

6225

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Rev. April 1935  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

~~Topographic~~ } Sheet No. 201.  
Hydrographic }

State New Jersey

LOCALITY  
New Jersey Coast  
Barnegat Inlet to

Beachhaven Inlet

1937

CHIEF OF PARTY

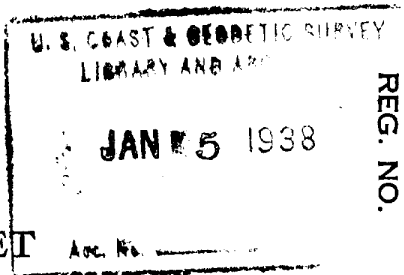
Roland D. Horne

U. S. GOVERNMENT PRINTING OFFICE

6225

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.

Field No. 201

REGISTER NO. H6225

State New Jersey

General locality Outer Coast New Jersey Coast

Locality Barnegat Inlet to Beachhaven Inlet

Scale 1/20,000 Date of survey July 27-30, 1937

Vessel GILBERT

Chief of Party Roland D. Horne

Surveyed by Roland D. Horne

Protracted by Clarence A. George

Soundings penciled by Clarence A. George

Soundings in ~~fathoms~~ feet

Plane of reference Mean low water

Subdivision of wire dragged areas by

Inked by C. F. Mc Kenney

Verified by [Signature]

Instructions dated April 9, 1936; March 19, July 7, 1937

Remarks: \_\_\_\_\_

## DESCRIPTIVE REPORT

to accompany

### HYDROGRAPHIC SHEET NO. 201 (GILBERT 1937)

New Jersey Coast

Barnegat Inlet to  
Beachhaven Inlet.

#### INSTRUCTIONS:

The work on this sheet was done in accordance with the Director's Instructions to the Commanding Officers of the U.S.C. & G.S.S. OCEANOGRAPHER, LYDONIA and GILBERT dated April 9, 1936; Supplemental Instructions to the Commanding Officer of the LYDONIA dated March 19, 1937 and Instructions to the Commanding Officers of the OCEANOGRAPHER, LYDONIA and GILBERT dated July 7, 1937.

#### LIMITS and JUNCTIONS:

The work on this sheet comprises the inshore hydrography along the outer New Jersey Coast, extending from a point 1 mile south of Barnegat Inlet to a point 1.2 miles north of Beachhaven Inlet. It covers the area from about 1/4 mile offshore to about 1 mile offshore.

On the east it joins the 1937 work of the LYDONIA on Field sheet No. 401. It joins sheet H-6141 on the north and the 1936 work of the MIKAWA on the south. (H-6141-1936)

The area inside the inshore limits of this sheet remains to be done.

#### SURVEY METHODS:

##### Soundings:

With the exception of a few shoal soundings on the inshore lines where hand lead was used, the Dorsey Fathometer (No. 1) was used throughout. A special report covering the fathometer corrections will be submitted separately.

Report filed  
as Cahier for  
present survey.

Vertical cast comparisons between the fathometer and hand lead were taken at the beginning and ending of each day's work.

##### Control:

Visual fixes on shore objects were used for control. These objects were either a triangulation or topographic station. The positions of the latter being obtained from prints of topographic sheets and from description of station cards furnished by the Office.

One signal was located by sextant cuts of the field party on the LYDONIA.

#### DISCREPANCIES:

##### Positions:

Wherever errors in recording or questionable fixes occurred, appropriate notes were made in blue pencil in the record books and no additional explanation is considered necessary.

##### Depths:

The crossings were good and with few exceptions agreed

within 1 foot. There is listed below those crossings which disagree by 2 feet or more:-

Positions	89 - 90 a	and	4 - 5 b	- 3 feet	} lat 39°40' long. 74°08' Depth of 40 ft. Slight displacement of lines. See par. 4, review.
Positions	86 - 87 a	and	4 - 5 b	- 3 feet	
Positions	86 - 87 a	and	6 - 7 b	- 2 feet	
Positions	89 - 90 a	and	6 - 7 b	- 2 feet	
Positions	86 - 87 a	and	10 - 11b	- 2 feet	

There are two soundings, one between 133 - 134b of 4 fathoms and one between 16 - 17c of 8 fathoms, which seem to have been incorrectly recorded. It is believed that these soundings were read 4 fathoms, 5 feet and 8 fathoms, 5 feet, respectively, however, in both cases, the shoaler soundings, as recorded were plotted on the smooth sheet.

DANGERS:

No dangers were found. At latitude 39°40.0'; longitude 74°07.9'; a wreck was investigated but no indications of any kind were found. It is believed that this wreck was incorrectly plotted on the boat sheet furnished the GILBERT and is the same one referred to as Wreck No.1 (latitude 39°40.0'; longitude 74°05.9') in page two of the Director's letter of August 7, 1937 to the Commanding Officer of the LYDONIA.

The other wrecks listed in the letter mentioned above fall outside the area covered by this sheet.

This wreck was erroneously transferred to boat sheet. Correct position of wreck falls outside limits of sheet. Information verified by C.O. of Lydonia. A-L.S.

COMPARISONS WITH PREVIOUS SURVEYS:

The work on this sheet agrees with the adjoining previous surveys. see par. 7, review.

The LYDONIA'S work on sheet 401 has not been plotted at this writing, although the boat sheets indicate that the agreement will be satisfactory.

Respectfully submitted,

*Clarence A. George*  
Clarence A. George  
Jr. H. & G. Engineer

Approved and forwarded,

*Roland D. Horne*  
Roland D. Horne  
H. & G. Engineer  
Comd'g Ship GILBERT.

STATISTICS

HYDROGRAPHIC SHEET NO. 201

DATE	DAY	POSITIONS	SOUNDINGS			ST.MILES.
			fmr.	H.L.	Total	
July 27	a	99	639	19	658	31.3
July 28	b	181	1113	284	1397	61.6
July 29	c	166	966		966	44.6
July 30	d	55	226	178	404	15.3
Total		501	2944	481	3425	152.8

Square statute miles for sheet 201 - - 9.0

TIDAL NOTE

All soundings on this sheet are referred to the standard tide gage at Atlantic City, New Jersey.

The hourly heights were furnished by the Office and referred to a datum 4.1 feet below mean low water.

LIST OF SIGNALS - SHEET NO. 201 - 1937

Hydro. Name	Station Name	Location Used	D.M.s & D.F.s		
			Latitude Degrees	Longitude Minutes	Meters
LET	Inlet, 1932	N.J.tri.Pg.17	39 46	1144.1	
			74 05	1106.4	
POLE	Flagpole (U.S.E.D.)	Scaled from T-5097	39 46	283	
			74 06	114	
BAEN	Barnegat Light (lighthouse)1872-1932.	N.J.tri.Pg.22	39 45	1578.4	
			74 06	568.7	
WEST	Barnegat W.Gable C.G. 1935	" " " 340	39 45	923.6	
			74 06	462.3	
GAT	Barnegat C.G.Flag- tower 1935	" " " 340	39 45	901.4	
			74 06	448.1	
TAR	Ta r (red tower)	Sammons-1935 T-6499 H.& T. des.	39 45	842.4	
			74 06	324.6	
LOVE	Love Ladies C.G. Cupola 1935	N.J.tri.Pg.340	39 43	1510.0	
			74 07	523.7	
NEW	New Standpipe	Sheet 401, cuts Vol.8, pages 42-43	39 42	847	
			74 08	142	
HIGH	Highpoint W.T. 1932	N.J.tri.Pg.29	39 42	850.8	
			74 08	160.3	
CAM	Camp Whalen Cupola, 1935	" " " 340	39 41	1505.7	
			74 08	960.4	
HARV	Harvey Cedars C.G. Cupola, 1935	" " " 341	39 41	786.4	
			74 08	883.8	
PEAK	Peak of Pav. roof	Scaled from T-5099	39 39	(672)	
			74 09	(196)	
ARL	Beach Arlington Standpipe, 1932	N.J.tri.Pg.29	39 38	1220.5	
			74 10	1285.6	
SHIP	Shipbottom C.G. Cupola	Bolstad 1935 H.T.des.T-6399a ✓	39 38	521.9	
			74 11	42.2	
CHIM	Chimney yel.frame house	Office Letter 11/30/37 T-6399a(1935)	39 37	1474	
			74 11	486	

## LIST OF SIGNALS CONTINUED, SHEET NO.201.

Hydro. Name	Station Name	Location Used	D.M.s & D.P.s		
			Latitude & Longitude		
			Degrees	Minutes	Meters
GREY	Grey Tank (On Ice Plant)	Bolstad 1936	39	36	1491.6
		H.T. des. T-6399a (1935)	74	12	221.8
WOOD	Wood Tank	Rigg 1935	39	36	1373.9
		H.T. des. T-6399a ✓	74	12	494.5
DOG	Dog -(Highest chimney on 2½ story house)	Bond 1936	39	36	638
		H.T., T-6399b ✓	74	12	687
BOC	Cob -(Chimney on 2½ story house.	Bond 1936	39	35	1409
		H.T., T-6399b ✓	74	12	1271
PIPE	Standpipe, 1932	N.J. tri. Pg. 30	39	35	314.5
			74	13	695.3
LON	Cupola Long Beach C.G. Station	Riggs 1935	39	35	131.3
		H.T., T-6399b ✓	74	13	512.7
OF	Of (Belfry)	Bond 1936	39	34	1194
		H.T., T-6399b ✓	74	13	1019
REE	E. Gable 3 story building	Rigg 1935	39	34	1097.4
		H.T., T-6399b ✓	74	13	861.2
STACK	Incinerator Stack (Beachhaven) 7	Bolstad 1936	39	34	586.8
		H.T., T-6399b ✓	74	14	230.7
WAT	Beach Haven W.T. 1932	N.J. tri. Pg. 30	39	33	1422.3
			74	14	710.9
COB	Cob (W. Gable White House)	Bond 1936	39	32	1812
		H.T., T-6400b	74	15	186
HOP	Hop (Bond's C.G. Flagtower)	Bond 1936	39	32	308
		H.T., T-6400b	74	15	1108

Verification of Hydrographic Survey H-6225(1937) Field No.201.  
Barnegat Inlet to Beachhaven Inlet  
New Jersey Coast

Chief of party R. D. Horne

1. Condition of Records.

The records conform to the requirements of the Hydrographic Manual. ✓

2. Shoreline and Control.

The shoreline and control are from the following surveys:

Air Photographic Surveys: ✓ T-5097 (1932)  
✓ T-5099 (1932)  
✓ T-5044 (1932)  
✓ T-5445 (1932)

Graphic Control Surveys: ✓ T-6499 (1935-36)  
~~T-6500~~  
✓ T-6399 a+b (1935)  
✓ T-6400 b (1935)

3. Sounding line crossings.

See paragraph on "Depths" bottom of page one of the Descriptive Report. ✓

4. Aids to Navigation.

There are no aids to navigation shown on this survey. ✓  
Barnegat Light.  
See par. 86, review.

5. Depth Curves.

The depth curves are satisfactory. ✓

6. Junctions with contemporary surveys.

The junctions on the north with H-6141(1936) and on the south with H-6195(1936) are satisfactory. ✓

The junctions with work on the east and inshore will be made when those sheets are verified. These sheets have not been received from the field. ✓

7. Field Plotting.

The field plotting was satisfactory. ✓

8. Remarks.

The highwater line from the above listed Air Photographic Surveys has been left in pencil, and since there will be inshore surveys within the limits of this sheet, the highwater line has not been inked.

Verified by



Leo S. Straw

Jan. 31, 1938.

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6225** .....

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

Number of positions on sheet	<b>501</b> .....
Number of positions checked	<b>0</b> .....
Number of positions revised	<b>0</b> .....
Number of soundings recorded	<b>342.5</b> .....
Number of soundings revised	<b>3</b> .....
Number of signals erroneously plotted or transferred	<b>0</b> .....

Date: **Jan 31, 1938**  
INKED BY **C.F. McKenny**  
Verification by **W. Straw**

Review by **J. A. Mc Cormick, Feb. 7, 1938** Time: 12 hrs.

Time: 19 hours  
Time: 8 1/2 hours.  
Total 27 1/2 "

Smooth Sheet Yes

Boat Sheet Yes

Sounding Records 2 Vols. \_\_\_\_\_

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol.#1

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party No

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service Yes  
(Circular Nov. 30, 1933)

Remarks \_\_\_\_\_  
HYDROGRAPHIC  
Total Days 4  
Last Date July 30, 1937

Remarks

Decisions

	Remarks	Decisions
1		see T- 5097
2		see T- 5445
3		" "
4	For Title Only	USGB decision
5		
6		
7		
8		
9		
10		
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18		
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23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. H-6225

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
<u>Barnegat Inlet</u>	✓											1
<u>Beachhaven Inlet</u>	✓											2
<u>Long Beach</u>	✓											3
<u>New Jersey</u>	✓											4
												5
												6
												7
												8
												9
												10
												11
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												21
												22
												23
												24
Names underlined in red approved											25	
by <i>JHE</i> on 1/26/38											26	
												27

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
 DESCRIPTIVE REPORT  
~~PHOTOSTATIC~~

No. H-6225  
~~XXXX~~

received Jan. 5, 1938  
 registered Jan. 12, 1938  
 verified  
 reviewed  
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE	Initial	Attention called to
20		
✓ 22	JIP	Page 2 appears to have been error in plotting on grid sheet presumably furnished by "Hydromax"
24		
25	JBR	Sent memorandum
26		
30		
40		
62		
63		
82		
83		
88		
90		

RETURN TO

82	G. K. Green
----	-------------

T. B. Reedy  
 ✓

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 15, 1938.

Division of Hydrography and Topography:

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

Plane of reference

~~Tide Reducers~~ approved in  
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6225

Locality Barnegat Inlet to Beachhaven Inlet, N. J.

Chief of Party: R. D. Horne in 1937

Plane of reference is mean low water, reading  
4.1 ft. on tide staff at Atlantic City  
15.8 ft. below B.M. 32

Height of mean high water above plane of reference is 4.1 feet.

Condition of records satisfactory except as noted below:

*City Ham*  
Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6225 (1937) FIELD NO. 201

Barnegat Inlet to Beachhaven Inlet, New Jersey Coast, N. J.

Surveyed in July, 1937, Scale 1:20,000

Instructions dated April 9, 1936 (Gilbert)

March 19, 1937 (Lydonia)

July 7, 1937 (Gilbert)

Hand Lead Soundings.

3 Point fixes on shore signals.

Dorsey Fathometer Soundings.

Chief of Party - R. D. Horne

Surveyed by - R. D. Horne

Protracted by - C. A. George

Soundings plotted by - C. A. George

Verified and inked by - C. F. McKenney and L. S. Straw

1. Condition of Records.

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

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project except that several shoal indications obtained on the present survey should have been more closely developed. (See paragraph 10, this review.)

3. Shoreline and Signals.

a. Shoreline and topographic signals originate with T-5097 (1932), T-5099 (1932), T-5444 (1932), T-5445 (1932), T-6399ab (1935), T-6400b (1935) and T-6499 (1935-36).

b. Hydrographic signal "New" originates with the survey to the east (Field No. 401, Lydonia, 1937) which has not been received in the office.

4. Sounding Line Crossings.

Sounding line crossings are in general very satisfactory. Discrepancies of 2 and 3 feet in depths of 40 feet in latitude  $39^{\circ} 40.0'$ , longitude  $74^{\circ} 08.0'$  (see descriptive report, page 2) could be improved by slight shifts in position.

5. Depth Curves.

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

6. Junctions with Contemporary Surveys.

- a. The junctions with H-6141 (1936) on the north and H-6195 (1936) on the south are satisfactory.
- b. The junction with the survey on the east will be considered in the review of that survey when the sheet is received in the office.
- c. There are no contemporary surveys inshore. New surveys are, however, contemplated for this area in the near future.

7. Comparison with Prior Surveys.

- a. H-111 (1841), 1:20,000; H-112 (1840-41), 1:40,000; H-113 (1841), 1:20,000.

These three surveys are in reality a single survey plotted on different scales. It covers the entire area of the present survey and is the basic source of information for the charting of the common area. The agreement with the present survey is fair in some places but is mostly poor. In general the depths on the old survey appear to be too far offshore with relation to the present survey. An 18 foot sounding (charted) in latitude  $39^{\circ} 41.0'$ , longitude  $74^{\circ} 07.4'$  on H-112 (1840-41), originates with pos. 13 of July 1, 1841 and falls in depths of 28 feet on the present survey. The sounding as verified in the old sounding records by several similar depths but there is no indication of such a shoal in this vicinity on the present survey. Several other shoal depths on the old survey are in similar disagreement with the present survey. The control on the old survey is based on shore signals and while its accuracy probably does not approach that of the control used on the present survey this in itself should not be responsible for the numerous differences. It is probable that the differences are due partly to the control and equipment used on the old survey and partly to natural changes. The present survey because of its far better development should supersede the above surveys for charting purposes.

- b. H-3773 (1915), 1:50,000.

This survey contains but a very few soundings in the small common area on the offshore side of the north half of the present survey. Depths on the two surveys are in general good agreement. The present survey, because of its larger scale and much closer development, should supersede H-3773 (1915) for charting purposes.

- c. H-4387 (1924), 1:5,000.

This survey covers a small portion of the present survey at the southwest corner. Depths on the two surveys are in good agreement. The present survey adequately covers the small common area and should supersede the above survey in future charting.

8. Comparison with Chart 1216 (New Print dated September 29, 1937).  
Chart 3243 (New Print dated December 10, 1937).

a. Hydrography.

Within the area of the present survey the charts are based on surveys discussed in the foregoing paragraphs. In making the comparison with the charts every sounding charted within the area of the present survey was considered. The origin of several soundings charted in this area could not be readily ascertained. They are not shown on any of the editions of obsolete chart 122 but appear on the first edition (1914) of chart 1216. They fall in areas adequately covered by the present survey and should be disregarded in future charting.

b. Aids to Navigation.

The charted position of Barnegat Light (latitude  $39^{\circ} 45.9'$ , longitude  $74^{\circ} 06.4'$ ) is in good agreement with the position on the present survey.

9. Field Plotting.

The field plotting is satisfactory.

10. Additional Field Work Recommended.

The following additional field work is required in order to complete the survey:

a. Shoal indications listed below should be more closely developed.

- (1) 18' in latitude  $39^{\circ} 32.4'$ , longitude  $74^{\circ} 14.4'$ .
- (2) 18' in latitude  $39^{\circ} 32.8'$ , longitude  $74^{\circ} 14.1'$ .
- (3) 3 fathom spit, in approximate latitude  $39^{\circ} 33.6'$ , longitude  $74^{\circ} 13.5'$ .
- (4) 18' in latitude  $39^{\circ} 35.9'$ , longitude  $74^{\circ} 11.9'$ , and 3 fathom spit to the southwest.
- (5) 17' in latitude  $39^{\circ} 36.3'$ , longitude  $74^{\circ} 11.4'$ .
- (6) 30' in latitude  $39^{\circ} 37.6'$ , longitude  $74^{\circ} 10.6'$ .

- b. Split lines should be run to cover the 18 foot sounding (charted) in latitude  $39^{\circ} 41.0'$ , longitude  $74^{\circ} 07.4'$ , on H-112 (1840-41) and the 4 fathom spit shown on the present survey close inshore from this position.
- 15ft found in 1939  
Add'l Work.*
- 18' disproved  
dragged -  
effective depth  
24' on H-6462.  
(1939)*

- (d) c. When the inshore surveys are made, lines in the area overlapping the present survey should be run in such a manner as to split the inshore lines on the present survey.

11. Superseding Old Surveys.

Within the area covered the present survey supersedes the following old surveys for charting purposes:

H-111 (1841)	in part
H-112 (1841)	" "
H-113 (1841)	" "
H-3773 (1915)	" "
H-4387 (1924)	" "

12. Reviewed by - J. A. McCormick, February 7, 1937.

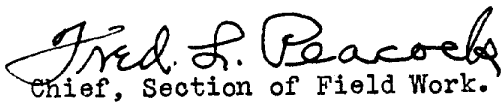
Inspected by - A. L. Shalowitz.

Examined and approved:




T. B. Reed,  
Chief, Field Records Section.

K.T. Adams  
Chief, Division of Charts.



Fred L. Peacock  
Chief, Section of Field Work.



G. H. H. H.  
Chief, Division of H. & T.

Applied to Cht 1216 - 7/18/39 P.B.L.

" " compilation of ~~new~~ chart 825 Oct. 1939 E.R.

SHORT MTN

△ SHORT 2

△ BECK MARK

△

# 6225

Additional work 1939

# 6225

Additional work 1939

Form 504 Rev. April 1935	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
<del>Topographic</del> Hydrographic	Sheet No. 201 H - 6225
State	New Jersey
LOCALITY	
New Jersey Coast - Barnegat Inlet to <del>Beach Haven Inlet to Barnegat</del>	
Beach Haven Inlet <del>Inlet -- Long Beach</del>	
1939	
CHIEF OF PARTY	
F. S. Borden, H. & G. Engr	

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.

Field No. 201

REGISTER NO. H - 6225

State New Jersey

General locality Long Beach New Jersey Coast

Locality Barnegat Inlet to Beach Haven Inlet  
~~Beach Haven Inlet to Barnegat Inlet~~

Scale 20,000 Date of survey May 29 - June 8, 1939

Vessel Launch Rogers & Surf Boat

Chief of Party F. S. Borden

Surveyed by F. A. Riddell & K. S. Ulm

Protracted by H. A. Wilde

Soundings penciled by H. A. Wilde

Soundings in ~~fathoms~~ feet

Plane of reference M. L. W.

Subdivision of wire dragged areas by

Inked by R. H. Carstens

Verified by R. H. Carstens

Instructions dated (original) March 4, May 14, and May 25, 1938  
Additional Work Instr.

Remarks: Additional Development and Inshore Hydrography

To the Work of the M. V. Gilbert in 1937. To be smooth plotted in the Washington Office.

NOTES ON FIELDWORK  
TO  
ACCOMPANY ADDITIONAL DEVELOPMENT  
ON  
HYDROGRAPHIC SHEET NO. H - 6225

AUTHORITY

Instructions dated March 4, May 14, and May 25, 1938, Project H.T. 207, were followed throughout.

LIMITS

From Beach Haven Inlet, Latitude  $39^{\circ} 32'$ , north to Barnegat Inlet,  $39^{\circ} 47'$ .

SURVEY METHODS

The methods used in the execution of this survey are in accordance with the instructions and standard practice described in the Hydrographic Manual consisting of handlead soundings controlled by visual fixes.

LOCATION OF ADDITIONAL HYDROGRAPHIC SIGNALS

All additional signals needed in the performance of this survey are located by Sextant cuts from the launches. The intersections on the boat sheet are good and proved satisfactory. These additional signals are not of sufficient prominence to be described as recoverable stations with the exception of Signal "OKE" which is a new water tank. This will be sent in on form 567, Landmarks for Charts.

DISCREPANCIES

No discrepancies were found in this work.

DANGERS

Small craft are warned to navigate with caution when within the limits of fish stake area. The U.S. Army Engineer Office in Atlantic City, New Jersey state that often the fish stakes are carried away in heavy weather. Their field force covers the coast line from Cape May to Manasquan, N.J. and it takes several days to investigate and clear the area of all reported stakes.

CHANNELS

There are no channels in this area.

ANCHORAGES

There are no anchorages in this area.

COMPARISON WITH PREVIOUS SURVEYS

A satisfactory junction was made with the work done in this area by the Launch "Mikawe" and Motor Vessel "Gilbert" in 1936 and 1937.

GENERAL

The items listed under: Additional work in the area of Hydrographic Surveys of May 14, 1938, Survey H - 6225 (1937) and Additional Development on Survey H - 6226 of May 25, 1938, second paragraph survey of H - 6225 have been completed. The hydrography inside the three fathom curve was carried to the one fathom curve and frequent notes made as to distances off breakers. The charted 18 - foot sounding in Latitude  $39^{\circ} 41.0'$ , Longitude  $74^{\circ} 07.4'$  was wire dragged and covered with <sup>24</sup>25 feet effective depth on W.D. Sheet H - 6462 by strip from 19A to 28A<sup>5b</sup>. In the development call for, the lines were run along the axis of the shoals with the outlining of the limits of the shoal in view. *Disproved - Par 2 of Review of Add'l Work.*

An additional boat sheet was made in the field so that two launches could be used for this work. The Launch ROGERS and the tender were used.

The tracing paper overlay enclosed shows replotting of "C" day "Rogers". The left object was not properly identified. A water tank, later Signal "OKE", was mistaken for Signal "HCP". Later that day Signal "OKE" was located and the positions replotted on the overlay.

GEOGRAPHIC NAMES

No new names appear on this sheet.

Respectfully Submitted:

*Kenneth S. Ulm*

Kenneth S. Ulm

Lieut.(j.g.)C. & G. Survey

Forwarded:

*John H. Brittain*  
John H. Brittain  
In Charge, Norfolk Processing  
Office,

ADDITIONAL WORK ON  
SHEET H -6225  
STATISTICS FOR OCEANOGRAPHER - 1939  
PROJECT H.T.-207

<u>Letter</u> <u>Day</u>	<u>Date</u>	<u>Statute</u> <u>Miles</u>	<u>Soundings</u>	<u>Positions</u>	<u>Volume</u> <u>No.</u>
"RODGERS"					
A	May 29	13.0	442	99	1
B	" 30	2.6	54	49	1
C	" 31	18.0	752	155	1
D	June 4	18.7	632	162	1 & 2
E	" 5	12.2	538	110	2
F	" 6	20.0	773	170	2
G	" 8	15.2	522	130	2 & 3

"SURF BOAT"

a.	May 31	17.2	627	102	4
b.	June 4	19.9	619	130	4
c.	June 5	17.2	551	110	4

TOTALS  
FOR  
SHEET

154.0      5510      1217

Area = 7.7 Statute Miles



Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6225** Add'l. Wk. 1939

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

Number of positions on sheet	<b>.1217.</b>
Number of positions checked	<b>...63.</b>
Number of positions revised	<b>...12.</b>
Number of soundings recorded	<b>.5510</b>
Number of soundings revised	<b>...2.</b>
Number of soundings erroneously spaced	<b>...0.</b>
Number of signals erroneously plotted or transferred	<b>....0.</b>

Date: Aug 27, 1940

Verification by *R.H. Carsten*

Time: 39 hr

Review by *Leo Straw*

Time: 62 hours

Smooth Sheet ~~Yes~~ No

Boat Sheet Yes

Records; Sounding 4 Vols., Wire Drag     Vols., Bomb     Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service Yes  
(Circular Nov.30, 1933)

Hydrography: Total Days 7; Last Date June 8, 1939

Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

GEOGRAPHIC NAMES

Survey No. **H6225**

Add'l. Wk. 1939

Name on Survey	Source of Name										No.
	A	B	C	D	E	F	G	H	K		
Barnegat Inlet											1
Beach Haven Inlet											2
											3
											4
											5
											6
											7
											8
											9
											10
											11
											12
											13
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											23
											24
											25
											26
											27

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

No. H **H6225**  
~~No. H~~ Add'l. Wk. 1939

received June 14, 1940  
registered June 21, 1940  
verified  
reviewed  
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
----	------------

✓ *JOSOR*

LAC  
MPL

### TIDE NOTE FOR HYDROGRAPHIC SHEET

July 5, 1940

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. H. R. Edmonston

Tide Reducers are approved in  
6 volumes of sounding records for

HYDROGRAPHIC SHEET

6225 Add. Wk.

Locality Barnegat Inlet to Beachhaven Inlet, N. J. Coast

Chief of Party: R. D. Horne and F. S. Borden, 1937, 1939

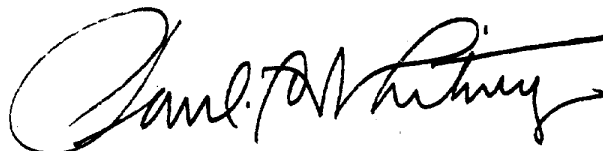
Plane of reference is mean low water reading

4.1 ft. on tide staff at Atlantic City

15.8 ft. below B.M. 32

Height of mean high water above plane of reference is 4.1 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H - 6225 (1939)

*Add. wk.*

Verified and Inked by *R. H. Carstens*

Date *Aug 27, 1940*

1. The descriptive report was consulted and appropriate action taken. ✓
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude. ✓
3. All references to survey sheets mentioned in the descriptive report include the registry number and year. ✓
4. Geographic names of hydrographic features are in slanting lettering and of topographic features in vertical lettering. ✓
5. All items effecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken.
6. All positions verified instrumentally were check marked in the sounding records. ✓
7. All critical soundings are clear and legible. ✓
8. The metal protractor has been checked within the last three months. ✓
9. The protracting and plotting of all bad crossings were verified. ✓
10. All detached positions locating critical soundings, rocks or buoys were verified. ✓
11. The boat sheet was compared with the smooth sheet. ✓
12. The spacing of soundings as recorded in the records was closely followed. ✓
13. The bottom characteristics were shown on outstanding shoals. ✓
14. The reduction and plotting of doubtful soundings were checked. ✓

15. The transfer of contemporary topographic information was carefully examined. ✓
16. All junctions were transferred. ✓
17. The notation "JOINS H" was added for all contemporary adjoining or overlapping sheets now registered. ✓
18. The depth curves have been drawn to include the significant depths. ✓
19. All triangulation stations and transfer of topographic and hydrographic signals were checked by the field party. ✓
20. Heights of rocks were checked against range of tide. ✓
21. Rocks transferred from topographic survey have a dotted curve where shown thereon. ✓
22. Unnecessary pencil notes have been removed. ✓
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet. *For 2 (L) No description could be found for O wreck (39-39)(274-10)2 Review* ✓
24. The low water line and delineation of shoal areas have been properly shown (see letter of October 20, 1934). ✓
25. Degree and minutes values and symbols have been checked. ✓
26. Source of shoreline and signals (When not given in report). *Given* ✓
27. Depth curves were satisfactory ~~except as follows:~~ ✓

28. Sounding line crossings were satisfactory ~~except as follows:~~
29. Junctions with contemporary surveys were satisfactory ~~except as follows:~~
30. Condition of sounding records was satisfactory ~~except as follows:~~
31. The protracting was satisfactory ~~except as follows:~~
32. The field plotting of soundings was satisfactory ~~except as follows:~~
33. Notes to reviewer:

*A small holiday appears on the Junction with H-6141. This may be due to a shoal making out in this area as a note breakers appear on pos 102a and 110c and a note shoal ahead appears on pos 102a*

*Part 2 (g) Review*

DIVISION OF CHARTS

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6225 (1939) ADD. WORK  
FIELD NO. 201

Barnegat Inlet to Beach Haven Inlet, New Jersey Coast, N. J.  
Surveyed in May and June 1939, Scale 1:20,000  
Instructions dated May 14 and May 25, 1938 (OCEANOGRAPHER)

Soundings:  
Hand Lead

Control:  
Three point visual  
fixes on shore signals.

Chief of Party - F. S. Borden.  
Surveyed by - F. A. Riddell and K. S. Ulm.  
Protracted by - H. A. Wilde (Washington Office)  
Soundings plotted by - H. A. Wilde (Washington Office)  
Verified and inked by - R. H. Carstens.  
Reviewed by - Leo S. Straw, September 3, 1940.  
Inspected by - H. R. Edmonston.

1. Purpose of Additional Work.

The purpose of this additional work was to furnish more development on the shoal indications listed in paragraph 10a, b and c, Review of H-6225 (1937) which was incorporated in the instructions dated May 14, 1938.

2. Results.

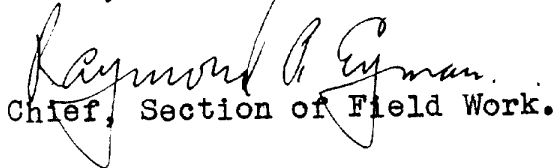
- a. The 18 foot depths in the following locations were verified; Latitude  $39^{\circ} 32.4'$ , longitude  $74^{\circ} 14.4'$ ; Latitude  $39^{\circ} 32.8'$ , longitude  $74^{\circ} 14.1'$ ; and Latitude  $39^{\circ} 35.9'$ , Longitude  $74^{\circ} 11.9'$  and the 30 foot depth in Latitude  $39^{\circ} 37.6'$ , Longitude  $74^{\circ} 10.6'$ . Items (1), (2), (4) and (6) Instructions May 14, 1938.
- b. A depth of 15 feet was found near the 17 in Latitude  $39^{\circ} 36.3'$ , Longitude  $74^{\circ} 11.4'$  (Item 5).
- c. The 3 fathom spits in approximate Latitude  $39^{\circ} 35.8'$ , Longitude  $74^{\circ} 12.1'$  (Item 4) and  $39^{\circ} 33.6'$ , Longitude  $74^{\circ} 13.5'$  (Item 3) were fully developed, the latter shows three new 12 foot shoals in approximate Latitude  $39^{\circ} 33.3'$ , Longitude  $74^{\circ} 14.0'$ .
- d. The 18 foot depth on H-112 (1840-41) in Latitude  $39^{\circ} 41.0'$ , Longitude  $74^{\circ} 07.4'$  (Item 7) was disproved with the wire drag - effective depth 24 feet on H-6462 (1939) W.D.

- e. The additional lines called for (Instructions May 25, 1938) at the junctions between H-6141 (1937) and H-6136 (1937) was satisfactorily accomplished and is plotted on this survey (H-6225).
- f. Hydrographic signal "Wreck" (located in 1939), 70 meters outside of the high water line in Latitude  $39^{\circ} 39.04'$ , Longitude  $74^{\circ} 10.3'$ , was not described on the boat sheet, in the sounding volumes or mentioned in the descriptive report. Although this object is 130 meters inside of the 6 foot curve, information concerning its nature is desirable.
- g. A small holiday exists at the junction of H-6225 and H-6141 (1937). The sounding lines in the vicinity of the 6 and 12 foot curves should have been extended 300 to 400 meters northeastward of approximate latitude  $39^{\circ} 45'$ , Longitude  $74^{\circ} 06'$ , in order to delineate the one fathom spit indicated by the additional work.
- h. Except for the junction discussed in (g) this paragraph the additional work executed in 1939 is adequate and satisfactorily develops the shoal indications and areas not surveyed in 1937. This survey, within its limits, is now complete and should supersede all previous work within the common area.

Examined and approved:



T. B. Reed,  
Chief, Section of Field Records.



Chief, Section of Field Work.



Chief, Division of Charts.



Chief, Division of H. & T.

add<sup>d</sup> 1939 work. applied to chart 1108 2/11/41 G.H.S.  
" " " " " 1216 Feb 1941 J.H.S.