560256035604 56055605

Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DEFAILTIMENT OF COMMISSION
DESCRIPTIVE REPORT ,
Turk Hudrog aphie
Type of Survey Aydrographic 5602
Field No. Office No. 5606
LOCALITY
Cool land
State Koaliforna
General locality Jules
Locality South Catalina
Locality Santa Catalina
19 3 4
CHIEF OF PARTY
\mathcal{N}
Robert W. Know
LIBRARY & ARCHIVES
DATE
DATE
9 1970 1 (1)

B-1870-1 (1)+

DEC 27 .934

Form 504 Rev. Dec. 1933

DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT

Bandarbabie |

Sheet Nos. SD19 to SD23. Hydrographic

5602

5603 5604

State CALIFORNIA

LOCALIT

GILF OF SANTA CATALINA

(19) Santa Margarita River to Las Flores

(20) Horno Centon to San Matteo Point

(21) San Mateo Point to San Juan Carron

(22) San Juan Canyon to Laguna

(23) Laguna to Corona Del Mar

193±

CHIEF OF PARTY

Robert W. Knox, H & G Eng'r

DEPARTMENT OF COMMERCE U. S, COAST AND GEODETIC SURVEY

U'S, COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

DEC 27 1934

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. SD23.....

REGISTER NO. 5602

StateCalifornia
General locality Gulf of Santa Catalina
Locality Laguna to Corona Del Mar
Scale 1:10 ,000 Date of survey June 13 to July 25, 1934
Vessel chartered launch Joanne and motor launch
Chief of Party Robert W. Knox.
Surveyed by R. J. Sipe
Protracted by Don V. Radcliffe,
Soundings penciled by do
Soundings in fathoms feet+
Plane of reference mean lower low water
Subdivision of wire dragged areas by
Inked by Howas S. Craus
Verified by Homan Sciaus
Instructions dated, 1923
Remarks: Believed Instructions dated april4,1932
3 44 1 mat . 7 ch. 17, 1933, Free Work state
that lake mrs. anthorned the extension of the survey along the coast, Refer
The state of the s

602

DEPARTMENT OF COMMERCE

U. S, COAST AND GEODETIC SURVEY

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Acc. No.

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DEC 27 1934

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. SD22 5603

REGISTER NO.

State	California
General localit	y Gulf of Santa Catalina
Locality	San Juan Canyon to Laguna
Scale 1:10,000	Date of survey June 21 - July 12, 19 34
Vessel charte	red launch Joanne and motor launch
Chief of Party.	Robert W. Knox
Surveyed by	R. J. Sipe
Protracted by	Don V. Radcliffe
Soundings penci	iled by A. J. Vollmar
Soundings in fa	thoms feet+
Plane of refere	ence mean lower low water
Subdivision of	wire dragged areas by
	larry T. Kelsh
Verified by	Harry T. Kelsh
Instructions da	ated Lee H-5702, 1933
Remarks:	

Acc. By

inconstruction.

DEPARTMENT OF COMMERCE

U. S, COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

	Th	1e	Ну	dro	ogra	aphi	ic S	Sheet	sh	oul	d be	accom	panie	d by	this	
form	ì,	fi	11	.ed	in	as	cor	plet	ely	as	poss	sible,	when	the	sheet	is
forw																

Field No. SD21

REGISTER NO. 5604

State California
General locality Gulf of Santa Catalina
Locality San Mateo Point to San Juan Canyon
Scale 1:10,000 Date of survey May 21 to June 19 19 34
Vessel chartered launch Joanne and motor launch
Chief of Party Robert W. Knox
Surveyed by R. J. Sipe
Protracted by Don V. Radcliffe
Soundings penciled by A. J. Vollmar
Soundings in fathoms feet
Plane of reference mean lower low water
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated, 19
Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1920

DEPARTMENT OF COMMERCE

U. S, COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

OAST & GEODETIC SURVEY
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DEC 27 1934

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. sp20.....

REGISTER NO. 5605

State Cal	lifornia
General localityGi	of Santa Catalina
Locality Horno Canyo	on to San Wateo Point
Scale 1:10,000 D	ate of survey May 3 to 24 , 1934
Vessel chartered	launch Joanne and motor launch.
Chief of Party	Robert W. Knox
Surveyed by	R.J.Sipe
Protracted by	C. L. Rasmusson
Soundings penciled by	A. J. Vollmar
Soundings in fathoms	feld t
Plane of reference	nean lower low water
Subdivision of wire dra	agged areas by
Inked by L.B. BERES	
Verified by L.B.BERE	5.
•	14 1932 4 Sept Trest Feb 17. , 1933
	tates that later Inst. authorized
the extension of	the survey along the coast

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U.S. COAST & HELHETIC SCO. LIBRARY AND ARCHIVES

DEC 25

HYDROGRAPHIC TITLE SHEET

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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. __SD19____

REGISTER NO. 5506

State	California
	f of Santa Catalina
Locality Santa Mare	arita River tobliasnFlöreson
Scale_1:10,000	Date of survey Apr 17 to Jul 23 , 19 34
Vessel chartered lau	ich Joanne and motor launch
Chief of Party R	bert W. Knox
Surveyed by	J. Sipe
Protracted byC	L. Rasmusson
Soundings penciled by	do
Soundings in fathoms	feet+
Plane of reference	nean lower low water
Subdivision of wire d	ragged areas by
Inked by RHChis	holm
•	ho/m
	riginal Instructions april 14, 1932, 19
	il Instructions Feb 17, 1933, Field Work state
that later instruction	the coast. PLJ.
of surveys along	U. S. GOVERNMENT PRINTING OFFICE: 1998

H.SLOY

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEETS NUMBER SD19, SD20, SD21, SD22 & SD23

Scale 1:10,000

SOUTHERN CALIFORNIA

SANTA MARGARITA RIVER TO NEWPORT BAY
april 14, 1932 applements and 706.17, 1933

Instructions dated Dec. 13, 1933

Surveyed by R. J. Sipe.

R. W. Knox, Chief of Party

AREA, LIMITS, ETC: This series of hydrographic sheets covers the inshore waters of the mainland in the vicinity of the Gulf of Santa Catalina from the mouth of the Santa Margarita River to the entrance of Newport Bay.

To the northward junction was made with sheet No. LB15, and to the southward with sheet SD18, both of the current field season. In accordance with paragraph C of the Director's instructions of June 23, 1934 to the Commanding Officer, Ship Pioneer, the hydrography of the area covered by sheets SD20 to SD23 was carried seaward to such a depth that the Pioneer could safely and economically continue the work westward. Sheet SD19 makes a junction offshore with hydrographic sheet 4367 (1924).

From the Santa Margarita River to San Mateo Point the coast line presents low, flat table land, of varying height, with abrupt cliffs seaward. North of the latter point the land becomes more bold and rugged, with rocky cliffs seaward, and the breakers and sunken rocks which fringe the shore become more numerous.

The prevailing winds are west and west by south and the seas, as a consequence, ran normal to the shore and sounding lines. In the afternoons, particularily during the early summer, the short choppy seas made hydrography difficult.

As there are no bays, anchorages or moorings in the area covered by these sheets, there is no commercial shipping between points along the coast. The several piers shown on the sheets are so-called pleasure or fishing piers.

SURVEY METHODS: Standard survey methods were used. Leads weighing 8 pounds were used in sounding from the motor launch, 12 pounds in the hand lead work from the Joanne and 32 pounds with the power driven sounding machine. A trolley rig was used in depths ranging from approximately 10 to 19 fathoms. Considerable time was saved, with no loss of accuracy.

Discrepancies, dangers, anchorages, etc., will be discussed in detail under the headings of the several sheets.

Sheet SD19 (H-5606)

DISCREPANCIES: No discrepancies were noted during the plotting of this sheet.

DANGERS AND SHOALS: There are no dangers in the area covered by this sheet. There is considerable kelp, as outlined on the smooth sheet, but the depth curves show little if any irregularities due to the rocky bottom over which it grows.

CHANNELS: There are no channels in the area covered by this sheet.

ANCHORAGES: There are no anchorages in the area covered by this sheet.

COMPARISION WITH PREVIOUS SURVEYS? Photostats of the previous survey of this area are not available for comparision

GEOGRAPHIC NAMES: With the exception of the Santa Margarita River there are no geographic features on this sheet. The air-photo topographic sheets of the area, soon to be submitted, will contain detailed information concerning geographic names.

CURRENTS: No currents of abnormal strength were noted during the course of the field work.

CONTROL: As the party had only the unadjusted field computation positions of the triangulation stations, and approximate adjustment was made in their postions to compensate for the failure of the scheme to close. The adjustment in this vicinity was; latitude +2.8 meters, longitude +1.5 meters.

Sheet SD20 H-5605(1934)

DISCREPANCIES: No discrepancies of importance were noted during the \checkmark plotting of this sheet.

DANGERS AND SHOALS: There are no dangers in the area covered by sheet SD2O, and but one shoal, a 5 2/6 fathom sounding among 6's in latitude 33° 20.8', longitude 117° 33.3'. There are several large beds of growing kelp, extending in two places nearly to the 10 fathom curve. The depths in the vicinities of these kelp beds are not materially shoaler than those of the surrounding waters.

CHANNELS: There are no channels in the area covered by this sheet.

ANCHORAGES: There are no anchorages in the area covered by this sheet.

COMPARISION WITH PREVIOUS SURVEYS: Photostats of the previous survey of this area are not available.

CURRENTS: No currents of abnormal strengh were noted during the progress of the field work.

GEOGRAPHIC NAMES: The air-photo topographic sheets of the area, soon to be submitted will contain detailed information concerning geographic names.

Sheet SD21

DISCREPANCIES: Several cases of the failure of sounding lines to cross were noted during the plotting of this sheet; most of them can probably be explained by the character of the bottom. The more important instances noted follow:

- 1) Latitude 33° 22.9, longitude 117° 36.3. Position 272 d day is recorded 7 1/4 fathoms, while position 174 h has a sounding of 6 fathoms.
- 2) Latitude 33° 24.0', longitude 117° 36.6'. Sounding on position 236 g is 4 fathoms, while the first sounding between 39 and 40 h is five fathoms. The latter was not plotted as it falls very close to the 4 fathom sounding.
- 3) Latitude 33° 22.5', longitude 117° 36.7'. Sounding on position 111 n is 10 fathoms, but on 28 j it is 11 fathoms; the latter was not plotted.

It was noted that the recorder entered bottom abbreviations in error, as "br" rather than "bn". Attention of the interested field men has been called to this.

Kelp was not plotted on the smooth sheet in congested areas given below:

la	titude	longi	tude	
٥	•	•	t	
33	24.0	117	36,5	
33	24.9	117	37.9	
33	22.9	117	36.3	
33	25.3	117	37.9	
33	24.3	117	36.9	/

DANGERS AND SHOALS: There are many shoals, sunken rocks and breakers on this sheet, all inside the six fathom curve. The more important are:

	description	latitude	longitude	remarks
1) 2) 4) 5678)	shoal breaker shoal shoal grp of rks do shoal shoal	33 27.0 m 33 26 1660 33 26 970 33 26 710 33 25.2-3 m 33 24.3 33 24 40 33 22 1650	117 39 1500	hares $2\frac{1}{2}$ ft MLLW $\frac{3}{2}$ among 5's 2 2/6 among 3's & 4'S barea about 2 ft MLLW bares 0.7 ft MLLW 4 among 5's 4 among 5's

CHANNELS: There are no channels in the area covered by this sheet.

sheet SD21, continued

ANCHORAGES: There are no anchorages in the area covered by this sheet.

COMPARISION WITH PREVIOUS SURVEYS: Photostats of the previous survey of this area are not available for comparision.

GEOGRAPHIC NAMES: With the exception of San Mateo Point there are no gengraphic features on this sheet. The air-photo topographic sheets of the area, soon to be submitted, will contain detailed information concerning geographic names,

CURRENTS: N_0 currents of abnormal strength were noted during the course of the survey.

DISCR PANCIES: No discrepancies were noted during the plotting of this sheet.

DANGERS AND SHOALS: A great number of breakers lie immediately off the rocký coast line, most of them, however, within a few hundred meters of the beach, and inshore from the kelp line. The following are noted as being the more important:

	description	latitude	longitude	remarks
1) 2)	sunken rock group of rks	33 27 540 33 27 900	117 41 490	of ft water at MLLW

The kelp patch off Dana Point is exceptionally heavy and extends to about the 9 fathom curve.

CHANNELS: There are no channels in the area covered by this sheet.

ANCHORAGES: As stated in the Coast Pilot, the anchorage behind Dana Point (San Juan) is seldom used. The bottom is hard. The Joanne used this anchorage during the course of the field work, anchoring in about 3 fathoms.

COMPARISION WITH PREVIOUS SURVEYS: Photostats of the previous survey of this area are not available for comparision.

GEOGRAPHIC NAMES: San Juan Point is known locally as Dana Point. In view of the fact that the latter is an extremely well established local name, and has a historical significance, it is recommended the name Dana Point be substituted for San Juan Point. It was in this locality that Dana, in his classic "Two Years Before the Mast", tells of heaving hides over the cliffs and boating them out to the "Pilgrim". Other geographic names will be contained on the air-photo topographic sheets soon to be submitted.

CURRENTS: No currents of an abnormal character were noted during the course of the field work.

Sheet SD23 H-5602

DISCREPANCIES: A 21.6 fathom sounding on position 71g was evidently read an recorded in error as is proven by subsequent soundings between positions 94 and 103 g. Record corrected by field partry. 24 fm's plotted.

No further discrepancies were noted.

DANGERS AND SHOALS: There are no dangers to navigation in the area covered by this sheet, there are, however, many breakers, sunken rocks, etc., most of them relatively close to the shore. The more important are:

description	latitude m	longitude m	remarks
1) brks off Pel 2) grp of sunken rks 3) breaker 4) grp of rks	33 34.7 ; 33 33.8 33 32 790 33 31.8	117 51.2 117 50.0 117 47 750 117 46.7	

CHANNELS: There are no channels in the area covered by this sheet.

ANCHORAGES: There are no anchorages in the area covered by this sheet.

COMPARISION WITH PREVIOUS SURVEYS: Photostats of previous surveys of this area are not available for comparision.

CURRENTS: No currents of abnormal strength were noted during the course of the field work.

GEOGRAPHIC NAMES: The air-photo topographic sheets of this area, soon to be submitted will contain detailed information concerning geographic names.

Peopertfully submitted: Sobert W. Kran, This of Party.

March 11, 1935.

To:

The Director

From:

Lieut. Robert W. Knox.

Subject:

Erroneous location of signal, sheet SD23.

Signal DUN is erroneously located on hydrographic sheet SD23, H. 5602, Laguna to Corona del Mar. This topographic signal is identical with triangulation station Highest Rock off Two Rocks Point, and its position is, Latitude 33° 32' 43.81' (1349.8 m), longitude 117° 48' 15.48' (399.3 m). The portion of the shore line in this vicinity was re-run, but the hydrographic sheet had previously been submitted.

Robert W. Knox, Chief of Party.

Noted Mar. 18 1935

Hoyam

APPROVAL OF CHIEF OF PARTY.

Har of

Hydrographic sheets number SD19, SD20, SD21, SD22 and SD23 and accompanying records have been inspectedand approved by me. The field work was done under the direct supervision of Lieut.(jg) R. J. Sipe, with but occasional supervision by me. The office work was done under my occasional supervision in the case of two of the sheets, and under my direct supervision for the remaining three.

No additional work is considered necessary.

Robert W. Knox, Chief of Party.

STATISTICS

Sheet SD19 5606

Date 1934	Day	St mi sdg lines	No. sdgs.	No. pos.	Boat used
Apr 17 18 19 23 24 25 26 May 2 3 22 Jul 23	a b c d e f g h j k m	23.4 51.0 36.3 17.7 43.3 46.5 5.4 16.9 10.4 15.4 6.8 273.1	492 1011 810 298 717 866 143 192 448 205 7 0 5252	122 258 169 100 218 230 29 103 89 84 41 143	Joanne motor launch Joanne motor launch Joanne
			sheet SD20	5605	
May 3 9 10 11 15 16 17 23 24	a b c d e f g h j totals	3.8 2812 53.3 28.8 28.2 55.2 31.4 35.6 23.9	87 1468 1017 572 1449 1167 634 808 963	23 149 257 146 122 272 174 232 224 1599	Joanne & motor
			sheet SD21	3604	
May 24 25 28 29 30 Jun 6 8 7 11 12 14 15 19 27	a b c d e f h g j k m n p q	7.5 22.4 22.4 38.1 12.5 22.1 25.2 41.5 14.4 19.3 8.7 24.2 1122	168 521 354 107 9 281 476 671 347 900 1 66 493 347 1	56 132 124 274 79 122 189 257 124 217 56 173 97 3	Joanne Motor launch

STATISTICS, continued sheet SD22

			V11.	3	6	
D	ate	Day	St mi sdg line	No. pdg	No. pos	Boat used
J_{un}	21	a	16.2	34.6	119	Joanne
Jul	22 25 26 27 28 9 10 11	b c d e f g h j k	7.0 13.7 22.8 28.7 19.4 7.1 11.2 17.0 17.6	146 328 872 933 446 92 269 290 210	49 117 261 290 159 50 113 119 111	
Jur	13	a	33.8	690	602- 238 201	Joanne motor launch
	11 ₄ 20 21 22	b c d e	16.3 22.4 6.0 8.0	773 501 285 138	182 90 80	Joanne motor launch Joanne
		totals	86.5	2387	79 1	

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

-	Santa Barbara, California,	
	December 20, 1934	_, 19
DIRECTOR, U. S. COAST AND GEODETIC SURVEY:		

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

	•					Robert	W. Knoz	t	Chief of Party.
. 3	,	POSITION							
DESCRIPTION		LATIT	rude	LONGITUDE		DATUM	METHOD CHARTS OF DETER- MINATION AFFECTED		
	•	1	D. M. METERS	۰	1 '	D. P. METERS	DATUM		
ANK; red Red water tank 1933)	33	15	229,2	117	25	521.2	NA27	tri	510 2
UILDING 1953) N. gable large warehs/	/ 33	18	1416.3	117	28	930.9	do	do	do
UPOLA 1933) Cupola red roofed hae/		zi,	717.3	117	36	540.5	đo	đo	do
ANK, TALLER OF TWO 1933) Highest of two blk the		28	54.1		مد	1163.3	đo	đo	đo
UILDING 1933) Windvane atop plunge/		27	500.8		39	1528.3	đo	đo	do
ANK, green Green water tank 1933)	3 3	28	966.7	117	41	969.3	đo	do	đo
OWER 1933)	32	509.1		46	391.3	đo	đo	đo
note: the	pove	pos:	tions h	ve 1	been	adjusted	in th	field a	ocording
	1		s from			"			
enore	w11.	l be	submitt	land ed a	imari fter	air-pho	o topo	covered graphic	by the heets
have	peen	com	iled.						-
· · · · · · · · · · · · · · · · · · ·									

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. .5602

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

Number of positions on sheet	1000
Number of positions checked	5%
Number of positions revised	None
Number of soundings recorded	25.14
Number of soundings revised	
Number of signals erroneously	
plotted or transferred	1 "Dun"

Date: March 20, 1935

Verification by Thomas S. Evans

Review by Harry T. Kelsh

Time: Feb 18 to May 20.1342 hrs

March 20 1935 VERIFICATION REPORT ON H-5602 1. The records are found satisfactory, except in after) Cases under "Runarks" where information on rocks V 28 not sufficient to defermine it swash at certain stages of Tide; higher authority use consulted as to proper labeling. The statistics on cover of Vol 2 were in error, and corrected as indicated. Loudmarks for Charts (Form 567) was submitted. Recoverable stations (Form 529)& Lighthouse Gart pushare, to the 3 fm curve, except for small breaks in was omitted 111 depth 2. The to and 20 for from curve are complete within the limits of the streets the remaining curves we troken drawn in asurt fashion, without my apparent disagreement. 3. The field plotting was complete, but the drafting of shoreline, & rocks from Hopographic sheet (not get received) appeals insure sayracy. To be sufficiently well delineated to insure sayracy. 4. The verifier had to replot station "Dun" d33°32'43.81' 2 117°48'15.48' in conformity with a letter of correction from Chief of Party, R.W. Knox, dated Mar. 11, 1935, and offschad to D.R. of this sheet. The positions affected by this change were realected, but none appeared aftered sufficiently to require replotting The junction with H-5603, on the East, nas found satisfactory, except for a showlor sig. of 2/6 \$33°31.6 >117°46.3, and slight change of curves. The junction with H- 5534 on the West, in general shows should sage thou on H-5602, and numerous replacement of sogs were made in favor of the

H-5602 (continued)
5. (contd.)
Shoaler depths from H-5534 (1934).

6. Romarks:
The Topographie Sheet has not yet been received.
The Topographie Sheet has not yet been received.

Since The depth curves of H-5603 have not been adjusted to confirm to H-5602 at overlap since the former sheet is now being reviewed.

Respetfully Submitted
Thomas L. Eines

May 20 1935

Venfutin Report sheet # 5603 (1954)

Venfied and what of Harm To Kelsh

extre calm weather.

- O The records are neat, legitle, and conform to the requirements of the hydrographic manual except:
 position murches and letters on core and title

 have should be in color to conform with record

 (par 13x H. Marval). Corrected in office.
 - 3. All depth causes down to the 5 fathom course of the defen came, except can be drawn i de tail; The 4 fm. course, except for mine breaks at points with offying ledges and rooks. and the 3 and 2 fm. cures for and rooks and the 3 and 2 fm. cures for worth and of sheet, arth a good approximation of the 2 and 1 fm cure (for that forting the sheet.)

 For the remainder of the sheet the close in rooks and ledges are too mumerous to allow close in show and ledges are too mumerous to

respection refer Neet H 5603

Kelf limits, and bottom characteristics, any covered in remarks. All boat maneuvers clearly stated.

- (3) Field plotting was excellent and complete as required
 by the hydrographic manual. Only 4 minor errors
 in plotted positions were noted, and 3 minor errors
 in plotted depths

 3 elevations of works award were found in correct according
 to recorded elevations in sound; records. Topographic sheet

 tomerce is not as yet available for comparison.
 - (4) No extra drafting work required except for motest
 - 6) Contemporary adjacent sheets not yet available so no over lap could be established.
 - 6) The field work was apparently carnied on the with care and there are no pourly developed areas. It is noted however that no cross lines were run.

Elevature of rocks were carried to tenths of feet. This was corrected for all those elevations referred to in the sounding records or on boat sheet. com The work but.

In order 8 ravoid obeflication of work in

conecting This error in Alotting, There works

the elevation of which must have been obtained

from the topographic wheet were left as shown

(i.e. cannied out to tenths) would topographic wheet

The tout sheet locations of 2 works 130 M W.S.W.

of sig. For do not check with smooth sheet and a

close insterling to Topo. sheet shelf he made at

that point

Han 1. Keht

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO.3603

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

Number of positions on sheet	1385
Number of positions checked	82.
Number of positions revised	4.
Number of soundings recorded	3785
Number of soundings revised	3
Number of signals erroneously	
plotted or transferred	

Date:

Verification by Harry TKelsh
Review by R.J. Christman

Time: Feb 28 - Mar 9, 1931 - (57 hrs)
Time: 12 3/4 hrs

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ..5604

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

Number of positions on sheet	1903
Number of positions checked	476.
Number of positions revised	2.
Number of soundings recorded	6775
Number of soundings revised	136
Number of signals erroneously	
plotted or transferred	0

Date: April 19, 1935

Verification by F.A.KHAPP

Review by G. Pisegari

Time: 1093/4 lo.

Time: 292 hrs.

The records conform satisfactory to the general requirements, all the usual depth curves have been

The field felotting was complete to the extent - prescribed in the Hydrographic Manual.

The junctions with contemporary sheets were verified by overlaps.

The stone line, Signals, and rocks were inked in before sheets was received by the verifier. (Rlow mignety?

lock awash at bositions 1-2-3, a Day bores 3'MILLE IN Records the same rock shows 2.5 min on Jopo sheet, verified

as 3 min from the records.

Records note rock awash at Position 92-Boxy this rock is not shown on the topo sheet, Mr. Shalourty advised me to remove this rocks from 45604 as this is shown in detail on 4-5603. It was found later necessary to show this rock in the overlaps.

It was necessary to correct all the soundings between

10 and 11 fathoms.

The -air photo sheet is not available for comparison.

J. A. Knapp

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ..5.605

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

Number of positions on sheet	<i>!659</i> .
Number of positions checked	. 203
Number of positions revised	0
Number of soundings recorded	6405
Number of soundings revised	9[159 fractions on 10 fathoms
Number of signals erroneously	
	^

Date: April 5, 1935

Verification by L.B. Beres

Review by

Time: 55 /2 hrs

plotted or transferred

VERIFIER'S REPORT

_H-5605 RIW KNOX Chief of party PROTRACTED BY C.L RASMUSSON AERIFIED BY L.B. BERES

DATE OF SURVEY-1934 Surveyed by R.J. Sipe PLOTTED BY A.J. VOLLMAR INKED BY L.B. BERES.

1. The records conform to the requirements of the Iseneral instructions except in the following instance:

frequently omitted in the recording of successive foritions. (# 74 GEN, INST.)
Restirely few cases, and changes in Signals were recorded 2. The usual depth curves can be completely

- drawn with the exception of the on fathon curve.
- 3. The field flotting was completed to the extent frescribed in the Hydrographic Manual.
- 4. The drafting as done by the field faity ~

 was complete and satisfactory.

 5. The functions with the contemborary

 H-5606(1934) is satisfactory.

 adjacent sheets are as not uncompleted

 Jundson with H5604(1934) will be considered by the verifier of that

 6. Remarks:

Signal Sir- This signal was recorded as Sir in the records, listed Ser in Vol I Signal list in Sounding Records. Sir on Boat sheet, Ser on Smooth sheet and Cir on Topo-sheet. This signal

was changed to Sir on all sheets and in the records. Signals Pot and Air of San Onofre R.R. Depot and Airway No 5 1932 were not under scored as promoled in \$\P\$ 23 GEN. INST. Several shool soundings affect on the sheet which appear inconsistent with the surrounding depths in their respective area, this was due to the frevalence of kelp in these areas & Indications show that the surrounding depths in these cases may be used as a depth criterion on these isolated 3 There are no special geographic features in this area

> Respectfully submitted Small Beres Ofil 5, 1935

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ...5606

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

Number of positions on sheet	1443
Number of positions checked	100
Number of positions revised	0
Number of soundings recorded	5352
Number of soundings revised	16 (+121,-fractions on 10 fothers
Number of signals erroneously	
plotted or transferred	0

Date:

Verification by Ebert K. Chisholm

Review by Harry T. (2/54)

Time: 73 km.

Time: 14 hrs

January 31, 1935.

Division of Hydrography and Topography:

Division of Charts:

Attention: E. P. Ellis

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 5602

Locality Laguna to Corona Del Mar, Southern Calif.

Chief of Party: Robt. W. Knox
Plane of reference is mean lower low water, reading
3.9 ft. on tide staff at La Jolla
26.2 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.2 feet

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

VERIFIERS REPORT ON H. 5606 (1934)

- 1. The records conform to the requirements of the General Instructions.
- 2. The field plotting was complete and accurate, and the office draftsman did not have to do over any of the drafting done by the field party except as noted.
- 3. Curves can be completely drawn except the 2 fathom curve, where lines were not run close enough to shore. This includes about 25% of the shoreline. Bottom characteristics amply covered.
- 4. Contemporary topographic and hydrographic (adjacent) sheets not yet available. Air-photo compilations not available for comparison of shore line.
- 5. Remarks: There were a few errors in the fractions of fathoms, notably around the 20 fathom curve. All fractions were omitted on the 10 fathom soundings.
- 6. Only three geographic names occur on this sheet. There will be detailed information concerning other names when the air-photo compilations have been received.
- 7. There are no geographic features in this area.

March 15, 1935.

Submitted by - Robert K. Chisholm.

H.

Division of Hydrography and Topography:

Division of Charts: Attention: E. P. Ellis

Tide Reducers are approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET 5604

Locality San Mateo Point to San Juan Canyon, Southern California

Chief of Party: Robt. W. Knox
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at La Jolla
26.2 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.2 ft.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

February 1, 1935

Division of Hydrography and Topography:

Division of Charts: Attention: E. P. Ellis

Tide Reducers are approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET 5605

Locality Horno Canyon to San Mateo Point, Southern Calif.

Chief of Party: Robert W. Knox
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at La Jolla
26.2 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.2 ft.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

Date. Jan. 28, 1935

GEOGRAPHIC NAMES CALIFORNIA

Survey No	Н 5602	
Chart No	5102	

Names approved Feb. 8, 1935. Helew M. Shring Diagram No. 5102-3

Approved by the Division of Geographic Names, Department of Interior.

¢, Not Approved by the Division of Geographic Names, Department of Interior.

R. Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
		Laguna Beach			
	AND THE PART THE THE THE THE THE THE THE THE THE TH	Corona Del Mar			
	Arch Rock ***	***			
	Pelican Point*				
	Abalone Point**	Abalone Point			
	Crystal Cove* & GN. 23		and a		
	Emerald Cove**		5		
	Two Kock Foint **	Two Rock Point			
	Recreation Point**				ij.
·	Cactus Point**		,		
	Reef Point**				
,	* Names taken from T-	1646(1885), H-1908(1889),	and current	triangulatio	on
	1	triangulation description	8.		
	*** on H-1908 and in tri	angulation descriptions.			
	*Names also on U.S.G.S	. Santa Ana, Calif., Quad	•		
·					
<u>`</u>					

Date. Jan. 28, 1935

GEOGRAPHIC NAMES

Survey	No	H	5603	 -
		- 5 1	∩ •	

Chart No. <u>551.0</u>

Names approved Feb. 8, 1935. Helee M. Strong

- *, Approved by the Division of Geographic Names, Department of Interior.
- \rlap/c , Not Approved by the Division of Geographic Names, Department of Interior.
- R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
		San Juan Canyon			
		Laguna			
	For detail of names s	see air photo topo sheets	and accompa	nying Descrip-	
-					<u> </u>

GEOGRAPHIC NAMES CALIFORNIA

Survey	No H-56	04	

Date. Jan. 28, 1935

Chart No. 5102

Names approved Feb. 9, 1935. Helen M. Strong Diagram No. 5102-3

* Approved by the Division of Geographic Names, Department of Interior. Hurlow Bacon

¢, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
		San Juan Canyon		San Mateo	
				Point	
	For name	to And	nespone	Long	
	topo she	to. And		0	
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Date. Jan. 28, 1935

GEOGRAPHIC NAMES

Survey	NoH-5605	 _

Chart No. 51.02

Names approved teb. 9, 1935. Helen M. Strong Diagram No. 5102-3

*, Approved by the Division of Geographic Names, Department of Interior.

 $\not C$, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
		Horno Canyon			
				San Mateo Point	
	In nan	se detail see a sheets. H.Mis	onesja	reding	
	Copo	sheets, HMS			
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			•		
				·	
					·
					*
	· · · · · · · · · · · · · · · · · · ·				

Date. Jan. 28, 1935

GEOGRAPHIC NAMES CALIFORNIA

Survey	No	_H	5606	
Chart	No	51.02	2	

Names approved Feb. 9, 1935. Helen M. Sturny. Diagram No.

Diagram No. 3102-5

*, Approved by the Division of Geographic Names, Department of Interious.

 $\not c$, Not Approved by the Division of Geographic Names, Department of Interior.

R, Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
		Las Flores			
		Santa Margarita River			
	=jjua=jañjjak++++SJf.©I	Las Pulgas Canyon			
	In na	me detail see	carress	rondiic	9
	tops	me detail see sheets. Anis			1
				·	
		<u> </u>			
			J.		
				·	

February 1, 1935

Division of Hydrography and Topography:

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

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5603

Locality San Juan Canyon to Laguna, California Coast

Chief of Party: Robt. W. Knox
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at La Jolla
26.2 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.2 ft.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

February 4, 1935.

Division of Hydrography and Topography:

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

Tide Reducers are approved in
4 volumes of sounding records for

HYDROGRAPHIC SHEET 5606

Locality Santa Margarita River, Las Flores, Coast of Southern California

Chief of Party: Robt. W. Knox
Plane of reference is mean lower low water, reading
3.9 ft. on tide staff at La Jolla
26.2 ft. below B.M. 1

Height of mean higher high water above plane of reference is 5.2 feet.

Condition of records satisfactory except as noted below:

Acting Thief, Division of Tides and Currents.

REVIEW OF HYDROGRAPHIC SURVEY NO. 5602 (1934)

Laguna to Corona del Mar, Gulf of Santa Catalina, California
Surveyed - June - July, 1934
Instructions dated April 14, 1932,
with supplemental instructions of Feb. 17, 1933 (R. W. Knox)

Hand Lead and Machine (trolley rig) soundings - 3 Point Fixes on Shore Signals

Chief of Party - R. W. Knox. Surveyed by - R. J. Sipe. Protracted and Soundings Plotted by - Don V. Radcliffe. Verified and Inked by-T. S. Evans.

1. Condition of Records.

The records are neat, legible, and conform to the requirements of the Hydrographic Manual, with the following exceptions:

- a. Occasional lapse in entry of bottom characteristics.
- b. The day letter and position numbers on title page and cover were not in color to conform with the records.

2. Compliance with Instructions for the Project.

The plan, character, and extent of the survey satisfy the instructions for the project.

3. Sounding Line Crossings.

No cross lines were run, but adjacent lines compare favorably, and overlapping lines from adjoining sheets are in good accord.

4. Depth Curves.

All depth curves may be drawn as far inshore as the 3 fathom curve (except for a few small breaks in that curve); and portions of the 2 fathom curve. The open nature of the coast prevents close inshore development under usual weather conditions.

5. Junction with Contemporary Surveys.

The junctions with H-5603 (1934) on the south and H-5534 (1934) on the north are satisfactory.

No offshore work for this area has as yet been received in the office.

6. Comparison with Prior Surveys.

a. H-1256 (1875).

This survey, on a 1-10,000 scale, covered only a small section at the north end of the sheet.

The present work shows some shoaling adjacent to the breakwater, since constructed, on the east side of the entrance to Newport Bay. Outside of this, however, the soundings are in good accord.

b. H-1418 (1878).

This survey, on a 1-20,000 scale, covers merely the extreme north tip of the sheet, checking with H-1256 (1875).

c. H-1908 (1889).

This survey, on a 1-20,000 scale, covers the entire area of the present survey except the north end, with rather widely spaced sounding lines. It is in general agreement with the work, with the exception of a shoal line in lat. 33°31.9', long. 117°46.9' from pos. 26b to pos. 27b (blue). This line was found to have been correctly plotted from the records, however four cross lines of the present survey indicate it is too far offshore. For this reason the soundings on this line were not carried forward.

Submerged rocks, not located by the present survey, are scattered throughout the area. These rocks were located by distance and direction from sounding lines, but as all of them are inshore from present lines or between present inshore lines in foul areas, they have been carried forward to the present survey.

d. H-4545 (1926) and H-4546 (1926).

These surveys cover only the northern tip of the present work.

H-4545 (1926), on 1-10,000 scale, shows a 5/6 fathom sounding at lat. 33°35.36', long. 117°52.23' just off a small foul point, and between present lines. This sounding has been added to the present survey.

H-4546 (1926), on a 1-5,000 scale, shows the rock at lat. 33° 35.55', long. 117°52.50' as bare at all times, and it so appears on chart 5108. The present topographic survey, T-4896 (1934), assigns it an elevation of 4.5 feet above MLIW. This delineation should be accepted and the rock should be so charted.

7. Comparison with Chart No. 5108 and 5101.

a. Hydrography.

Within the area of the present survey the above charts are based on surveys discussed in the foregoing paragraphs with the exception of a very small area off the entrance to Newport Bay, on the northwestern limits of the present survey. This area is being charted from U. S. Engineer's Bp. 27,944 (1934). The depths appear to agree fairly well with those of the present survey, but the overlap is too small for a detailed comparison.

Numerous charted rocks, close inshore, in the area north of lat. 33°35.0° originate with T-4186 (1926). These rocks are not in agreement with the new topographic delineation on T-4896 (1934) and have been considered in the reviews of the air photo compilations, T-5030 and T-5418.

b. Aids to Navigation.

The bell buoy at the entrance to Newport Bay was transferred to H-5602 (1934) from the adjoining sheet, H-5534 (1934). Its new location is about 60 meters north of the position shown on Chart No. 5108.

8. Field Plotting.

Field protracting and plotting were accurate and conform to the requirements of the Hydrographic Manual, however the shoreline and adjacent features were not carefully transferred.

9. Additional Field Work Recommended.

This survey is complete, and no additional field work is required.

10. Superseding Old Surveys.

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

H-1256 (1875) in part. H-1418 (1878) " " H-1908 (1889) " " H-4545 (1926) " " H-4546 (1926) " "

H-5602 (1934) - 4

11. Reviewed by - H. T. Kelsh and R. L. Johnston, March, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

Chief, Division of Charts.

Chief, Section of Field Work.

Chief, Division of H. & T.

applied to Chart 5101- May 14, 1936 - R.M. Z.

REVIEW OF HYDROGRAPHIC SURVEY NO. 5603 (1934)

San Juan Canyon to Laguna, Gulf of Santa Catalina, California Surveyed in 1934 Instructions dated December 13, 1933 (R.W.Knox)

Handlead and Machine Soundings - 3 point fixes on shore signals.

Chief of Party - R. W. Knox.
Surveyed by - R. J. Sipe.
Protracted by - Don V. Radcliffe.
Soundings penciled by - A. J. Vollman.
Verified and inked by - Harry T. Kelsh.

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual except that the position numbers and day letters are in blue in the records and in red on the sheet. As the hydrography was all done from one boat no confusion results and the records have not been changed.

2. Compliance with Instructions for the Project.

The plan and extent of development conform to the instructions for the project.

3. Sounding Line Crossings.

No cross lines were run but soundings on adjacent lines are consistent.

4. Depth Curves.

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

5. Junctions with Contemporary Surveys.

Junction with H-5602 (1934) to the northwest and with H-5604 (1934) to the southeast will be considered in the review of those surveys.

Offshore surveys have not yet been received in the office.

6. Comparison with Prior Surveys.

a. H-289 (1851).

This survey is a reconnaissance plotted on a small scale. The information is mostly of a topographic nature with only a very few soundings falling within the area of the present survey. All of this information has been covered by later surveys.

b. <u>H-1783 (1887)</u>, <u>H-1907 (1889</u>), <u>H-1908 (1889)</u>.

These surveys are in good depth agreement with the present survey. Rocks and details originating with the old sounding records are in good agreement with the present survey but differences are noted in shoreline and in details originating with the old topographic surveys. Most of these differences may be accounted for in different methods of representing the same features and by the breaking down of some of the rocks.

- (1) A rock awash (charted) has been carried forward from H-1783 (1887) in lat. 33°27'.3, long. 117°41'.3. The present survey shows a sunken rock (½ fathom) in this vicinity. The prior survey has a number of soundings in this vicinity, one of which reduces to zero at MLLN; and there is a note on the accompanying tracing stating that this rock (Crawfish Rock) is "awash at lowest low water.---It consists of a group of large boulders with deep water between them".
- (2) Soundings on H-1783 (1887) have been carried closer inshore than on the present survey. In view of the general close agreement between the two surveys, these soundings may be used to supplement the present survey on any large scale chart that may be constructed.

c. H-4560 (1926).

This survey is on scale 1-120,000 and only the inner line of soundings fall within the area of the present survey. The agreement in depth is satisfactory.

7. Comparison with Chart 5101.

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

8. Field Plotting.

The protracting of positions and the plotting of soundings were excellent. Elevations of rocks were inked to tenths of a foot. This seems an unnecessary and doubtful refinement.

9. Additional Field Work Recommended.

The survey is complete and satisfactory and no additional work is necessary.

10. Superseding Old Surveys.

Within the area covered the present survey with the indicated additions

H-5603(1934) - 3

supersedes the following surveys for charting purposes:

H-289 (1851) in part. H-1783 (1887) in part. (see. par. 6b-2) H-1907 (1889) in part. H-1908 (1889) in part.

11. Reviewed by R. J. Christman, March 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

C. K. Green,

Chief, Section of Field Records.

2/100

Chief, Section of Field Work.

Chief, Division of H. & T.

Chief. Division of Charts.

applied to Chart 5101 - May 16, 1936 L.m.z.

REVIEW OF HYDROGRAPHIC SURVEY NO. 5604 (1934)

San Mateo Pt. to San Juan Canyon, California Surveyed in May 24 to June 19, 1934 Instructions dated October 31, 1932 (C. K. Green) April 14, 1932, February 17, 1933 (R. W. Knox)

Hand Lead and Machine Soundings

3 Point Control on Shore Signals

Chief of Party - R. W. Knox.
Surveyed by - R. J. Sipe.
Protracted by - D. V. Radcliffe.
Soundings plotted by - A. J. Vollmar.
Verified and Inked by - F. A. Knapp.

1. Condition of Records.

The records conform to the requirements of the Hydrographic Manual, except that cuts to a number of rocks awash were not entered on the index pages of volumes 5 and 6.

2. Compliance with Instructions for the Project.

The survey complies with the instructions for the project.

3. Sounding Line Crossings.

No general system of cross lines were run but those that were, as well as the adjacent lines, show good agreement.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn, including portions of the one fathom curve.

5. Junctions with Contemporary Surveys.

The junction with H-5603 (1934) on the west is satisfactory.

The junction with H-5605 (1934) on the east is satisfactory.

The offshore survey has not been received.

6. Comparison with Prior Surveys.

a. H-289 (1851).

This is a reconnaissance survey on a scale of about 1:480,000, showing only soundings (four in number) from 1 to 5 miles apart. It adds nothing of any value to the present survey and should not be used for charting.

REVIEW OF HYDROGRAPHIC SURVEY NO. 5605 (1934)

Horno Canyon to San Mateo Point, Gulf of Santa Catalina, Calif.
Surveyed in May, 1934
Instructions dated April 14, 1932, February 17, 1933 (R.W.Knox)

Hand Lead Soundings - 3 point fixes on shore signals.

Chief of Party - R. W. Knox.
Surveyed by - R. J. Sipe.
Protracted by - C. L. Rasmusson.
Soundings plotted by A. J. Vollmar.
Verified and inked by - L. B. Beres.

1. Condition of Records.

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

- a. Position numbers and day letters were inked on the smooth sheet in red instead of blue as recorded.
- b. On the cover label and title page of the sounding records, the position numbers and day letters were in black ink. These were changed to the proper color in the office.
- c. No copy of Landmarks for Charts on form 567 accompanied this particular sheet.
- d. A number of no bottom soundings varying from 4 to 6 fathoms and one to two fathoms shoaler than surrounding depths, were recorded and shown on the smooth sheet. These were caused by the lead fowling on growing kelp. The no bottom soundings have in all cases been removed from the smooth sheet and the kelp symbol substituted therefor.

2. Compliance with Instructions for the Project.

The plan, character and extent of this survey satisfies the requirements of the instructions.

3. Sounding Line Crossings.

No cross lines were run. The agreement of soundings on adjacent parallel lines is satisfactory.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn including portions of the one fathom curve.

- (2) The group of 4 sunker rocks (one of which is charted) at approximate lat. 33°25.2', long. 117°37.9', were accurately located and described on the present survey. The new delineation of these rocks should be accepted.
- (3) The rocks in the San Matee Rock group (lat. 33°24.3', long. 117°36.9') are shown on this survey but actually originate with T-1738 (1886). While they are in substantial agreement, the present delineation is more detailed and is also considered more accurate and should be accepted.

d. H-4560 (1926).

Only about 8 soundings, from this offshore survey on a scale of 1-120,000, fall within the limits of the present survey. These are in good agreement.

7. Comparison with Chart No. 5101.

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 usual amount of field plotting was well done, except that no fractions were shown for depths between 10 and 11 fathems.

9. Additional Field Work Recommended.

This survey is satisfactory and no additional work is required.

10. Superseding Old Surveys.

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

H- 289 (1851) In Part. H-1783 (1887) " " H-1907 (1889) " " H-4560 (1926) " "

11. Reviewed by - G. Risegari and R. L. Johnston, May 6, 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

Conduction

Chief, Section of Field Work

Chief, Division of Charts.

Chief, Division of H. & T.

rpphis to chart 5701 - May 26, 1936 - Lmz.

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b. H-1783 (1887).

This survey covers the area west of long. 117°39' and is in general agreement with the present survey.

(1) The sunken rock (charted) in lat. 33°27.2', long. 117°40.1', originating with T-1737 (1886), falls between depths of 11 to 13 feet on the present survey. These are similar to the depths on H-1783 (1887), but the records of that sheet do not show any notation of a rock.

A special search for it was made in 1887 by F. Westdahl, who reported it as non-existent as a rock awash. (See tracing H-1783 (November 7, 1887).

Inasmuch as the present survey did not develop this area sufficiently to disprove the existence of the rock, it is being carried forward.

- (2) The two sunken rocks, one of which is charted at lat. 33° 27.03', long. 117°40.4', fall near a 1-5/6 fathon sounding on the present survey. They were located by distance and direction from a sounding line. As the area is broken and irregular, these rocks were carried forward.
- (3) A 3 foot sounding (uncharted) in lat. 33°27.4', long. 117°40.5' is shown as a sunker rock on H-1783 (1887). It falls between soundings of 2 fathoms on the present survey. This sounding was definitely located in the old records at position 50, with the notation "on sunker rock". This sounding has been carried forward.
- (4) There are a number of soundings shown on this survey, in irregular areas fairly close inshore, which are slightly shoaler than the present ones. These areas were not closely developed on the present survey and as the bottom is rocky or hard, denoting an unchangeable character, these soundings have been carried forward.

c. H-1907 (1889).

This survey on a scale of 1-20,000 covers the eastern half of the present survey with widely spaced lines. It is in good general agreement, with the following exceptions:

(1) The sunken rock (charted) in lat. 33°24.90°, long. 117°37.88°, originates with this survey from a note in the old records at position 12a (blue) which states "Inner line of kelp 60 pos. 12 and rock 100 m. from pos. 12." It appears that the note was intended to define the inner limits of a kelp patch 100 meters away and in line with signal "Rock," one mile southeastward. A close development of the area was made on the present survey and 6½ fathoms was the least depth found. The sunker rock should be removed from the chart.

H-5605 (1934) - 2

5. Junctions with Contemporary Surveys.

The junction with H-5606 (1934) on the southeast is satisfactory.

The junction with H-5604((1934) will be considered in the review of that survey.

The adjacent offshore surveys have not as yet been received.

6. Comparison with Prior Surveys.

a. H-289 (1851)

This is a reconnaissance survey of the West coast plotted on a small scale. The information for the most part is of a topographic nature with only one sounding falling within the limits of the present survey. It is in satisfactory agreement.

b. H-1907 (1889).

This survey covers the entire limits of the present survey and is on a 1-20,000 scale. It is in good agreement with the present survey.

7. Comparison with Chart No. 5101.

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 protracting and plotting are neat, accurate and conform to the requirements of the Hydrographic Manual.

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-289 (1851) in part. H-1907(1889) in part.

11. Reviewed by - Leo S. Straw, April 1935.

Inspected by - A. L. Shalowitz.

Examined and approved:

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

Chief, Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

applied to Chart 5101- May 27, 1936 - L.M.Z. Applied to chart 3360 Dec 29, 1943 fam

REVIEW OF HYDROGRAPHIC SURVEY NO. 5606 (1934)

Santa Margarita River to Las Flores, Gulf of Santa Catalina, California Surveyed April-July, 1934
Instructions dated April 14, 1932 and February 17, 1933 (R.W.Knox)

Hand Lead and Machine Soundings - 3 Point fixes on Shore Signals.

Chief of Party - R. W. Knox.
Surveyed by - R. J. Sipe.
Protracted and soundings penciled by - C. L. Rasmusson.
Verified and inked by R. K. Chisholm.

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual with the following exceptions:

- a. The list of control signals was not entered in front of sounding records.
- b. Position and day letters were not entered on the cover in the same color as used in the records. This was accomplished in the office.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey adequately satisfy the instructions for the project.

3. Sounding Line Crossings.

No cross lines were run, but soundings on adjacent lines are consistent.

4. Depth Curves.

Within the limits of the survey all depth curves may be completely drawn as far inshore as the 3 fathom curve. Portions of the 2 fathom curve may be drawn. The open character of the coast, with considerable sea breaking on the straight sand shore prevents closer inshore development except under unusual conditions.

5. Junctions with Contemporary Surveys.

The junctions with H-5648 (1934) on the south and H-5605 (1934) on the north will be considered in the reviews of those sheets.

The survey of the offshore area adjacent to this sheet has not as yet been received in the office. This area covered by 4367 (1924) and H-4368 (1924). Junction at outer limits has been added from the second is satisfactory. (See par. 6c, this review for further discussion). H.W.M. 3/19/38.

6. Comparison with Prior Surveys.

a. H-289 (1851).

This is a reconnaissance survey and shows only one line of soundings along the coast. But one sounding falls in the area of the present survey. This checks generally with depths in the area in which it falls.

b. H-1906 (1889) and H-1907 (1889).

These surveys cover the entire area of the present survey on a scale of 1-20,000, but the development is not nearly as close as that of the present survey. They are in good general agreement with the present survey except that in a few cases the old surveys show depths 2 or 3 feet shoaler. Most of these soundings were disregarded as they are of little importance. However three soundings of 7 3/4 fathoms in approximate lat. 33°17°.3, long. 117°29°.7 fall between soundings of 8½ fathoms on the present survey. Because the surrounding depths are in agreement with those of the recent work, these three soundings have been carried forward to the present survey. Both H-1906 (1889) and H-1907 (1889) should be superseded by the present survey because it is on a larger scale and more detailed.

c. H-4367 (1924) and H-4368 (1924).

These surveys, on a scale of 1-40,000 cover the area from the 12 fm. curve out. They are in fairly good general agreement with the present survey but it is noted that some of the soundings farthest inshore are about 1 fathom shoaler than the present ones. These surveys depend partially for control upon signals located by sextant cuts. Because the present survey is on a larger scale, in greater detail and is believed to be better controlled, it was not considered advisable to carry forward any of the soundings from the surveys of 1924. Both H-4367 (1924) and H-4368 (1924) should be superseded within the area covered by the present survey.

d. H-4560 (1926-8).

This is an offshore sheet in a 1-120,000 scale. The work affecting the present survey was done in 1928, and covers only the northwest tip of the sheet. The agreement in depth is satisfactory.

7. Comparison with Chart 5101.

a. 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.

b. There are no floating aids to navigation in the area covered by this survey.

8. Field Plotting.

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

Low water lines have not been compared as the topographic sheets are not yet available.

9. Additional Field Work Recommended.

The survey is complete, and satisfactory. No additional work is required.

10. Superseding Old Surveys.

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

> H-289 (1851) in part. H-1906 (1889) in part. H-1907 (1889) in part. H-4367 (1924) in part. H-4368 (1924) in part. H-4560 (1926-28) in part.

11. Reviewed by Harry T. Kelsh, March 1935.

Inspected by - R. L. Johnston.

Examined and approved:

C. K. Green, G. A. Sheen Chief. Section of Field Records.

Chief, Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. & T.

applied to Chart 5101- May 27, 1936- L.M. applied to chart 3360 Dec 24, 1943 Lam.
Apple to Chart 5142 INSET 11-14-66 HR

25 for 10, 1936

fully Applied to Charl 5742 Dec 10, 1970 Jeff Short (5142 extended 3 minutes Eastward).