0000

| Diag | Cht | No. | 1215-3 | 3 |
|-------|-------|------|--------|---|
| DTGE. | OIIO. | 7100 | 1-A-1- | _ |

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

| Type of Survey HYDROGRAPHIC | | | | | | | |
|---------------------------------------|--|--|--|--|--|--|--|
| Field No. LISP-1550 Office No. H-7800 | | | | | | | |
| LOCALITY | | | | | | | |
| State NEW YORK | | | | | | | |
| General locality GREAT SOUTH BAY | | | | | | | |
| Locality FIRE ISLAND INLET | | | | | | | |

194 ..50

CHIEF OF PARTY

I. T. Sanders

LIBRARY & ARCHIVES

DATE AUGUST 6, 1951.

B-1870-1 (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-7800

Field No. LISP-1550

| StateNEW YORK |
|---|
| General locality <u>LONG ISLAND</u> |
| Fire Is land Inlet |
| Locality |
| Scale 1:10,000 Date of survey 26 Aug 29 Oct. 1950 |
| Instructions dated 7 March 1949; Supp. 11 Apr. and 9 May 1950 |
| Vessel Hydro skiff; C.G. Picket Boat # 30343; C.G. Life Boat #36471 |
| Chief of party Ira T. Sanders |
| Surveyed by John Laskowski and M.E.Natto |
| Soundings taken by #######, graphic recorder, hand lead, ####pole |
| Fathograms scaled by Party personnel |
| Fathograms checked by Norfolk Processing Office & Field Personnel |
| Protracted by |
| Soundings penciled by |
| Soundings in ################################### |
| REMARKS: This survey was smooth plotted by the Hydrographic Section |
| of the Norfolk Processing Office. |
| |
| |
| |
| |

. s. government printing office 777032

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET H-7800 (FIELD NO. LISP-1550)

GREAT SOUTH BAY LONG ISLAND NEW YORK

LONG ISLAND SHORE PARTY IRA T. SANDERS, CHIEF OF PARTY

PROJECT CS-337 1950 SCALE 1:10,000

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

SURVEY LIMITS AND DATES: This survey covers that portion of Great South Bay extending westward from W. Long. 73° 17.7° to W. Long. 73° 22.0°, including the seaward entrance at Fire Island Inlet. The northern limit extends to the head of navigation in the various rivers and streams. Junctions were made at the western limit with Hydrographic Sheet H-7799, 1950, Scale 1:10,000 and at the eastern limit with Hydrographic Sheet H-7801, 1950, Scale 1:10,000. The field work was accomplished between 26 August and 29 October. Work on other sheets was carried on in conjunction with this survey. With H-7816 (1950) on the south.

VESSELS AND EQUIPMENT: Hydrographic Skiff No.717, propelled by two Johnson 10 H.P., outboard gearshift motors; C. G. Picket Boat No. 30343 and C. G. Life Boat No. 36471, were used for sounding. The Coast Guard furnished two men to operate their boats. The Coast Guard boats were used to sound part of the seaward entrance to Fire Island Inlet. The hydrographic skiff, used on the rest of the survey, was equipped with Fathometer No. 139 SPX. Fathometer No. 138 SPX was used with the Coast Guard boats. The transmitters and receivers were mounted inboard.

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

SMOOTH SHEET: The smooth sheet will be plotted by the Norfolk Processing Office.

CONTROL STATIONS: Triangulation as previously established was used for control. Several triangulation stations were reworked on account of their poor condition. Photogrammetric stations were transferred from Air Compilation Sheets T-9298 and T-9300. Hydrographic stations were established as necessary. Their positions were determined by sextant fixes at each station site.

SHORELINE AND TOPOGRAPHY: The shoreline and topographic details were transferred from Air Compilation Sheets T-9298 and T-9300. Changes in shoreline are shown on the boat sheet by a dotted ink line. It is suggested that the Long Island State Park Commission be requested to furnish some photographic prints from their 1950 files, showing the missing shoreline details eastward of Democrat Point.

SOUNDINGS: Soundings were obtained with the fathometer, hand lead, and pole. Bottom samples were taken with an armed lead or pole.

CONTROL OF HYDROGRAPHY: The three-point sextant fix method was used to control most of the survey. In the upper reaches of creeks and channels, where control was lacking, positions of sounding lines were referred to distinctive topographic details. Appropriate notes in such cases were entered in the sounding records.

ADEQUACY OF SURVEY: This survey is complete and considered adequate to supersede prior surveys. The junctions with adjoining surveys are satisfactory. The depth curves also join satisfactorily.

CROSSLINES: Crosslines were run as required by the instructions.

COMPARISON WITH PRIOR SURVEYS: Comparison with a recent print of the largest-scale chart of the area follows:

COMPARISON WITH CHART: #578 (Print date 2-6-50)

| | itude 40.05' | _ | ongitude 21.30' | 1950 <u>Survey</u> Feet 6-10 4-8 | Charted Feet 3 | Remarks Dredged channel into of Review. Neguntatogue Creek. |
|----|-----------------|----|--------------------|--|----------------------|---|
| 40 | 40.2 € | 73 | 20.75 | 4 17 | √Wreck - | Delete. Nonexistent of Review |
| 40 | 40.48 | 73 | 20.27 | ¥2- | Wreck | Delete. Nonexistent of Review |
| 40 | 39.6% | 73 | 20.50 | 4 | 2 ′ | Also area to eastward on 1950 survey shows 4-5-ft. depths where 2-3-foot depths are charted. |
| 40 | 38.80 | 73 | 20.10 | Channel 6-ft.depth | | Dredged channel. Outer sdg. lines approx. 3 m. from channel sides. |
| 40 | 37.60 | 73 | 18.37 | Wreck / | | BaresaatMH.W. L. |
| 40 | 37.18 | 73 | 19.10 | Submerged w | reck | Coast Guard stated wreck was barge with 8 ft. water over it. Approx. 50 m. N. of buoy see # 70 of Review. |

Changes at Fire Island Inlet and approaches have been so extensive that no comparison is made with the chart.

DANGERS AND SHOALS: None to report. -

COAST PILOT INFORMATION: Submitted to the office at the close of the field season.

AIDS TO NAVIGATION: Submitted to the office as a special report. A copy of the list of aids on this sheet is appended to this report.

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

MISCELLANEOUS: Vessels should not attempt to enter Fire Island Inlet without prior local knowledge. In rough weather breakers extend across the whole entrance. The bottom of the inlet is composed of fine, yellow sand.

John Laskowski, Cdr., C&GS

STATISTICS TO ACCOMPANY

HYDROGRAPHIC SHEET H-7800 (FIELD NO. LISP - 1550)

SKIFF NO. 717

| ate 1950 | Day Ltr. | Vol. No. | H.L. and Pole Sdgs. | No. of Positions | Stat. Miles Sdgs. |
|-------------------|---------------|------------------|---------------------|---------------------|---------------------|
| 9 Aug7 Nov. | , a | 1 | 57 | 56 | May divid your want |
| 29 Aug. | Ъ | | ******* | 47 | 7.8 |
| 30 " | c | 2 2 | | 74 | 7.1 |
| 31 " | d | 2&3 | | 78 | 11.8 |
| 1 Sept. | е | 3 | | 78 | 12.8 |
| 5 " [*] | f | 3&4 | | 151 | 24.1 |
| 5 " 6 " | g | 4 5 5 6 | | 105 | 14.9 |
| 7 " | g h | 5 | | 48 | 7.2 |
| 8 11 | . k | , 5 | | 129 | 17.9 |
| 13 " | k | 6 | - | 129 | 17.3 |
| 14 " | 1 | 6&7 | 1 | 103 | 10.3 |
| 18 " | m | 7 | | 29 | 4.3 |
| 19 " | n | 7 7 7 | *** | 39 | 4.8 |
| 20 " | . p | 7 | 2 | 2 45 | 0.0 |
| 21 " | q | 7 | | 45 | 4.7 |
| 22 " | r | 8 | | 13 | 2.2 |
| 25 " | s | 8 | 10 | 88 | 9.8 |
| 26 " | t | 8 | , | 41 | 6.3 |
| 27 " | u | 8&9 | · — , | 59 | 8.3 |
| 28 " | v | 9&10 | 1 | . 176 | 26.0 |
| 29 " | W | 10 | | 11 | 2.2 |
| 2 Oct. | x | 10 | | 14 | 1.9 |
| 4 " | У | 10&11 . | 116 | 110 | 15.5 |
| 4 " 5 " 6 " | Z | 11 | 124 | . 190 | 30.2 |
| 6 " | aa | 12 | | 35 | 4.2 |
| 9 " 10 " | ba | 12 | | 40 | 2.7 |
| 10 " | ca | 12&13 | | 117 | 18.5 |
| 19 " | da. | 13 | ' | 25 | 2.5 |
| 20 " | e a | 13 | | 4 | 0.8 |
| 23 " | fa | 13&14 | | 119 | 18.5 |
| 27 " | ga | 14 | | 140 | 17.9 |
| 30 " | ha | 14 | | 22 | 3.0 |
| 1 Nov. | ja | 15 | | 15 | 1.4 |
| <u> 11</u> | ka. | 15 | | 97 | 12.3 |
| Totals | 34 | 15 | 311 | 2429 | 329.2 |

U. S. COAST GUARD RESCUE BOAT #30343

| Date 1950 | (Blue Day Ltr.) | Vol. No. | H. L. and Pole Sdgs. | No. of Positions | Stat. Miles Sdgs. |
|-----------------|-----------------------|-----------|----------------------|------------------------|-------------------|
| 16 Oct. | a | 16 | · | 69 | 13.5 |
| 17 " | Ъ | 16&17 | | 118 | 21.7 |
| Totals | 2 . | | | 187 | 35.2 |
| 26 Oct. | c | U. S. COA | ST GUARD LIFEBO | AT #36471 70 | 12.1 |
| Grand Totals | 37 | 17 | 311 | 2686 | . 376.5 |

FLOATING AIDS TO NAVIGATION

H-7800

| Name | Latitude | Longitude | Depth | Pos. No. | Date |
|--|----------|-----------|-----------------|-------------------|---------|
| Oak Island Channel Entrance Ltd. Buoy 7 | 40-40.14 | 73–18.25 | 7½ ft. | 1 1 | 9/14/50 |
| Fire Island Inlet Buoy 12 | 40-38.21 | 73–18.56 | 15 | l p | 9/20/50 |
| Fire Island Inlet Ltd. Buoy 10 | 40-37.98 | 73-19.05 | 15 | 2 p | ti |
| Fire Island Inlet Buoy 8 | 40-37.67 | 73–18.78 | 11 | 16 s | 9/25/50 |
| Fire Island Inlet Buoy 5 | 40-37.62 | 73–18.78 | 15 | 17 s | 11 |
| Fire Island Inlet Ltd. Buoy 6 | 40-37.58 | 73-18.71 | 18 | 18 s | 11 |
| Fire Island Inlet Buoy 3 | 40-37.36 | 73–18.86 | 20년 | 19 s | 11 |
| Fire Island Inlet Buoy 4 | 40-37.21 | 73–18.82 | 15호 | 20 s | II . |
| Fire Island Inlet Buoy 2 | 40-37.03 | 73–18.85 | 16½ | 21 _. s | II |
| Fire Island Inlet Ltd. Buoy l | 40-37.00 | 73-18.93 | 24 ¹ | 22 s | 11 |
| Fire Island Inlet Ltd. Bell Buoy | 40-36.78 | 73–18.98 | 37½ | 23 s | n |
| Fire Island Breakwater Gong Buoy 4A | 40-37.10 | 73–18.42 | 25½ | 24 s | 11 |
| Fire Island Inlet Ltd. Wreck Buoy WRI | 40-37.15 | 73-19.12 | 23 | 80 s | 11 |

TIDE NOTE TO ACCOMPANY

HYDROGRAPHIC SURVEY H-7800 (FIELD NO. LISP-1550)

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

| STATION | LATITUDE | LONGITUDE | MLW ON STAFF |
|--------------------------------|------------|------------|--------------|
| Babylon | 40° 41.10' | 73° 18.90' | 2.8 Feet |
| Gilgo Heading | 40 37.16 | 73 23.73 | 4.6 " |
| Neguntatogue Creek | 40 40.16 | 73 21.41 | 2.8 " |
| Oak Beach (Fire Id. Inlet) | 40 38.28 | 73 17.54 | 2.0 " |
| Oak Beach (Great South Bay) | 40 38.43 | 73 17.87 | 2.2 " |

APPROVAL SHEET

to

ACCOMPANY

DESCRIPTIVE REPORT

FOR

SHEET H-7800

PROJECT CS-337

1950

This boat sheet and its accompanying records were examined and approved by me daily during the progress of the field work.

The smooth sheet will be plotted by the Norfolk Processing . Office.

From close examinations of the sheet, including the drawing of depth curves, it is believed that the survey of the area covered is complete and adequate. The seaward approaches of Fire Island Inlet, as outlined in the Instructions, are shown on this sheet. This area is subject to constant change, often rapid and radical during storms. The beach-erosion study sponsored by the Long Island State Park Commission includes several profiles from the low-water line to the 5- and 10-fathom curves in this area. It is suggested that these additional data be considered when the results of this survey are shown on the charts.

The commercial and party-boat fishermen operating from South Oyster Bay and Great South Bay ports complain bitterly about the condition of Fire Island Inlet and its approaches.

Triangulation Station DRAKE 1933, which had been destroyed during the construction of Captree State Park Highway was reestablished as DRAKE 2, 1933-1950. Two of the original reference marks had not been disturbed, and were used for references to the new station.

For a general description of the terrain covered by this sheet reference is made to the Field Inspection Report Project Ph-54(49)C dated January 1950. It should be noted that this report emphasizes that the strip of barrier sand beach extending eastward from Democrat. Point has become known locally as Fire Island. Because Chart No. 578 shows a group of islands, the largest of which are called East Fire Island and West Fire Island, respectively, local usage is somewhat confusing.

Ira T. Sanders Chief of Party

LIST OF SIGNALS

HYDROGRAPHIC SHEET H-7800 (FIELD NO. LISP-1550)

TRIANGULATION STATIONS

| BABY | BABYLON, TANK, 1933 |
|-------|------------------------------------|
| CAP | CAP, 1933 |
| COVE | BABYLON COVE, FLAG POLE, 1933 |
| FLEET | FLEET, 1933 |
| LIFE | LIFE, 1933 |
| LIND | LINDENHURST, H.S., CUPOLA, 1933 |
| OAK | OAK ISLAND SQUARE TOWER, 1933 |
| SPIRE | BABYLON, PRESB. CHURCH SPIRE, 1933 |
| TANK | LINDENHURST, TANK, 1933 |
| | |

TOPOGRAPHIC STATIONS

| | ALP -70 | Tower (flagstaff) 1949. Desc. (Form 524) Rec. Topo. Sta. D |
|---|------------------|---|
| 1 | BUSS_CBUZZZ | Tower (flagstaff) 1949. Desc. (Form 524) Rec. Topo. Sta. Described (Form 524) Rec. Topo. Sta. 1950 DM |
| ✓ | CON | R.M. #1, Conklin Pt. 3, 1933 DM |
| J | DIPP | Described (Form 524) Rec. Topo. Sta. 1950 DM |
| 1 | FIRE | Breakwater Light, 1950, Desc. (Form 524) Rec. Topo. Sta. $\mathcal D$ |
| J | LET | Fire Island Inlet Light 17, 1950. Desc. (Form 524) Rec. Topo. |
| | RATE AND AND AND | B&W Banner - 15.35 meters toward Topo. Sta. ALP from |
| | 70313. | Triangulation Sta. DEMOCRAT, 1949 (Vol. 1, page 5) |
| Ĺ | Tow | Tower, 1949 (Wood Tower, 50 ft. high) T-9300 G |

TOPOGRAPHIC (PHOTOGRAMMETRIC) STATIONS

| | Sheet No. | No. 025 | |
|-----|-----------------|------------|--|
| DOC | 9298 | 025 | |
| EVA | 9300 | 053 | |
| INK | 9298 | 033 | |
| IVY | 9298 | 024 | |
| LEO | 9300 | 034 | • |
| LIZ | 9300 | 051 | • |
| OLD | (Vol. 1, p. | 5) | On T-9300 as control without number |
| | | | or description. (Wreckage pg. 5, Vol. 1) |
| POT | 9300 | 052 | |
| PEP | 9298 | 032 | |
| VEX | 9298 | 030 | |
| | | | |

PHOTOGRAMMETRIC STATIONS

(Selected by Hydrographic Party from Sheets T-5605, T-9300, T-0298)

```
S. gab., White ho., Green roof
So. Gable yellow house, dark roof
CUE ----
ADD ----
                N.E. Gable white house, green roof
ANT ----
                E. Gable white shack, dark roof
ASK ----
BAT ----
                E. Flagpole, Cedar Beach bathhouse (Vol. 1, p. 7)
                S. Gable, white house, blue roof.
BOB ----
                W. Gable, white house, green roof
BOX ----
                N.W. Gable, gray house, red roof
BUT -----
CAB -----
                Chimney W. end house, white sides, dark top
                S. Gable, green shed, dark roof
COP ----
                Center, pyramid roof, green top, white sides
END ----
                N. W. Gable, white house
FAR ----
                E. Gable, Brown house, white trim
FEZ ----
FOX -----
                S. W. Gable, Brown house, green trim
FUN ----
                 S. Gable House, dark roof white sides
                Chimney center, dark house, top above tree tops
GOB ----
HIS ----
                 S. E. Gable, white building
HOE ----
                Easterly corner of bulkhead
                 Chimney center of house, shingle sides, green roof
IDA ----
                 Center pyramid roof, glass sides at top
JAP -----
JIM -----
                 B&W Banner, N. corner Finger pier
JOE ----
                 S. Gable brown house, White trim
KID ----
                 Chimney, W. end white house, dark roof
                 N.W. Gable, brick house, dark roof
NEW ----
PIN -----
                 Black and white banner, south end bulkhead
ROY -----
                                  " , E. corner bulkhead
                 S.E. Gable, shingle house
SIR -----
                 W. Gable, yellow shed, green roof
SIS -----
                 S. Gable, seaplane hanger, wind sock
SKY -----
                 S. Gable, white house, green trim
SUE ----
                 W. Gable, shingle house, orange trim
TAX ----
                 Black and white banner, S. corner bulkhead
VET -----
                 Oak Beach Inn, chimney east end white building, red roof
WHO ----
                 Chimney, center of yellow house
WAR -----
                 N. E. corner Cedar Beach Bath House
YES ----
                 S. E. Gable, brown house, yellow trim
Z00 ----
EGG ----
                 E. Gab. Wh. shed, green trim
                    HYDROGRAPHIC STATIONS
```

| AMY | Located | on Sheet | H-7799 (Vol. 1, page 9) |
|-----|---------------|------------------|--|
| ART | II | | и (ии, и 8) |
| DUB | Vol. 1, | | Center of comfort station. |
| EAR | 11 11, | n 8, | rear range, white slats |
| GAS | 11 11, | | southwest corner of bulkhead |
| IRA | 11 11 | " 5, | temporary black and white tripod |
| JIG | и п, | ¹¹ 6, | red rear range |
| MAN | 11 11, | " 16, | black and white banner on E. side slip |
| | | | entrance (temporary) |
| NUT | · II II , | " 6, | Red rear range |
| ODD | 11 11, | " 16, | Black and white front range |
| PUP | 11 11 | | Channel marker, no number |
| SAD | Located | on Sheet | H-7799 (Vol. 1, page 15) |
| TOM | Vol. 1, | page 8, 1 | Front range, red slats |

FATHOMETER CORRECTIONS

HYDROGRAPHIC SURVEY H-7800 (FIELD NO. LISP-1550)

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

HYDRO SKIFF

FATHOMETER NO. 139 SPX

29 August - 6 November

| | | | | | De | ept | th | | | |
|------|---|-----|----|-----|----|-----|-----|----|-----|-----|
| Corr | - | | - | | - | | - | | | |
| • • | • | .Fe | et | ٠. | • | • | • | • | | |
| +1.0 | | | _ | | 0 | _ | 3. | 0 | | |
| +0.8 | | | | | | | | | | |
| +0.6 | _ | - | _ | 6. | 3 | | 8. | 9 | | |
| +0.4 | | - | _ | 9. | 0 | -2 | 23. | 0 | | |
| +0.2 | | | | | | | | | | |
| 0.0 | - | _ | 3 | 35. | 6 | _ | Sc | lg | lin | iit |

C.G. BOAT NO. 30343

FATHOMETER NO. 138 SPX

16 - 17 October

C.G. BOAT NO. 36471

FATHOMETER NO. 138 SPX

26_October_

| +0.4 2.0 - 2.5 |
|-----------------------|
| +0.6 2.6 - 4.2 |
| +0.8 4.3 - 5.4 |
| +1.0 5.5 - 6.3 |
| +1.2 6.4 - 7.1 |
| +1.4 7.2 - 7.9 |
| +1.6 8.0 - 9.1 |
| +1.8 9.2 - 17.8 |
| +2.0 17.9 - 21.4 |
| +1.8 21.5 - 25.0 |
| +1.6 25.1 - 27.7 |
| +1.4 27.8 - Sdg limit |

Form 567 April 1945

DEPARTME OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TO BE CHARTED BATTAL BATTAL

STRIKE OUT ONE

NONFLOATING AIDS AND AND MARKE FOR CHARTS

Borfolk, Virginia

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

J. Laskovski

| | | | | | Kari | | _ |
|----------------------------|---|---------------------|--------------|---------------|--------------|---------------------------------------|------------------|
| CHARRING FORK, Long Island | | LATITUDE | LONGITUDE | TUD# | LOCATION | DATE R CHAP | PRE CH CHARTS |
| DESCRIPTION | | O I D. M. METERS | • | D. P. METERS | DATUM SURVEY | LOCATION | FFSHO |
| Channel Marker | Black pile 1 ft. in di | in dismeter, white | can with on | | | | |
| Park Commission | high vater. For are | d and | 7.04. | ed benined by | te arrows ; | ear top | |
| | Katon and the second | | | 365 | • | | |
| | | | | 1927 | 27 Fix | 1980 | - |
| CH 1 arroy | 7.8 | 10 - 37 1864 | 78 - 23 | 1083 | | r | |
| CM | / | 72 | | 527 | | 3 | |
| 1 | 9.8 | 20 - 26 | 73 - 21 | 23 | - | # # # # # # # # # # # # # # # # # # # | |
| Action T | 3.0 | 40 - 38 252 | 73 - 21 | 1/3 | | • | |
| OM 2 arrows | 72.00 | 40 - 38 395 | 73 - 33 | 1010 | 3 | | |
| ON (HAR) 1 ST TOY | 3 | 558 | } | 5 | | , p | |
| | • | 8 | 70 - 20 | 911 | * | 100 M | - |
| W 1 arroy | 5.2 | 10 - 38 988 986 | 73 - 20 | 2/2 | | 7 | |
| SALLOAR 2 NO. | 9.8 | 35.8 | 75 = 19 | 74 | | 1 | |
| GH 1 arrow | 5.6 | 10 - 38 11.60 60 | - | 65 | 38 | | |
| W 1 BITON | 4.9 | 1308 | 73 | 1 H3 | | . | |
| Wolfe I wo | , | } | ! ; | 1 4 5 | | 348 | |
| | | 2/67 S | 67 = 0.1 | 7,0 | | 2 | |
| World Tarrow | 8.7 | 40 - 38 1586 | 78 - 19 | # Tan | | | |
| | | | | : | | Þ | |
| nared in | 51 - 24 - 289 82 - 06 11 11 12 13 14 15 15 15 15 15 15 15 | 20 1663 | 7.5 | 963 | - | | |

U. S. GOVERNMENT PRINTING OFFICE: 1949 O - 853418

1 / 1 / Pe

DEPARTMENT)F COMMERCE U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS GREATUDINARIES FOR CHARTS

| ТО | BE | CHARTED | STRIKE | OUT ON |
|----|-----|---------------|--------|--------|
| T | 111 | PER LIMITARY. | | |

Norfolk, Virginia

5 January

. 19

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

| • | Ψ | - 2 | 1-4 |
|----|----|------|------|
| v. | La | LBKO | wski |

| | 2 of 4 | | | SHEET E | -7800 (L | ISP-1550 |) | | | Ira T. S | nders | (| Chief of Party. |
|--------|---------|-------------|---|-------------------------|----------|-------------------|----------|-------------------|------|---------------------------|----------------|----------|-----------------|
| STATE | | | | | | | POSITION | | | METHOD OF LOCATION | DATE | CHART | CHARTS AFFECTED |
| | | | | Donth | LATI | TUDE | LONG | SITUDE | N.A. | LOCATION AND SURVEY | OF LOCATION | HARBOR C | AFFECTED |
| | KC X | DESCRIPTION | | Depth Taker Vater | 0 1 | D. M. METERS | 0 1 | D. P. METERS | 1927 | No. | 1950 | HARBOR | 0 |
| Pos. N | | | , | Ft. | 40 - 38 | 1754 | 73 - 18 | 1401 | 1361 | Sextant Fix | 22 7 Se | tr | 578 |
| 27 & | | l arroy | | | 40 - 38 | 1800 | 73 - 18 | 1099 | | a | R | x | 578 |
| 28 a | COL | l arrow | | 6.3 | 90 - 20 | -1433 | 7 3 - 10 | 843 | | | | | 7/3 |
| 29 a | CIM | 1 arrow | | 5.3 | 40 - 38 | 1800 | 73 - 18 | 858 | | | | X | 578 |
| 30 a | CIN | l arrow | | 2.8 | 40 - 38 | 1798 | 73 - 18 | 537 538 | * | # | • | x | 578 |
| 31 a | | l arrov | / | 5.4 | 40 - 38 | 1783 | 73 - 18 | 221 219 | a | | | X | 578 |
| 32 a | | l arrow | / | 9.4 | 40 - 38 | 1780 | 73 - 17 | 1296 | • | | | x | 578 |
| 33 • | | l arrow | / | 5.7 | 40 - 38 | 1761 | 73 - 17 | 904 | # | # | * | x | 578 |
| 34_ a | | 1 arrow | / | 6.6 | 40 - 39 | 598 599 | 73 - 17 | 1067 | g) | | 4 | x | 578 |
| 35 a | | | / | 5.1 | 40 - 39 | 416 | 73 - 17 | 942 | ** | 4 5 | | x | 578 |
| 36 a | | l arrow | , | 4.4 | 40 - 39 | 361 | 73 - 17 | 960 | | # | II | x | 578 |
| | | l arrow | / | 4.8 | 40 - 39 | 1.33. | 73 - 17 | 816 814 | a | | a | × | 578 |
| 37 8 | | 2 arrows | / | 8.6 | 40 - 38 | 1849 | 73 - 17 | 748 | | tt | 11 | × | 578 |
| 38 8 | | · 2 arrows | 7 | 8.8 | 40 - 39 | 03 | 73 - 17 | 844 | pt . | Ħ | M | × | 578 |
| 39 t | | l arrow | / | 9.7 | 40 - 38 | 62- | 73 - 17 | 805 | # | | • | × | 578 |

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

U. S. GOVERNMENT PRINTING OFFICE: 1949 0 - 853418



DEPARTMENT F COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

| TO | BE | CHARTED | ATP. | E OU | r oni |
|------|------|--------------|------|------|-------|
| XXXX | 1111 | HART MUTCHER | (| 00 | · • |

Norfolk, Virginia

5 January

___, 19_

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

J. Laskovski

| | 3 of 4 SHRET H. | 7800 (LIS | P-1550) | | | | | ra T. Sar | nders | | Chie | f of Party. |
|--|---|--------------------------|---------|---------------|----------|-------------------|--------|---------------|------------------|-------|-------------------------------|--------------------|
| STATE | | | | | POSITION | | | METHOD OF | DATE | CHART | CHART E CHART | 1 |
| | New York , Long Island | , n | LAT | TUDE | LONG | SITUDE | H.A. | LOCATION | OF | | HORE | CHARTS AFFECTED |
| AND THE RESERVE TO TH | DESCRIPTION | Perth Parkax Valor | 0 1 | D.M.METERS | 0 1 | D.P.METERS | 1927 | SURVEY No. | LOCATION | | OFFSHORE C | |
| Pos. No. | | TT. | | 65 | | C 3 3 | | Sextant | 2000 | | | |
| 41 a | CN l arroy | 6.4 | 40 - 38 | 1659 | 73 - 17 | 594 | | Fix | 7 Sept. | | $\perp \downarrow \downarrow$ | 578 |
| 42 a | CM l arrow | 4,9 | 40 - 38 | 17 3 5 | 73 - 17 | 496 | • | • | • | x | | 578 |
| 43 a | CM 1 arrow | 7.6 | 40 - 38 | 1519 | 73 - 17 | 372 | # | * | • | x | | 578 |
| 44 a | CM 1 arrow | 7.2 | 40 - 38 | | 73 - 17 | 1 1 | | • | | x | $\perp \mid$ | 578 |
| 45 a | CN larrow | 5.3 | 40 - 38 | 1427 | 73 - 16 | 1294 | a a | | | x | | 578 |
| 46 a | CM 1 arrow | 4.8 | 40 - 38 | 1253 | 73 - 16 | 1 44 | Ħ | # | # | x | | 578 |
| 47 a | CM 1 arrow | 5.4 | 40 - 38 | 1254 | 73 - 16 | | 4 | Ħ | # | X | \perp | 578 |
| 48 a | CM larrow | 6.2 | 40 - 28 | 1134 | 73 - 16 | 863 866 | | * | | X. | $\downarrow \downarrow$ | 578 |
| 49 a | CM (FLG) 1 arrow | 8.6 | 40 - 38 | 1115 | 73 - 16 | 590 582 | | • | | x | $\perp \downarrow$ | 578 |
| 20 a | ON (FLG) 2 arrows | 7.1 | 40 - 38 | 1305 | 73 - 19 | 1 395 | ø | * | | x | $\perp \mid$ | 578 |
| 26 a | CM (FLG) 2 arrows | 6.2 | 40 - 38 | 1828 | | | a | я | # | x | | 578 |
| | LIGHT MOUNTED ON 6" SQ. PILE, ABO | UT 10 FT. | ABOVE H | igh wate | R - MAIN | TAINED B | Y TOWN | OF BEBYL | DN. | | | |
| 30 v | CARLL RIVER LT. FLG ev 3 sec. L.L. #1113.3 | 5.2 | 40 - 40 | 9 39 | 73 - 19 | 11 35 | ti | ri . | 28 5 ept. | x | | 578_ |
| 16 a | FLG ev. 3 sec. | 4.2 | 40 - 39 | 1166 | 73 - 20 | 989 | * | 44 | 5 Sept. | X | | 578 × |

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

U.S. GOVERNMENT PRINTING OFFICE: 1949 0 - 853418

DEPARTMENT F COMMERCE

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR CHARTS

| TO BE C | HARTED STRIK | E OUT ONE | | | | No | orfolk, Y | irgini | B | 5 Janr | 18 TY | | _, 19 |
|-----------------|--------------------|--|--------------|----------|--------------|------------|--------------|---------------|----------------|-------------|--------------|----------------|--------------------|
| I re charted | on (deleted from) | e following objects wh the charts indicated. have been checked aft | | | been inspe | ected from | n seaward | to dete | ermine thei | ir value as | s lan | ıdma | arks be |
| The | positions given in | lave been encered are | ci noting of | J. Laske | wski | | | | | | | | |
| | 4 of 4 | S | HEET H-7800 | (LISP_I | 1550) | | | | Ira T. Sp | nders | | | of Party. |
| | 3 04 3 | | | | | POSITION | | | METHOD | | TAN 1 | HART | |
| STATE | New York, Lon | g Island | | LAT | TUDE | LON | GITUDE | | LOCATION | DATE OF | 1 K | PE C | CHARTS AFFECTED |
| ENDOUGE | | SCRIPTION | Depth | 0 1 | D. M. METERS | 0 1 | D. P. METERS | DATUM N.A. | SURVEY No. | 1950 | HARBOR CHART | OFFSHORE CHART | AFFECIED |
| Pos. No. | NEGUNTATOQUE | CREEK LT. | 7t 5.1 | 40 - 39 | 1463 | 73 - 21 | 102 | 1927 | Sextant Fix | 6 Sept. | .x | | 578 |
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE: 1949 0-853418

DEPARTMEN OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

NOTIFICATING AIDS DROWARDS FOR CHARTS

TO BE CHARTED

STRIKE OUT ONE

Norfolk, Virginia

5 January

19 51

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

The positions given have been checked after listing by

| | of 1 SHEET F | 1-7800 (LI | 01-1220) | | | | <u>Ir</u> | a T. Sar | ders | Ch | ief of Party. |
|--------|--|--------------|------------|--------------|----------|--------------|---------------|----------|------------------|--------------------------|---------------|
| STATE | | | | | POSITION | | - | Depth | | E E | |
| 1050 | | | LATI | TUDE | Long | ITUDE | | MOCHON | DATE | ARBOR CHART ISHORE CHART | CHART |
| in Lis | | POS NO. | О 1 | D. M. METERS | О 1 | D. P. METERS | DATUM N.A. | Kater | LOCATION 1950 | HARBOI | AFFECT |
| 1114 | Oak 1. Ch. Ent. Lighted > FL G #7# ev 4 sec. | 11 12 | 40 - 40 | 272 | 73 - 18 | 363 | 1927 | 7.3 | 14 Sept. | | 578 |
| P. 718 | | lp | 40 - 38 | 378 | 73 - 18 | | # | 15.2 | | | 7/6 |
| 1059 | Pire Id. Inlet Lighted PL R "10" ev. 3 sec. | 20 | 40 - 37 | 1825 | 73 - 19 | | | 15.2 | 20 Sept. | | |
| P. 718 | Hun "8" | 16e | 40 - 37 | 1242 | 73 - 18 | | u . | 11.2 | | X | # |
| P. 718 | Can #5# | 178 | 40 - 37 | 1135 | 73 - 18 | | | 15.2 | 25 Sept. | * | ** |
| 1058 | Fire Id. Inlet Lighted FL R *6* ev. 3 sec. | 185 | 40 - 37 | 1084 | 73 - 18 | | | 18.2 | # | | # |
| P. 718 | Can #32 | 198 | 40 - 37 | 662 | 73 - 18 | | я | 20.4 | | x | |
| P. 718 | Non "A" | 20s | 40 - 37 | 410 | 73 - 18 | 1128 | | 15.4 | * | x | |
| P. 718 | Nun "2" | 21s | 40 - 37 | 60 | 73 - 18 | 1197 | | 16.4 | ¥ | | |
| 1056 | Fire Id. Inlet Lighted FL G wlm ev. 3 sec. | 225 | 40 - 37 | | 73 - 18 | | | | | | |
| 1055 | Fire Id. Inlet Lighted Bell X | 238 | 40 - 36 | | 73 - 18 | | | 24.4 | | X | 1278 |
| P. 718 | Fire Id. Breakwater Gong 4A | 245 | 40 - 37 | | 73 ÷ 18 | 596 | | 37-4 | 17 | XX | 1215 1215 |
| | FL G "RR 1" - Marks subserged | | 40 - 37 | | 73 - 19 | | | 25.4 | _ | | |
| | . wreck. | | | | 17 - 17 | 151 | | 22,8 | 4 | × | 578 |
| | form shall-be prepared in accordance w | F LOCATION | I - SEXTAI | T FIX | | | | | ł | | |

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

ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-7800 (Field No. LISP-1550)

CONTROL

Hydrographic signal RAT was plotted on cuts taken while locating adequate other signals. The position, as given on page 5, volume 1, does not check for hydrog raphý any of these cuts. All indications show the position of triangulation station Democrat, 1949 to be questionable. (See note page 5, volume 1) Plots in accordance with published G.P.

SOUNDINGS

Contrary to weather notes as recorded in sounding volumes, all indications show the bottom irregularaties on a,b & c days (blue) were mainly caused by wave action. These days were re-scanned by this Office and a mean of these irregularaties was recorded.

Cartographer.

Norfolk, Va. 30 July 1951

Approved & Forwarded:

Earl O. Heaton

Supervisor, SE Dist.

TIDE NOTE FOR HYDROGRAPHIC SHEET

BENET ST. PLYNOSPARIONS STATE 1/290 PERMIT

14 August 1951

Division of Charts: R. H. Carstens

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET

7800

Locality Great South Bay, Long Island

Chief of Party: I. T. Sanders in 1950 Plane of reference is mean low water, reading 4.6 ft. on tide staff at Gilgo Heading 14.0 ft. below B. M. 1 (1950)

- 2.8 ft. on tide staff at Neguntatogue Creek Entrance.
- 3.5 ft. below B. M. 1 (1950).
- 2.2 ft. on tide staff at Oak Beach, Great South Bay.
- 5.2 ft. below B. M. 3 (1936)
- 2.0 ft. on tide staff at Oak Beach, Fire Island Inlet.
- 6.3 ft. below B. M. 3 (1936)

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

Gilgo Heading 1.1 feet Neguntatogue Creek Entrance 0.9 foot Oak Beach, Great South Bay 0.7 foot Oak Beach, Fire Island Inlet 2.6 feet === Babylon 0.6 foot

E.C. McKay

Chief, Division of Tides and Currents.

| | GEOGRAPHIC NAMES Survey No. H-7800 | | | Salta | et Justians | | , g's | / 8 | NOC NIN P | ilos / Lis | . / |
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| i | Name on Survey | A | В | <u>/c</u> | D | E | F | <u> </u> | /н | <u>/ K</u> | |
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| | Oax Beach | | | (+i | dag | 965 | -2) | | | | 7 |
| | Oak Island | | | | | | | | | | 8 |
| | Cedar Island | | | | | | | | | | 9 |
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| | Babylon Gilgo Hending | (| 69 | 130 | | | 10 5 | 1 | \frac{1}{2} | | 27 |
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7800...

| Records accompanying survey: | | |
|--|-------------|---------------|
| Boat sheets; sounding vols17; w | ire drag | y vols; |
| bomb vols; graphic recorder rolls | 7 env., | |
| special reports, etc. ! Smooth Sheet; !Descrip | tive Repo | rt |
| · · · · · · · · · · · · · · · · · · · | • • • • • • | |
| The following statistics will be submitted wirepher's report on the sheet: | th the o | ertog- |
| Number of positions on sheet | | 2686 |
| Number of positions checked | | 29. |
| Number of positions revised | | |
| Number of soundings revised (refers to depth only) | | .46. |
| Number of soundings erroneously spaced | | 7. |
| Number of signals erroneously plotted or transferred | | 0. |
| Topographic details | Time | 32. |
| Junctions (Adjusted sdgs. on H-7870) | Time | .88. |
| Verification of soundings from graphic record | Time | 40. |
| Verification by 6.6. Samuel Total time | .313. | Date .1:21:52 |
| Reviewed by Seskind Time | 46 | Date 3-7-52 |

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7800

FIELD NO. LISP-1550

New York, Great South Bay, Fire Island Inlet

Project No. CS-337

Surveyed in Aug. - Oct. 1950

Scale 1:10,000

Soundings:

Control:

808 Fathometer Handlead Pole Sextant fixes on shore signals

Chief of Party - I. T. Sanders
Surveyed by - J. Leskowski and M. E. Natto
Protracted by - A. Kaupa
Scundings plotted by - A. Kaupa
Verified and inked by - C. B. Samuel
Reviewed by - I. M. Zeskind, 7 March 1952
Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with air-photographic surveys T-9298 (1949) and T-9300 (1950). Shoreline changes shown in red originate with the present survey.

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

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delinested.

The present survey covers Great South Bay and Fire Island Inlet. The bottom in Great South Bay is smooth except for several canals and channels dredged through shoal areas.

Marshy islands and sand flats are found in the scuthern portion of the Bay. The bottom in Fire Island Inlet is very irregular in depths less than 24 ft. and smooth in greater depths.

4. Junctions with Contemporary Surveys

Adequate junctions were effected with H-7799 (1950), on the west, and with H-7870 (1950) and H-7947 (1951) on the scuth. The junction with H-7801 (1950) on the east will be considered in the review of that survey.

5. Comparison with Prior Surveys

A. H-47 (1835) 1:40,000 H-3707 (1914) 1:20,000 H-1481a (1880) 1:10,000 H-3720 (1914) 1:5,000 H-2995 (1909) 1:10,000 H-4369 (1924) 1:10,000

These early surveys have been superseded by H-5368 (1933), H-5369 (1933), H-5370 (1933), H-5376 (1933) and H-6189 (1936) and are considered in the reviews of those surveys. Further consideration is, therefore, deemed unnecessary in the present review.

B. H-5368 (1933) 1:20,000 H-5370a (1934) 1:10,000 H-5369 (1933) 1:20,000 H-5376 (1933) 1:10,000 H-5370 (1933) 1:10,000 H-6189 (1936) 1:40,000

A comparison between the prior and present surveys reveals major changes in depths to have occurred in the vicinity of Fire Island Inlet. Here Democrat Point has moved 800 meters southwestward with the resultant changes in shoreline and bottom configuration, as for example, in lat. 40° 37.95°, long. 73° 18.41°, where a prior depth of 18 ft. falls in present depths of 2 ft., and in the vicinity of lat.
40° 37.8°, long. 73° 19.1°, where a sand bar which
formerly uncovered at mean low water, now is covered by 11-14 ft. of water. In depths greater than 30 ft. only minor differences of 1-2 ft. are noted. The north shore of Fire Island Inlet in the vicinity of let. 40° 38.25°, long. 73° 18.4°, has eroded as much as 200 meters. In Great South Bay, the greatest changes in depths between the prior and present surveys are found in the canals and dredged channels as for example, the shoaling occurring in State Channel in lat. 40° 38.66', long. 73° 19.88', where a prior depth of 24 ft. fells in present depths of 18 ft. In other areas of the bay differences in depths between the prior and present surveys are within 1-2 ft., as for example, in lat. 40° 39.75°, long. 73° 19.94°, where a prior 2-ft. sounding on H-5368 falls in present depths of 4 ft.

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

6. Comparison with Chart 578 (C.P. Drawing 6/25/52)

A. Hydrography

The charted hydrography originates principally with the previously discussed prior surveys, with the U.S. Corps of Engineers surveys of 1940, 1945, and 1946 (Bps. 34333, 40105, 41069 and 41586), chart letters 105 (1948), 318 (1948) and 135 (1950), and with the present survey after verification and the preliminary writing of the review.

The following charted soundings originating with the U.S. Corps of Engineers surveys, fall in greater depths on the present survey in Fire Island Inlet where the bottom configuration is constantly changing. The present survey is adequately developed to discredit the existence of these soundings and they, therefore, should be disregarded.

| Charted depth ft. | Lat. | Long. | Present State depth f | • |
|-------------------|------------|----------------------------------|-------------------------|--|
| 4 6 | 40° 37.26° | 73° 18.58° 73° 18.95° 73° 18.88° | 11-12 13-15 14-15 | Bp.34333(1940) Bp.41586(1946) Bp.40105(1945) |

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

B. Aids to Navigation

The present survey positions of aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended, except that lighted buoy No. 7, charted in lat. 40° 40.12°, long. 73° 18.18°, falls about 120 meters northwestward on the present survey.

7. Condition of Survey

- e. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. The sunken barge and lighted WR buoy No. 1 shown in lat. 40° 37.18', long. 73° 19.12', have been removed from the Inlet, as reported in H.O. N. to M. 47 (1950).

8. Compliance with Project Instructions

The present survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This is a very good basic survey and no additional field work is recommended.

Examined and approved:

Chief, Nautical Chart Branch

Chief, Division of Charts

L. S. Hubbard

L.S. Hubbard

Earl

Chief, Section of Hydrography Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. H- 7800

Record of Application to Charts

| CHART | CARTOGRAPHER | REMARKS |
|-------|--------------|--------------------------------------|
| 578 | S.G. Melann | Before After Verification and Review |
| /215 | Fa Mulaun | 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.