charted) originating with the surveys as indicated were not investigated on the present survey and have been carried forward. With the exception of the 394 fathoms, each sounding is a single sounding obtained on line. Other nearby depths on both surveys are in good agreement and clearly indicate the probability of shoaler depths existing in the respective vicinities.

<u>Sounding</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Source</u>
(a) 394 fms.	$33^{\circ}02'$	$118^{\circ}23'$	H-4549a (1925-28).
(b) 407 "	$33^{\circ}00'$	$118^{\circ}09'$	H-4366 (1924-28).
(c) 407 "	$33^{\circ}02'$	$118^{\circ}02'$	H-4366 (1924-28), see D. R. (page 2).
(d) 474 "	$32^{\circ}59'$	$117^{\circ}51'$	H-4366 (1924-28).

(4) H-4366 (1924-28).

The 330 and 371 fathom soundings (charted) originating with this survey in the vicinity of lat. $33^{\circ}00'$, long. $117^{\circ}50'$ fall in deeper depths on the present survey but in the vicinity of a shoal area with a least depth of 338 fathoms. Both soundings were obtained on the same line (pos. 3 to 4 J) which line is controlled by one 3-point fix and one RAR intersection. Comparison of other soundings on this line with crosslines run on both the present survey and on the 1924-28 survey indicate that the line is consistently 35 fathoms or more shoaler and is probably too far to the westward. These soundings should be disregarded in future charting.

Except as noted above, the present survey should within the area covered entirely supersede these surveys for charting purposes.

8. Comparison with Chart 5101 (New Print dated Mar. 28, 1936).

Soundings shown on the chart originate with surveys discussed in preceding paragraphs except the 426 fathom sounding (lat. $32^{\circ}57'$, long. $118^{\circ}03'$) and the 464 fathoms (lat. $33^{\circ}05'$, long. $117^{\circ}42'$) which fall close to similar depths on the present survey. The source of these soundings could not be readily ascertained. The 426 fathoms has been charted since 1890 and the 464 fathoms since 1916. These soundings should be superseded by the present survey when the latter is applied to the charts.

9. Field Plotting.

Field protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual except that the selection of soundings for omission on lines run in an approximate east-west direction were made without regard to the changing character of the bottom. Soundings so plotted were revised in the office so as to portray the real character of the bottom.

10. Additional Field Work Recommended.

For Future Consideration.

This survey is complete and no additional field work is required at this time. However, when work is resumed in this locality consideration should be given to the following:

- a. An adequate development of the shoal soundings carried forward from previous surveys, the more important being the 407 fathom sounding discussed in paragraph 7b (3) (c) of this review.
- b. An adequate examination of the 368 fathom sounding obtained on the present survey and discussed in paragraph 6b of this review.

11. Superseding Previous Surveys.

Within the area covered the present survey with the indicated additions from previous surveys supersedes the following surveys for charting purposes:

H-1430 (1879)	in part
H-4366 (1924-28)	" "
H-4447 (1924-28)	" "
H-4504 (1925)	" "
H-4549a (1925-28)	" "
H-4560 (1926-28)	" "

H-6118 (1935)-5

12. Reviewed by - Harold W. Murray, July 23, 1936.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green.

C. K. Green,
Chief, Section of Field Records.

J. R. Peacock

Chief, Section of Field Work.

L. O. Robert.

Chief, Division of Charts.

G. W. de

Chief, Division of H. & T.

Applied to Chart 5101 - March 3, 1937 - L.M.Z.

Applied to chart 5111 by H.S. Gamble. 1938.

Additional application to chart 5111. F. Amelmann Jan. 24, 1942

Applied "completion 514" L.A.M. 1950

18774 - ^{FULLY} applied partly thru cto 5101 - 3/6/78 RAC

6118 (Addl. Wk. 1937)

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVE

DEC 7 1937

Acc. No. _____

(Addl. Wk. 1937)

6118

Form 504
Ed. June, 1928

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R. S. Patton, Director

State: CALIFORNIA

DESCRIPTIVE REPORT

~~Hydrographic~~ } Sheet No. 40-80-1
Hydrographic

LOCALITY
Gulf of Santa Catalina
~~offshore Southern California Coast~~
Bet. San Clemente I & Southern California Coast

(Lat. 33° 30', Long. 118° 00' to
Long. 118° 15'.)

193 7

CHIEF OF PARTY
H. B. Campbell, H. & G. Engineer.

DESCRIPTIVE REPORT
TO ACCOMPANY HYDROGRAPHIC SHEET
NO. 48 480-1
Season of 1937.

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

H. B. Campbell, Commanding.

AUTHORITY

This work was done under supplemental instructions dated April 19, 1937. ✓

LOCALITY

At the junction of sheets H6115, H6116 and H6118, a holiday was left which was filled by the work done on this sheet. The area is in approximate latitude $33^{\circ} 30'$ and extends from Longitude $118^{\circ} 00'$ to $118^{\circ} 15'$. ✓

METHOD OF SURVEY

The Work was done using three point fixes on shore objects. The soundings were obtained by fathometer. The crossings are in good agreement with the previous work on the above mentioned adjacent sheets. ✓ See Rev. Part 2

No smooth sheet was made as it was thought that this work would be plotted on sheet H6115 in the office. ✓

No reductions were made for tide as all soundings were over 100 fathoms. ✓

STATISTICS

A Day. Str. PIONEER 21.5 miles 116 soundings 28 positions ✓

RR Moore
R. R. Moore,
H. & G. Engineer,
U.S.C. & G.S.S. PIONEER.

Approved and forwarded:

H B Campbell
H. B. Campbell,
H. & G. Engineer,
Commanding Ship PIONEER

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. ~~48~~ 80-1

REGISTER NO. H 6118 (Addl. Wk. 1937)

State CALIFORNIA

Gulf of Santa Catalina

General locality ~~off shore - Southern California~~

Bet. San Clemente I. & Southern California Coast

Locality (Lat. 33° 30' Long. 118° 00' to 118° 15'.)

Scale 1:40,000 Date of survey August 23, 1937

Vessel PIONEER

Chief of Party H. B. Campbell

Surveyed by R. R. Moore

Protracted by

Soundings penciled by

Soundings in fathoms feet

Plane of reference

Subdivision of wire dragged areas by

Inked by G. H. Everett

Verified by "

Instructions dated April 19, 1937

Remarks: No smooth sheet, to be plotted on sheet H-6115 in the office.

GPO

Applied to drawing of Chart 5101. March 1938 S.B.M.
" " Compilation " 5020 Aug 1938 S.B.M.

HYDROGRAPHIC SURVEY NO. H-6118 (Addl. Wk. 1937)

Smooth Sheet Original

Boat Sheet Yes

Sounding Records One Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals In new sounding volume

Landmarks for Charts (Form 567) No

Statistics ---

Approved by Chief of Party No

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service No
(Circular Nov. 30, 1933)

Remarks HYDROGRAPHY

Total Days August 23, 1937 (One Day)

Last Date

Field Records Section (Charts)

H6118 (Addl. Wk. 1937)

HYDROGRAPHIC SHEET NO.

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

Number of positions on sheet ²⁸
Number of positions checked ²⁸
Number of positions revised ⁴
Number of soundings recorded ¹⁴⁶
Number of soundings revised
Number of signals erroneously plotted or transferred

Date: Jan. 7, 1938

Verification by G.H. Everett

Time: 10 $\frac{1}{2}$ hrs.

Review by Harold W. Murray

Time: 6 $\frac{1}{2}$ "

Report on Verification of H-6118 (Add'l Work, 1937)

The records conform to the requirements of the General Instructions with the exception that in the column for echo correction, the correction was not always indicated whether it was feet or fathoms. ✓
Since the first page was corrected in fathoms it was assumed to be the same thruout.

The additional work was applied to H-6118 in the office, shown in brown position numbers with red soundings. The work was applied as follows: The Boat sheet plotting was checked including the check- ✓
ing of the projection and plotting of 3 signals used. The positions were transferred to H-6118 and the soundings plotted from the records. The additional junction has been applied to H-6115 (1934-35)

Signals were obscured between 17A to 21A. The B.S. plotting of this section of the line was revised since it did not check the time and soundings from H-5848. ✓
A more careful plotting of these positions by time and course improved the junction with H-5848. Elsewhere the agreement of additional work with the original work is very good.

Submitted Jan. 7, 1938

J. H. Everett

TIDE NOTE FOR HYDROGRAPHIC SHEET

December 20, 1937.

Division of Hydrography and Topography:

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

Plane of reference

~~Tide Reducers~~ are approved in
1 volume~~s~~ of sounding records for

HYDROGRAPHIC SHEET 6118 Add. Wk. 1937

Locality Gulf of Santa Catalina, between San Clemente Island and
Southern 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 200 fathoms, and no tide reducers are necessary.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT PHOTOSTAT OF	}	No. H -6118 (Addl. Wk. 1937) No. XXXX	{	received Dec. 7, 1937 registered Dec. 16, 1937 verified reviewed approved
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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
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82	C. K. Green
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Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6118 (1937) Ad.Wk.FIELD NO. 48 & 80-1

Between San Clemente Island and Southern California Coast,
Gulf of SantaCatalina, California
Surveyed in August 1937, Scale 1:40,000
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 - Field.
Soundings plotted by - Field.
Verified and inked by - G. H. Everett.

1. Purpose of Additional Work.

The purpose of this additional work was to survey the holiday existing between the junction of H-6115 (1934-35) and H-6116 (1935), and H-6115 (1934-35) and H-6118 (1935) in approximate lat. $33^{\circ} 30'$ long. $118^{\circ} 00'$, to long. $118^{\circ} 15'$. This work was called for in paragraph 10 of the Reviews of the above mentioned sheets.

2. Office Work.

The field work was submitted on a boat sheet, scale 1:40,000. The field plotting was verified in the office and then transferred to H-6118 (1935), scale 1:80,000. This departure from standard practice is justifiable because no critical depths are involved, and because it eliminated the use of an additional sheet. The use of the smaller scale permitted the plotting of all recorded soundings.

3. Results of Additional Work.

The additional work accomplished satisfactorily fills in the gap existing between the junctions of H-6115 (1934-35), H-6116 (1935) and H-6118 (1935). The agreement of cross lines is very good.

4. Reviewed by - Harold W. Murray, Jan. 14, 1938.

Inspected by - A. L. Shalowitz.

Examined and approved:

K. T. Adams

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

L. O. Polbert

Chief, Division of Charts.

Fred. L. Veacock
Chief, Section of Field Work.

G. H. Everett

Chief, Division of H. & T.