

7870

Diag. Cht. No. 1215-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC
HI-1550, 1650,
Field No. 1750 & 2150 Office No. H-7870

LOCALITY

State NEW YORK
General locality SOUTH COAST OF LONG ISLAND
Locality JONES INLET TO FIRE ISLAND INLET

19 ~~4~~ 50

CHIEF OF PARTY

I. T. Sanders

LIBRARY & ARCHIVES

DATE Feb. 27, 1951

0282

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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-7870
Hi-1550; Hi-1650
Field No. Hi-1750; Hi-2150

State New York

General locality South Coast Of Long Island

Locality Jones Inlet To Fire Island Inlet

Scale 1:20,000 Date of survey 19 July to 4 Oct. 1950

Instructions dated 11 April 1950, FP-Long Island

Vessel Hilgard

Chief of party Ira T. Sanders

Surveyed by Walter J. Chovan

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

Protracted by W.W. Feazel & Andrew Anninos

Soundings penciled by W.W. Feazel

Soundings in ~~fathoms~~ feet at MLW ~~MLLW~~

REMARKS: Field Surveys Hi-1550, 1650, 1750 & 2150 were all plotted on smooth sheet H-7870 in accordance with the Directors' letter to Ira T. Sanders, dated 20 Nov. 1950, reference 22/MEK, FP-Long Island.

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY NOS. H-~~7867~~, ~~7868~~, ~~7869~~, & 7870 (1950)
(Field Nos. Hi-1550, 1650, 1750, & 2150)
JONES INLET TO FIRE ISLAND INLET,
SOUTH COAST OF LONG ISLAND, NEW YORK

Scale 1:10,000. & 1:20,000 - July - October 1950

SHIP HILGARD - Walter J. Chovan, Commanding
Ira T. Sanders - Chief of Party

Surveyed by Walter J. Chovan, Commander, C&GS

A. PROJECT.- Project CS-337 - Supplemental Instructions dated 11 April 1950 (Paragraph 32) to Commander Ira T. Sanders.

B. SURVEY LIMITS AND DATES.- These sheets cover a special survey for the Beach Erosion Board to obtain profiles along the Jones Beach, Tobay Beach Area, South Coast of Long Island, New York. The Profiles were run on ranges between the 30, and 60 foot curves from Jones Beach Inlet on the west to Fire Island on the east. The 30, and 60 foot curves were developed.

Field work on this project began 19 July and was completed on 4 October 1950.

These surveys were carried on in conjunction with the Surveys of East bank, and Jamaica Bay. Whenever the weather was suitable for off-shore hydrography, work was done on these sheets.

C. VESSEL AND EQUIPMENT.- The Ship HILGARD was used in these surveys.

Two portable fathometers, model 808a, no. 63, and no. 58s were used in taking all soundings.

Depths varied from 24 feet to 70 feet.

D. TIDE & CURRENT STATIONS.- Tides from the Point Lookout, Jones Inlet, Long Island, New York tide gage was furnished this party by the Long Island Shore Party, and the Washington Office. A range factor of 1.2 was applied to obtain tide reducers. However no difference in time of tide was applied. (See Directors letter dated 13 Nov. 1950, reference 36:rcb.)

No current observations were made.

E. BOAT SHEETS & SMOOTH SHEET.- The Boat Sheets with all the range lines, Triangulation Stations, and shore line, plotted on the state grid were furnished this party by the Beach Erosion Board, on a scale of 1:10,000. Later in the season, in order to develop the 60 foot curve, a boat sheet on a scale of 1:20,000 covering the three 1:10,000 sheets was furnished by the Norfolk Processing Office. This Sheet had both grids; the Geodetic and the State Grid.

The Smooth Sheet ^{was} ~~is to~~ be processed in the Norfolk Processing Office. ~~It~~ is to be processed on a scale of 1:20,000 and enlargements of 1:10,000 furnished the Beach Erosion Board. (See Directors letter dated 20 November 1950, reference 22/MEK, FP-Long Island.

F. CONTROL STATIONS.- This party did not have the triangulation aboard for this area. The boat sheets with triangulation signals plotted were furnished by the Beach Erosion Board. However the position of triangulation stations were taken from the triangulation scheme along the South Coast of Long Island adjusted on the North American 1927 Datum in June 1949.

The Beach Erosion Board furnished this party with a copy of the grid positions of the range monuments and the offsets from these monuments to the range targets, which are enclosed in this report.

G. SHORELINE AND TOPOGRAPHY.- The shoreline on the boat sheet as furnished was taken from Sheets ~~T-5612, T-19300, and T-9301.~~ ^{T-5612 (3/1947), T-19300 (1/1948), and T-9301 (1/1949).}

The low-water line is not defined by the soundings, as this is a special survey between the 30 and 60 foot curves. The Beach Erosion Board made their own surveys from the low-water line to the 30 foot curve.

H. SOUNDINGS.- The portable fathometers, type 808A, No 63, and No. 58S were used in obtaining soundings for these surveys. Transceiver units were mounted inboard against the hull of vessel.

Corrections to soundings were obtained from Bar Checks.

I. CONTROL OF HYDROGRAPHY.- The Sounding Lines were controlled by ranges and sextant angle fixes to shore objects.

J. ADEQUACY OF SURVEY.- This is a Special Survey for the Beach Erosion Board and is adequate for its purpose but is not a complete Hydrographic Survey of the area. The 30 foot and 60 foot curves were established. The 30 foot curve at the entrance to Fire Island should be obtained from the Smooth Sheet of the Long Island Shore Partys' Survey of that Area. H-7800(1950)

No junctions with adjoining surveys applicable to this special survey.

P. AIDS TO NAVIGATION.- No fixed Aids to Navigation were located, those used as signals were plotted on the Boat Sheet by the Beach Erosion Board.

No floating aids to navigation were located.

Z TABULATION OF APPLICABLE DATA.-

<u>DESCRIPTION</u>	<u>DATE</u>	<u>Ref.</u>
1. Tide Data	13 November 1950	36/rcb
2. Processing of Field Records	28 June 1950	22/MEK
3. Processing of Field Records	20 November 1950	22/MEK
4. Fathometer correction report	To be submitted.	

TIDE NOTE

TO ACCOMPANY DESCRIPTIVE REPORT

FOR HYDROGRAPHIC SURVEY NO. ~~7267~~, ~~7268~~, ~~7269~~, & 7870-(1950)
FIELD NO. HI-1550, 1650, 1750, & 2150

BEACH EROSION STUDY, JONES INLET TO FIRE ISLAND
INLET. SOUTH COAST OF LONG ISLAND, NEW YORK

The tide station at Point Lookout, Jones Inlet, Long Island, New York was used for the reduction of soundings throughout this survey. ✓

The hourly heights from this tide gage was furnished this party by the Long Island Shore Party and the Washington Office.

A range factor of 1.2 was applied to obtain tide reducers.

No time difference in tide was applied.

Point Lookout, Jones Inlet, Long Island, New York.

Latitude: 40°35.20'N

Longitude: 73°34.65'W

MLW on USC&GS Staff is 1.7 ft.

APPROVAL SHEET

TO ACCOMPANY

HYDROGRAPHY SURVEY NO. H-~~7867~~, ~~7868~~, ~~7869~~, & 7870 (1950)
FIELD NOS. HI-1550, 1650, 1750, & 2150

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

The descriptive report has been examined and is approved.



Walter J. Chovan
Commander, C&GS
Comdg. Ship HILGARD

C O P Y

REFER TO: 36:rcb

13 November 1950

To: Commander Ira T. Sanders
U. S. Coast & Geodetic Survey
General Delivery
Babylon, Long Island, New York

Subject: Tide data, New York Project CS-337

Planes of reference requested in your letter of 7 November 1950 are as follows:

Station	Mean low water datum on staff (feet)
Oak Beach (Fire Island Inlet)	2.0
Point Lookout, Jones Inlet	2.6 (U.S.E. staff) 1.7 (C. & G.S. Staff)

At the latter station, records for the period June 20 to 1440 (Eastern Standard Time) on July 12 were referred to the Engineers Staff. Records subsequent to that time have been referred to the Coast & Geodetic Survey staff.

Results from the records for Oak Beach show that the station was located too far inside to be representative of open coast conditions. It is therefore recommended that the records from the tide station at Point Lookout be used for the reductions of soundings in the profile area.

Previous observations at Fire Island Breakwater and Long Beach indicate that the tidal ranges along the outer coast between these locations are somewhat greater than those observed at the Point Lookout station. Therefore, to obtain tide reducers for the profile area, it will be necessary to apply a range factor of 1.2 to the reducers taken directly from the Point Lookout records. However it is not considered necessary to make any allowance for the difference in time of tide.

Should tide reducers be needed during the period of missing or defective record at Point Lookout, they may be obtained from the Fire Island Inlet record by using a range factor of 1.6 without any allowance for difference in time of tide.

(SIGNED) K. T. ADAMS
Acting Director.

17 August 1950

NOTES CONCERNING RANGE TARGETS, JONES BEACH EROSION STUDY:

RANGE NO. 9: THE LINE SHOWN ON THE BOAT SHEET IS 140 FEET DUE WEST OF TARGETS. MOVE LINE EAST.

RANGES NOS. 13 TO 20 (INCL.): TARGETS ON THESE 8 RANGES ARE ALL 200 FEET WEST OF THE RANGE LINES PLOTTED ON THE BOAT SHEETS. MOVE ALL 8 LINES WEST. SEE YOUR SOUNDING LINES FOR RANGES 14, & 16.

RANGE NO. 24: THE TARGETS ON RANGE 24 ARE 1000 FEET WEST OF THE LINE PLOTTED ON THE BOAT SHEET. MOVE LINE WEST.

RANGE 7: FRONT AND REAR TARGETS HAVE BEEN REMOVED BY CONTRACTOR ON NEW PARKING FIELD.

Note: It is understood that the field party was furnished incorrect positions of these ranges (later corrected) and these notes apply to boat sheets only - H.L.P.

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Faint, illegible text, possibly bleed-through from the reverse side of the page.

C O P Y

22/MEK
FP-Long Island

28 June 1950

To: Officer in Charge
USC&GS Long Island Field Party
General Delivery
Inwood, L. I., New York

Subject: Processing Of Field Records

In reply to the last paragraph of your letter dated 17 June 1950 concerning processing of the hydrographic records pertaining to the profiles obtained for the Beach Erosion Board, the boat sheets and records shall be retained and either processed by your party or forwarded to the Norfolk Processing Office for completion after all preliminary work called for on pages 844 and 845 (subject 923) of the Hydrographic Manual has been completed. In the event that the records are forwarded to the Norfolk Processing Office for completion, the Supervisor, Southeastern District is directed to give the completion of these records the highest priority.

You are authorized to furnish copies of the preliminary data to the Beach Erosion Board, but a notation shall appear thereon that the data are preliminary and subject to review and verification by the Washington Office.

(Signed) R. F. A. Studds

Director.

CC. Supervisor, Eastern District
Supervisor, Southeastern District

C O P Y

22/MEK
FP-Long Island

20 November 1950

To: Commander Ira T. Sanders
U. S. Coast and Geodetic Survey
602 Federal Office Building
90 Church Street
New York 7, N. Y.

Subject: Processing Of Field Records

Reference: Your Letter to the Chief, Division of Coastal Surveys.

Dr. Jay V. Hall of the Beach Erosion Board was contacted for further information concerning the desired processing of field data for the soundings taken on the range lines south of Jones Beach, Long Island, New York.

Dr. Hall stated that it would be acceptable to plot the hydrography on a scale of 1:20,000 and later furnish to the Beach Erosion Board enlargements on a scale of 1:10,000. Dr. Hall also stated that it would not be necessary for the Coast and Geodetic Survey to plot the profiles along each range. This part of the work would be accomplished by the Beach Erosion Board after receipt of the hydrographic sheets.

Data for the reduction of soundings were forwarded to you in a letter dated 13 November. It is assumed that these have now been forwarded by you to Commander Chovan at Norfolk.

(Signed) W. M. Scaife

Chief, Division of
Coastal Surveys

cc. Supervisor, Eastern District
Comdr. Walter J. Chovan

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SOUTHEASTERN DISTRICT HEADQUARTERS
ROOM 418, U. S. POST OFFICE BUILDING
NORFOLK 10, VIRGINIA

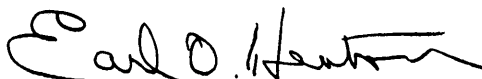
18 January 1951

To: Comdr. Ira T. Sanders
83-33 Austin Street
Kew Gardens
Jamaica 15, L. I., N. Y.

Subject: New Coast Guard Flagpole.

It is requested that this office be furnished the co-ordinates of the subject triangulation station for use in smooth plotting ~~Soil~~^{Beach} Erosion Survey H-7870.

This station is located at Fire Island Coast Guard Station No. 83.



Earl O. Heaton
Captain, USC&GS
Supervisor, SE Dist.

HLP:m

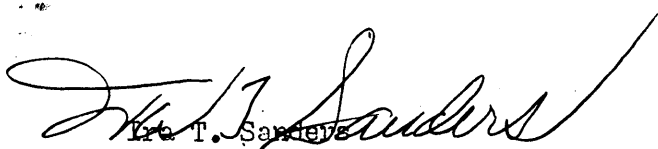
25 January 1951

FIRST ENDORSEMENT

To: Supervisor, SE District.

So far as I have been able to determine there has never been a determination of the position of the present flag pole at the Fire Island Coast Guard Station. The nearby lookout tower is of recent construction and its position had never been established until the photogrammetric party of 1949-50 pricked it on a photo. It is quite possible that the position of the flag pole can be determined in a similar manner, if the photos are available.

In the meantime, I have been able to obtain from the Long Island State Park Commission a co-ordinate position which is believed to be good to within 2 or 3 feet. See explanation on the attached sheet.

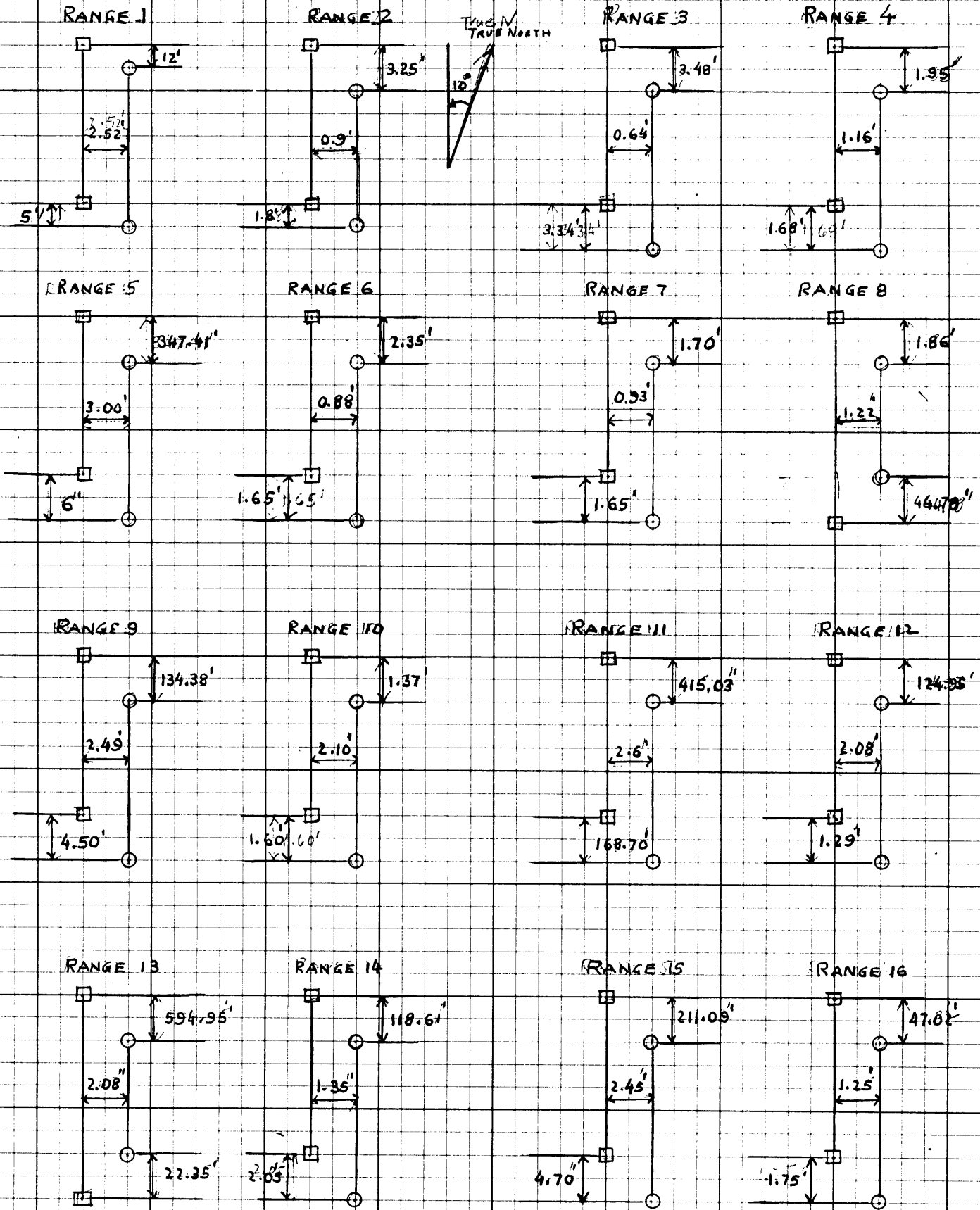


Ira T. Sanders

BEACH EROSION SURVEY H-7067, 7068, 7069 & 7070 (1950)

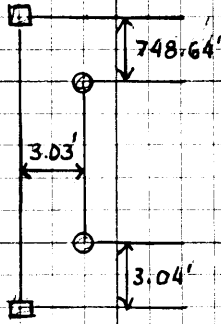
TARGET OFF-SETS FROM COORDINATED POINTS

9-4-50

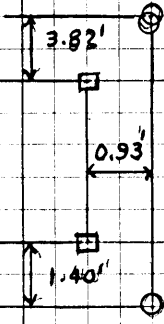


○ MONUMENT
 □ TARGET

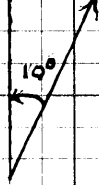
RANGE 17



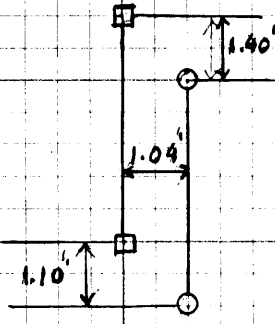
RANGE 18



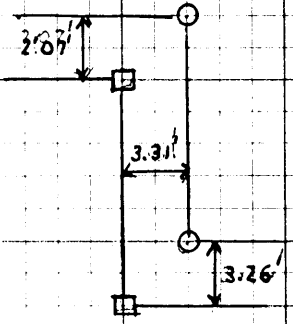
TRUE NORTH



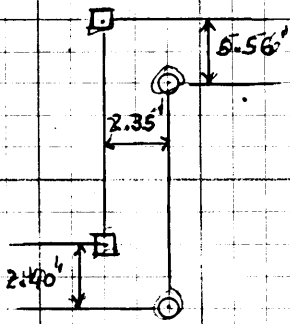
RANGE 19



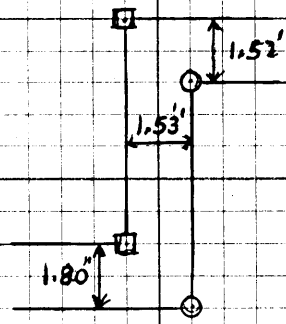
RANGE 20



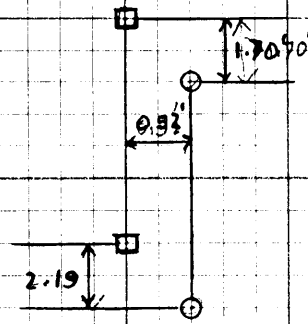
RANGE 21



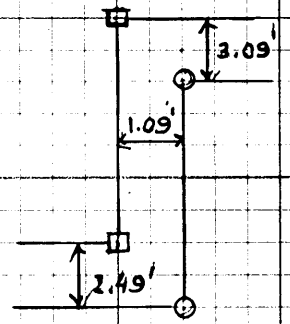
RANGE 22



RANGE 23

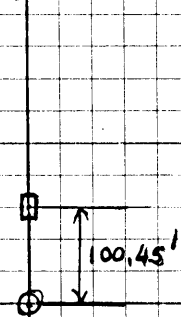


RANGE 24



RANGE 25

FIRE ISLAND LIGHT



⊙ MONUMENT

□ TARGET

LONG ISLAND STATE PARK COMMISSION
BABYLON, N. Y.

Refers to.....

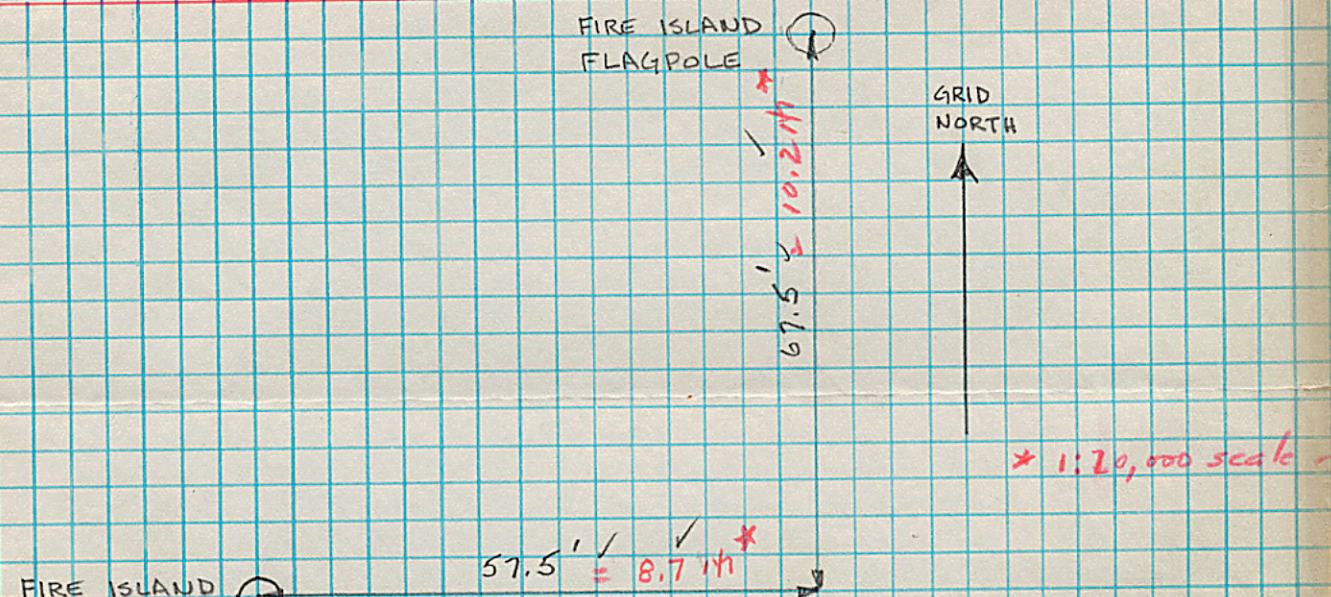
Sheet No.....

Made by N. Porter Date Jan 23, 51

Checked by J. A. Tiso Date Jan 23, 51

Approved by..... Date.....

Calculation Sheet



FIRE ISLAND LOOKOUT TOWER 1933
 2205291.72'
 146501.51'
 (p. 31) plane coordinates

FIRE ISLAND LOOKOUT TOWER, 1933	2205291.72'	146501.51'
FIRE ISLAND ^{C.G.} FLAGPOLE	<u>2205349</u>	<u>146569</u>

NOTE: The coordinates of the flagpole are based upon the position of the FIRE ISLAND LOOKOUT TOWER, 1933 as indicated on an old Coast Guard blueprint. An unsuccessful effort was made to recover the footings of the 1933 Tower. The x + y measurements indicated here on were made in the field. It is believed that the indicated coordinates of the flagpole have a probable error of ± 2 feet.

LIST OF SIGNALS
To Accompany

HYDROGRAPHIC SURVEY H-7870 (Field Nos. Hi-1550, 1650, 1750 & 2150)

TRIANGULATION STATIONS

FIRE ISLAND LIGHTHOUSE, 1865-1932

GUARD, 1934

JONES BEACH WATER TOWER, 1933

JONES BEACH, WEST POINTED TOWER, 1933

LIDO WEST TWIN TOWER, 1933

LIFE, 1933

SALTAIRE, TANK, 1933

SHORT BEACH, C.G. FLAGPOLE, 1940

FIRE ISLAND, LOOKOUT TOWER, 1933

MARKED OR RECOVERABLE TOPOGRAPHIC STATIONS

✓ARD WATCHTOWER, 1949 (T-9300)
 ✓CUP LOOKOUT TOWER, SHORT BEACH C.G., STATION, 1947 (T-5613)
 ✓WAT FIRE ISLAND BREAKWATER LIGHT, 1950 (T-9300)
 ✓NEW FIRE ISLAND C.G., FLAGPOLE (See letter 18 Jan. 1951)
 ✓WOO TOWER, 1949 (T-9300)

TOPOGRAPHIC STATIONS

AIR-PHOTO FEATURES

HYDROGRAPHIC STATIONS

Bay (T-5612)

Dar (T-9300)

Look (Vol. 1, Pg. 5)
(" 4, " 16)

*TRAVERSE STATIONS (Used to control hydrography) (Source, Beach Erosion Board)

R-1	F-11	R-11	R-12	F-13	R-13	F-14	R-15	F-16
R-16	F-17	R-17	R-20	R-21	R-23			

* Objects observed on were range markers on off-sets from traverse stations

STATISTICS
To Accompany

HYDROGRAPHIC SURVEY H-7870 (Field Nos. Hi-1550, 1650, 1750 & 2150)

DATE 1950	DAY LETTER	VOLUME	NO. OF POSITIONS	STAT. MI. OF SOUNDING LINES
Hi-1550				
19 July	A (red)	1	143	41.6
21 "	B "	1	116	27.6
28 Aug.	C "	2	24	6.2
17 Sept.	D "	2	25	6.0
18 "	E "	2	115	27.4
27 "	F "	2	25	7.2
			TOTAL	<u>448</u>
Hi-1650				
9 Aug.	A (blue)	3	44	10.0
14 "	B "	3	111	27.2
28 "	C "	3	22	5.8
17 Sept.	D "	4	27	6.9
27 "	E "	4	56	15.4
4 Oct.	F "	4	13	3.5
			TOTAL	<u>273</u>
Hi-1750				
15 Aug	A (green)	5	45	8.8
28 "	B "	5	60	15.4
17 Sept.	C "	5	63	14.3
4 Oct.	D "	5&6	118	25.3
			TOTAL	<u>286</u>
Hi-2150				
13 Sept.	A (purple)	7	92	31.2
17 "	B "	7	48	13.0
18 "	C "	7	115	22.5
25 "	D "	8	152	47.4
			TOTAL	<u>407</u>
GRAND TOTAL			1414	362.7

ADDENDUM
To Accompany

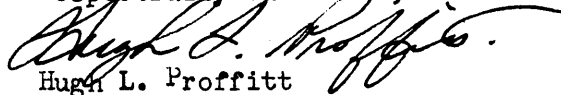
HYDROGRAPHIC SURVEY H-7870 (Field nos. ^{H-7870} Hi-1550, 1650, 1750 & 2150)

GENERAL

In accordance with the Director's letter dated 20 Nov. 1950, the four field surveys Hi-1550, 1650, 1750 & 2150 were smooth plotted on a scale of 1:20,000. These surveys were plotted on the same smooth sheet and are identified by different day letter colors.

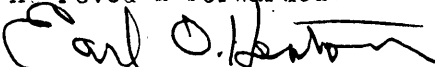
Beach Erosion Board traverse station marks are designated on the smooth sheet by red triangles, the range markers by red circles.

Respectfully submitted,


Hugh L. Proffitt
Cartographer.

Norfolk, Va.
19 Feb. 1951

Approved & Forwarded:


Earl O. Heaton
Supervisor, S.E. District.

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

8 March 1951

Division of Charts: R. H. Carstens

Plane of reference approved in 8
volumes of sounding records for

HYDROGRAPHIC SHEET 7870

Locality South Coast of Long Island, New York

Chief of Party: W. J. Chovan in 1950
Plane of reference is 'mean low water, reading
1.7 ft. on tide staff at Point Lookout
10.3 ft. below B. M. 1 (1950)

Height of mean high water above plane of reference is 3.6 feet.

NOTE: Tide reducers for the following positions have been revised in red,
these revisions have been verified.

Volume 2 (C day, August 28, 1950, Positions 1-23 (inclusive). ✓
(D day, September 17, 1950, Positions 1-25 (inclusive). ✓
(E day, September 18, 1950, Positions 1-115 (inclusive). ✓

Volume 3 All positions. ✓

Volume 4 D day, September 17, 1950, Positions 1-27 (inclusive). ✓
~~Verification of records satisfactory except as noted below.~~

Volume 5 (A day, August 15, 1950, Positions 1-45 (inclusive). ✓
(B day, August 28, 1950, Positions 1-60 (inclusive). ✓
(C day, September 17, 1950, Positions 1-63 (inclusive). ✓

Volume 7 (B day, September 17, 1950, Positions 1-48 (inclusive). ✓
(C day, September 18, 1950, Positions 1-115 (inclusive). ✓

E. C. McKay
Section
Chief, Division of Tides and Currents.

Verified - see if new reduction of soundings
has been made No! Completed 5/14/51 CWS.

GEOGRAPHIC NAMES

Survey No. H-7870

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>New York</u>			(for title)								1
<u>Long Island</u>			(" ")								2
											3
<u>Jones Inlet</u>											4
<u>Fire Island Inlet</u>											5
											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
<u>Point Lookout</u>			(location of tide gage)								16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red
are approved. 3-2-51.
L. Heck

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H.7870..

Records accompanying survey:

Boat sheets *..4..*; sounding vols. *..8..*; wire drag vols.;
 bomb vols.; graphic recorder rolls *..4 env;*
 special reports, etc. *1 Smooth Sheet*.....

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

Number of positions on sheet	<i>1414</i>
Number of positions checked	<i>50</i>
Number of positions revised	<i>—</i>
Number of soundings revised (refers to depth only)	<i>2000 *</i>
Number of soundings erroneously spaced	<i>—</i>
Number of signals erroneously plotted or transferred	<i>—</i>
Topographic details	Time	<i>2 hr</i>
Junctions	Time	<i>4 hr</i>
Verification of soundings from graphic record	Time	<i>15 hr</i>

Verification by *Craigton O. DeMann* Total time *172 1/2* + Date *15 Jan 52*

Reviewed by *Lu Jeskeud* Time *22* Date *1-29-52*

* due to change in tide reducer after sheet was smooth plotted
 + time includes one week spent on computing and constructing polyconic grid for sheet — 2 days was also spent correcting volumes.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7870

HI-1550, 1650
FIELD NO. 1750 & 2150

New York, South Coast of Long Island, Jones Inlet to Fire Island
Inlet

Project No. CS-337

Surveyed in July - October, 1950

Scale 1:20,000

Soundings:

Control:

808 Fathometer

Ranges and sextant fixes on shore
signals

Chief of Party - I. T. Sanders

Surveyed by - W. J. Chovan

Protracted by - W. W. Feazel and A. Anninos

Soundings plotted by - W. W. Feazel

Verified and inked by - C. O. DeMarr

Reviewed by - I. M. Zeskind, 29 January 1952

Inspected by - R. H. Carstens

1. Purpose and Scope

This is a special survey for the Beach Erosion Board. Its purpose was to obtain profiles between the 30 and 60-ft. curves offshore between Jones Inlet and Fire Island Inlet. The development of all bottom features within the area covered by the present survey was not attempted.

2. Shoreline and Control

The shoreline originates with air-photographic surveys T-5621 (1947), T-5613 (1947) and T-9300 (1950). No contemporary topographic surveys by this Bureau showing shoreline on the ocean side east of Fire Island Inlet are available at this time.

3. Depth Curves and Bottom Configuration

Determination of the 30-and 60-ft. curves in some areas is incomplete.

The bottom is fairly smooth, except for broad undulations beyond 50-ft. depths.

4. Junctions with Contemporary Surveys

Junctional soundings from the present survey have been applied to adjoining surveys H-7843 (1950) and H-7800 (1950) in the vicinities of Jones Inlet and Fire Island Inlet respectively and are in adequate agreement with depths on these surveys.

5. Comparison with Prior Surveys

A.	H-47 (1835)	1:40,000
	H-203 (1948)	1:40,000
	H-1538 (1882)	1:40,000
	H-1578a (1883)	1:40,000
	H-4795 (1927)	1:10,000
	<u>H-4796 (1927)</u>	<u>1:10,000</u>

These early surveys were compared with and superseded by H-6189 (1936). Further consideration of these surveys, therefore, is deemed unnecessary in the present review.

B.	H-5369 (1933)	1:10,000
	H-5370 (1934)	1:10,000
	H-5371 (1932)	1:10,000
	<u>H-6189 (1936)</u>	<u>1:40,000</u>

These prior surveys fall within the limits of the present survey. A comparison between the prior surveys and the present survey shows that a shoaling of 1-4 ft. has occurred in depths less than 35 ft. An example of this shoaling occurs in lat. $40^{\circ} 36.28'$, long. $73^{\circ} 23.56'$, where a prior depth of 35 ft. falls in present depths of 31-32 ft. In several places the 30-ft. depth curve now falls further offshore as for example, in the vicinity of lat. $40^{\circ} 38.2'$, long. $73^{\circ} 19.0'$, where the 30-ft. depth curve has moved as much as 450 meters further offshore. In depths greater than 35 ft. the bottom is relatively stable and shows only minor shoaling of 1-2 ft. in some places.

The present survey should supplement the prior surveys within the common area.

6. Comparison with Chart 578 (Latest print date 9/10/51)
Chart 579 (Latest print date 7/23/51)
Chart 1215 (Latest print date 4/2/51)A. Hydrography

The charted hydrography originates principally with the previously discussed prior surveys which need no further consideration.

The present survey should supplement the charted information.

B. Aids to Navigation

The charted floating aids to navigation were not located on the present survey.

The fixed aids to navigation are in substantial agreement with their charted positions and adequately mark the features intended.

7. Condition of Survey


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

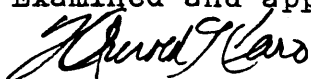
8. Compliance with Project Instructions


The survey adequately complies with the Project Instructions.


9. Additional Field Work Recommended

As noted in paragraph 1 above, complete development of the area covered by the present survey was not attempted. This special survey adequately serves the purpose intended and no additional field work is required.


H. R. Edmonston
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Examined and approved:

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