

8222

Diag. Cht. No. 1216-2 & 1217-2.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. BN-2154 Office No. H-8222

LOCALITY

State New Jersey

General locality

Locality Approaches to Little Egg Inlet

19 ~~54~~ 54

CHIEF OF PARTY

Harold J. Seaborg

LIBRARY & ARCHIVES

DATE January 31, 1958

8222

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-8222

Field No. BN - 2154

State New Jersey

General locality South Jersey Coast

Locality Approaches to Little Egg Inlet

Scale 1:20,000 Date of survey 8/12 to 10/8, 1954

Instructions dated 4 May 1954 & 8 October 1954

Vessel Ship BOWEN

Chief of party Harold J. Seaborg

Surveyed by H. J. Seaborg, J. R. Plaggmier

Soundings taken by fathometer, ~~graphic recorder~~, hand lead, ~~wire~~

Fathograms scaled by Ship's personnel

Fathograms checked by R. H. Houlder

Protracted by A. Kaupa

Soundings penciled by A. Kaupa

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~ AND ARE TRUE DEPTHS.

REMARKS: This survey was smooth plotted in the Hydrographic Section of the Norfolk District Office.

ast

DESCRIPTIVE REPORT

to accompany

OFFSHORE HYDROGRAPHIC SURVEY

FIELD NO. BN - 2154

U. S. C. & G. S. Ship B O W E N

Harold J. Seaborg, Commanding

Scale 1:20,000

12 August to 8 October, 1954

A. PROJECT:

Project CS-373 dated 4 May 1954 and supplemented by letter, 22-rcc-BOWEN, dated 8 October 1954.

B. SURVEY LIMITS AND DATES:

A basic hydrographic survey was accomplished at the entrances of and approaches thereto of Beach Haven, Little Egg and Brigantine Inlets, New Jersey. Work commenced on 12 August 1954 and was completed on 8 October 1954. Junction was made with contemporary surveys BN-1254, BN-1354, and BN-1454, which were in-shore of this survey and covered the inlets proper and, also, with prior surveys H-6271, 1/40,000, 1937; H-6145, 1/10,000, 1935; H-6196, 1/10,000, 1936; H-6195, 1/10,000, 1936; and H-6225, 1/20,000, 1937.

See sketch titles "TIDAL AREAS" appended to this report for limits of survey.

Considerable delay in the completion of this survey was caused by the breaking of the BOWEN's starboard shaft on 29 August 1954. Surveys were resumed on 23 September 1954 upon completion of ship repair.

C. VESSEL AND EQUIPMENT:

The Ship BOWEN served as the survey vessel. It has a turning radius of 75 meters at 10 knots.

All soundings were obtained using 808-J type fathometer 160 SPX.

D. TIDE AND CURRENT STATIONS:

See Part IV of Tide Note appended to this report. No current stations were occupied.

E. BOATSHEET:

The boatsheet was prepared and furnished by the Washington Office.

F. CONTROL STATIONS:

A list of control stations is appended to this report.
See Norfolk Office list of signals

G. SHORELINE AND TOPOGRAPHY:

Shoreline and topography need only be generalized as this is an off-shore survey. *See Remark.*

H. SOUNDINGS:

Standard procedure was used in obtaining soundings with the 808-J fathometer. Corrections were based on a number of bar checks. These corrections have been entered and checked in the sounding volumes. Bottom characteristics were obtained using an armed lead.

I. CONTROL OF HYDROGRAPHY:

Visual sextant fixes controlled this hydrography.

J. ADEQUACY OF SURVEY:

This survey is complete and adequate for charting except for proving or disproving a shoal sounding obtained at Lat. ~~39~~³⁸°-25.06 N, Long. 74°-19.33' W. This shoal sounding (13 feet at M.L.W.) will be found between positions 26C and 27C, Volume No. 2. A good fathogram trace was recorded but subsequent development by the ship and launch failed to substantiate the shoal depth. A wire drag survey is believed necessary for final determination.

Trace discredited by development and considered a stray

K. CROSSLINES:

Crosslines were run (about 8 %) in compliance with paragraph 357 of the Hydrographic Manual.

(for 5a review)

L. COMPARISON WITH CHART AND PRIOR SURVEYS:

Comparisons have been made with charts 1216 and 1217 and prior surveys as listed in paragraph B. In general, there is little or no disagreement.

Comment on preliminary Review Items, dated March 18, 1954, follows:

Item #2, the grounding depths were generally verified considering the 1 - 3 foot differences between the grounding and clearing depths.

Item #3, the 45 foot depth was not verified although depths of 51 feet were found close by.

N. DANGERS AND SHOALS:

There were no newly discovered dangers or shoals except the shoal sounding listed under paragraph J of this report.

O. COAST PILOT INFORMATION:

A separate report, copy of which is appended, has been submitted to the Director on Coast Pilot Changes.

P. AIDS TO NAVIGATION AND LANDMARKS FOR CHARTS:

Separate reports of Floating and Non-Floating Aids to Navigation and Landmarks for Charts are appended to this report. The dm's and dp's were not entered on Form 567 because of excessive distortion of the boat sheet.

Red buoy "4.85" in lat. 39°23' long 74°18.6' located by sextant (Arad day Vol. 1 of 8222. Lighted SW BELL 2.5' buoy in lat. 39°29' long 74°15.8'. SW buoy "CA" in lat. 39°28.6' long 74°16.7'. SW BELL buoy 39°30.25' long 74°15.3' located by H-8220 were transferred to H-8222 by the 100' fix.

Q. MISCELLANEOUS:

Through a contact with the Assistant Operations Officer, U.S. Naval Air Station, Pomona, N.J., it was learned that the Navy contemplates making a formal request thru channels for permission to establish 2 danger areas, each 3/4 mile in radius, for non-explosive bombing ranges. Final disposition of this request however was not available at the close of field operations.

Approximate Location:

- 1. Great Bay: Latitude 39°-28'-16"; Longitude 74°-18'-52"
- 2. New Gretna: " 39°-34'-25"; " 74°-24'-30"

Respectfully submitted,

Harold J. Seaborg
Harold J. Seaborg,
Commander, USC&GS.

NORFOLK PROCESSING OFFICE
LIST OF SIGNALS
.. To Accompany
H-8222

TRIANGULATION STATIONS

✓ BRIG BRIGANTINE, ELEV. WATERTANK, 1950
✓ EACH BRIGANTINE BEACH, WATERTANK (SOUTH OF), 1932-35
✓ FISH SEVEN ISLANDS, FISH FACTORY, WATERTANK, 1950
✓ PIPE STANDPIPE (1), 1932-35
✓ WAT BEACH HAVEN, WATERTANK, 1932-35

MARKED TOPOGRAPHIC STATIONS

SOURCE FORM 524

* HAV HAVEN, 1954 ← card 524 Lost
* TINE TINE, 1954 ← Filed (Carbon copy)

L.S.S.
12/31/58

TOPOGRAPHIC STATIONS

SOURCE T-9501(S) (1950-52)

✓ Cup End New Tow Woo Cob

SOURCE T-9502(N) (1950-51)

✓ Stack

SOURCE T-9505(N) (1950-52)

✓ Cros Eva Fig Wer

SOURCE T-9505(S) (1950-52)

✓ Dom

HYDROGRAPHIC STATIONS

✓ Pot Vol. 1, pg. 72 (From Bn-1354)

* For triangulation } Data - Filed in Library - S. BOWEN
Computation } (S-3452
SHS
H8220
1954

APPLIED BAR CHECK CORRECTIONS

PROJECT CS - 373

I. FATHOMETER 157 SPX (Sheets BN - 1254, 1354, 1454):

| Date (1954) | | Depths (feet) | | Correction (feet) |
|----------------|-----------------------------|------------------|------|----------------------|
| From | To | From | To | |
| 11 August | 1 October (except 18 Sept.) | 0.0 | 50.0 | 0.0 |
| 18 September | 18 September | 0.0 | 3.0 | - 0.4 |
| | | 3.2 | 6.2 | - 0.2 |
| | | 6.4 | 8.6 | 0.0 |
| | | 8.8 | 11.4 | + 0.2 |
| | | 11.6 | 14.8 | + 0.4 |
| | | 15.0 | 20.4 | + 0.6 |
| | | 20.6 | 28.4 | + 0.8 |
| | | 28.6 | 36.2 | + 1.0 |
| | | 36.4 | 44.4 | + 1.2 |
| | | 44.6 | 52.6 | + 1.4 |

II. FATHOMETER 100 S (Sheets BN - 1254, 1354, 1454):

| | | | | |
|--------------|------------|------|------|-------|
| 20 September | 28 October | 0.0 | 7.6 | 0.0 |
| | | 7.7 | 13.6 | + 0.2 |
| | | 13.7 | 40.0 | + 0.4 |
| | | 40.1 | 55.0 | + 0.6 |

III. FATHOMETER 160 SPX (Sheet BN - 2154):

| | | | | |
|-----------|-----------|------|------|--------------------|
| 12 August | 8 October | 0.0 | 20.0 | "A" Scale 0.0 |
| | | 20.1 | 40.0 | + 0.2 |
| | | 40.1 | 60.0 | + 0.4 |
| | | 35.0 | 40.0 | "B" Scale + 0.4 |
| | | 40.1 | 60.0 | + 0.6 |
| | | 60.1 | 80.0 | + 0.8 |

TIDE NOTEI. SHEET BN 1253: H-8219(1954)

Tide reducers for the survey of the inland waters were based on recorded tides at the Big Sheepshead Creek portable tide gage station. (Lat. $39^{\circ}31.4'$, Long. $74^{\circ}17.8'$) (MLW reading on staff 2.2 ft.)

Tide reducers for the survey along the outer coast were based on recorded tides at the Atlantic City Steel Pier standard tide gage station (Lat. $39^{\circ}21.30'$, Long. $74^{\circ}25.10'$), for which hourly heights were furnished by the Washington Office.

II. SHEET BN-1354: H-8220(1954)

All outer portions of Beach Haven and Little Egg Inlets are based on the standard tide gage at Steel Pier, Atlantic City, N.J.

The west portion of Great Thorofare and that portion of Great Bay west of the line from the Little Egg Coast Guard Station south to the nearest point of land at Little Beach, utilize the tides obtained at the Crab Island portable tide gage station, Lat. $39^{\circ}31.1'$, Long. $74^{\circ}20.2'$. (MLW reading on staff 2.5 ft.)

All the area east of the line defined for the Crab Island station and west of the junction of the area controlled by the Steel Pier tide gage is controlled by the portable tide gage at Big Sheepshead Creek.

Reference is made to letter from the Assistant Director (36-rjb) dated 15 September 1954, approving the above described zoning.

III. SHEET BN-1454: H-8221(1954)

All outer portions of Brigantine Inlet and along the outer coast are based on tides from Steel Pier, Atlantic City, N. J.

All reducers for sounding from the breaker line inland are based on recorded tides at the Brigantine Channel portable tide gage station. (Lat. $39^{\circ}26.6'$, Long. $74^{\circ}21.3'$) (MLW reading on staff 0.4 ft.)

IV. SHEET BN-2154: H-8222(1954)

Tide reducers for this survey were based on recorded tides at the Atlantic City Steel Pier standard tide gage station for which hourly heights were furnished by the Washington Office.

* NOTE: See appended sheet for graphical presentation.

STATISTICS FOR HYDRO SURVEY H -
 (FIELD) BN - 2154
 USC&GS Ship B O W E N
 CS - 373

| Date | Baye Letter | Volume Number | Number of Positions | Detached Positions (Handlead) | Statute Miles of Sounding |
|--------------------------------------|----------------|------------------|------------------------|-------------------------------------|------------------------------|
| 1954 | | | | | |
| Aug. 12 | A | 1 | 51 57✓ | 1✓ | 20.7 |
| 13 | B | 1 & 2 | -167✓ | 0 | 57.5- 59.5 |
| 16 | C | 2 | 144✓ | 0 | 42.0 |
| 17 | D | 2 & 3 | -192✓ | 0 | 65.0 |
| 18 | E | 3 & 4 | 178✓ | 0 | 55.2 |
| 19 | F | 4 | 74✓ | 0 | 25.7 |
| 26 | G | 4 & 5 | -153✓ | 0 | 50.5 |
| 29 | H | 5 | 25✓ | 0 | 8.6 |
| Sept. 23 | J | 5 & 6 | 153✓ | 0 | 53.4- 54.5 |
| 28 | K | 6 & 7 | -168✓ | 0 | 58.0- 57.0 |
| 29 | L | 7 | -147✓ | 0 | 47.0- 46.0 |
| 30 | M | 7 & 8 | 131✓ | 0 | 27.0- 22.0 |
| Oct. 1 | N | 8 | 161 | 0 | 36.8 |
| 5 | P | 8 & 9 | 205✓ | 16 | 47.4 |
| 8 | Q | 9 | 137✓ | 7 4✓ | 25.9 |
| TOTALS FOR SHEET BN - 2154 - - - - - | | | 2,086 | 24 | 620.7 |

TOTAL AREA (SHEET BN - 2154) - - - 37.8 Square Statute Miles

N-72-161

SETTLEMENT & SQUAT CORRECTIONS

PBS

| <u>SPEED</u> <u>(KPM)</u> | <u>CORRECTION</u> <u>(FEET)</u> | <u>FROM DEPTH TO DEPTH</u> <u>(FEET)</u> |
|------------------------------|------------------------------------|---|
| 400 | + 0.2 | all depths |
| 450 | + 0.2 | all depths |
| 500 | + 0.2 | all depths |
| 600 | 0.4 | 6.0 to 14.5 |
| | 0.2 | 15.0 & over |
| 650 | 0.4 | 11.5 to 17.0 |
| | 0.2 | 17.5 & over |
| 700 | 0.6 | 12.5 to 15.0 |
| | 0.4 | 15.5 to 19.5 |
| | 0.2 | 20.0 & over |
| 750 | 0.8 | 12.5 to 14.0 |
| | 0.6 | 14.5 to 16.5 |
| | 0.4 | 17.0 to 21.5 |
| | 0.2 | 22.0 to 31.5 |
| | 0.4 | 32.0 & over |
| 800 | 1.0 | 12.5 to 13.0 |
| | 0.8 | 13.5 to 15.5 |
| | 0.6 | 16.0 to 19.0 |
| | 0.4 | 19.5 & over |
| 850 | 1.0 | 12.5 to 13.5 |
| | 0.8 | 14.0 to 16.5 |
| | 0.6 | 17.0 to 22.5 |
| | 0.4 | 23.0 & over |
| 900 | 1.0 | 12.5 to 14.5 |
| | 0.8 | 15.0 to 20.5 |
| | 0.6 | 21.0 to 34.0 |
| | 0.4 | 34.5 & over |
| 1000 | 1.0 | 6.0 to 21.5 |
| | 0.8 | 22.0 to 31.5 |
| | 0.6 | 32.0 & over |

C O A S T P I L O T R E P O R T

PROJECT NO. CS - 373

LITTLE EGG INLET, N. J.

U. S. C. & G. S. Ship B O W E N

H. J. SEABORG, COMMANDING

AUGUST - OCTOBER, 1954

UNITED STATES COAST PILOT 3
ATLANTIC COAST
SANDY HOOK to CAPE HENRY
Supplement dated 27 February 1954

CHART 1216

Page 135 - Line 41; paragraph revised:

LONG BEACH is a rapidly growing resort area consisting of a number of small communities of which BEACH HAVEN is the largest. The standpipe at BEACH HAVEN TERRACE, a stack at SPRAY BEACH, and an elevated water tank at BEACH HAVEN, are prominent landmarks. The BONDS COAST GUARD STATION at HOLGATE, 16 miles from Barnegat Lighthouse, has a tank and lookout tower. Storm warnings are displayed daytime only, at the station.

Page 136 - Line 16; read: The controlling depth over the bar is 6 feet.

CHART 1217

Page 136 - Line 35; read: depth was 9 feet in the entrance channel in August 1954. The Corps of Engineers was dredging this channel in October 1954.

Page 137 - Line 17; read: up to 110 feet in length, 7 feet in draft, and up to 70 tons in weight.

Page 137 - Line 20; read: Basin. At the Kentucky Avenue Lifeguard Station, a mile southwest of the old lighthouse, daytime storm warnings are displayed only through the summer months.

CHART 825

Page 150 - Line 32; read: can haul out boats up to 45 feet in length and 25 tons in weight.

Page 150 - Line 36; Insert new paragraph after:

Considerable improvement and enlargement of dock space and facilities are in progress at the Beach Haven Yacht Club. Just north of this club, a marine railway can accommodate boats up to 42 feet long, 20 tons in weight. A machine and wood shop is located here also.

At BEACH HAVEN HEIGHTS, a marine railway is under construction. Another small marine railway is located at Holgate.

CHART 826

Page 151 - Line 7; read: just east of Mile 42.3,

Page 151 - Line 15; read: leaving Marshelder Channel about 0.5 mile north of Tucker

Page 151 - Line 21; read: , which has a controlling depth of 5 feet.



CORRECTIONS IN FEET, METERS

VELOCITY CORRECTIONS

U.S. Coast and Geodetic Survey

Ship Bowditch

H. J. Selberg

Comdg.

These corrections are to be used
between Aug. 12 1954 and Oct. 8 1954
in the locality

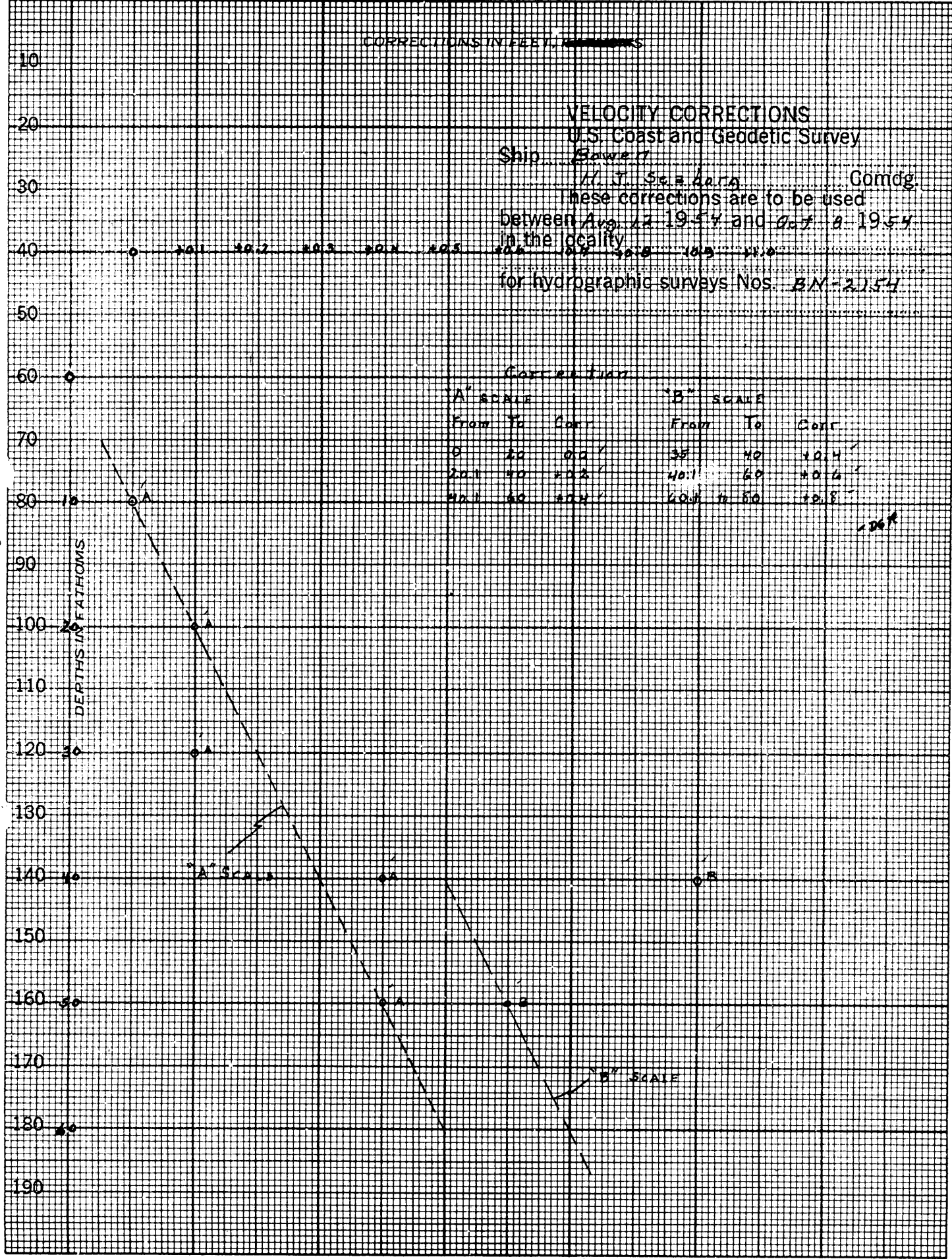
for hydrographic surveys Nos. BM-2154

(For deep water add a 0 to these figures)

DEPTH IN FATHOMS

Correction

| "A" SCALE | | | "B" SCALE | | |
|-----------|----|-------|-----------|----|-------|
| From | To | Corr. | From | To | Corr. |
| 0 | 20 | +0.2 | 30 | 40 | +0.4 |
| 20.1 | 40 | +0.2 | 40.1 | 60 | +0.6 |
| 20.1 | 60 | +0.4 | 60.1 | 80 | +0.8 |



DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

~~NONFLOATING AID~~ LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~

STRIKE OUT ONE

Little Egg Inlet, N. J. 7 March, 1955

I recommend that the following objects which have *(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 D. G. Rushford

Harold J. Seaborg Chief of Party.

| STATE | CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION | | | | | | METHOD OF LOCATION SURVEY NO. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|-------|---------------|-----------------------------------|-------------|----------|------|-----------|------|-------|--------------|-------------------------------|------------------|--------------|---------------|----------------|-----------------|
| | | | | LATITUDE | | LONGITUDE | | DATUM | | | | | | | |
| | | | | ° | ' | ° | ' | | D. P. METERS | | | | | | |
| | SHACK | Small fisherman's shack | HAK | 39-28 | 1385 | 74-23 | 17 | 1927 | Photo CS-373 | 1954 | X | | | 826 | |
| | SHACK | Small fisherman's shack | TOP | 39-28 | 1740 | 74-21 | 1099 | " | " | " | X | | | " | |
| | HOUSE | Permanent white house | FIG | 39-28 | 442 | 74-19 | 1019 | " | " | " | X | X | | 826 1216 | |
| | END POLE | Last of a line of telephone poles | END | 39-31 | 695 | 74-17 | 1151 | " | Topo CS-373 | 1935 | X | | | 826 | |
| | | | | | | | | | | | | | | | |
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

INITIAL CORR

SH. BN-2154

V

| Day | From | To | Corr | Day | From | To | Corr |
|-----|------------|------|------|-------|-------|-------|------|
| A | 1 | 43+1 | 0.0 | K | 1 | 20 | 0.0 |
| | 43+2 | 57 | -0.2 | | 20+1 | 50 | -0.2 |
| B | 1 | 80 | 0.0 | | 50+1 | 142 | 0.0 |
| | 81 | 167 | +1.0 | | 142+1 | 143+2 | -0.2 |
| C | ENTIRE DAY | | 0.0 | | 143+3 | 145+2 | -0.4 |
| | | | | | 145+3 | 147 | -0.2 |
| D | 1 | 26 | 0.0 | | 148 | 152 | 0.0 |
| | 27 | 32+4 | -0.2 | | 152+1 | 153 | -0.4 |
| | 32+5 | 192 | 0.0 | | 153+1 | 153+3 | -0.6 |
| E | ENTIRE DAY | | 0.0 | | 153+4 | 156 | -0.8 |
| | | | | | 156+1 | 156+2 | -0.6 |
| F | ENTIRE DAY | | 0.0 | | 156+3 | 156+4 | -0.4 |
| | | | | | 156+5 | 157 | -0.2 |
| G | 1 | 48 | 0.0 | | 158 | 160+5 | 0.0 |
| | 48+1 | 58 | +0.2 | | 161 | 161+2 | -0.2 |
| | 58+1 | 68 | +0.4 | 161+3 | 161+4 | -0.4 | |
| | 68+1 | 77 | +0.6 | 161+5 | 162+2 | -0.6 | |
| | 77+1 | 86 | +0.8 | 162+3 | 162+4 | -0.4 | |
| | 87 | 153 | 0.0 | 162+5 | 164 | -0.2 | |
| H | ENTIRE DAY | | 0.0 | 165 | 168 | 0.0 | |
| | | | | | | | |
| J | 1 | 15 | 0.0 | L | 1 | 3 | -0.2 |
| | 15+1 | 18 | -0.2 | | 3+1 | 6 | -0.4 |
| | 18+1 | 25 | -0.4 | | 6+1 | 8 | -0.6 |
| | 25+1 | 31 | -0.2 | | 8+1 | 10 | -0.8 |
| | 31+1 | 39 | 0.0 | | 10+1 | 12+4 | -1.0 |
| | 39+1 | 40 | -0.2 | | 12+5 | 54 | 0.0 |
| | 40+1 | 46 | -0.4 | | 54+1 | 56 | +0.2 |
| | 46+1 | 48+4 | -0.8 | | 56+1 | 58 | +0.4 |
| | 48+5 | 80 | 0.0 | | 58+1 | 60 | +0.6 |
| | 81 | 82 | +0.2 | | 60+1 | 62 | +0.8 |
| | 82+1 | 84 | +0.4 | | 62+1 | 63+2 | +1.0 |
| | 84+1 | 86 | +0.6 | | 63+3 | 127 | 0.0 |
| | 86+1 | 89 | +0.8 | | 127+1 | 130 | +0.2 |
| | 89+1 | 93 | +1.0 | | 131 | 147 | 0.0 |
| | 94 | 153 | 0.0 | | | | |

INITIAL CORR. ✓

SH. BN. 2154

| Day | From | To | Corr | Day | From | To | Corr. |
|-------|------------|-------|------|-----|------|----|-------|
| M | 1 | 27 | 0.0 | | | | |
| | 28 | 33 | -0.2 | | | | |
| | 33+1 | 47 | 0.0 | | | | |
| | 48 | 54 | -0.2 | | | | |
| | 55 | 123 | 0.0 | | | | |
| | 123+1 | 131 | -0.2 | | | | |
| N | ENTIRE DAY | | 0.0 | | | | |
| P | 1 | 102 | 0.0 | | | | |
| | 103 | 112 | -1.0 | | | | |
| | 113 | 125 | 0.0 | | | | |
| | 125+1 | 129+3 | +0.2 | | | | |
| | 129+4 | 139 | 0.0 | | | | |
| | 139+1 | 145 | +0.2 | | | | |
| | 145+1 | 188 | 0.0 | | | | |
| | 188+1 | 190 | -0.2 | | | | |
| | 190+1 | 192 | -0.4 | | | | |
| | 193 | | -0.6 | | | | |
| | 194 | 195+4 | -0.8 | | | | |
| | 195+5 | 197 | -1.0 | | | | |
| | 197+1 | 202 | 0.0 | | | | |
| 202+1 | 205 | -0.2 | | | | | |
| Q | 1 | 32 | 0.0 | | | | |
| | 32+1 | 38+5 | -0.2 | | | | |
| | 39 | 137 | 0.0 | | | | |

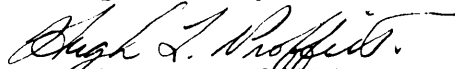
NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8222, (Field No. Bn-2154)

GENERAL

This appears to be an excellent basic survey and no unusual conditions were encountered during the smooth plot.

Respectfully submitted,



Hugh L. Proffitt
Cartographer.

Norfolk, Va.
27 Jan. 1958

GEOGRAPHIC NAMES

Survey No. H-8222

| Name on Survey | Source | | | | | | | | | | |
|-------------------------|--------|---------|---|---|---|---|---|---|---|--|----|
| | A | B | C | D | E | F | G | H | K | | |
| <u>New Jersey</u> | | (title) | | | | | | | | | 1 |
| <u>Little Egg Inlet</u> | | | | | | | | | | | 2 |
| <u>Brigantine Inlet</u> | | | | | | | | | | | 3 |
| <u>Beachhaven Inlet</u> | | | | | | | | | | | 4 |
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Names approved 2-10-58
L. Heck

Hydrographic Surveys (Chart Division) ✓

HYDROGRAPHIC SURVEY NO. .8222...

Records accompanying survey:

Boat sheets ..1✓; sounding vols. .9✓; wire drag vols.; bomb vols.; graphic recorder rolls 10✓ Envelopes ✓ special reports, etc. 1-Smooth sheet ✓ 1-Descriptive report ✓ and 23-Form 524. Description of Recoverable Topo. Stations.....

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

| | | |
|---|------------|-----------------|
| Number of positions on sheet | | 2087 |
| Number of positions checked | | 185 |
| Number of positions revised | | |
| Number of soundings revised (refers to depth only) | | 122 |
| Number of soundings erroneously spaced | | 0... |
| Number of signals erroneously plotted or transferred | | 0.... |
| Topographic details | Time | 1 hr. |
| Junctions | Time | 26 hrs. |
| Verification of soundings from graphic record | Time | 4 hrs. |
| Verification by <i>WCR sig</i> | Total time | 15 1/16 hrs |
| | Ver. | Date Sept 23/58 |
| Reviewed by <i>W. H. Shaw</i> | Time | 36 |
| | Date | 15 Jan 1959. |

2- Sounding of 13' between Positions
26C AND 27C considered stray
by Mr. R. H. CARSTENS of Hydrographic
Section - ERASED FROM S-S. tho left in Volume.

W. R. P.

5800

391

551

2

33

3000

3900

12/10/1911

W. R. P.

DIVISION OF CHARTS
REVIEW SECTION - NAUTICAL CHART BRANCH
REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8222

FIELD NO. BN-2154

New Jersey, Approaches to Little Egg Inlet

Surveyed: August-October 1954

Scale 1:20,000

Project No. CS-373

Soundings:

Control:

808 Depth Recorder

Sextant fixes on shore
signals

Chief of Party - H. J. Seaborg

Surveyed by - H. J. Seaborg and J. R. Plaggmier

Protracted by - A. Kaupa

Soundings plotted by - A. Kaupa

Verified and inked by - W. E. Roig

Reviewed by - L. S. Straw

Date 15 January 1959

Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with T-9501 S (1950-52), T-9502 N and S (1950-51), and T-9505 N and S (1950-52), and with subsequent revisions shown in red from hydrographic surveys H-8220 (1954) and H-8221 (1954).

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

2. Sounding Line Crossings

The depths at sounding line crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated.

The bottom is sand and generally smooth beyond the 30-foot curve, but contains 5- to 10-ft. ridges in the changeable inshore areas.

4. Junctions with Contemporary Surveys

The junctions with H-8219 (1954), H-8220 (1954), and H-8221 (1954) on the west are adequate.

In accordance with the Project Instructions the present survey was extended sufficiently into the area covered by prior survey H-6271 (1937) to make a satisfactory junction on the north, east and south. Junctional soundings, except for the major portion on one line at the eastern limit of the present survey from lat. $39^{\circ} 27'$ to lat. $39^{\circ} 33'$ were transferred from H-6271 (1937) to H-8222 (1954). Many of the soundings not transferred on this line are only 1 foot shoaler than the depths on the present survey. Their omission entails no loss of useful information for charting purposes.

5. Comparison with Prior Surveys

- a. H-101 (1844) H-670 (1859)
 H-111 (1841) H-1158b (1874)
 H-112 (1841) H-1558 (1882-83)
 H-116 (1843) H-2693 (1904)

These prior surveys have been compared with and are superseded by basic 1935-37 surveys which are discussed in the following paragraph. Further consideration of the earlier surveys is considered unnecessary in the present review.

- b. H-6145 (1935-36), H-6271 (1937)

Differences in depths between these prior surveys and the present survey are from 2 to 5 feet. The places of greatest change are opposite Little Egg Inlet and Beachhaven Inlet from the 12- to the 18-foot curves as would be expected in this changeable area. The shoals offlying the 30-foot curve, however, have changed little in depth or configuration. The depths at the outer limits of the present survey are in reasonable agreement with H-6271 (1937). The present survey is adequate to supersede the prior surveys within the common area.

- c. Wire Drag Investigations H-6343 (1938), H-6461 (1939), and Field Examination No. 3 (1951).

Present depths are in harmony with the effective depths shown on the 1938-39 wire-drag surveys and F.E. 3 (1951). Five soundings resulting from the drag work have been carried forward to the present survey. Six sounding lines run in June and July 1950 on F.E. No. 3 (1951) fall partially within the limits of the present survey at approximate lat. $39^{\circ} 28'$, long. $74^{\circ} 17'$. The soundings are from 1 to 2 feet shoaler than present depths. A comparison of depths in this immediate vicinity shows that the bottom has deepened during the 4-year interval between surveys, therefore the present well developed survey supersedes these soundings.

6. Comparison with Chart 826 (latest print date 6-16-58)
1216 (latest print date 8-19-57)
1217 (latest print date 11-3-58)

A. Hydrography

The charted hydrography originates with critical information from the present survey applied before verification and review together with pertinent information previously charted from prior work discussed in paragraph 5b and c above. As a result of verification and review the 13-foot sounding charted from the present survey in lat. $39^{\circ} 25.06'$, long. $74^{\circ} 19.33'$ was considered a stray and therefore rejected. (Paragraph J in the Descriptive Report.)

B. Aids to Navigation

The charted aids to navigation are in substantial agreement with the present survey except the lighted BW BELL "LE" buoy in lat. $39^{\circ} 28.1'$, long. $74^{\circ} 15.82'$ which is charted about 200 meters north of its location at the time of the present survey. However, all charted buoys adequately mark the features intended.

7. Condition of Survey

- a. The sounding records and the Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.


8. Compliance with Project Instructions

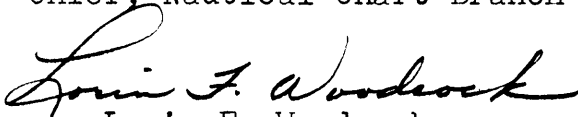
The survey adequately complies with the Project Instructions.

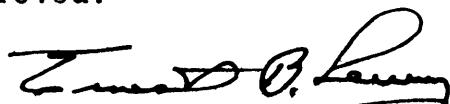
9. Additional Field Work Recommended


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

Examined and approved:


Max G. Ricketts
Chief, Nautical Chart Branch


Lorin F. Woodcock
Chief, Hydrography Branch


Ernest B. Lewey
Chief, Division of Charts


Samuel B. Grenell
Chief, Division of Coastal Surveys

V

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

27 February 1958

Plane of reference approved in
9 volumes of sounding records for

HYDROGRAPHIC SHEET 8222

Locality Little Egg Inlet, N.J.

Chief of Party: H. J. Seaborg in 1954

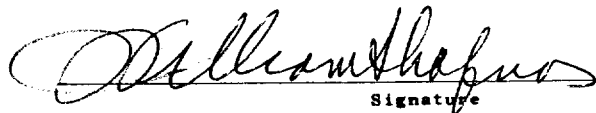
Plane of reference is mean low water, reading
4.3 ft. on tide staff ~~at~~ of 1922 at Atlantic City
12.1 ft. below B.M. 34 (1922)

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

Condition of records satisfactory except as noted below:

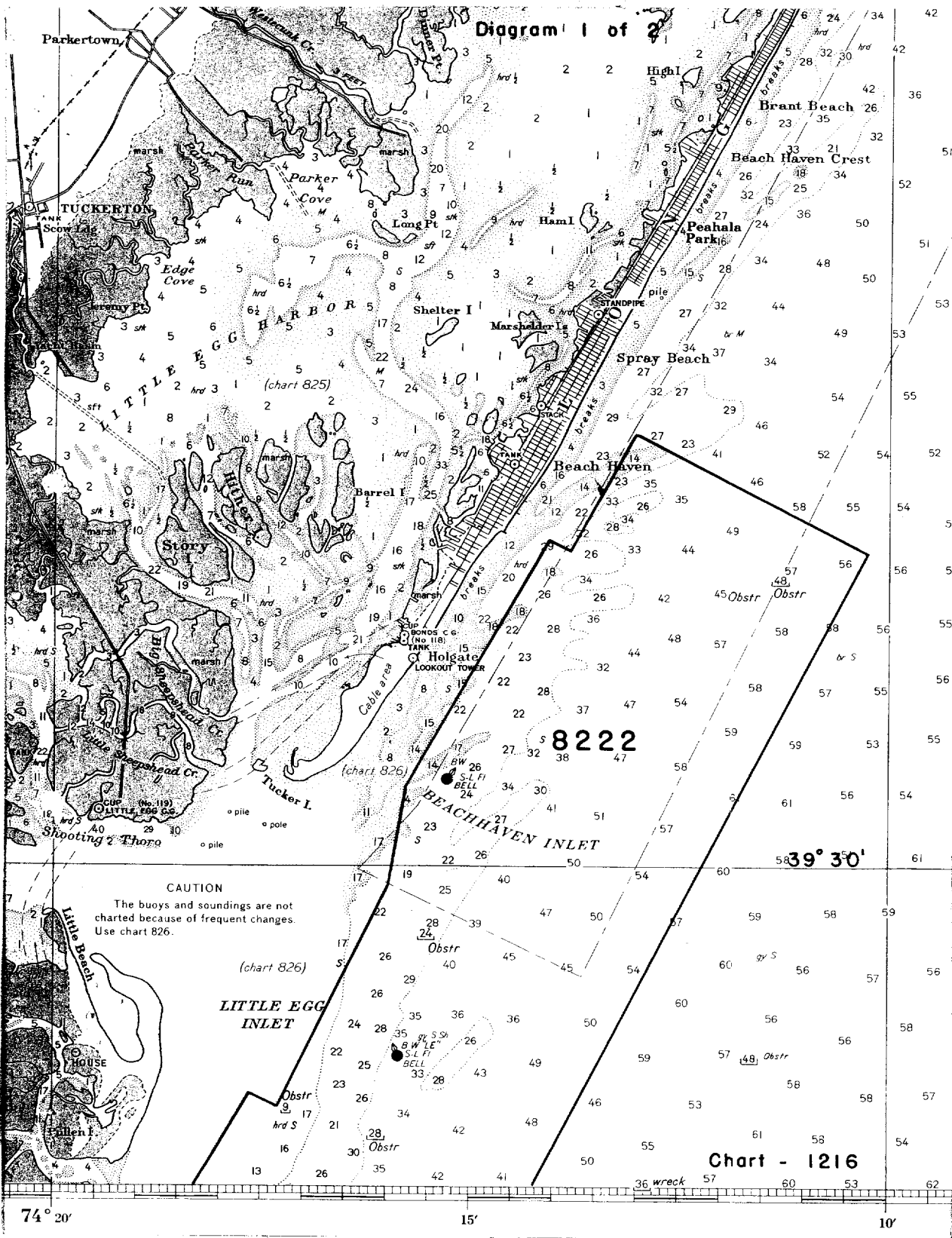
NOTE: Tide reducers for the positions listed below have been revised in red and verified.

| <u>Vol.</u> | <u>Positions</u> |
|-------------|------------------|
| 1 | 1A - 57A |
| 6 | 91J - 153J |


Signature

Chief, Tides Branch

Diagram 1 of 2



NAUTICAL CHARTS BRANCH ✓

SURVEY NO. H-8222

Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|---------|--------|---------------------|--|
| 2-4-58 | 826 | M ^r Gunn | Before After Verification and Review <i>Completely</i> |
| 5/14/58 | 1217 | McGann | Before After Verification and Review <i>Partially applied.</i> |
| 5/22/58 | 1216 | McGann | Before After Verification and Review <i>Partially applied.</i> |
| 1-30-59 | 826 | Albert | Before After Verification and Review <i>Completely</i> |
| 2-2-59 | 1216 | Albert | Before After Verification and Review <i>Completely</i> |
| 2-3-59 | 1217 | Albert | Before After Verification and Review <i>Completely</i> |
| 2-25-60 | 1108 | E. E. Thomer | Before After Verification and Review <i>Completely applied.</i> |
| 6-4-63 | 826-SC | Kennon | Before After Verification and Review |
| | | | Before After Verification and Review |
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| | | | Before After Verification and Review |

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.

cht 841-49

Stack 2 men shot
House 5