

7799

Diag. Cht. No. 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. LISP-1450 Office No. H-7799

LOCALITY

State NEW YORK

General locality LONG ISLAND

Locality SOUTH OYSTER BAY

194 50

CHIEF OF PARTY

I. T. Sanders

LIBRARY & ARCHIVES

DATE MAY 31, 1951

66212

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-7799

Field No. LISP-1450

State NEW YORK

General locality LONG ISLAND

Locality SOUTH OYSTER BAY

Scale 1:10,000 Date of survey 24 July - 31 August 1950

Instructions dated 7 March 1949, Supp. 11 April and 9 May 1950

Vessel Hydrographic Skiff

Chief of party Ira T. Sanders

Surveyed by John Laskowski and M.E.Natto

Soundings taken by ~~#####~~, graphic recorder, hand lead, ~~#####~~ pole

Fathograms scaled by Party Personnel

Fathograms checked by J.D.Hodges and M.C.Fox

Protracted by S.M. Tarkenton

Soundings penciled by S.M. Tarkenton

Soundings in ~~#####~~ feet at MLW ~~#####~~

REMARKS: This survey was smooth plotted by the Hydrographic Section
of the Norfolk Processing Office.

DESCRIPTIVE REPORT
TO ACCOMPANY

HYDROGRAPHIC SHEET H-7799 (FIELD NO. 1450)

SOUTH OYSTER BAY LONG ISLAND NEW YORK

LONG ISLAND SHORE PARTY

IRA T. SANDERS, CHIEF OF PARTY

PROJECT CS-337

SCALE 1:10,000

PROJECT: This survey was accomplished under Instructions dated 7 March 1949, S-2-WA, and Supp. Instructions of 11 April and 9 May 1950, FP - Long Island. Instructions called for a basic hydrographic survey.

SURVEY LIMITS AND DATES: The area covered by this survey extends westward from Long. 73-22.0 to Long. 73-27.0. The northern limit extends to the head of navigation in the various rivers and creeks. A junction was made at the western limit with 1949 Sheet H-7629, scale 1:10,000 and on the eastern limit with 1950 Sheet H-7800, scale 1:10,000. The field work was accomplished between 24 July and 31 August. In late August a few working days were spent on work in Great South Bay.

VESSEL AND EQUIPMENT: Hydrographic skiff No. 717 propelled by two Johnson outboard 10 H.P. gear ~~and~~ ^{W95} motors was used for the survey. Echo soundings were obtained with Fathometer No. 139 SPX. The transmitter and receiver were mounted inboard.

TIDES AND CURRENTS: The Tide Note is attached to this report. Currents were not observed.

SMOOTH SHEET: The smooth sheet ~~will be~~ ^{W95} plotted by the Norfolk Processing Office.

CONTROL STATIONS: Triangulation stations previously established were used for control. Several stations were re-marked on account of their poor condition.

Photogrammetric stations were transferred from air compilation sheets T-5605, T-5612 ⁽¹⁹⁴⁹⁾ and T-9300. ⁽¹⁹⁵⁰⁾

Hydrographic stations were established as required. Their positions were determined by sextant fixes at each station site.

SHORELINE AND TOPOGRAPHY: The shoreline and topographic details were transferred from air compilation sheets T-5605, T-5612, and T-9300. ⁽¹⁹⁴⁹⁾ ⁽¹⁹⁴⁹⁾ ⁽¹⁹⁴⁹⁾ ⁽¹⁹⁴⁹⁾ No discrepancies were noted between the topographic and hydrographic survey.

SOUNDINGS: The soundings were obtained with the graphic recorder, handlead and pole. Bottom samples were obtained with an armed lead.

CONTROL OF HYDROGRAPHY: Most of this survey was controlled by the three-point sextant fix method. In the upper reaches of channels and streams positions of the sounding lines were referred to distinctive shoreline details.

ADEQUACY OF SURVEY: This survey is complete and considered adequate to supersede prior surveys. The junctions with adjoining surveys are satisfactory with no interruptions in the depth curves.

CROSSLINES: Crosslines required by the Instructions were run during the progress of the work.

COMPARISON WITH PRIOR SURVEYS: No comparison is made with prior surveys but a comparison with a recent print of chart 578 follows:

* print date 2-6-50

<u>Latitude</u>	<u>Longitude</u>	<u>1950 Survey</u>	<u>Charted</u>	<u>Remarks</u>
40-37.75	73-26.40	1 ft.	4-8 ft. * charted 1 ft	Bar across entrance to channel
40-38.65	73-25.46	-	beacon	Delete, non-existent * deleted
40-37.46	73-24.59	-	shacks	Delete, non-existent * deleted
40-39.15	73-24.85	4 ft.	* 7 ft. 7-44	General area shoaler * charted 3-4 ft
40-38.60	73-23.80	0-2 ft.	(Hole Creek Channel)	Channel has filled in *
40-38.15	73-22.20	-	shack	Delete, non-existent * Deleted.

* Compared with Chart 578 (print date 9-10-51)

DANGERS AND SHOALS: None to report

COAST PILOT NOTES: Submitted to the office at the close of the season. *filed in C.P. Sect.*

AIDS TO NAVIGATION: Submitted to the office as a special report. A copy of the list of aids on this sheet is appended to this report. A nautical mile was located by triangulation methods in approximate Lat. 40-36.8 Long. 73-27.0. It is on the south side of the State Boat Channel. The records and computations for this determination were forwarded at the close of the field season.

LANDMARKS FOR CHARTS: Landmarks for charts were submitted to the office at the close of the field season.

John Laskowski
John Laskowski
Commander, USC&GS

* Dredged 7 ft - 7/44

Statistics to Accompany
HYDROGRAPHIC SHEET H-7799 (Field No. LISP-1450)

HYDRO SKIFF

<u>Date</u> 1950	<u>Day</u> <u>Ltr.</u>	<u>Vol.</u> <u>No.</u>	<u>H.L. &</u> <u>Pole Sdgs.</u>	<u>No. of</u> <u>Positions</u>	<u>Stat. Mi.</u> <u>Sdgs.</u>
25 July-21 Aug.	a	1	30	43	----
26 July	b	2	103	79	12.0
28	c	2	-	57	8.9
31	d	3	-	117	16.5
1 Aug.	e	3	2	85	11.0
2	f	4	-	46	5.8
7	g	4	-	78	10.2
8	h	4&5	-	106	13.7
9	j	5	-	146	17.7
10	k	6	-	68	12.1
11	l	6	-	70	11.4
14	m	7	107	168	24.3
15	n	8	5	91	11.0
16	p	8&9	-	117	14.9
17	q	9	-	89	8.6
18	r	9&10	-	92	9.6
21	s	10	1	77	12.7
22	t	10&11	-	82	11.6
25	u	11	319	86	9.9
28	v	11&12	-	102	11.4
29	w	12	-	73	8.9
31	x	12	-	51	4.5
Totals	22	12	567	1923	246.7

Area in sq. stat. mi. -- 8.9

LIST OF SIGNALS

HYDROGRAPHIC SHEET H - 7799 (FIELD NO. LISP 1450)

Triangulation Stations

FLAG---- Corinth, Flagpole, 1933
LIFE---- Life, 1933
MASS---- Massapequa, Tank, 1933
NEW----- New, 1909, r'33
PIPE---- Amityville, Standpipe, 1909, r'33
SQUAW--- Squaw, 1933
TANK ---- Lindenhurst, Tank, 1933
TOWER--- Observation Tower, 1933

* * * *

TOPOGRAPHIC STATIONS

DIPP ---- Described (Form 524) Rec. Topo. Sta. 1950

* * * *

TOPOGRAPHIC (PHOTOGRAMMETRIC) STATIONS

	<u>Sheet No.</u>	<u>No.</u>
BOB ----	T-5605	0506
CAB ----	T-5612	1201
FEZ ----	T-5605	0502
HIS ----	T-5605	0503
IDA ----	T-5605	0501
JAP ----	T-5605	0505
LEO ----	T-9300	034
SUE ----	T-5605	0507
WIN ----	T-5612	1202

* * * *

PHOTOGRAMMETRIC STATIONS

(Selected by Hydrographic Party - Sheets T-5605, T-5612, and T-9300)

ACE - S gable, white house, red trim.
ASK - S gable, white house, dark roof.
DIM - W gable, yellow shack, red roof.
DOG - W gable, red roof, twin brick chimneys.
DON - E gable, white house, dark roof.
EBB - S. corner of bulkhead.
EGG - SW gable, shingle house, white trim.
EVA - Cupola - center of bath house.
FLY - S gable, brick house, red roof.
FOX - SW gable, brown house, green trim.
GUY - W gable, white house, green trim.
HUT - NE corner, black shack.

(Cont.)

PHOTOGRAMMETRIC STATIONS (Cont.)

ICE - N gable, red roof, green sides, white trim.
IVY - W gable, gray house, green roof.
JIM - S gable, white comfort station, red roof.
JOE - S gable, brown house, white trim.
LIZ - S gable, brick house.
NOR - W gable, white shack, green roof.
OIL - E gable, white house, dark roof.
PET - S gable, white house, green roof.
RAT - S gable, brown house, green roof.
ROY - W gable, white house, dark roof.
SIR - N⁶ gable, yellow house, dark roof.
TOM - Chimney E end, white house, green roof.
WAR - NW gable, white house, gray roof.
YES - S gable, white house, gray roof.
YET - Center Gilgo Beach Inn - 1 story, red pyramid roof.
ZOO - W gable, white house, dark roof.

* * * *

HYDROGRAPHIC STATIONS

AMY - Vol. 1, p. 9 Temporary B&W tripod.
ART - " p. 8 Temporary B&W tripod.
FUN - " p.13 Long Island State Park Comm. Light, Fl.G. 3 sec.
GOB - " p. 7 Temporary B&W tripod.
LIP - " p.12 Temporary B&W banner.
MAX - " p. 6 Temporary B&W tripod.
ORA - " p. 7 Channel Marker #84.
PUP - " p. 7 W gable of house.
SAD - " p.15 Channel Marker, no number, FLR, 2 arrows.
VET - " p. 8 Temporary B&W tripod.

TIDE NOTE TO ACCOMPANY

Hydrographic Survey H-7799 (Field No. LISP-1450)

Portable automatic tide gages were maintained at three stations. The limits of the area in which the tides of the stations were used for reducing soundings are outlined in ink. The locations of the stations are shown on the boat sheet. No differences in time or height were applied to the observed tides. Planes of reference were furnished from the Washington Office.

<u>Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>MLW on Staff</u>
Amityville ✓	40-39.27	73-25.09	3.6 ft.
Gilgo Heading ✓	40-37.16	73-23.73	4.6 "
Neguntatogue Creek ✓	40-40.16	73-21.41	2.8 "

FATHOMETER CORRECTIONS

HYDROGRAPHIC SURVEY H-7799 (FIELD NO. LISP-1450)

The corrections are based on an INITIAL of 0.0 feet on the fathograms. Where this varies the proper correction should be applied to bring the recorded depths to 0.0 feet INITIAL. All depths have been recorded on the FOOT SCALE.

HYDRO SKIFF

FATHOMETER NO. 139 SPX

26 July - - 22 August
Depth

Corr.	From	To
- - - -	Feet - - - -	- - - -
+ 1.6 . . .	0 --	3.0
+ 1.4 . . .	3.1 --	4.9
+ 1.2 . . .	5.0 ---	5.7
+ 1.0 . . .	5.8 --	7.3
+ 0.8 . . .	7.4 --	20.0
+ 0.6 . . .	20.1 --	37.1
+ 0.4 . . .	37.2 --	Sdg limit

25 August - 31 August


+ 0.8 . . .	0 --	6.8
+ 0.6 . . .	6.9 --	16.0
+ 0.8 . . .	16.1 --	22.4
+ 0.6 . . .	22.5 --	27.3
+ 0.4 . . .	27.4 --	32.2
+ 0.2 . . .	32.3 --	37.5
+ 0.0 . . .	37.6 --	Sdg limit

A P P R O V A L S H E E T
to
A C C O M P A N Y
D E S C R I P T I V E R E P O R T
FOR
S H E E T H-7799
P R O J E C T CS-337
1950

This boat sheet and its accompanying records were examined and approved daily by me during the progress of the work. The smooth sheet will be plotted by the Norfolk Processing Office.

From close examinations of the sheet, including the drawing of depth curves, it is believed that the survey of the area covered is complete and adequate. Hole Creek Channel has filled and is no longer passable. On this account tidal conditions at Elder Island are not representative for this vicinity, and for that reason a new tide station was established at Gilgo Heading.

For a general description of the terrain covered by this sheet reference is made to the Field Inspection Report, Project Ph-54(49)c dated January 1950.


Ira T. Sanders
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SUR

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE CHARTED~~ STRIKE OUT ONE

Norfolk, Virginia

3 January 19 51

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(charted from)~~ the charts indicated.
The positions given have been checked after listing by

J. Lasowski

Ira T. Sanders

Chief of Party.

2 of 3

SHEET H-7799 (LISP-1450)

STATE	DESCRIPTION	SIGNAL	POSITION			METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE						
			° ' D.M. METERS	° ' D.P. METERS	DATUM						
New York, Long Island					H.A.	1927	1950				
Pos. No.		Depth Water Ft.				Sextant					
18 a	CM 2 arrows	8.5	40 - 37 502	73 - 24 1371	"	"	10 Aug.	X			578
19 a	CM (FLG) 2 arrows	9.3	40 - 37 469	73 - 25 51	"	"	"	X			"
20 a	CM 2 arrows	9.4	40 - 37 384	73 - 24 1400	"	"	"	X			"
21 a	CM 1 arrow	9.6	40 - 37 255	73 - 25 339	"	"	"	X			"
22 a	CM #91 1 arrow	8.5	40 - 37 242	73 - 25 561	"	"	"	X			"
23 a	CM #88 (FLR) 1 arrow	5.2	40 - 37 88	73 - 25 883	"	"	"	X			"
24 a	CM #89 2 arrows	5.8	40 - 37 12	73 - 25 1341	"	"	"	X			"
25 a	CM #87 2 arrows	9.6	40 - 36 1840	73 - 25 1390	"	"	"	X			"
27 a	CM #85 1 arrow	12.6	40 - 36 1619	73 - 27 80	"	"	"	X			"
34 a	CM 1 arrow	9.5	40 - 37 1426	73 - 22 726	"	"	21 Aug.	X			"
35 a	CM 1 arrow	6.9	40 - 37 1252	73 - 22 1302	"	"	"	X			"
36 a	CM 1 arrow	4.4	40 - 37 1042	73 - 23 620	"	"	"	X			"
37 a	CM 1 arrow	5.3	40 - 37 866	73 - 23 1219	"	"	"	X			"

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.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SUR

NONFLOATING AIDS ~~RECOMMENDATIONS~~ FOR CHARTS

TO BE CHARTED }
~~NO CHANGES~~ } STRIKE OUT ONE

Norfolk, Virginia

3 January, 19 ~~51~~

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

The positions given have been checked after listing by J. Laskowski

Ira T. Sanders

Chief of Party

1 of 3

SHEET H-7799 (LISP-1450)

STATE	DESCRIPTION	SIGNAL	POSITION				METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOUR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE		LONGITUDE							
			° ' "	D. M. METERS	° ' "	D. P. METERS						
New York, Long Island												
	CM - Channel Marker, Black pile 1 ft. in diameter, white cap with one or two white arrows near top and about 10 ft. above high water. Few are lighted and numbered. Maintained by Long Island State Park Commission.											
Pos. No.		Depth Water Ft.					N.A. 1927	Sextant Fix 1950				
2 a	CM - 1 arrow ✓	2.4	40 - 38	356 865	73 - 24	1352	"	"	25 July	x	578	
3 a	CM 1 arrow ✓	2.9	40 - 38	1196 1201	73 - 24	1300	"	"	"	x	W	
5 a	CM #84 1 Arrow ✓ Sig. ORA.	10.1	40 - 36	60 1658	73 - 26	813	"	"	27 July	x	"	
6 a	CM #86 1 arrow ✓	3.7	40 - 36	50 1744	73 - 26	178	"	"	"	x	"	
11 a	CM 1 arrow ✓	4.7	40 - 38	37 1124	73 - 24	1252	"	"	10 Aug.	x	"	
12 a	CM 1 arrow ✓	4.8	40 - 38	61 954	73 - 24	1320	"	"	"	x	"	
13 a	CM 1 arrow ✓	6.2	40 - 38	9 803	73 - 24	1287	"	"	"	x	"	
14 a	CM 1 arrow ✓	3.6	40 - 38	67 659	73 - 24	1359	"	"	"	x	"	
15 a	CM 1 arrow ✓	6.2	40 - 37	9 1545	73 - 24	1384	"	"	"	x	"	
16 a	CM 1 arrow ✓	7.8	40 - 37	21 1210	73 - 24	1340	"	"	"	x	"	
17 a	CM 1 arrow ✓	5.4	40 - 37	2 976	73 - 24	1407	"	"	"	x	"	

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 other charts. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SUR

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED }
~~TO BE DELETED~~ } STRIKE OUT ONE

Norfolk, Virginia

3 January 1951

I recommend that the following objects which have ~~(removed)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by J. Laskowski

3 of 3

SHEET H-7799 (LISP-1450)

Ira F. Sanders

Chief of Party

STATE	POSITION						METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
	LATITUDE			LONGITUDE								
	DESCRIPTION	DEPTH	° ' "	D. M. METERS	° ' "	D. P. METERS						
		Ft.					1927	Sextant	1950			
	NEW YORK New York, Long Island							Viz				
Pos. No.												
38 a	CN #99 1 arrow	9.0	40 - 37	908 ⁶	73 - 23	1364 ⁷⁷	"	"	21 Aug.	X		578
39 a	CN 1 arrow	5.4	40 - 37	619 ⁶	73 - 24	269 ⁷⁷	"	"	"	X		"
40 a	CN 2 arrows	8.1	40 - 37	725 ¹	73 - 24	296 ⁷⁸	"	"	"	X		"
41 a	CN (FLR) 2 arrows <i>ch 578</i>	3.6	40 - 37	671 ⁶⁷	73 - 24	439 ⁴⁴	"	"	"	X		"
42 a	CN #97 1 arrow	8.5	40 - 37	745 ¹	73 - 24	634 ⁴¹	"	"	"	X		"
43 a	CN (FLR) 2 arrows <i>ch 578 SIG. SAD.</i>	8.2	40 - 37	1580 ⁸	73 - 22	209	"	"	"	X		"
	Light mounted on 6 in. sq. pile, about 10 ft. above high water. Maintained by town of Babylon.											
1 e	FLG sv. 3 sec. <i>ch 578 SIG. FUN</i>	4.2	40 - 39	661 ⁴	73 - 22	878	"	"	1 Aug.	X		578
85 e	Amityville Creek FLG sv. 3 sec. <i>ch 578</i> No. 1113.7 Light List	4.7	40 - 39	223 ⁶	73 - 24	1254 ⁴⁸⁵	"	"	"	X		"

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.

ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-7799 (Field No. LISP-1450)

SOUNDINGS

Pole soundings averaged from one-half to one foot deeper than fathometer soundings in areas of soft mud bottom. In all cases the shallower soundings were plotted.

Lat. 40-38.5 Long. 73-26.8 Soundings between positions 60 to 64b day were not plotted as the fathogram trace was lost in the initial.

OBSTRUCTIONS

Lat. 40-57.55 Long. 73-24.8⁷⁸ Wreck charted at this point on Chart 578, print date 10/9/50 (earlier print not available), was not mentioned in the field records. *See P 6 A (1) of Review. Wreck retained on chart.*

Respectfully submitted,

Hugh L. Proffitt
Hugh L. Proffitt
Cartographer.

Norfolk, Va.
25 May 1951

Approved & Forwarded:

Earl O. Heaton
Earl O. Heaton
Supervisor, SE Dist.

GEOGRAPHIC NAMES

Survey No. H-7799

Name on Survey	Source of Name									
	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>New York</u>			(for title)						US+B	1
<u>Long Island</u>			"	"						2
<u>South Oyster Bay</u>			"	"						3
<u>Jones Creek</u>										4
<u>Carman Creek</u>										5
<u>Narragansett Creek</u>									US+B	6
<u>Amitville Creek</u>										7
<u>Woods Creek</u>										8
<u>Amitville Harbor</u>										9
<u>Howell Creek</u>										10
<u>Great Neck Creek</u>										11
<u>Strongs Creek</u>									US+B	12
<u>Strongs Point</u>									"	13
<u>Amity Channel</u>										14
<u>Today Heading</u>										15
<u>West Gilgo</u>										16
<u>Gilgo Heading</u>										17
<u>State Channel</u>										18
<u>Gilgo Channel</u>										19
<u>Hole Creek Channel</u>										20
<u>West I</u>										21
<u>Townsend I</u>										22
<u>Gilgo I</u>										23
<u>Wamsar I</u>										24
<u>Great I</u>										25
<u>Elder I</u>										26
<u>Thatch I</u>										27
<u>West Fox Creek</u>										28

Names underlined in red are approved. 6-13-51

L. Heck

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7799

Records accompanying survey:

Boat sheets ..1...; sounding vols. 12....; wire drag vols.;
 bomb vols.; graphic recorder rolls 10.enr,
 special reports, etc. 1 Smooth Sheet ; 1 Descriptive Report.....

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

Number of positions on sheet		1923.
Number of positions checked		20.
Number of positions revised		0.
Number of soundings revised (refers to depth only)		0.
Number of soundings erroneously spaced		0.
Number of signals erroneously plotted or transferred		0.
Topographic details	Time	1.
Junctions	Time	1.
Verification of soundings from graphic record	Time	115 hrs.

Verification by *S. K. Jeffers*.....Total time ...14.0 Date .12/3/51.

Reviewed by *Lu Jaskind*..... Time ..41.. Date 1-15-52

RAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

18 June 1951

Division of Charts: R. H. Carstens

Plane of reference approved in 12
volumes of sounding records for

HYDROGRAPHIC SHEET 7799

Locality Great South Bay, Long Island

Chief of Party: I. T. Sanders in 1950

Plane of reference is mean low water, reading

3.6 ft. on tide staff at Amityville

4.1 ft. below B. M. 4 (1949)

2.8 ft. on tide staff at Neguntatogue Creek Entrance

3.5 ft. below B. M. 1 (1950)

4.6 ft. on tide staff at Gilgo Heading

14.0 ft. below B. M. 1 (1950)

Height of mean high water above plane of reference is as follows:

Amityville = 1.2 feet

Neguntatogue Creek Entrance = 0.9 feet

Gilgo Heading = 1.1 feet

Condition of records satisfactory except as noted below:

E. C. McKay
Section

Chief, ~~Division of Tides and Currents~~

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7799

FIELD NO. LISP-1450

New York, Long Island, South Oyster Bay

Project No.. CS-337

Surveyed in July - August 1950

Scale 1:10,000

Soundings:

808 Fathometer
Handlead
Sounding Pole

Control:

Sextant fixes on shore signals

Chief of Party - I. T. Sanders
Surveyed by - J. Laskowski and M. E. Natto
Protracted by - S. M. Tarkenton
Soundings plotted by - S. M. Tarkenton
Verified and inked by - S. K. Jeffers
Reviewed by - I. M. Zeskind, 15 January 1952
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with air-photographic surveys T-5605 (1947), T-5612 (1947), T-9298 (1949) and T-9300 (1950).

The source of the control is described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated.

The area of the present survey consists of mud and sand flats and a number of marshy islands. Channels and canals are interspersed throughout the area.

4. Junctions with Contemporary Surveys

An adequate junction was effected with H-7800 (1950) on the east. The junction with H-7629 (1949) on the west will be considered in the review of that survey.

5. Comparison with Prior Surveys

a.	H-1481a (1880)	1:10,000
	H-3707 (1914)	1:20,000
	H-3720 (1914)	1:5,000
	<u>H-4796 (1927)</u>	<u>1:10,000</u>

These prior surveys have been compared with and superseded by H-5376 (1933). Further consideration of these prior surveys, therefore, is deemed unnecessary in the present review.

b. H-5376 (1933)

The present survey falls entirely within the limits of the prior survey. A comparison between the prior and present depths show a deepening in several shoal areas, such as on the north side of Townsend Island where prior depths of $\frac{1}{2}$ -2 ft. have deepened to present depths of 3-4 ft. Considerable shoaling, however, is noted in the channels and canals. In some areas prior channels have completely filled even with the surrounding area as, for example, in lat. $40^{\circ} 39.15'$, long. $73^{\circ} 24.98'$, where a prior 17-ft. channel has filled to general depths of 4 ft.

Other notable changes in the bottom are listed below:

<u>Depth charted from H-5376 (ft.)</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Present depth(ft.)</u>
$\frac{1}{2}$	$40^{\circ} 38.55'$	$73^{\circ} 26.23'$	2-3
2	$40^{\circ} 38.77'$	$73^{\circ} 26.22'$	$3\frac{1}{2}$ -4
$\frac{1}{2}$	$40^{\circ} 38.63'$	$73^{\circ} 25.97'$	3
1	$40^{\circ} 38.67'$	$73^{\circ} 25.70'$	3
$\frac{1}{2}$	$40^{\circ} 38.67'$	$73^{\circ} 25.61'$	3
1	$40^{\circ} 38.73'$	$73^{\circ} 25.45'$	3
2	$40^{\circ} 39.25'$	$73^{\circ} 23.74'$	4-5
2	$40^{\circ} 39.34'$	$73^{\circ} 23.43'$	4-5
$\frac{1}{2}$	$40^{\circ} 38.90'$	$73^{\circ} 23.57'$	2
2	$40^{\circ} 39.40'$	$73^{\circ} 24.82'$	5-7

The entrance to the canal in lat. $40^{\circ} 39.1'$, long. $73^{\circ} 26.3'$, was blocked by a dredge during the period of the present survey and no soundings were taken here. The soundings from H-5376 in this canal have, therefore, been carried forward. With this addition, the present survey is adequate to supersede the prior survey within the common area.

6. Comparison with Chart 578 (Latest print date 9/10/51)

A. Hydrography

The charted hydrography originates principally with H-5376 (1933), with chart letters Nos. 390 (1947) and 135 (1950) and with a few critical soundings from the present survey prior to verification and review.

1. The wreck charted in lat. $40^{\circ} 37.33'$, long. $73^{\circ} 24.80'$ from chart letter 135 (1950), was not located during the present survey. Although the wreck is not shown on contemporary air-photo survey T-5612 (1947-50), a re-examination of the air-photos of the area used to compile T-5612 indicates the probable existence of the wreck. The wreck should be retained on the chart.
2. The 11-ft. sounding charted in State Channel in lat. $40^{\circ} 37.83'$, long. $73^{\circ} 22.39'$ from chart letter 135 (1950), falls in depths of 26-28 ft. on the present survey. The charted sounding is considered disproved by the close development on the present survey and should be deleted from the chart.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Dredged Channels

Present survey depths in the dredged channels lying between Amityville Creek and the State Channel at West Gilgo are in harmony with the charted controlling depth of 4 ft. (Chart Letter 135, 1950).

C. Aids to Navigation

All beacons on the present survey are either privately or state maintained. The locations of the lighted beacons, which alone are charted are in substantial agreement with the charted beacons and adequately mark the features intended. No floating aids to navigation fall within the limits of the present survey.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. The existence of the charted wreck referred to in paragraph 6A-1 above, was not investigated.

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions except as noted in paragraph 7c above.

9. Additional Field Work Recommended

This is a very good basic survey and no additional field work is recommended. As a matter of record, attention is directed to the charted wreck referred to in paragraph 6A-1, 7c and 8 above, which was not investigated on the present survey.

Examined and approved:



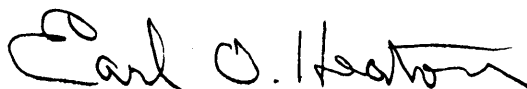
H. R. Edmonston
Chief, Nautical Chart Branch



H. Arnold Karo
Chief, Division of Charts



L. S. Hubbard
Chief, Section of Hydrography



Earl O. Heaton
Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7799

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7-12-51	578	J. E. Ham	Before After Verification and Review <i>partly applied - critical s/ds only</i>
3-9-53	579	J. H. Eaton	<i>Comp. applied</i> Before After Verification and Review
			Before After Verification and Review
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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.