# 7865

Diag. Cht. Nos. 1215-3 & 369-5 Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HI-1250 Office No. H-7865

**LOCALITY** 

State NEW YORK

General locality JAMAICA BAY

Locality ROCKAVAY INLET AND ISLAND CHANNEL

19/4/ ..50

CHIEF OF PARTY

W. J. Chovan

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DATE AUGUST 31, 1951

B-1870-1 /



### 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-7865

Field No. **Hi-1250** 

State		New York	
General l	ocality	Jamaica Bay, N.Y.	
Locality .	Rookawa	and Island Channel y Inlet, <del>Plumb Beach Channel, Mill Greek &amp; Gerritson Gr</del>	<del>ook</del>
Scale	1:10,000	Date of survey 10 May to 11 Oct. 1950	
Instructi	ons dated	11 Apr. 1950	
Vessel	·	Ship Hilgard & Skiff	
Chief of	party	Walter J Chovan	
Surveyed	l by	Walter J. Choven & Edward C. Maran	
Sounding	gs taken by <b>fa</b> t	hometer, graphic recorder, hand lead, wire Pole	
Fathogra	ms scaled by	Ships Personnel	
Fathogra	ıms checked b	y	
Protract	ed by	W.W. Feazel	
Sounding	gs penciled by	W.W. Feazel & S.M. Tarkenton	
Sounding	gs in <b>fector</b>	feet at MLW mand are true depths	
Remark	s: This su	rvey was smooth plotted in the Hydrographic Section of	the
Norfol	k Processin	g Office.	
		·	

### DESCRIPTIVE REPORT

### TO ACCOMPANY

HYDROGRAPHIC SURVEY (FIELD NO.H.1250) REGISTRY NO.H.7865 (1950) ROCKAWAY INLET, GERRITSEN BAY, MILL CREEK, & PLUM BEACH CHANNEL JAMAICA BAY, NEW YORK

Scale 1:10,000 May - October 1950 Ship HILGARD & Skiff, Walter J. Chovan, Chief of Party Surveyed by Walter J. Chovan, CDR., Edward C. Maran, Ensign

- A. PROJECT. Project CS-337 Director's supplemental instructions 22rrc, FP. Long Island, ll April 1950.
- B. SURVEY LIMITS AND DATES. This survey joins with H-7863(1950), and H-7864(1950) on the west, extending from Rockaway Inlet and Sheepshead Bay, to the Marine Parkway Bridge on the east, joining with Hydrographic Survey H-5734(1934). This survey of Jamaica Bay includes all creeks, channels, and bays, except Sheepshead Bay. The south limit was the north shore of Rockaway, New York. Some development work was done east of the Marine Parkway Bridge to longitude 73°51'30"W and north to include Paerdegat Basin.

Field work on this sheet began 10 May 1950 and ended 11 October 1950.

When weather prevented work on other sheets with the Ship HILGARD, work was done on this survey.

C. VESSELS AND EQUIPMENT.— The Ship HILGARD and Skiff 736 were used. The Ship HILGARD was used for two days while locating signals and sounding Rockaway Inlet Channel to the Marine Parkway Bridge. The remainder of the sheet was done by the Skiff. The Skiff operated from the Ship HILGARD which was tied up at Pier 2. U.S.M.S.T.S., Brooklyn 35, New York.

Two portable fathometers, Model 808a, numbers 58s and 67 were used in taking soundings. Depths varied from 0 to 55 feet, reduced to mean low water. Pole soundings were taken when fathometer initial obscured the echo soundings.

D. TIDES AND CURRENT STATIONS. - A portable automatic tide gage was installed and maintained at the west side of Marine Parkway bridge on the first pier off the north shore of the bridge, latitude 40°34.63 N, longitude 73°53.26 N. Except for clock repairs, this gage was in continuous operation throughout the field season, and was used for the reduction of soundings throughout this sheet with two exceptions.

- 1. For Plumb Beach Channel, Gerritsen Creek, Mill Creek an automatic portable tide gage was installed on a dock in Plumb Beach Channel at latitude 40°35'12'N, longitude 73°55'61"W. These records were used in reducing soundings in the Plumb Beach Channel, Gerritsen Creek, and Mill Creek and the locality north of the brigde joining Plumb Beach and Barren Island. This was maintained until the work in the above mentioned areas was completed.
- 2. Tide Staff, located at Carnarsie, latitude 40°37.66°N, Longitude 73°53:10°W was read every fifteen minutes while Hydrography was in progress. The results were used in the reduction of soundings of the development work in that area.

MLW at Marine Parkway Bridge installation was 2 feet on the tide staff.

MLW at Plumb Beach Channel installation was 1.4 feet on the tide staff.

MLW at the Carnarsie Tide Staff is 1.0 feet on the tide staff.

No current observations were made.

- E. SMOOTH SHEET .- To be processed in the Norfolk Processing Office.
- F. CONTROL STATIONS. Objects previously located by triangulation, objects, identified on published topographic sheets or previously used hydrographic signals, and objects located by sextant angles were used for control.

For source of control stations see list of signals attached to this report.

G. SHORELINE AND TOPOGRAPHY.— The boat sheet H7865; the projection was prepared in Washington, D. C. Office and the shoreline was transfered by the Ship HIIGARD from air photo compilations T-5093, T-5094, T-5334, T-5335, and T-5615. correction sheets.

1933-34

See Review for source of smooth sheet shoreline.

Considerable changes in topography has been made, by the New York Park Commission, in the area just West of Flatbush Avenue (Marine Parkway) from Avenue U to the Marine Parkway Bridge. After all improvements are made this area will be a public park.

Dead Horse Bay has been deepened and enlarged by dredging for the purpose of making an anchorage for small craft.

The area West of Flatbush Avenue and north of Shore Parkway to Avenue U is now being filled with trash and debris and covered with sand taken from the stock pile. The stock pile was provided by dredging a channel in latitude 40°35: 95'N between Mill Creek and Gerritsen Creek.

All shoreline changes in this area were determined by sextant fixes and are shown on the boat sheet.

Along the shore at approximately latitude 40°35.35'N and longitude 73°54.74'W there are beached barges.

Ruins of a dock are located at latitude 40°35:30°N and longitude 73°54:90°W. See p, q, and r days.

H. SOUNDINGS.— The portable fathometers, type 808a, numbers 58s and 67, were used in obtaining soundings for this survey. Transceiver units were mounted inboard against the hull of the vessels used.

Corrections to soundings were obtained from bar checks.

- I. CONTROL OF HYDROGRAPHY.— The sounding lines were controlled by three point fixes to shore objects for the most part. When running between docks, where sextant fixes were unobtainable, landmarks were used for control.
- J. ADEQUACY OF SURVEY. The hydrography as shown on boat-sheet#7865 is completed withing the area covered by this survey. It is adequate to supersede previous surveys of this area for the purposes of charting.

Around the locality of latitude 40°34.60'N and longitude 73°54:10"W an independent company has been dredging sand and has been moving around throughout the period that hydrography was performed.

The junctions with the adjoining surveys appear to be satisfactory on the boat-sheet. More definate comparison can be made after the smooth sheet is processed. No "Holidays" exist within the area surveyed. Depth curves can be adequately drawn at the junctions.

- K. CROSSLINES. The area surveyed is crossed with several channels.

  The lines were run with the axis of the channel and serve as cross lines. The cross lines agreed with the regular system of lines. The slight discrepancies that exist on the boat-sheet will probably be in agreement after the smooth sheet is processed.
- L. COMPARISON WITH PRIOR SURVEYS.— This comparison should be made after the smooth sheet has been processed.

  See review
- M. COMPARISON WITH CHARTS. The comparison should be made with USC&GS Chart 542, after the smooth sheet has been processed.

  See review
- N. DANGERS AND SHOALS. The west side of the Rockaway Breakwater appears to be shoaling.

At latitude 40°35.62 N, longitude 73°54.80 W a sunder barge bares about 4 feet at mean low water.

(N. continued P. 5)

### LIST OF CHARTED DANGERS AND SHOALS

Location Latitude Longitude	Charted Depth feet	Present Survey Least Depth Feet	Position Number	Recommendations	
740°34105° 73 55.98	<b>4</b> Bp 35399 (1941)	<b>★</b> 5½	53 +0 54a <b>184</b>	Delete 4 ft. sounding 2 chart as 5, ft.	: ~
40 34.27 73 55.6 <del>0</del> 2	5 H-6763 (1942)	4 5.6	62 +0 63 b 111x	chart 4 Retain 5 ft. sounding 3 on chart.	
×40 33.9 <del>5</del> 2 73 55.82	5 8P37325	5.2	281	Plot 5 ft. on chart	
40 34.6878 73 55.68	Bares at MLW	_	Vol. I H-7863 Index sig Irk	Chart as wreck  Charted from CL350 (1950)	-
×40 34.47 73 54.95	6 c1773 (1945)	not developed on pre	29c esent survey	Retain 6 ft sounding 6 on Chart	•
√40 34.60 73 54. <del>80</del> 72	<b>5</b> H-6763 (1942)	<b>‡</b> 5	24 to 25 w <b>83</b> ti	When the channel was dredged the shoal was slightly cut and extends SE to the major shoal.	a77
√ 40 34.6 <del>\$</del> \ 73 54.55	Bares at MLW H-8763 (1942)	No log- found at MLW	after 😝	Log to be deleted from Chart . Not presently charted	8 %
40 34.55 T	Wreck bares at MLW Bp 36839 (1942)	Wreck bares at LW	Position of wource of remark?	Retain on Chart  Ireck was not determined on H-1865  See Review	3
40 35.14 \\ 73 54.5525	Wreck bares at MLW- H-6763 (1942)	No wreck found at MLW	ene ene ene ene	Wireck to be deleted from Chart Removed from chart by authority of CL 136 (1950)	المار تا المار تا
40 33.78 73 55.1 <del>5</del> 2	<b>Wreck</b> H-5734 (1934) uncovers 2 ft.	Mo wreck found Proba	vers /2 ff.) project.	Delete from Chart as stranded with cated on 12thogram 52 to 533, s. 2 14 ebove bottom.	₽CK
√40 34.4 <del>0</del> 2 73 53.7 <del>2</del> 0	18 Bp. 37325 (1943)	<del>15</del> 14	46+047 <i>y</i> <b>453</b>	Change to 15 ft. MLW CH. 542 revised 9-13-51	·R-
73 53.70	Wreck H-5734 (1934)	No wreck	38 <b>y</b>	Delete wreck from chart / n	3~
/40 33.98 - 75 54.50 -	18 Bp 4120H (1946)	17 ~	122y	Plot on chart as 17 feet. 14  A 12 ft. sdg. 13 shown on the smooth sheat 50 m. northeast, See Review -	•
√40 34.48 - 73 <del>53.43</del> 52.43	18	21	56 <b>aa</b>	Plot on chart as 21 feet. 15	5

- 6 -

### (N. DANGERS AND SHOALS.- Cont.)

, .		Location Latitude Longitude	Charted Depth Feet	Present Survey Least Depth Feet	Position Number	Recommendations
	× .	40°3 <b>4.93</b> 1 73 52.41	17	17	27ea	Retain on chart as 17 feet
	V	40 34. <del>92</del> 95 73 52. <del>45</del> 40	14½	<del>17.2</del> 16	42 ca <del>119aa</del>	Delete 14½ foot sounding Replot as 17,6 feet.
	V	40 34.98 ° 73 52.53 °	18½ 8p37325 (1943)	48.8	64 <b>ca</b>	Delete 18½ feet sounding from chart.
	V.	/40 35.21 / 73 52.49 /	<del>30</del> 31 8p39186 (1944)	<b>30</b> ×	125-126 22 <b>2803</b>	Retain on Chart 30 feet 19
	ř	40 35. <del>27</del> 30 73 52.60	<del>31</del> .0	<del>33</del> 29 <sup>2</sup>	15 to 16 ca	Retain on Chart 29 feet 20 -
	V	73 52.73	22 rep. Shoaling CL 128 (1947)	32 /		note of 21 ft. Sdq.  No signs of shoaling  Delete from Chart.  "Note" removed from e.ht. 542 9-13-51
	V	/40 36.39 <sup>-</sup> 73 53.40 <sup>-</sup>	15½ Bp37610(1942)	15.6 17	122-123 ba 130ba	Retain as plotted on Chart Zz- Chart 16 ft depths 100 meters NE.
	V.	/40 36.63 73 53.00	18 Bp 41205 (1946)	16~	92ba <sup>-93</sup> ba 98-99 ba	Replot with shoaler sounding of 16 feet.
	V	/40 36.49 - 73 53.18 -	23 Bp 41205 (1946)	<del>25</del> 38	119ba-120ba	Retain as plotted  Chart 18 ft. sdg 100 meters southwest
	. >	/40 37.14/In 73 53.52/	vestigation Required	31.4~	64ba	Plot as 31 feet on Chart. s
		Paerdegat 1 Basin	.6 Oct. 1934	10~	8ba	Replot with 10 feet as controlling depth.
						· · · · · · · · · · · · · · · · · · ·

- O. COAST PILOT INFORMATION. All Coast Pilot changes in this area were taken care of in Coast Pilot Survey of 1949. CL. 136(1950)
- P. AIDS TO NAVIGATION .- No new fixed aids to navigation were found.

The Marine Parkway Bridge, Jamaica Bay, as obtained from the Bridge Book, revised to 1 July 1941 - has a vertical leftespan near the center. This span has a vertical clearance of 55 feet at HW, when in a lowered position, and 152 feet when in a raised position. The horizontal clearance is 503 feet.

Plumb Beach Channel Bridge as obtained from the Bridge Book, revised to 1 July 1941, is a fixed bridge with 3 spans. The center span has a horizontal clearance of 113.6 feet and a vertical clearance of 35.4 feet at HW.

see review

- Q. LANDMARKS FOR CHARTS.- Landmarks for charts will be submitted in accordance with 8534 in the Hydrographic Manual.

  CL. 107 (1951)
- R. GEOGRAPHIC NAMES. The area Surveyed has been covered by aerial photographs. No special effort was made to check Geographic names.

Y. MISCELLANEOUS. - Rockaway Point Breakwater bell buoy 6 is off the end of breakwater (40°32.35'N - 73°56.47'W) is in the 1950 light-list of Atlantic and Gulf Coasts. Buoy 6 (40°33.23'N - 73°56.60'W has the same markings on the USC&GS Chart 542 which was corrected up to 1 April 1950.

Z. TABULATION OF APPLICABLE DATA.—

Tide Staff record for Canarsie To be submitted with records.

Plan of docks in Plumb Beach Channel " " " " (40°35.25'N - 73°55.80'W) (filed in this Descriptive Report)

### SENT TO WASHINGTON

15 May 1950 Form 258 (1) Establishment of tide station at Marine Pkwy.

Bridge, Jamaica Bay, New York (Barren Island)

Establishment of Tide Station at Plumb Beach
Channel, Jamaica Bay, New York.

" 681 (1)
" 638 (3)
" 685 (2)

Tide Marigrams - Barren Island, Jamaica Bay, N:Y.

24 May 1950 - Numbers 1 - 4 inclusive
25 May 1950 - " 5
26 Aug. 1950 - " 6 - 19 inclusive
12 Oct. 1950 - " 20 - 27 "

(#27 is last of series)

Tide Marigrams - Plumb Beach Channel, Jamaica Bay, N.Y. 26 Aug.1950 - Numbers 1 - 3 inclusive 12 Sept.1950 - " 4 - 5

3 Oct. 1950 - " 6.-8 inclusive (#8 is last of series)

- 3 Oct. 1950 Form 258 (1) Leveling record for Tide Station at Plumb Beach Channel, Jamaica Bay, New York.
- 12 Oct. 1950 Form 258 (1) Leveling record for Tide Station at Barren Island, Jamaica Bay, New York.

### SENT TO NORFOLK FIELD OFFICE

2 Nov.	1950	T-5093	Film	Positives
		T-5094	11	11
		T-5334	11	11
		T-5335	Ħ	11
	;	T-5615	11	11

Report on Fathometer Corrections to be submitted. (fi/ed with H-786H)

# STATISTICS FOR HYDROGRAPHIC FIELD SURVEY H-1250; REGISTRY NO. H-7865

SHIP HILGARD: PROJECT CS-337

		D AY		NO. OF	ECHO, POLE	ST. MI
	DATE	LETTER	VOLUME	POSITIONS	HAND LEAD-	SDG. LINE
			CII.	IP HILGARD		
-¥-	10 May	٨		12 V		
^	10 May	A B	I I	121	CP	10 0
	TO May	ь		TAL 133	CP CP	18.0 18.0
			10	135	CP	10.0
			SKIFF	C&GS No. 736		
	20 June	a	II	79/	CP	12.6
	25 June	b	II	132	CP	14.2
	28 June	c	II & III	127	CP	17.0
	29 June	d	III	Ø94	CP	19.0
	30 June	e	III & IV	104	CP	13.0
	6 July	f	IV IV	1031	CP	15.1
	13 July	g	IV & V	152	CP	20.5
	14 July	h h	V	81	CP	13.5
*	17 July	j	Ÿ	2	01	±J•J
	28 July	k	V & VI	125 119	CP & 16	17.6
	31 July	1	VI	118~	CP CP	21.2
	18 Aug.	m	VI & VIIX	61 ·	CP & 48	7.3
	23 Aug.	n	VIII	<del>70</del> 76	CP CP	8.4
	26 Aug.	p	VIII	50 v	CP	4.6
	29 Aug.	q	VIII	34~	CP	6.7
	30 Aug.	r	IX	81	CP	9.7
	31 Aug.	s	IX	45	CP	4.8
	8 Sept.	t	IX	39~	CP	2.7
	14 Sept.		IX	161	CP	19.4
	15 Sept.	v	X	75	CP & 59	0.8
	21 Sept.	w	Х	109	CP	15.6
	29 Sept.		Х	164 162	CP	26.3
	2 Oct.	У	XI	126	CP	19.9
	3 Oct.	${f z}$	IX	93 ×	CP	13.4
	5 Oct.	aa	XI	132 -	CP	20.5
	6 Oct.	b <b>a</b>	XII	194	CP & 26	22.5
	9 Oct.	ca	XII	66 ~	CP :	11.2
	10 Oct.	da	XII	3/2	<b></b> & 3	000 Feb 100
	11 Oct.	ea	XIII.	34 35	CP	2.3
			- T	OTAL <del>2654</del> 2653	CP & 152	359.8
			:			
			GRAND TO	TAL 2787 2786	CP & 152	377.8

Square Statute Miles: 5.67

<sup>\*</sup> Asterisk indicates signal locations only.

### LIST OF SIGNALS

### Hi-1250 H-7865

### Triangulation Stations

NOR	BRIDGE NORTH, 1940
SOW	BRIDGE SOUTH, 1940
BUS√	BROOKLYN, FLOYD BENNET AIRPORT AERO BEACON, 1931.
$\mathtt{CAT}$	BROOKLYN, SHEEPSHEAD BAY, ST. MARKS CATHOLIC CH., SQUARE TR.,
	CROSS, SP., 1930-32
ION	CARNARSIE, BROOKLYN UNION GAS CO., CHIMNEY, 1931
CIN	EAST FLATBUSH, FLATLANDS INCLNERATOR, NORTH CHY., 1931
BUN	JAMAICA BAY, BURNS BROTHERS COAL CO., ELEVATOR, 1931-48
CHY	MILL BASIN, BRISLIN LUMBER CO., CHY., 1920-30
	PUBLIC SCHOOL NO. 115, 1931-32
JUTY	ROCKAWAY JETTY, BEACON, 1934-40
MOT	ROCKAWAY POINT, CATHOLIC CHURCH, CROSS, 1919-31
OBT	ROCKAWAY POINT. TALL TOWER: 1930-31

### Topographic Stations

Quo Source T-5093

Dek Source T-5094

Jap - Out/- REED Source T-5334

HEAD - Owl/- Pea - Spy/ Source T-5335

Dio (See letter 15 May 1951)

### Hydrographic Stations

Bed Ben	Val 1 pg. 7,9 from Survey H-7864 Vol 9 pg. 27	Gus Hod	Vol 1 pg. 4,6,7 from Survey H-7863 Vol 1 pg. 8 from Survey H-7864
Cop	Vol 1 pg. 6,7	Irk	Vol 1 pg. 7,8 from Survey H-7863
Cra	Vol 9 pg. 27	Jer	Vol 8 pg. 3,4,5
Cry	Vol 1 pg. 4,5,6 from Survey H-7863	Kam	Vol 8 pg. 5
Cur	Vol 1 pg. 4 from Survey H-7863	Lee	Vol 11 pg. 56, 63, 64
Dag	Vol 8 pg. 4	Lig	Vol 8 pg. 39
Dol	Vol 8 pg. 3,4,6	Loc	Vol 9 pg. 28
Elf	Vol 1 pg. 7, 8, 9 from Survey H-786	4 Log	Vol 1 pg. 5,7 from Survey 7864
Gul	Vol 8 pg. 39	Mar	Vol 8 pg. 3,4,5

### Hydrographic Stations Contid

Min √ Mop Peg Pin Pole Pom	Vol 8 pg. 5, 19, 20, 22 Vol 2 pg. 70 Vol 8 pg. 38 Vol 1 pg. 7, 6 Vol 12 pg. 6 Vol 8 pg. 3	Rat / Vol 1 - pg. 5, 6 & 11  Roy Vol 1 pg. 7  Tes Vol 8 pg. 38  Use Vol 8 pg. 3,5 (H-7864 Vol 1 pg. 5, 6,7) (H-7863)  WAR Vol 1 pg. 3,4,5 (also Survey
FOIII	101 9 bg. 7	H-7863)

### Photogrametric Stations (Green) Source T-5335

Doc Fall In Sew

### LIST OF FLOATING AIDS

Hi-1250 H-7865

Sheepshead Bay Approach Channel,	From Light List	Lat.	m	Long.	m	Depth Water		Date of Location
Lighted Bell Bouy "2A"	Sheenshead Bay Approach Channel							
Sheepsheed Bay Approach Bouy "]"   " " " " " " " " " " " " " " " " "		400341	580	739551	1061	20½	٦v	9-15-50
" " " " " " " " " " " " " " " " " " "				-				
								tf .
Rocksway Inlet,   Main Chan.   Bell							· .	tt
Bouy   15	Rockaway Inlet, Main Chan. Bell			,	<b>7-2</b>	-2	•••	
Rockaway Inlet, Main Chan, Bouy"6" 40°33! 926 73°56! 434 25 6v #  Bell Bouy "10"		40°331	409	73°561	821	$27\frac{1}{2}$	5 <b>v</b>	11
Rockaway Inlet,   Main Chan,   Lighted		400331	926	73°561			-	Ħ
Rockaway Inlet,   Mean Chan.   Bouy   9   40°33   1521   73°55   1708   35   87						-		
	Bell Bouy "10"		1298	73°551	1178	39	7v	tt .
	Rockaway Inlet, Main Chan. Bouy "9"	40°331		73°551	1308		8v	<b>11</b>
		1 40°331	1441	73°551	<b>7</b> 07	43	9₹	11
			100	73°551	412	30½	10v	n
			1656	73°551	071	44	llv	Ħ
Gerritsen Inlet (Marker) Buoy #2"	n n ii n n 116	40.341	103	73°541	450	23	12v	ff
Gerritsen Inlet (Marker) Buoy #2"			209	73°531	1165		1 <i>3</i> v	11
Gerritsen Inlet Bouy "1"			406		085			tt
Gerritsen Inlet Bouy "1" 40°34' 345 73°55' 231 19½ 16v " Gerritsen Inlet Lighted Bouy "4" 40°34' 918 73°55' 081 18 17v " " " " " " " " " " " " " " " 10" 40°34' 1183 73°55' 112 10 19v " " " " " " " " " " " " " " 10" 40°34' 1483 73°55' 112 10 19v " Gerritsen Inlet Bouy "5" 40°34' 1183 73°54' 70% 10 21v " Gerritsen Inlet Lighted Bouy "9" 40°34' 1460 73°54' 70% 10 21v " Island Channel Lighted Bouy "16" 40°37' 150 73°53' 461 30½ 39ba 10-6-50 Island Channel Bouy "21" 40°37' 1151 73°53' 272 26 68ba "  do "20" 40°37' 1151 73°53' 272 26 68ba " do "19" 40°37' 904 73°53' 437 26 76ba " do "19" 40°37' 904 73°53' 437 26 76ba " do "19" 40°37' 519 73°53' 364 24 71ba " do "15" 40°37' 581 73°53' 989 21 72ba " do "15" 40°37' 065 73°53' 806 34 73ba " do "11" 40°36' 1502 73°53' 806 34 73ba " do "11" 40°36' 1502 73°53' 273 28 1 77ba " Mill Basin Junction Bouy "4" 40°36' 1338 73°53' 451 15 78ba " Mill Basin Channel Bouy "4" 40°36' 1338 73°53' 451 15 78ba " Mill Basin Channel Bouy "4" 40°36' 73°53' 152 29½ 81ba " Island Channel Geny "4" 40°36' 73°53' 152 29½ 81ba " Island Channel Bouy "4" 40°36' 73°53' 152 29½ 81ba " Island Channel Bouy "9" 40°36' 73°52' 1267 36½ 186ba " Island Channel Bouy "9" 40°36' 73°52' 1267 36½ 186ba " Island Channel Bouy "9" 40°36' 73°52' 1267 36½ 186ba " Island Channel Bouy "9" 40°36' 756 73°52' 1267 36½ 186ba " Island Channel Bouy "9" 40°36' 756 73°52' 1267 36½ 186ba " Runway Lighted Bouy "9" 40°36' 1589 73°52' 1267 36½ 187ba " Island Channel Lighted Bouy "9" 40°36' 1589 73°52' 1267 36½ 187ba " Island Channel Lighted Bouy "9" 40°36' 1589 73°52' 1267 36½ 187ba " Island Channel Lighted Bouy "6" 40°35' 1380 73°52' 278 12 191ba " Island Channel Fighted Bouy "6" 40°35' 1360 73°52' 278 12 191ba " Island Channel Bouy "14" 40°35' 1699 73°52' 167 34½ 194ba 10-6-50 Runway Lighted Bouy "14" 40°35' 1766 73°51' 252 9½ 2da "	Gerritsen Inlet Lighted Bouy "2"	40°34°	<i>3</i> 77	73°551	089	23 <sup>1</sup> / <sub>2</sub>	15v	
Gerritsen Inlet Lighted Bouy "4"			345		231	19½		A Ž
Gerritsen Inlet Bouy "5"	Gerritsen Inlet Lighted Bouy "4"		918	73°551	081		17v	
" " " " " " " " " " " " " " " " " " "	Gerritsen Inlet Bouy "5"	40°341	1024	739551	112	10		u
	и и и и/и	40°341	1183			-	-	û
Gerritsen Inlet Lighted Bouy "9"	n n n nJOn	40°341						tf .
Island Channel Lighted Bouy "16"	Gerritsen Inlet Lighted Bouy "9"	40°341	1493	-			•	ii .
Island Channel Bouy "21"		400371				_		10-6-50
do			-					
do "18"								tt
do "17"								11
do "15"							• .•	11
do "13"			_		_			11
do "14"								
do "11"								щ
Mill Basin Junction Bouy   40°36'   1338   73°53'   452   31½   76ba								и
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Form 567 April 1945

# DEPARTME'T OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

# EKENNIKALINIKALINIKA OR LANDMARKS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

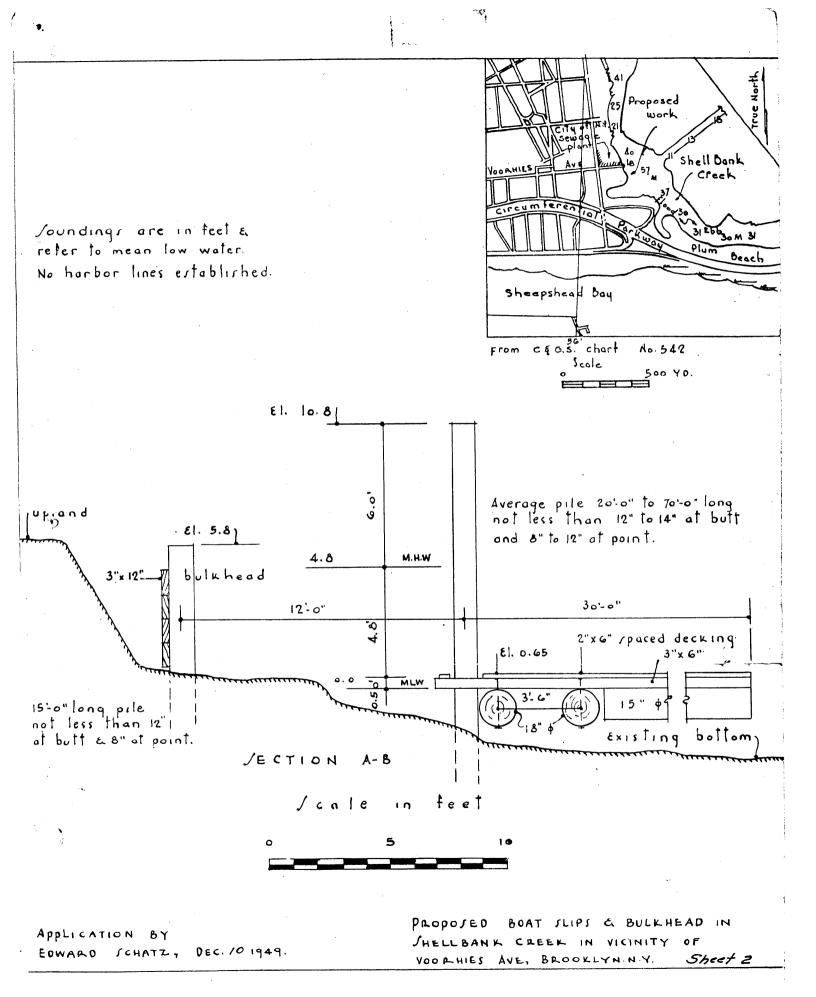
Morfolk, Virginia

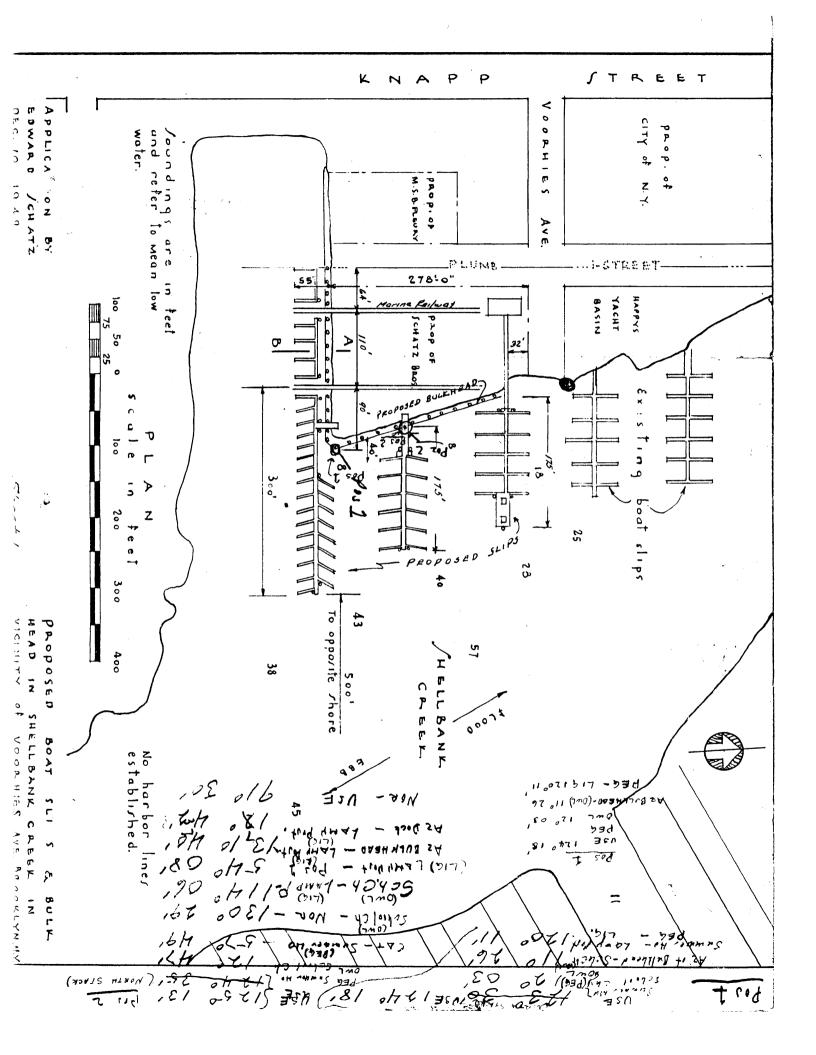
8 February, 1951

The positions given have been checked after listing by Walter J. Chovan

			- DAI 1 L 2						24
					M.	Walter J.	Chovan	Chi	Chief of Party
STATE			POSITION					15	
		7	LATITUDE	LONGITUDE		METHOD OF	DATE	CHVE	·
NAME		SIGNAL O I	D. M. METERS 0	o C	Σ	SURVEY	LOCATION	квов Внове Внове	AFFECTED
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	Cable housing structure ion	2	330 (3.56	304	#	*	5/50 x	X X	542, 369
	Kockaway Beach	нор 40 33	12% 73 55	857	*		5/50 ×		872
Tall stack	Tall Stack	MIN 40 35	1432 73 56	8	#				
Cupola	Coast Guard Curals	•					× ×		7
Weather		15 OF 150	87 73 53	78	**************************************	=	5/50 ×		542
mast	Storm Warning flagpole	WAR 160 34	1010 72 55	Ç		1			
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Coast Guard	Coast Guard Lookont Towar Ast	TAN 40 34	703 74 00	382	#	**	5/50 ×	M	540. 369
Lookout tower		TOW 40 28	512 74 00	000	=	· · ·			1215
lower	Lookout Tower	DIX 40 27		1000		:   =		х 	12
Ventilatér	South ventilator of twin vents.	648 LO 27					× 06/0	×	543, 369
	Tall square tower on piling 4	-	630 (3.5%	08/	*	#	× 05/9	×	43, 369
Sandy Hook	about 30 feet high	HOP 40 25	1720 73 58	1200	<b>E</b>	=	6/50 x	×	543, 369
Point (Light)	Red Skeleton tower H-1865	CON 40 28	450.9 7401	208.2	\$ d =	Sextout Computed	× 05/9	:	<b>3</b>
		, da							

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





### DEPARTMENT OF COMMERCE

### U. S. COAST AND GEODETIC SURVEY

### WASHINGTON 25

Refer to No. 222/MEK D-1-SE

15 May 1951

To:

Supervisor, Southeastern District U. S. Coast and Geodetic Survey 418 U. S. Post Office Building Norfolk 10, Virginia

Subject:

Positions of Radio Towers

With reference to your request of 4 May 1951 for geographic positions of the three radio towers shown on the north end of Barren Island on chart 542, the only information available are the following scaled positions:

Latitude	40° 36° 244 Meters
Longitude	73 53 877 "
Latitude	40 36 290 "
Longitude	73 53 990 "
Latitude	40 36 168 <sup>11</sup>
Longitude	73 53 969 <sup>11</sup>

These positions were scaled by the Nautical Chart Section from a Public Works blueprint and are considered to be of only fourth-order accuracy.

Acting Director

### TIDE NOTE

### TO ACCOMPANY DESCRIPTIVE REPORT, FOR FIELD SURVEY H-7865

JAMAICA BAY, NEW YORK

Barren Island, Flatbush Ave, Jamaica Bay, New York tide station was used for the reduction of soundings on this sheat from Island Channel to Rockaway Inlet.

Latitude 40°34.63'N Longitude 73°53.26'W M.L.W. on staff is 2.0 ft.

Plumb Beach Channel, Jamaica Bay, New York tide station was used to reduce soundings in Plumb Beach Channel, Gerritsen Creek, Mill Creek, and the vicinity immediately north of the Plumb Beach Channel Bridge.

Latitude 40°37.66'N 40°35.12' Longitude 73°53.10'W 73°55.61' M.L.W. on staff is 1.4 ft.

Carnarsie Tide staff was established by the Long Island Shore Party, The record for the tide staff of Carnarsie Beach Park Wharf was used to reduce soundings in Island Channel and Paerdegat Basin. Only one day's observation was necessary.

Latitude 40°37.68'N - Longitude 73°53.10'W - M.L.W. on staff is 1.0 ft.

### APPROVAL SHEET

TO ACCOMPANY

HYDROGRAPHIC SURVEY NO. H-7865 FIELD NO. HI-1250 -

The Boat Sheet and Sounding Records were inspected daily and at the conclusion of the field work, both are approved.

The descriptive report has been examined and is approved.

Walter J/ Chovan Commander, C&GS Cdg. Ship HILGARD HYDROGRAPHIC SURVEY H-7865 (Field No. Hi-1250)

### DISCREPANCIES

Lat. 40-34.28 Long. 73-56.32 Soundings between positions 91 (Skiff) average about one foot deeper than surrounding hydrography. It appears that rejected bar check, taken in the A.M., should be considered in reducing these soundings. Conflict resolved by userny A.M. ber check

Position 29r (Skiff) appears Lat. 40-35.4 Long. 73-54.8 to be displaced. Accompanying overlay # 1 shows position plotted on course and hydrography. Pos 29r plotted on time and course, agrees with adjacent hydrography.

12 foot sounding between Lat. 40-35.52 Long. 73-54.80 positions 10 & 11s (Skiff) appears to be displaced. Poor fixes on a two position line prevented an accurate determination of the position of this sounding. Med III Volume Fatoring dredging in this area. Sounding not inked - edjusted spacing puts sounding at edge of islet.

Respectfully submitted

Cartographer.

Norfolk, Va. 29 Aug. 1951

approved & Forwarded:

Earl O. Heaton

Supervisor, S.E. Dist.

### TIDE NOTE FOR HYDROGRAPHIC SHEET

### 

12 September 1951

Division of Charts: R. H. Carstens

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET

7865

Locality Jamaica Bay, Long Island, New York

Chief of Party: W. J. Chovan in 1950
Plane of reference is mean low water, reading
2.0 ft. on tide staff at Barren Island (Flatbush Ave.)
14.2 ft. below B. M. 2 (1928)

1.4 ft. on tide staff at Plumb I. Marina Boat Basin 11.5 ft. below B. M. 1 (1950)

1.0 ft. on tide staff at Camarsie Beach 11.1 ft. below B. M. 2 (1928)

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

Barren Island (Flatbush Ave.) = 5.0 feet
Plumb I. Marina Boat Basin = 4.9 feet
Carnarsie Beach = 5.2 feet
Condition of records satisfactory except as noted below:

E.C. McKay Section

Chief. Division of Tides and Currents.

	GEOGRAPHIC NAMES Survey No. H-7865	,		Ho. Ou	S. Wod of	o de la constante de la consta	n och mage	Cinto of A	No N	ilos Light Light	
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### Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. #-7865

Records accompanying survey:				
Boat sheets; sounding vols; wire drag vols;				
bomb vols; graphic recorder rolls !!4 Env.				
special reports, etc. / smooth sheet, / l	Pescripti	ve Report		
I Cahier of fathometer corrections filed with	h H-786	54		
The following statistics will be submitted wirepher's report on the sheet:	th the o	cartog-		
Number of positions on sheet		2786		
Number of positions checked		380		
Number of positions revised		.59		
Number of soundings revised (refers to depth only)		332		
Number of soundings erroneously spaced		29		
Number of signals erroneously plotted or transferred		4		
Topographic details	Time	50 hrs		
Junctions	Time	23 hrs		
Verification of soundings from graphic record	Time	28 hrs		
C.R. Helmer 144 hrs. G.J. Thompson 207 hrs. Verification by	351 hr.	//-29-51 3-2-53 5. Date		
Reviewed by	60 hr	Date //-30-53		

### DIVISION OF CHARTS

### REVIEW SECTION - NAUTICAL CHART BRANCH

### REVIEW OF HYDROGRAPHIC SURVEY

### REGISTRY NO. H-7865

FIELD NO. HI-1250

New York, Jamaica Bay, Rockaway Inlet and Island Channel
Project No. CS-337

Surveyed - May and October 1950

Scale 1:10,000

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals

Chief of Party - W. J. Chovan
Surveyed by - W. J. Chovan, E. C. Maran
Protracted by - W. W. Feazel
Soundings plotted by - W. W. Feazel, S. M. Tarkenton
Verified and inked by - C. R. Helmer, G. J. Thompson
Reviewed by - R. E. Elkins
7-4-53
Inspected by - R. H. Carstens

### 1. Shoreline and Signals

The shoreline originates with reviewed planimetric maps and revision sheets as follows:

T-5093 (1934), RS-209 (1940) T-5094 (1933-34), RS-207 (1943) T-5334 (1934), RS-208 (1944) T-5335 (1933-34), RS-206 (1943)

The shoreline shown in red on the smooth sheet originates with the present survey and the contemporary survey H-7863 (1950). Shoreline sections shown in solid red were located by sextant and tape traverse; sections shown by a dashed red line were sketched by the hydrographer from sextant fixes.

### 2. Sounding Line Crossings

Depths at crossings are in good agreement.

### 3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

The bottom is irregular as the result of extensive dredging and current action.

### 4. Adjoining Surveys

Adequate junctions were effected with the contemporary surveys H-7863 (1950) and H-7864 (1950) on the west. On the east, no contemporary surveys by this Bureau adjoin the present survey; however, the charted information, originating principally with Corps of Engineers surveys, adequately joins the present survey. The present survey extends to the shoreline on the north and the south.

### 5. Comparison with Prior Surveys

- a. Early surveys covering the period 1835 to 1928 have been compared with and superseded by surveys of 1934 and 1942 which are discussed in the following paragraph. Further consideration of these early surveys is, therefore, unnecessary in the present review
- b. H-5733 (1934) 1:10,000 H-5734 (1934) 1:10,000 H-6763 (1942) 1:10,000

These prior surveys taken together cover the area of the present survey. A comparison of the prior and present surveys reveals extensive changes in both the bottom and the shoreline in some areas. The more extensive changes are the diversion of Gerritsen Creek, and the dredging of adjoining creeks to the east in the reclamation of marsh areas along the west part of Barren Island. Other important changes include the 400 meter eastward shift of Rockaway Inlet at the south end of the jetty, the seaplane runways dredged across and west of Nova Scotia Bar, improvements in Mill Basin, and construction of new bridges.

Because of the major changes that have taken place in the area as a result of improvement projects, and the fact that the prior surveys have been almost entirely superseded for charting purposes by later surveys made by the Corps of Engineers, the Navy and others, a more detailed comparison of the prior and present surveys would serve no useful cartographic purpose. The present survey supplemented by several charted items discussed in the following comparison, is adequate to supersede the prior surveys for charting purposes within the common area.

### 6. Comparison with Chart 542 (Print date 5-25-53)

### A. Hydrography

The charted hydrography originates principally with the present survey before verification, and a survey by the Corps of Engineers in 1952 (Bps. 49292-93), subsequent to the present survey. Several critical items are charted from miscellaneous sources as follows:

- 1. The wreck charted in lat. 40°34.55', long. 73°54.24' from a wreck investigation survey by the Corps of Engineers in 1942 (Bp. 36839) was not located on the present survey; however the wreck should be retained as charted, in accordance with the Hydrographer's recommendation on page 5 of the Descriptive Report.
- 2. The obstruction reported charted in lat. 40°35.10', long 73°55.55', from H.O. Notice to Mariners 29 (July 1950) is supplemented by the 12-ft. sounding charted in the above position from present survey sounding lines run August 1950, subsequent to the Notice to Mariners report. The exact nature and extent of the obstruction is not known; therefore, the note "obstruction reported" should be retained as charted.
- 3. The <u>submerged sewer line</u> charted at the east side of Sheepshead Bay approach channel originates with information of 1935-36 and is probably in present use although not shown on the present survey.

The soundings charted from the present survey are in general agreement with smooth sheet depths; however, several differences in depths and curves are noted. An uncharted 13-ft. sounding falls in lat. 40°35.22', long. 73°54.90' on the present survey. The 6-ft. sounding charted in lat. 40°35.04', long. 73°53.94' is a stray on the fathograms and has been removed from the smooth sheet.

### B. Aids to Navigation

The charted positions of several floating aids differ as much as 150 meters with the present survey positions; however, both the charted and the present survey positions adequately mark the features intended.

### C. Bridge Clearances

The charted bridge clearance values were not redetermined on the present survey and have been added from the Corps of Engineers "List of Bridges over the Navigable Waters, 1941" and supplement of 1948.

### 7. Condition of Survey

- The sounding records are complete, except that the boat sheet is illegible in many areas because of surface break-down of the paper. The Descriptive Report covers all matters of importance except for the obstruction discussed in paragraph 6A-2 of this review.
- The smooth plotting was well done.
- Verification of the least depth on the 18-ft. shoal in lat. 40°34.01', long. 73°54.45' by handlead would have been desirable inasmuch as traces interpreted as strays occured on a fathogram crossing the shoal.

### 8. Compliance with Project Instructions

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

### 9. Additional Field Work Recommended

This survey is an adequate basic survey, and no additional field work is required. The Corps of Engineers make periodic surveys of the more important channels in this area. As a matter of record it is noted that the least depth on the shoal mentioned in paragraph 7c was determined from a fathogram profile containing strays. The least depth should have been verified with the handlead.

Examined and approved

H. R. Edmonston

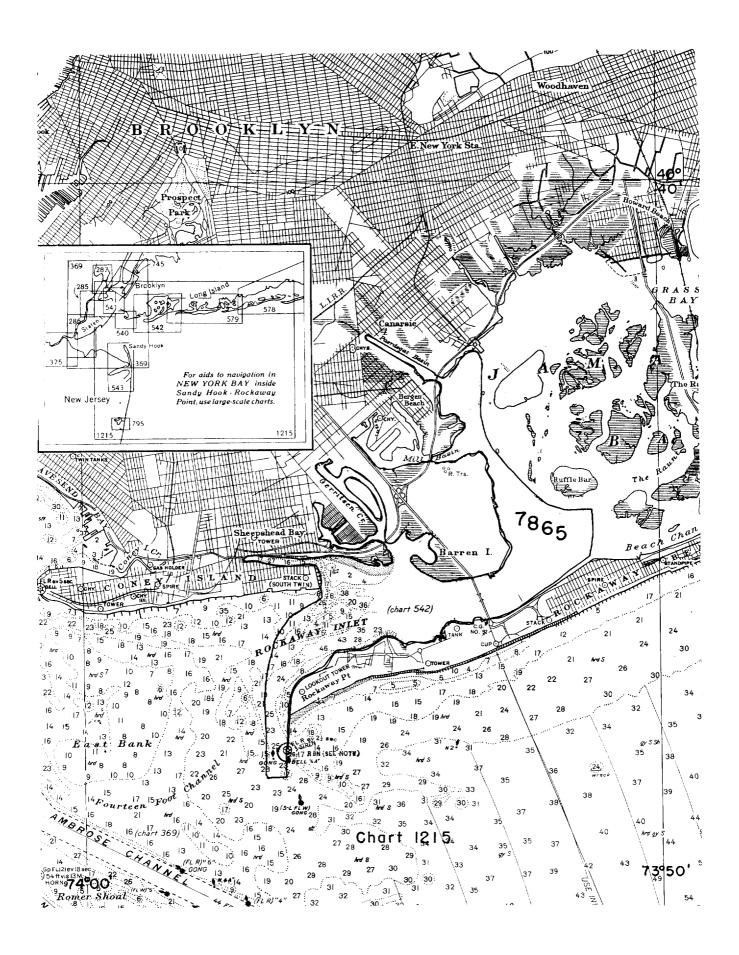
Chief, Nautical Chart Branch

H. Arnold Karo

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys



## NAUTICAL CHARTS BRANCH

SURVEY NO. H-7865

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
14/6/51	12/5	Pisegari	Before After Verification and Review
2/20/52	369	Ja Mc Jann	Before After Verification and Review - Partial  Added (14) \$\phi 40^\cdot 34' 24" \tau 73\cdot 53' 43" And several  partial
8/1/52	542	HEMac Swen	Partial  After Verification and Review
10-23-5	3 542	1.7. Styman	Before After Verification and Review
10-19-5	3 369	N.7. Stegman	Busine After Verification and Review thru cht 542
4-26-55	1215	R. K. Da Lawela	Before After Verification and Review Lluce  But 5-42
			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.