5523 5524

いののなみ

ひいいい

Diag. Cht. No. 5101-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

H-5523

Field No. 21 & 22 Office No. H-5524

LOCALITY

State California

General locality San Pedro Channel
H-5523 South of San Pedro Bay
LocalityH-5524 S. E. of San Pedro Bay

19/4 34

CHIEF OF PARTY

Robert W. Knox

LIBRARY & ARCHIVES

DATE _____October 10, 1934

B-1870-1 (1)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

		-
	U. S. GOAST & GEODETIC SURV LIBRARY AND ARCHIVES	MEG.
7	001 10 9 34	NO.
	Acc. No	ហ

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. 21 5523523

REGISTER NO.

StateCalifornia /C
General locality San Pedro Channel 17
Locality Fold South oft San Pedro Bath
Scale 1:20 000 Date of survey July 17, 1933, 19 Sept 25, 1934
Vessel chartered launch Romance
Chief of Party Robert W. Knox
Surveyed by John C. Mathisson
Protracted by C. L. Rasmusson, N. Skansen, D. V. Radcliffs
Soundings penciled byR. W. Knox
Soundings in fathoms feet
Plane of reference mean lower low water
Subdivision of wire dragged areas by
Inked by James on Ma wise of
Verified by James M. M. Justin J. 1933
Instructions dated February 17, 193, 19
Remarks:

applied to Ohr 5147 - 3 d 1935, J. J. Sandle

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

The state of the s	ų
U. S. COAST & GEODETIC SURVEY	٦
U. S. GOROL D. LOCHIVES	7
LIBRARY A D ARCHIVES	REG
Fig.	\sim
	41
	•
oct 10 .534	-
001 10	Z

HYDROGRAPHIC TITLE SHEET

Acc.	Na.	i
		`

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. 22 524

REGISTER NO.

StateCalifornia /
General locality San Pedro Channel
Locality S.E. of San Pedro Bay on Bach
Scale 1:20 000 Date of survey Aug 15-Sept 25 , 19 34
Vessel chartered launch Romance
Chief of Party Robert W. Knox
Surveyed byRWK
Protracted by N. Skansen, D. V. Radeliffe
Soundings penciled by
Soundings in fathoms feet
Plane of reference mean lower low water
Subdivision of wire dragged areas by
Inked by MSilverberg
Verified by Milverberg
Instructions dated February 17, 1933
Remarks:

U M. GOVERNMENT PRINTING OFFICE

fairmants attached - Hum.

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SHEETS NOS. 21 & 22

Scale 1:20 000

Southern California

San Pedro Bay

Instructions dated Feb. 17, 1933

Surveyed by R. W. Knox John C. Mathisson

AREA, LIMITS. The area covered by sheets number 21 and 22 comprises the waters of San Pedro Bay between the ten and fifteen fathom curves and extending from Point Fermin east and south to the vicinity of Huntington Beach. The sheets make a junction with the several larger scaled inshore sheets, to the north, and with the work of the Steamer Pioneer, offshore.

SURVEY METHODS: Standard survey methods were used. The work on sheet 21, surveyed in 1933 by John C. Mathisson, was accomplished for the most part, with the aid of a trolley rig, a 36 pound lead being used. No trolley was used in the survey of sheet 22.

DISCREPANCIES. Discrepancies noted were confined to a few one-fathom differences in the crossing of lines. Most of the cases investigated proved to be due to a one or two foot difference in the soundings involved.

DANGERS AND SHOALS. There are no dangers in the area covered by these sheets. There is, however, a 11 fathom sounding in latitude 33° 40' 270m, longitude 118° 14' 60m, which is surrounded by soundings of 13 and 14 fathoms. This sounding was the cause of considerable additional work in that area during the course of which another 11 fathom spot was found, a slight distance to the west and south of the above position.

ANCHORAGES. There are no anchorages in the area covered by these sheets.

CURRENTS: No currents of an exceptional nature were noted during the progress of the survey.

COMPARISION WITH PREVIOUS SURVEYS: No photostats of previous surveys \checkmark were furnished the party

BOTTOM. With the exception of the area between latitude 33° 39.0 and 33° 41.4 and longitude 118° 11.0 and 118° 15.0, where many fine and course brown sand specimens were brought up, the bottom was invariably fine gray sand.

GEOGRAPHIC NAMES. Geographic names covered by these sheets will be discussed on the descriptive reports of the inshore sheets.

PLOTTING. The plotting of these sheets was done by civilian draftsmen under the occasional supervision of the writer.

Respectfully submitted:

Robert W. Knox, H. & G. Eng'r.

Officed trollast 3143

STATISTICS

SHEET 21

Date	Vol	Day	St mi sdg	Positions	Sdgs	Boat
1933 Jul 17 18 31 Aug 1 2 3 4 7 8	1 1 1 2 2 2 2-3 3	a o d e f g h j k l	13.7 24.6 22.1 27.7 29.5 15.5 15.0 14.6 28.4 9.9	52 119 105 122 124 62 60 56 112 123 37	201 431 371 444 425 228 210 211 406 405 126	Romance do do do do do do do do
Totals,	fiscal y a	ar 1934	229.6	972	3458	
1934 Aug 31 Sep 4 13 18 25	3 3 4 4	m n p q	14.3 15.7 10.5 3.5 5.2	38 77 58 1 9 28	174 170 125 29 51	do do do do
Totals,	fiscal ye	ar 1935	49.2	220	549	
Total for	r sheet		278.8	1192	4007	

STATISTICS

SHEET 22

Boat:	Sdgs	Positions	St mi sdg	Day	Vol	Date
Romance	228 234 425 358 185 200 125 127 111 127	67 53 128 111 74 57 51 68 32 38	22.2 17.7 34.2 28.3 17.5 17.5 11.8 14.6 8.6 11.4	a b c d e f g h j k	1 1 1 & 2 2 2 2 2 2 2 3	1933 Aug 15 16 23 24 29 30 Sep 5 18 24 25
	2120	679	183.8		totals	

APPROVAL OF CHIEF OF PARTY

Hydrographic sheets No. 21 and 22 and accompanying records have been inspected and approved by me. The field work on sheet 21 was done under my occasional supervision, with the exception of a slight amount of work accomplished this year; the field work of sheet 22 was done under my direct supervision. The office work on both sheets was done under my occasional supervision.

No additional work is considered necessary.

Robert W. Knox, Chief of Party.

HYDROGRAPHIC SHEET No. 5523

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

Number of positions on sheet	1192
Number of positions checked	0
Number of positions revised	0
Number of soundings recorded	4007
Number of soundings revised	2.Q
Number of signals erroneously	
plotted or transferred	0

Verification of protracting
Verification & inking of rocks and shoals) by

Review by

Verification of inking by James Inthe Level

H.W. Murvay

War Lucy Time: 12 hrs

Time: 172

HYDROGRAPHIC SHEET No. 5524

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

Number of positions on sheet	679
Number of positions checked	70
Number of positions revised	!
Number of soundings recorded	2120
Number of soundings revised	29
Number of signals erroneously	
plotted or transferred	

Date: ... Nov. 9, 1934

Cartographer: M. SILVERBERG

Verification of protracting) by M. Silverbero

Time: 2 hr.

Verification of inking by

M. Silverberg

Time: 281 hr

Review by

H.W. Murray

Time: 23 ..

	Į	/	5	5	4	3

Duplicate

DIVISION	OF	CHARTS.	FILE	No

Form 567 4-5524

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Long Be	ach, California,	
	Uctober 5, 193	<u>4</u> , 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. Kno	ЭX	Chief of Party
				POSIT	ION				
DESCRIPTION		Lati	tude		Long	zitude	Datum	METHOD OF DETER- MINATION	CHARTS AFFECTED
	۰	1	D. M. meters	0	1	D. P. Meters			
TANK (tank, Sunsot Bench)	33	43	858.6	118	مار	1030.4	NA-27	tri	_5 101
TOWER High School Tower (Huntington Beach)	1	1,0	1159.7	118	•	139.4	_do	do	_5 1 01
BLACK TANK Aerator) (Black tank near	33	37	1702.2	117		300.3	do	do	5 1 01
OWER School Tower (Newport Beach High-	7	37	681,2	117		1156./	đo	do	5101
(Balboa Pier Hotel)	33	36	185.2	117		1 466.5	do	do	5 1 28
SPIRE (Balboa Pavilion)	33	36	301.3	117	53	1354.9	do	do	5 1 28
GOLD DOME (Lido Isle Gold Dome)	33	36	1204.0	117	55	63.9	do	do	5128
SPIRE Spire) (Lido Isle Clubhouse	33	3 6	1112,5	117	54	1264.4	do	do	5 1 28
VB TOWER Nowport) (Weather Bureau Tower)33	3 5	1 29915	117	52	1333.3	do	đo	5 1 28
			del	ete					
(other objects more conspicuous)	3 3	42.	7	118	03.	1			5101
TANK (gone)	33	3 6.	L;	117	53.	8	,	•	5128
						1		1	
	<u> </u>								

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

chart.

To: h	ár.	Bac	con
From	L_{ullet}	s.	S.

GEOGRAPHIC NAMES

Survey	No.	Η	5523	_	
J					

Data	Oct	<u>18,1</u> 934
Date.	<u>00 v.</u>	100100x

CALIFORNIA

Chart No. <u>5102</u>	
-----------------------	--

normes	underlined	mr	ed	approved	Oct 19,	1934
	underlined			, ,	•	JAB.

Diagram No. 5109-3

- *, 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.

Statur	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
J.	6	San Pedro Bay		CAR DOT 100 100 CAR	33 ⁰ 43,6' 118 ⁰ 11,0'
A	ja.	Pt. Fermin v			33° 42'5 118° 17.4
		San Pedro			
		Long Beach			
		Huntington Beach			
		New San Gabriel R.	Not certain as	June 18.	
			14.50.000		
	· · · · · · · · · · · · · · · · · · ·				
				}	
					*
					(M 100)
- 1					

- ·		•		
וסידיו	m L	s S	. S	

GEOGRAPHIC NAMES

Survey	No	H	552 4	

Date. <u>0ctober 18, 1934</u>

CALIFORNIA

Chart No. <u>5102</u>

Name approved Oct 19, 1934 HB.

Diagram No. 5109-3

.1.							1.60		
₩,	Approved	by	the	Division	of	Geographic	Names.	Department of	Interior.

- $\not {\mathbb C}$, 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
	ß	San Pedro Bay			33 ⁰ 43.2' 118 ⁰ 07'
					
					(OO 1 M)

. October 23, 1934

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET 5523

Locality South of San Pedro Bay, Coast of Southern California

Chief of Party: Robt. W. Knox, 1933-34
Plane of reference is mean lower low water, reading
O.O ft. on tide staff at Balboa, "A" Street Pier
7.0 ft. below B.M. 3

3.6 ft. on tide staff at Los Angeles Outer Harbor 14.0 ft. below B.M. 8

Height of mean higher high water above plane of reference is 5.2 ft. at Balboa, "A" Street Pier and 5.4 ft. at Los Angeles Outer Harbor.

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents.

arrane

October 23, 1934.

Division of Hydrography and Topography:

/ Division of Charts:

Tide Reducers are approved in 3 volumes of sounding records for

HYDROGRAPHIC SHEET 5524

Locality Southeast of San Pedro Bay, Coast of Southern California

Chief of Party: Robert W. Knox in 1934
Plane of reference is mean lower low water, reading
0.0 ft. on tide staff at Balboa "A" Street Pier
7.0 ft. below B.M. 3

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

Condition of records satisfactory except as noted below:

Acting Chief, Division of Tides and Currents.

Verification Report H-5524.

Conformity to Hydrographic Manual.

The sounding records are neat and legible and conform to the requirements of the hydrographic manual www on Hinh,

The statistics recorded on the cover of Vol. 2 were in error and corrected as indicated.

The position numbers were poorly spaced, being much too far from the position points.

No fractions of fathoms between ten and eleven were shown and had to be corrected.

No Recoverable stations (Form 524) nor the Special Chart for the U. S. Lighthouse Service (Circular Nov. 30. 1953) wore submitted.

No datum was indicated on the smooth sheet.

2. Depth Curves.

The ten fathom curve is complete as far as the limits of this sheet.

3. Field Plotting.

The field plotting was complete to the extent required for the soundings.

The plotting of hydrographic positions was verified carefully. The protracting of 10% of the position was checked.

- Position 20c (Lat. 33°38'.15, long. 118°03'.30) did not agree with the course. Two position numbers were wrong and four were omitted.

Office Plotting.

The office plotting as done by the verifier was the correction of discrepancies as outlined under No. 3 (Field Plotting).

The junctions with H-5523, H-5532, H-5533 could not 5. be made because the above sheets had not been verified. An overlap to the northwest was made on H-5487. it having the larger scale.

Respectfully submitted.

Morton Silverberg.

VERIFICATION REPORT ON H-5523.

Report on: H-5523.

Chief of party: Robert W. Knoz.

Protracted by: L. C. Rasmusson, N. S. Kansen, D. V. Radcliffe.

Verified and inked by: J. M. McQueen, Jr. Surveyed in: July, 1933 and Sept., 1934.

Surveyed by: J. C. Mathisson. Soundings plotted by: R. W. Knox.

- 1. The soundings recorded were neat and legible and conformed to the general instructions given in the Hydrographic Manual.
- 2. The limits of the sheet ranged from ten and a fraction to eighteen fathoms, with only a very short section of twenty fathom curve appearing.
- 3. Field plotting was very complete with few mistakes or omissions. Twenty sounds were revised. There seemed to be some doubt in the mind of the plotter of what to do when the fraction was five-sixths of a fathom. In some cases it was dropped, and in others it was changed to the next highest fathom.

Position numbers were rather poorly spaced with respect to the positions.

All ten fathom soundings were connected to include quarter fathoms due to an order is sued subsequent to the field plotting.

- 4. The smooth sheet was accompanied by a tracing of the positions. This tracing was compared with the boat sheet and all positions checked very well. Consequently, no positions were reprotracted.
- 5. Sheet H-5524, which joined the east side of the sheet, made a satis-

Sheet H-5485 barely to whed the sheet on the west side. Several sandings were transferred and these were satisfactory.

Sheets H-5486 and H-5487 joined the sheet on the north. Both of these sheets were on double the scale of H-5523 so so undings were transferred from it to them. In both cases the overlap was satisfactory.

Respectfully submitted,

J. M. McQUEEN, JR.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO.5523 (1933-34)

South of San Pedro Bay-San Pedro Channel- California.

Instructions dated February 17, 1933 (R.W.Knox)
Surveyed July, 1933-Sept. 1934.

Machine Soundings

3-Point Control on Shore Signals.

Chief of Party- R. W. Knox Surveyed by- J. C. Mathisson Protracted by- C. L. Rasmusson- N. Skansen Soundings penciled by R. W. K. Verified and inked by- J. M. McQueen

1.Condition of Records.

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

2. Compliance with Instructions for the Project.

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

3. Sounding Line Crossings.

Such cross lines as were run or result from the work are in excellent agreement with the main system of lines.

4. Depth Curves.

Within the limits of this survey the usual depth curves may be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

- (a) The junction with H-5524 (1934), H-5487 (1933-34), H-5486 (1933-34) and H-5485 (1933) are satisfactory.
- (b) The junction on the south with the work of the Pioneer will be considered when that work is received from the field.

6. Comparison with Prior Surveys.

Prior surveys falling within the limits of the present survey are as follows:

H-289 (1851)	H-2282 (1897)
H-706 3(1859)	H-4162 (1920)
H-1417(1878)	H-4504 (1925)
H-1418(1878)	H-4547 (1926-28)
H-1904(1889)	H-4560 (1926)

A detailed study was made of each of the above surveys and a comparison

made with the present survey. Soundings are generally in good agreement with those of H-5523 (1933-34) except as follows:

(a) H-4547 (1926 and 1928).

The two ll fathom soundings (pressure tube) in lat. 33°41'.1, long. ll8°13'.8 fall in depths of 12 to 13 fathoms on the present survey. Other soundings (tube and fathometer) of H-4547 (1926-28) falling within the limits of H-5523 (1933-34) agree within 1 fathom with occasional differences of as much 2 and 3 fathoms. The fact that these elevens in general, are considerably less than the minimum accepted for accurate tube soundings together with the fact that no shoaling indications were found on the present survey nor on H-4162 (1920) is sufficient reason for omission of these soundings in future chartings.

(b) H-4560 (1926).

The 11, 10 and two 11 fathom soundings (charted) in lat.33°40'.5, long. 118°14'.4; lat. 33°40'.4, long. 118°13'.3; and lat. 33°39'.9, long. 118°13'.2; respectively, fall in depths of 12 to 13 fathoms on the present survey. They are all pressure tube soundings. The fact that these depths are considerably less than the minimum accepted for accurate tube soundings together with the fact that no shoaling indications were found on the present survey nor on H-4162 (1920) is sufficient reason for omission of these soundings in future chartings.

7. Comparison with Chart No. 5143.

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.

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

9. Additional Field Work Recommended.

This survey is complete and very satisfactory and no additional field work is required.

10. Superseding Previous Surveys.

Within the area covered H-5523 (1933-34) supersedes the following surveys for charting purposes.

H-289 (1851)	In	part
H-706a(1859)	11	††
H-1417(1878)	77	11
H-1418(1878)	11	**
H-1904(1889)	tt	11

10. Superseding Previous Surveys (cont.).

H-2282 (1897) In part H-4162 (1920) " " H-4504 (1925) " " This is on a scale of 1:120,000. H-4547 (1926-28)" " H-4560 (1926) " "

11. Reviewed by Harold W. Murray. November 23, 1934.

Inspected by -A. L. Shalowitz.

Examined and approved.

Chas. A. Green,

Chief, Section of Field Records.

Chief, Section of Field Work.

Holdendu.

Chief, Division of H. and T.

Section of Field Records.

REVIEW OF HYDROGRAPHIC SHEET NO. 5524 (1934).

South East of San Pedro Bay-San Pedro Channel- California.
Instructions dated February 17, 1933 (R. W. Knox).
Surveyed Aug. 15, - Sept. 25, 1934.

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

Chief of Party- R. W. Knox Surveyed by- R. W. K. Protracted by- N. Skansen - D. V. Radcliffe Soundings penciled by R. W. K. Verified and inked by- M. Silverberg.

1. Condition of Records.

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

(a) No dates of location of triangulation stations were shown. These were added in the office.

2. Compliance with Instructions for the Project.

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

3. Sounding Line Crossings.

No cross lines were run. Agreement of soundings with adjacent lines is satisfactory.

4. Depth Curves.

The usual depth curves may be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

The junction with H-5533 (1934), H-5532 (1934), H-5487 (1933-34) and H-5523 (1934) are satisfactory.

The junction on the south with the work of the PIONEER will be considered when that work has been received from the field.

6. Comparison with Prior Surveys.

Prior surveys falling within the limits of the present survey are as follows:

H-289 (1851) H-4162 (1920) H-1418 (1878) H-4560 (1926) Scale 1:120,000

 ${\tt A}$ detailed study was made of each of the above surveys and a comparison made with the present survey.

Soundings are generally in good agreement with those of the present survey.

7. Comparison with Chart No. 5102.

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.

Field protracting and plotting of soundings were excellent.

9. Additional Field Work Recommended.

This survey is complete and very satisfactory. No additional field work is required.

10. Superseding Previous Surveys.

Within the area covered, H-5524 (1934) supersedes the following surveys for charting purposes:

H-289	(1851)	In part	
H-1418	(1878)	11 11	
H-4162	(1920)	_11 11	
TT AEGO	(1096) 90010	1.190 000	

H-4560 (1926)Scale 1:120,000 In part.

11. Reviewed by- Harold W. Murray, November 26, 1934.

Inspected by- A. L. Shalowitz.

Examined and approved:

Chas. K. Green, & K. Green Chief, Section of Field Records.

Chief, Section of Field Work.

Chief, Division of Charts.

Chief, Division of H. and T.

25 Sa-13 1936

applied to Chart 5101- May 1936 RM3. applied to Chart 5148 May 1943. Lam.

•

.

•