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Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: New York.

LI-5613

DESCRIPTIVE REPORT.

Topographic Sheet No. 4063

LOCALITY:
Long Island
Fire Island Inlet and Vicinity

1924

CHIEF OF PARTY:
Geo. L. Bean, H. & G. E.

DESCRIPTIVE REPORT
Topographic SheetNo.

Fire Island Inlet and Vicinity.

July and August, 1924. Scale 1 : 10,000

Geo. L. Bean Chief of Party.

This survey was made in accordance with the Director's Instructions dated July 8, 1924. It is on a 1 : 10,000 scale and was surveyed by Geo L. Bean during July and August 1924.

This sheet includes all changes in shoreline and topography from the Fire Island Naval Radio Station to about ^{n/12}one_A West of the New Inlet at the West end of Oak Beach. The party consisted of Geo.L. Bean in charge P.R.Hathorne, D.O. assisting, and four men. The boats used were Hydrographic launch #65 and a 14 foot dinghy loaned by the Fire Island Naval Radio Station. The usual Coast Survey planetable outfit was used.

The control consisted of Fire Island Light House, Western Union Telegraph Tower, and the Oak Beach Coast Guard Flag Pole. The two flag poles at Wa Wa Yanda Club house on Captree Island had been located by a previous survey, and were used as checks by resection.

~~Beginning~~ Beginning at Fire Island Light House, planetable triangulation was carried Westward to Democrat Point and hydrographic signals located. Then starting at the Oak Beach Coast Guard Flag Pole and orienting on Fire Island Light House, triangulation was carried East until it connected with the previous scheme. It checked within eight meters. With this basis of control, traverses were run where there had been changes in the shore line. From the Oak Beach Coast Guard Station a traverse was run to the Westward. There was no check on this traverse except ~~resection~~ resection.

The shoreline is entirely sandy beach. The land is all low sand flats and dunes with a sparse salt grass covering the most of it. There has been a great change in the shoreline at Democrat Point and Oak Beach the last ten years. Oak Beach has been cut away as much as three hundred meters in some places and Democrat Point has built up in a Westerly and Northerly direction about eleven hundred meters. This would mean that Democrat Point is moving Westward at a rate of one hundred and ten meters a year or a little less than one foot per day. However I believe that most of this change takes place during the severe Winter storms. A new inlet has been cut ~~xxx~~ thru at the West end of Oak Beach and Muncie Island has become a part of Oak Beach. Property owners have suffered greatly in the vicinity of Oak Beach. There are many summer cottages here and a great many were destroyed at the West end and many others had to be moved back several hundred meters from the beach. Some people loaded their houses on scows and ~~xxx~~ towed them across Great South Bay to Long Island. If Democrat Point keeps on at its present rate Oak Beach will be entirely destroyed within a few years.

There are five large fish companies operating in the vicinity of Fire Island Inlet, and during the summer many boats make a business of fishing parties from Babylon and Bay Shore. There are also a great many pleasure boats which spend the summer in this vicinity.

Fire Island Light House and the Saltaire water tank make excellent land marks. The Saltaire water tank is off the sheet but was located by sextant angles and plotted on the hydrographic sheet. The windmill West of the New Inlet shows up well on a clear day and the cupola on the old hotel at the West end of Oak Beach ~~XXXXXXXXXXXXXXXXXXXX~~ is prominent.

Statistics:

No. of triangulation stations.....	3
No. of hydrographic signals	23
No. " " " " " marked	1
Length of shoreline.....	10 miles
Longest traverse.....	.3 "
Area surveyed.....	5 "
Signals built	5
Days engaged	4 approx.

Respectfully submitted,

Geo. L. Bean
 Geo. L. Bean:
 Lieutenant.

PLANE - TABLE POSITIONS. *Fire Island, N. Y.*

Object and description.	Latitude.	D. M.	Longi- tudo.	D. P.	Height.	Remarks.
	° ' "	Meters.	° ' "	Meters.	Feet.	
<i>Fire Island.</i>						
<i>1. Pol. - Coast Guard Flag Pole, Fire Island.</i>	<i>40 37</i>	<i>1653</i>	<i>73 13</i>	<i>565</i>		
<i>2. Cupola - Coast Guard Sta., Fire Island.</i>	<i>40 38</i>	<i>1665</i>	<i>73 13</i>	<i>544</i>		
<i>3. Van - Gable, Ray. Fish Co.</i>	<i>40 38</i>	<i>433</i>	<i>73 15</i>	<i>505</i>		
<i>4. Cup - Cupola, Oak Beach Hotel.</i>	<i>40 38</i>	<i>741</i>	<i>73 18</i>	<i>953</i>		
<i>5. Mil. Wind Mill west. of New Inlet.</i>	<i>40 38</i>	<i>518</i>	<i>73 19</i>	<i>862</i>		
<i>6. Gap - Observation Tower, Oak Island Coast Guard.</i>	<i>40 38</i>	<i>565</i>	<i>73 17</i>	<i>1233</i>		
<i>- Situate:</i>						
<i>1. Lit. New Light on East Jetty.</i>						
<i>2.</i>						

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON December 13, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4063

Fire Island Inlet, N. Y.

Surveyed in 1924.

Instructions dated July 8, 1924.

Chief of Party, G. L. Bean.

Surveyed and inked by G. L. Bean.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey conform to the requirements of the General Instructions except that the shoreline of the northern face of Oak Beach should have been surveyed. The road and houses on the new survey of Oak Beach extend out beyond the old survey of the north side of Oak Beach and, in applying the new survey to the chart, it was necessary for the office cartographer to modify the old shoreline.
3. The character of the survey satisfies the specific instructions.
4. The junctions with adjacent surveys are satisfactory, except as noted in paragraph 2.
5. No further surveying is needed within the area covered by the sheet.
6. The scope of the survey is fair and the character of the surveying and field drafting are excellent.
7. Reviewed by E. P. Ellis, December, 1924.

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4063

State New York

General locality Long Island

Locality Fire Island Inlet and Vicinity

Chief of party Geo. L. Bean

Surveyed by Geo. L. Bean

Date of survey July - August, 1924

Scale 1 : 10,000

Heights in feet above

Contour interval feet.

Inked by . . G. L. B. . . Lettered by . . G. L. B.

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: *Season's Report - Heavy concerning building up of Democrat Point*