8135

Diag. Cht. No. 5101-3.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. WCFP-1553 Office No. H-8135

LOCALITY

State California

General locality San Diego

Locality South San Diego Bay

19# 54

CHIEF OF PARTY

C. A. George

LIBRARY & ARCHIVES

DATE January 31, 1956

B-1870-1 (i)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8135

Field No.WCFP=1553

State	Call	iornia							
General locality	San	Diego							
Locality	Sout	h San	Diego	Bay		••••			
Scale	1/10	,000		Date of surve	ey18	March	to 22	April	1954
Instructions dated	12 0	tober	1953						
Vessel	West	Coast	Field	Party					
Chief of party	C.A.	George) 						
Surveyed by									
Soundings taken by	tatildi	h <i>etlekl,</i> gr	raphic r	ecorder, <i>Halyd Ida</i>	v,/d/ve/_	pole			
Fathograms scaled		A.W. E							
Fathograms checke		A.W. E	Brain 6	k H.D. Lantzy					
Protracted by									
Soundings penciled									
Soundings in #2					and a	re tr	ve i	depths	5.
Remarks:									
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U. S. GOVERNMENT PRINTING OFFICE 698019

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NOTES FOR DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY REGISTERY NO. H-8135(1954) FIELD NO. WCFP-1553

SOUTH SAN DIEGO BAY - CALIFORNIA

PROJECT CS-366

SCALE 1:10,000

WEST COAST FIELD PARTY

C. A. GEORGE, CHIEF OF PARTY

SURVEYED BY: K. A. MACDONALD AND H. L. RUNGE

A. PROJECT

The work was done in accordance with INSTRUCTIONS, 22/MEK, dated 12 October 1953.

B. SURVEY LIMITS AND DATES

The area covered by this survey includes that part of South San Diego Bay south of Latitude 32° 41.6', omitting the dredged mooring area in the northeast part of the bay.

Field work began on 18 March and ended on 22 April 1954.

C. VESSEL AND EQUIPMENT

U. S. Navy Launch LCPL No. 7, obtained on loan from the Naval Amphibious Base at Coronado, California, was used for all hydrography. The launch operated from Pier 2, U. S. Naval Station, San Diego, California. The turning radius of the launch at sounding speed was approximately 10 meters. Skiff No. 475 was used for pole sounding in a relatively small area for the purpose of obtaining the low water line. Fathometers of the 808J type were used. Fathometer No. 154 SPX was used throughout except for 18 March, when No. 152 SPX was used and 26 March when No. S-108 was used.

D. TIDE AND CURRENT STATIONS

A portable tide gage was maintained at Pier 12, U. S. Naval Destroyer $\sqrt{}$ Base, National City California.

E. SMOOTH SHEET

The smooth sheet will be drawn and plotted by the Seattle Processing Office.

F. CONTROL STATIONS

The source of control was from previous triangulation, 1954 triangulation, Graphic Control Sheet WCFP-A-54, Photo Topographic Sheet 5372 (1934) and Chart Letters furnished by the Washington Office. (WCFP-A-54 9PP/12d +0 H-8/35 and Marked for destruction.)

Positions of hydrographic signals GAS and NOR were furnished by the Washington Office by Chart Letters 394(1951) and 744(1944), Southwestern District, as "Stack, northwest of four" and "Tank, elevated north", respectively.

There was some uncertainty as to the recovery of San Diego, International Magnesite Co., Galvanized Iron Tower Gable, 1916 (hydrographic signal GAL). Sextant cuts taken from the hydrographic launch and plotted on the boat shet checked the plotted position. The signal was identified on the field photographs, and the Washington Office was requested to furnish a verification of the position from the photogrammetric plot (See Paragraph 11-2, Photo Field Inspection Report).

Hydrographic stations MAG, LEO, IRK, and HOG are plotted on the boat sheet but were not used for hydrography in South San Diego Bay. The stations were used for the reconnaissance survey made on the outside coast. The boat sheet positions were obtained by sextant fixes, but the stations were identified on the photographs and positions can be obtained from the photogrammetric plot.

G. SHORELINE AND TOPOGRAPHY

(433-50-54)

Shoreline for the boat sheet was transferred from Air Photo Compilation Sheets, RS-499(T-5371) and RS-500(T-5372) on which the shoreline had been corrected from 1953 photographs.

The shoreline was relocated by photogrammetric methods in 1954 (See Photo Field Inspection Report).

H. SOUNDINGS

Soundings were taken with 808J type fathometers calibrated at 800 fms/sec., and with sounding pole in some shoal areas. Leadline soundings were obtained at intervals to check the fathometer.

At the inshore ends of many of the sounding lines, the launch was run aground on the mud flats. Weight was shifted to the port side of the launch to make the fish mounted on the starboard side ride clear of the bottom. This caused erroneous soundings on the fathogram. Pole soundings were taken in these instances, and the fathometer soundings rejected.

Э

H. SOUNDINGS - CONTINUED

Considerable difficulty was experienced with the sounding equipment during the early part of the season, especially in obtaining consistent bar checks. For this reason, velocity corrections were applied on the basis of daily bar checks until "m" day. Thereafter, a mean value of bar checks was used.

I. CONTROL OF HYDROGRAPHY

The survey is considered complete and adequate to supersede prior surveys for charting.

A satisfactory junction was made with 11th Naval District, Hydrographic Survey (Drawings NC 146(5)/N19/N1-18(1) and 18(2)) in the vicinity of the Naval Amphibious Base, Coronado, California. The Director's letter, 22-RS, dated 8 March 1954, authorized the omission of hydrography in the area covered by the naval surveys.

Depth curves of 3 met feet were drawn in various places on the best sheet to define bottom features.

K. CROSSLINES

A total of approximarely 12% consultines were run. Crossings on the \checkmark boat sheet were satisfactory.

L. COMPARISON WITH PRIOR SURVEYS

Numerous changes due to dredging and natural development have occurred review in many parts of the bay since the area was last surveyed. The results of the 1954 survey are in generally good agreement with prior survey H-5680 (1934) (1:10,000 scale) in the southern part of the bay.

M. COMPARISON WITH CHARTS

With reference to the Preliminary Review for Project CS-366, dated 15 October 1953, the following is noted:

Item 5 - The sunken wreck charted in Latitude 32° 39' 07", Longitude 117° 07' 25", was found as described. A fix was obtained at each end of the wreck and at the wreck buoy "WR 30". deleted from Chart (2778, 1954).

Item 6 - The submerged piles along the scaplane boundaries were searched for but no evidence of their existence was found.

The seaplane boundary
markers exist as charted - see

DR. C.S.-366 (Topo revision)
Copy filed as chart letter 923 1955
Under Article 8: OFF SHORE FEATURES

See also chart letter-157-1956

3/1/56

M. COMPARISON WITH CHARTS - CONTINUED

Litem 7 - The low water spot charted in Latitude 32° 40' 19" | Longitude 117° 09' 21", was disposited. Closely spaced lines were run no longitude area and no shoal was found. Not found on present sincey.

Item 8 - The shoaling

5 and 6 does not exist. However, a line between positions 40r and 44r run on the Glorietta Bay Entrance Range shows that the range does not take advantage of the best water in the channel.

Item 9 - The 10 foot basin charted in Latitude 32° 37.5° and Longitude 117° 06.0° was not found. Sufficient lines were run in the area to disprove its existence.

Item 11 - The wreck charted in Latitude 32° 38.51, Longitude 1170 press.

07.31 was not found in that position, however a similar wreck was found in Latitude 32° 38.591, Longitude 117° 07.251. This wreck was located by 5.5.57. sextant fixes, positions 11b and 12b, and 81u and 82u.

Item 12 - Sufficient lines were run in the vicinity of Vory Channel to determine its controlling depth.

Chart 5107 has a caution note, Latitude 320 37.81, Longitude 1170 07.51, which reads "Numerous Mooring Buoys and H-Beam Piling in this area". No evidence of the H-Beam piling was found in the area by the hydrographic party. The existence of these objects was discussed with personnel of the 11th Naval District Public Works Department. Although no actual record of the removal of the beams could be found, it was the consensus of the opinion of personnel familiar with the area that the beams were removed after the termination of World War II. According to the Public Works Department, the beams were used as mooring piles and projected well above high water. note wased from chart. N.F.S. consurv. 3 ma

N. DANGERS AND SHOALS

Danger	Latitude	Longitude	Least Depth	Pos No.
√Steel Pile ✓ Wooden Pile	32 39.49 3 9. 08	117 07.13	awash at MLLW	60g - charted 90 & 79u -
Derelict Barge Stranded Barge	36.56 ✓	07.28	awash at MLIW 3)	65u-& 66u Chu-1ed
(derelict) Stranded Barge	36.47	06.72	bare 7 ft at MLLW	67u & 68u Chartes
(derelict)	36.72	06.66	bare 7 ft at MLLW	69u & 70u charted
reck	39.12	07.45	bare best at Maw	121115 & 126 Spensyld CL 778 (67)
* Stranded Hulk * Derelat Bage	32 39.17 × 39.3#9	117 08 78 8	bare 20 ft at MHW (3) from topo sheet	140 % 150 charted
P. AIDS TO NAVI	GATION	- 707	C > From Popo Sueet	co a Language and an a

Fixed aids to mavigation were reported in Chart letter WCFP_54-6. forwarded to the Washington Office on 27 October 1954. A copy of the Chart Letter is included in this report.

* This barge not charted participation fraction fraction there it his ather the it is not much for many the state of th

P. AIDS TO NAVIGATION - CONTINUED

Floating aids to navigation are as follows:

Buoy	Date Located	Pos. No.	Depth(ft)	Leti o	Ltu 1		itu 1	de m
SAN DIEGO BAY		3 96 70 -				9		20
Lighted Buoy	14 Apr 154	"t" day		32 /	41	7.	09	1319
'Lighted Buoy 20	14 Apr 154	95 "t" day	24		41	1033	09	1088
/Channel Light	14 Apr 154	97	18		41	338	09	210
Buoy 22 Channel Light		98				· .	വർ	3.3 845
Buoy 24 / Channel Light	14 Apr '54 19 Mar '54		31			,-		66
Buoy 26	16 Apr '54	71"u"day	30		40 .	897 ₉₀₈	07	14 7 2
Channel Light Buoy 28	16 Apr 154	72"u"day	29		40	43 -	07	910
√Buoy 30	19 Mar 154 16 Apr 154	73"u"day	16		39	62317	07	548-5
S.San Diego Bay, Wreck Lid	19 Mar'54	. 6"b" day	12		39	22778	07	63Ø F
Buoy WR30A	129 Mar 154	. 13"b"day	17			1088	07	478 84
Emory Channel	[16Apr '54		17		٥ر	90	٠,	4 1007
Entrance Buoy No. 2	6 Apr 154	20" b" day 62" m" day	9		37	596 87	07	4242
GLORIETTA BAY		·				- '		
Entrance Ligh Buoy 3	14 Apr '54	94"t"day	11		47	69689 6680	09	1032 Z8 1118 08
✓ Buoy 4 Channel Buoy	14 Apr '54	93"t"day	10		·		•	
5 Channel Light	14 Apr '54	, 92"t"day	10		40	1767 /		68578
Buoy 6	14 Apr 154	4 91"t"day	8		40	1750 ₃₈	09	8062
Channel Buoy	14 Apr '54	4 90"t"day	10		40	1448 /-	09	1048 50
Channel Buoy	14 Apr 154	4 89"t"day	6		40	1111	09	1378/0
Channel Buoy	14 Apr 15	4 88"t"day	9 .	32	40	1030/117	09	137265

Q. LANDMARKS FOR CHARTS

Reported in Chart Letter WCFP-54-5, a copy of which is included in this report.

U. VELOCITY CORRECTIONS

Velocity corrections were determined from bar checks taken during the hydrographic operations. A copy of the abstract of velocity corrections to be applied to the soundings on this survey is included in this report.

Z. APPLICABLE DATA

Applicable Data	Forwarded To	Date
TIDAL DATA		
Level Records and Report of Tide St (National City)	ation The Director	11 Feb '54
Marigrams, No's 1,2 and 3 (National Marigrams, No's 4 to 24 incl. (National Hourly Weights, Cide Reducers		11 Feb '54 23 Apr '54
	Office	4 Nov 154
TRIANGULATION DATA		.
Hor. Directions Vols. 1 to 4 Incl.	The Director	26 Apr 154
Triangulation Sketch	The Director	26 Apr 154
List of Dir. Computations, G.P's an Descriptive Report	The Director	26 Apr 154
TOPOGRAPHIC DATA		
Graphic Control Sheet WGFP A-54, De Report, Des. of Topo Sta. and Title		28 Oct '54
HYDROGRAPHIC DATA	e e e e e e e e e e e e e e e e e e e	
Navy Hydrographic Maps, Amphibious Coronado Eight Navy Hydrographic Maps, Vicin	The Director	2 March 154
of San Diego	The Director	27 Apr 154
Abstract of Bar Checks & Velocity C		A Company of the Comp
	Office	4 Nov 154
PHOTOGRAMMETRIC DATA		
Field Photographs San Diego Harbor Dept. Drawings of	The Director	30 Aug (54
Shelter Is. and Comm. Basin	The Director	25 Aug 154
Photo Field Inspection Report, Steet		3 Sept 154
Photo Control Sketch	Seattle Proc. Off	
	Afte Director	3 Sept. 1954

Submitted

Kenneth a. mac Donald

Kenneth A. MacDonald Ensign, USC&GS

C. G. Shorge -

Approved and Forwarded

C. A. George CDR., USC&GS CinC, West Coast Field Party

TIDE NOTE

To Accompany Descriptive Report of Sheet H-8135 - Field No. WCFP-1553

An automatic recording portable tide gage located at National City at Latitude 32° 39.86' Longitude 117° 07.08' was used for obtaining tide reducers for survey H-8135. Mean Lower Low Water on the staff corresponds to a reading of 4.6 feet. (Re: Acting Director's letter 36-rcb dated 18 February 1954)

No correction to the observed readings were applied for differences in time or height.

ABSTRACT OF VELOCITY CORRECTIONS FOR HYDROGRAPHIC SURVEY

Field No. WCFP-1553 (1954)

SHEET NO. H-8195

West Coast Field Party CS-366

	Oate & 7 Letter	Depth ft.	Corr.	Fathometer	
	2	0.0 to 19.5 0.0 to 22.0 2.5 to 30.0 0.5 to 35.0	- 0.4 - 0.2 0.0 - 0.2		Use entire day
		0.0 to 6.0 0.5 to 30.0	+ 0.6 + 0.4	154	Use entire day
		0.0 to 24.0 24.5 to 35.0	- 0.2 0.0	154	Use entire day
	4 March "d" day	0.0 to 12.0 12.5 to 36.0	- 0.2 0.0	154	Use entire day
		0.0 to 32.0 0.0 to 9.5 10.0 to 23.5 24.0 to 36.0	0.0 - 0.2 - 0.4 - 0.6	154	Apply to Pos. No's 1 to 10 Apply to Pos. No's 11 to 219
	6 March "f" day	0.0 to 8.5 9.0 to 30.0 30.5 to 36.0	- 0.2 0.0 - 0.2	154	Apply to Pos. No's 1 to 7
		3.0 to 9.0 9.5 to 17.5 18.0 to 30.0	- 0.6 - 0.4 - 0.2	108	Apply to Pos. No's 8 to 118
		0.0 to 13.5 14.0 to 23.0 23.5 to 30.0	- 0.4 - 0.2 0.0	154 (with 152 amplifier)	Use entire day
- 3	31 March "h" day	0.0 to 6.0 6.5 to 21.5 22.0 to 29.0 29.5 to 36.0	- 0.4 - 0.2 0.0 + 0.2	154	Use entire day
	? April 'j" day	0.0 to 10.5 11.0 to 25.0 25.5 to 30.0	- 0.2 0.0 + 0.2	. 154	Use entire day

ABSTRACT OF VELOCITY CORRECTIONS

Continuation

Date & Day Letter	Depth ft.	Corr.	Fathometer	
			,	
3 April	0.0 to 30.0/	-0.2	154	Use entire dav
"k" day	30.5 to 35.0	0.0 ~		day -
4 April	0.0 to 6.0 /	-0.6	154 -	
"l" day	6.5 to 11.0	-0.4	±->-4	
	11.5 to 16.5	-0.2		Use entire
	17.0 to 30.0	0.0 /		day
5;6;7;8;9;13;	0.0 to 18.5/	+0.2-	154~	
14;16;20 & 22	19.0 to24.0 -	+0.4/	-2-7	
of April	24.5 to 30.5-	+0.6-		
"m"n"p"q"r"s"	31.0 to 35.0-	+ 0.8-		Use entire
"t"u"v" & "w"	35.5 to 40.0/	+ 1.0~		period
days	40.5 to 45.0	+ 1.2/		
	45.5 to 49.5/	+ 1.4~		
- -	45.5 to 49.5	+ 1.4		

STATISTICS FOR HYDROGRAPHIC SURVEY Field No. WCFP 1553 (1954)

West Coast Field Party CS-366

	Vol. No.	Day Letter	Date	HL Sdgs.	No. Pos.	Stat. Miles	Sdg.
	I	(Pier	Soundings)				
	II	a	18 March		3	0.4	Launch
	II	ъ	19 March		48	5.8	
	II	C	23 March		31	6.4	
	II & III	đ	24 March		96	18.5	
	III & IV	е	25 March		2 19	24.2	
	IV & V	f	26 March		118	22.0	
;	V	g	30 March		103	19.0	
	VI	g h	31 March		94	16.7	
	VI & VII	j k	2 April		119	17.0	
	VII & VIII	k	3 April		136	17.2	
	VIII & IX	1	4 April		128	19.0	
	IX & X	m	5 April		132	18.4	
	X & XI	n	6 April		142	25.5	
	XI	p	7 April		139	20.4	
•	XII.	q	8 April		134	24.4	
	XIII	r	9 April		60	8.6	
	XIII	S	13 April		55		
	XIII & XIV	t	14 April		98	6.1	
	XXV	u	16 April		97	6.9	
	XIV & XV	v	20 April		93	10.7	
	XV:	W	22 April		25	2.8	Launch
	TOTALS				2070	290.0	
	XVI	a	31 March	38	24	0.6	skiff
	XVI	Ъ	1 April	70	38	1.5	Skiff
	GRAND T	OTAL		108	2132	292.1	

Total area 8.8 square statute miles

LIST OF STATIONS ON H-8135(1954) Field No. NOFF-1553

Name Used in Hydre Survey	Origin of Station
АМР	Graphic Control Sheet WCFF-A-54
BASIN	PASIN, 1933
my	MY 2, 1942
: BEACH	HEACH 1954
ERSA	Sam Diego Benson Lamber Co. Chimney, 1916
BOM	Graphic Control Sheet WOFR-A-54
EUSH	Maticual City, W. J. Bush Citarus Products Co. Stack, 1954
COOR	National City Nelso Corp. Elevator Alongside Tank, 1954
COVE	OOVE (USE), 1954
COR	Coronado California Water and Telephone Co. Tank, 1954
DIE	DIKE, 1954
DUMS	DUNE 3, 1954
FIELD	FINED (GLG), 1954
CAL	Sen Diego International Magnesite Co., Calvanized Tower Cable, 1916
CAS	Stable, Northwest of Four (Position furnished by Washington Office on Form 567) Ch. Ltr. 394(1951) SW. Dist.
IAD	Graphic Control Sheet WOFF-A-54
TOOK	Germande USN Amphibious Base Lookeut Tower, 1954
XX	Graphic Control Sheet WOFF-A-54
	Graphic Control Sheet WOFF-A-54
	Graphic Control Steet WOFR-A-54
BOR	Tank, Elevated, North (Position furnished by Washington Office on Form 567) Ch. Ltr. 744(1954) SW. Dist.
PARK	PARK, 1954

LIST OF STATIONS

(conta)

Name Used in Hydro Survey	Origin of Station
PIT	Graphic Control Sheet HGFR-4-54
POLE	Center of Three Poles Near SOUTH FILON 2, 1954
RAG	RAG, 1954
RAN	RAN, 1954
SALT	Chula Vista Salt Works, Meter Rm., 1933
SEED	COTTON SEED, 1993
STACK	San Diege Municipal Sewage Works, Stack 1954
STRAND	SILVERSTRAND, 1933
TAN	South of Four Black Tanks, A.T. & S. Fe Tie Plant (Photo Topographic Sheet Reg. No. 5372)
TEL	Graphic Control Sheet WCFP-A-54
· TOW	CORCNADO TOMER, 1867
VIC	Graphic Control Sheet WGFR-A-54
YAT	Graphic Control Sheet WGFR-A-54

IT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TANDMARKS FOR CHARTS

TO BE DELETED. STRIKE OUT ONE

I recommend that the following objects which have there are been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated. G. E. Haraden

19

The positions given have been checked after listing by

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775												
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* TABULATE SECONDS AND METERS individual field survey sheets. Information under each column heading should be given. This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by こうときを声戦は一年の大きといいは、それのはなる

M-2836-3

TO BE

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DEPARTN IT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

charted on (deleted from) the charts indicated. I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be

The positions given have been checked after listing by

							1	2 2 8	1	Chi	Chief of Party.
STATE					POSITION			MATHOD		APT	
			LATI	LATITUDE #	LON	LONGITUDE*		LOCATION	DATE	RE CH	CHARTS
CHARTING	DESCRIPTION	SIGNAL	0 1	D. M. METERS	0	D. P. METERS	DATUM	SURVEY No.	LOCATION	HARBO INSHO OFFSH	277
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

M-2836-3

DEPARTI IT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS GEGERALIZED FOR CHARTS

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STRIKE OUT ONE

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The positions given have been checked after listing by

STATE CALL					POSITION		į	T T T T T T T T T T T T T T T T T T T		RT	IART
			LAT	LATITUDE #	LONG	LONGITUDE*		LOCATION	DATE	K ÇH/	CHARTS
CHARTING		SIGNAL	0	D. M. METERS	0	D. P. METERS	DATUM	SURVEY No.	LOCATION	NARBO INSHOI	OFFER:
No.12	in the same of the		8		227 S	10	J -		4	1 14	1
No.13	Charle barrol on pills		S S	8	8 11 K	4	•	•	•	9 90 1	
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Danson Con		-	1	1	T 20 12 12 12 12 12 12 12 12 12 12 12 12 12	787	'	ŀ	1	**	B
No. 16	ad larged on piles		4 4	*	20 THE W	2	•	•	•	M M	
No.18	the cares any appearance no. 38		r B	7. ES ES	277 20	7067	•	•	*	10 M	38
No.20	ad barrol on pile		S S	3000	OK LIK	***	•	•	•	# ##	11
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

M-2836-3 4,

DEPARTN IT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

SEDERIC STREET LANDMARKS FOR CHARTS

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SOUTH MAND, WASHINGTON

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I recommend that the following objects which have (And on (And or other)) the charts indicated. been inspected from seaward to determine their value as landmarks be

The positions given have been checked after listing by __

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* TABULATE SECONDS AND METERS individual field survey sheets. Information under each column heading should be given. This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

ABSTRACT OF VELOCITY CORRECTIONS FOR HYDROCKAPHIC SURVEY

Field No. WCFR-1553 (1954)

SHEET NO. H-8135

West Coast Field Party 08-366

Date & Day Letter	Depth ft.	Cerr.	Fathometer .	
18 March "a" day	0.0 to 19.5 20.0 to 22.0 22.5 to 30.0 30.5 to 35.0	- 0.4 - 0.2 0.0 - 0.2		Use entire day
19 March : "b" day	0.0 to 6.0 6.5 to 30.0	+ 0.6 + 0.4		Use entire day
23 March "c" day	0.0 to 24.0 24.5 to 35.0	- 0.2 0.0		Use entire day
24 March "d" day	0.0 to 12.0 12.5 to 36.0	- 0,2 0,0	184	Use entire day
25 Merch ^{Men} day	0.0 to 32.0 0.0 to 9.5 10.0 to 23.5 24.0 to 36.0	0.0 0.2 0.4 0.6	154	Apply to Pos. Ho's 1 to 10 Apply to Pos. Ho's 11 to 219
26 March "f" day	0.0 to 8.5 9.0 to 30.0 30.5 to 36.0	- 0.2 0.0 - 0.2	154	Apply to Pos.
	3.0 to 9.0 9.5 to 17.5 18.0 to 30.0	- 0.6 - 0.4 - 0.2	108	Apply to Pes. Ne's 8 to 118
30 March "g" day	0.0 to 13.5 14.8 to 23.0 23.5 to 30.0	- 0.4 - 0.2 0.0	154 (with 152 emplifier)	Use entire day
31 March "h" day	0.0 to 6.0 6.5 to 21.5 22.0 to 29.0 29.5 to 36.0	- 0.4 - 0.2 0.0 + 0.2	154	Use entire day
2 April "j" day	0.0 to 10.5 11.0 to 25.0 25.5 to 30.0	- 0.2 0.0 +0.2	154	Use entire day

ABSTRACT OF VELOCITY CORRECTIONS

Continuation

	Date & Day Letter	Depth ft.	Corr.	Fathometer	
	3 April	0.0 to 30.0	-0,2	154	Use entire
	"k" day	30.5 to 35.0	0.0		day
	4 April	0.0 to 6.0	- 0.6	154	
	"I" day	6.5 to 11.0	-0.4		
	<u> </u>	11.5 to 16.5	-0.2		Use entire
-		17.0 to 30.0	0.0		day
	_				
	5161718191131	0.0 to 18.5	+ 0 . 2	154	
		19.0 to24.0	+0-4		
	of April	24.5 to 30.5	+0.6		
	_H m _{ii} D _H d _{ii} L _{ii} E _H	31.0 to 35.0	+0.8		Use entire
	utundu & uAu	35.5 to 40.0	1.0		peri.od
	đa y s	40.5 to 45.0	+1.2		
	. 	45.5 to 49.5	+1.4		

APPROVAL SHEET

SURVEY H-8135 (FIELD NO. WCFP-1553)

The survey is considered complete and adequate. No additional field work is recommended.

The boat sheet was examined daily as the field work progressed.

The field records and boat sheet are to be forwarded to the Seattle Processing Office for smooth plotting in accordance with the Director's letter, 22/MEK, dated 11 October 1954.

All corrections to the soundings have been entered and checked. The soundings have been reduced, but not checked.

C. A. George

CDR., USC&GS OinC, West Coast Field Party

C. F. Storge.

E. SMOOTH SHEET

The smooth sheet was hand constructed in the Seattle Processing Office by standard methods.

The air photo compilation films were distorted, necessitating the transfer of the shoreline by machine projector.

CONTROL

Triangulation is from 1954 work. Graphic control from sheet WCFP-A-54. A difference was encountered with station Yat. Cuts to station Yat (Volumes 13 and 14) fell approximately 7 meters to the SW of the location pricked from the control sheet. A check by replotting on the new location tended to prove the new location firm. Eleven Pixes were effected by a change of 3 to 10 meters, the remaining fix G. SHORELINE AND TOPOGRAPHY and none were revised due to the above condition positions were revised due to the above condition positions were revised during resistantiam, the position changes being too slight

Shoreline is from air photo compilation RS-499, a copy of T-5371 on which shoreline details have been corrected from 1950 photos, RS-500, a copy of T-5372 on which shoreline details have been corrected from 1953 work.

The finger piers and soundings at the yacht basin Glorietta Bay are shown by insert on the smooth sheet at a scale of 1:1,000.

H. SOUNDINGS

At the ends of many of the lines where the launch grounded and a fathometer and a pole comparison were recorded; the pole sounding was penciled on the smooth sheet and indicated as a V. C. (vertical cast.) If mention was made in the notes of Mud bottom, this was penciled on the sheet as a bottom sample.

Κ. CROSSLINES

Crosslines are in good agreement on the sheet throughout, with 10/5c/cpunthe exception of trouble encountered on part of K day (blue) on the 3rd of April, fathometer 808 J-154 SPX. From position 115 to 135 K Solved by crossings plot one foot too deep. Initial and fathogram speed as well Scanning as other factors were checked and no discrepancies were found. One pad/or half foot less depth on the part of K day would make crossings over the other days. Inasmuch as there is no apparent justification for |50014/194. changing the soundings, they are plotted as recorded.

DANGER AND SHOALS

In addition to the dangers and shoals listed in the Descriptive Report, the "Derelict barge" noted on position 13a (green) was plotted on the smooth sheet. This barge was not plotted on the boat sheet or mentioned in the Descriptive Report. The note will be found in volume 16, page 5. (This derelict barge is shown on RS-500 (T-5372).)

P. AIDS TO NAVIGATION

Geographic positions or proper control was not available, so ranges 1, 2, 3, and 4, Glorietta Bay, were pricked through from RS-500 (F-5372) and angles or bearings from the Light List used. These ranges however, do not hold-up well and it was felt that the locations were not good for ranges 2, 3, and 4, and possibly is due to the distorted films.

Ranges 2, 3, and 4 were removed and should be plotted from proper control.

The smooth sheet source for ranges 2.3 and 4 is Chart lefter 166(17)

Respectfully submitted,

Clarence E. Pedersen Carto. Comp. Aid

Examined & Approved:

William M. Ma.

William M. Martin

Cartographer-in-charge, SPO

Approved and forwarded:

L. S. Hubbard, Captain, C&GS Seattle District Officer

GEOGRAPHIC NAMES

San Diego.

South San Diego.

Coronado .

Glorietta Bay.

Emory Channel

South San Die go Bay.

Imperial Beach.

Otay River.

Otay Valley.

Fruitdale

Chula Vista.

Sweetwater River.

Sweetwater Valley.

Paradise Creek .

Seventh St. Channel

National City .

Las Chollas Cr.

TIDE NOTE FOR HYDROGRAPHIC SHEET

14 February 1956

Division of Charts:

R. H. Carstens

Plane of reference approved in 16 volumes of sounding records for

HYDROGRAPHIC SHEET

8135

Locality

San Diego Bay, California

Chief of Party: C. A. George in 1954
Plane of reference is mean lower low water, reading 4.6 ft. on tide staff at National City 20,2 ft. below B. M. 3 (1934)

Height of mean high water above plane of reference is 5.3 feet.

Condition of records satisfactory except as noted below:

Chief, Mixesiania Tides and Mixesiania

J. S. GOVERNMENT PRINTING OFFICE 87798

,	GEOGRAPHIC NAMES Survey No. #-\$135		Char. Or	A C C	D D D D D D D D D D D D D D D D D D D	or och dier	Dr. local Made	O Guide of M	ord were the	N. S. J. S. L. S.	
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	South San Diego Bay	1.07									2
· .	South San Diego										3
	Imperial Beach		,								4
	Otay Valley									BGN	5
	Otay River	-			,	·					6
	Fruitdale									ļ ·	7
	Emory Channel	1					4.				8
	Chula Vista						: :				9
-	Sweetwater River	1								-	10
-	Sweetwater Valley	-							:		11
	Paradise Creek					. :				ļ	12
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO.

Records accompanying survey:	•	
Boat sheets; sounding vols; w	ire drag vols	•••;
bomb vols; graphic recorder rolls	lo-Exyclopes	
special reports, etc. 1-3-9-th sheet, & 1-Desc	riptive report.	••••
••••••••••••	•••••	• • • •
The following statistics will be submitted wire rapher's report on the sheet:	th the cartog-	
Number of positions on sheet	2	132
Number of positions checked	••••• //	7
Number of positions revised	5	-
Number of soundings revised (refers to depth only)	••••• 4	7
Number of soundings erroneously spaced	0	
Number of signals erroneously plotted or transferred	0	
Topographic details	Time 8	,
Junctions	Time	,
Verification of soundings from graphic record	Time 2	2
Verification by M. ManhartTotal time	148. Date/0.2	8.57
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DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8135

FIELD NO. WCFP-1553

California, San Diego, South San Diego Bay

Surveyed: March-April, 1954

Scale 1:10,000

Project No. CS-366

Soundings:

Control:

808 Fathometer

Sextant fixes on shore

signals

Chief of Party - C. A. George
Surveyed by - K. A. MacDonald and H. L. Runge
Protracted by - C. E. Pedersen
Soundings plotted by-C. E. Pedersen
Verified and inked by - J. E. Gearhart
Reveiwed by - I M. Zeskind
Inspected by - R. H. Carstens

Date: 12-13-57

1. Shoreline and Control

The shoreline originates with unreviewed air-photographic surveys RS-499 (1933-50-54), and RS-500 (1933-53-54).

2. The source of the control is given in the Descriptive Report.

Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated. The 3-ft. and 24-ft curves were drawn to better delineate the bottom configuration.

The bottom in this porxtion of San Diego Bay is relatively smooth except for the sharp gradients leading from the flats into the natural and dredged channels. Narrow deeps are found in several

flat areas, possibly as a result of dredging operations. A portion of the Bay is used for a seaplane landing area.

4. Junctions with Contemporary Surveys

On the northeast the present survey extends to the anchorage area charted as a dredged area, and to the area covered by surveys of the U. S. Navy south of the Seventh Street Channel, Other limits are bounded by the shores of South San Diego Bay.

5. Comparison with Prior Surveys

H-565 (1856), 1-10,000 H-5269 (1923), 1-10,000 H-5680 (1934), 1-10,000

A comparison between the prior and present surveys reveals radical changes in shoreline and bottom configuration, principally in that portion of South San Diego Bay which lies approximately north of lat. 32°38.3'. Here the bottom whose depths formerly ranged from 0-8 ft., has been dredged to general depths of 10-12 ft., channels have been dug, land has been reclaimed, and piers have been constructed. That portion of the natural channel which lies on the east side of the Bay south of lat. 32°39.5', in general, shows only minor changes in depth of 2-3 ft., except in several areas where changes in depths of as much as 8 ft. are noted. The depths here, are principally shoaler. The southern end of the natural channel has been extended in a southwesterly direction towards the shore by the dredging of a channel whose controlling depth is 8 ft. South of approximately lat. 32°38.3', the bottom has not been dredged except for the extension of the natural channel mentioned above. Here only minor changes in depths of 1-2 ft., are noted. These changes in depth are caused principally by shoaling of the bottom.

The present survey is adequate to supersede the prior surveys within the common area.

6. Comparison with Chart 5105 (Latest print date 7-22-57) Chart 5107 (Latest print date 8-5-57)

A. Hydrography

The charted hydrography originates principally with the U. S. Navy surveys of 1946-54, the U. S. Corps of Engineers surveys of 1944-56, the prior surveys previously discussed which need no further consideration, and critical soundings from

the boat sheet of the present survey. Only minor differences of 1-3 ft. between the charted and present survey depths are noted, except in Glorietta Bay and the channel leading from it to the main ship channel. This area, which was dredged subsequent to the present survey, shows charted depths which are as much as 10 ft. deeper than present survey depths.

Attention is directed to the wreck which is located on the present survey in lat. 32°39.12', long. 117°07.45'. This wreck was subsequently demolished and removed (chart letter 778, 1954), and has been deleted from chart 5107, dated 8-5-57.

The present survey is adequate to supersede all the charted information originating prior to the present survey.

B. Controlling Depths

As noted above, the channel leading from Glorietta Bay northeastward to the main ship channel was dredged subsequent to the present survey and is charted from BP. 54388 (1956).

The present survey depths in the dredged channel which parallels the finger piers in the Yacht Harbor, Glorietta Bay, are in harmony with the charted controlling depth of 8 ft. from the U. S. Navy survey of 1953 (Bp. 51077).

The present survey depths in Emory Channel are in harmony with the charted controlling depth of 8 ft.

C. Aids to Navigation

The present survey aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended, except as follows:

The aids to navigation in Glorietta Bay and in the area which lies between the southeast shore of Coronado and the U. S. Navy Amphibious Base have been charted in accordance with the H. O. N. to M. of 1956 and 1957 as shown on Aid Proof 32, dated August 3, 1956. As noted in paragraph 6 A and B above, the aforementioned areas were dredged subsequent to the present survey and new positions and numbers for buoys were established. The charted aids adequately mark the features intended.

H-8135 - 4

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done ..
- 8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This survey is considered basic and no additional field work is recommended.

Examined and approved:

Max G. Ricketts
Chief, Nautical Chart Branch

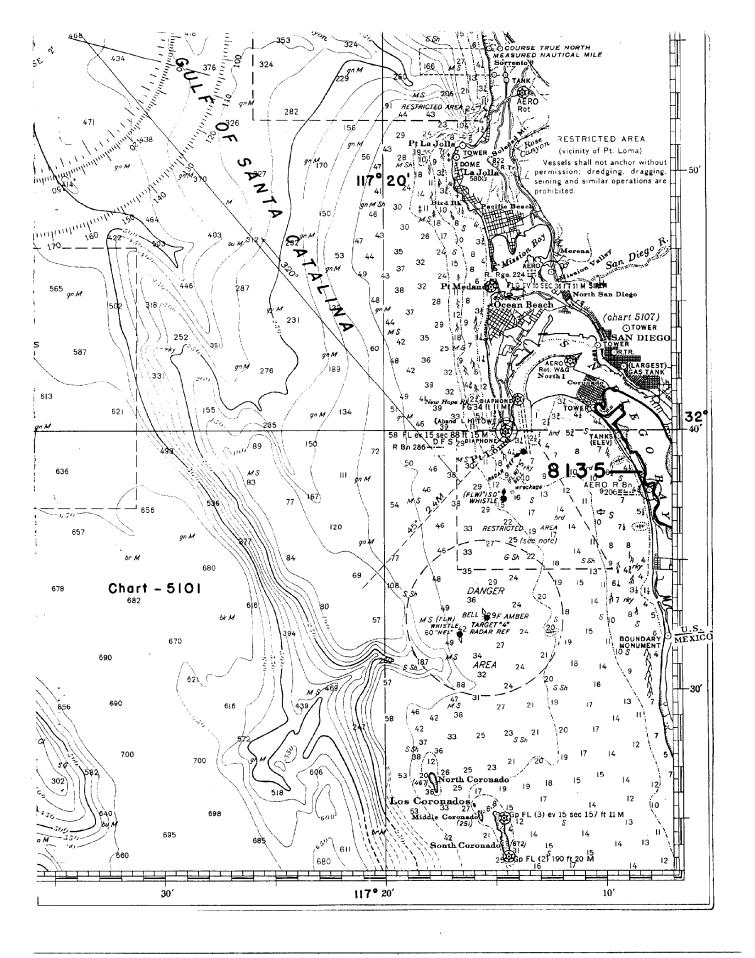
Karl B. Jeffers
Karl B. Jeffers

Chief, Hydrography Branch

Charles A. Schanck Chief, Division of Charts

Samuel B. Grenell

Chief, Division of Coastal Surveys



NAUTICAL CHARTS BRANCH

SURVEY NO. H-\$135

Record of Application to Charts

CHART	CARTOGRAPHER	REMARKS
5107	Jame Gun	Before Assar Verification and Review
		Examined only-
5105	3.m. albert	Examined for dangers no correction made. Before Verification and Review
5105	H.C. Anderson	Port. Application and Review
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5107	m. Rogerd	Partially appled Bonorder us fully applied and
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.