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Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: New York

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No.

E 6015

LOCALITY

East of Long Island
Gardiners Bay, L. I.

Gardiners Bay and Orient Harbor
Orient Point to Shelter Island.

1933

CHIEF OF PARTY

L. C. Wilder

U. S. GOVERNMENT PRINTING OFFICE: 1928

6015

Descriptive Report to Accompany Sheet "E".

Gardiners Bay and Orient Harbor, Eastern Long Island.

Scale: 1:20,000

INSTRUCTIONS:

Instructions to Lt. L. C. Wilder dated March 17, 1933.

LIMITS:

Northern section of Gardiners Bay from Orient Point Light House west to Hay Beach Point and including Orient Harbor.

This area was photographed on a scale of approximately 1:10,000 and for this reason the work consists in locating objects for the use of the hydrographic parties, landmarks and the control of the photograph.

No dangers, obstructions, or buoys were located as it was understood that the hydrographic parties were to locate these objects.

GENERAL DESCRIPTION:

Approaching the area from the east, (from Orient Point Light House) to the right is Orient Point an open farming country with numerous houses and buildings. From the dock at Orient Point there is a low, open sandy beach (Long Beach) extending to the southwest with the farming land showing in the back ground. From triang. sta. Bens westward this beach is thickly wooded with Cedar and small pine and oak trees. The extreme western end of this beach is a low sand spit extending out to within five or six hundred meters of Long Beach Light House.

This beach from a short distance west of Orient Point dock to Long Beach Light House all belongs to the Long Island Park Commission and is now in the process of development.

To the left and ahead is Shelter Island. Beginning at triang. sta. Ram there is a high clay bluff, 40 to 60 feet high extending to c Pod. At this point there is a low, sandy beach running for about 700 meters to another high bluff which extends nearly to triang. sta. Coecles. From this point there is again a low, sandy beach running into the north as far as c One. From this signal around to triang. sta. Hay Beach there is a thickly wooded, clay bluff from 15 to 30 feet high.

Entering Orient Harbor from Long Beach Light House, to the left (northwest shore of Orient Harbor) is a partially wooded section with many summer cottages along the shore. Ahead and to the right is the Village of Orient, at c Pil there is a low, sandy beach separating Orient Harbor from Long Island Sound. South of the Village of Orient there is some open farming country and then a thickly wooded point separating Orient Harbor from Long Beach Bay. The channel into this bay runs between this wooded point and Long Beach.

The shores of Long Beach Bay are mostly meadows running back to woods except where there is some open farm land. The north shore of Long Beach is similar in character to the south shore.

LANDMARKS:

There are several landmarks located on this sheet. Those located by triangulation are Orient Point Light House, Latham Windmill, Long Beach Light House, The Orient Congregational Church, Douglass Water Tank, Edwards Cupola, and Deering Harbor Flag Pole.

The following objects located with the plane table may be used as landmarks: Small house on end of Orient Point dock, o Doc, the chimney on a lone house next to triang. sta. Bens, o Chim, the south gable of a large, gray barn at the north side of Long Beach Bay, o Ren, the flag pole on a hotel at Orient, the house on the end of the main dock at Orient (o West), a windmill with tank near triang. sta. Edwards Cupola, and an old chimney of a burnt house near triang. sta. Ram.

Besides these objects mentioned there are several other objects of a permanent or semi-permanent nature which are shown in black on the sheet and which may be used for control of the photographs or for any future work.

CONTROL:

Fifteen well distributed triangulation stations were used as the control of this sheet.

METHODS USED:

The signals in Orient Harbor and Long Beach Bay were all located by cuts. In locating the signals in Orient Harbor set-ups were made at triang. sta. Co. Eng. Sta., Hay Beach and at triang. sta. Edwards Cupola and several other of the triangulation stations were used for the purpose of resection. In locating the signals in Long Beach Bay cuts were taken from signal "Ban", already located, and o Ren located by resection using triang. sta. Douglass Water Tank and triang. sta. Bens with checks on other triangulation stations and signals previously located as checks. From this point the remaining signals were located by two cuts and resection with triangulation stations or by three or more cuts.

Signals "Pod", "Luv", and "Bar" were all located by means of the three point fix.

Traverses were run from triang. sta. Co. Eng. Sta., Hay Beach to triang. sta. Ram. Another traverse was run from triang. sta. Bens to o Bar and another traverse from triang. sta. Bens to triang. sta. Latham Windmill. An hundred meter tape was used in measuring all of these lines.

In locating the signals in the small dredged creek at o Top, a set up was made at this signal and the objects to be used as signals were cut on and a stadia distance read to them.

CLOSURES:

The traverse from triang. sta. Co. Eng. Sta., Hay Beach to o Luv closed with no error, the one from this signal to triang. sta. Coecles closed with an error of 4 meters which was adjusted. The traverse from Ram to o Pod closed with an error of about 2 meters which was not adjusted and the traverse from triang. sta. Coecles to o Pod closed with an error of 5 meters which was adjusted. The traverse from triang. sta. Bens to o Bar closed with no error. The traverse from triang. sta. Bens to triang. sta. Latham Windmill closed with an error of 6 meters, which was adjusted

CONTOURS:

As far as can be ascertained without an actual check by survey methods the contours have not changed except for minor developments made by real estate firms or by the Long Island State Park Commission on Long Beach.

GEOGRAPHIC NAMES:

No geographic names were obtained as this was already taken care of on the air photos.

Approved,

L. C. Wilder
L. C. Wilder,
Chief of Party.

Respectfully Submitted,

T. F. Squires
T. F. Squires.

Topographic Sheet "E"

List of prominent objects and objects that may be used for future work.

Name	Description
Chim	Old chimney of burnt house
Top	End of dock
---	S. gable, west of two wh. bungalows,
	Lat. 41-07.4 Long. 72-19.9
---	Windmill with tank,
	Lat. 41-07.7 Long. 72-19.8
Ten	West white chimney on large gabled roof house
---	West chimney on large house,
	Lat. 41-08.2 Long. 72-19.4
Pil	Locust post under large tripod
---	Turret on green roofed house
	Lat. 41-08.7 Long. 72-18.8
---	Flagpole on hotel
	Lat. 41-08.6 Long. 72-18.6
Tom	Windmill with tank
War	Spire on small church
West	West gable, house on dock
---	Chimney, center of white house
	Lat. 41-08.0 Long. 72-17.7
Cat	Bath house
Ren	South gable, large gray barn
Pad	Square masonry ruins
Gab	South gable, bath houses
Chime	Chimney on park superintendent's house
---	South gable, white bungalow
	Lat. 41-09.2 Long. 72-14.6
Al	Windmill with tank
Doc	Center of ho. on dock
Cha	Cupola on hotel
Ed	U. S. E. Station

A list of the prominent landmarks (for navigators and aviators) has been submitted with the separate report of landmarks.

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REG. NO. 6015

TOPOGRAPHIC TITLE SHEET

Acc. No.

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. E

REGISTER NO. **6015**

State New York

General locality Cardiners Bay L. I.

Locality Orient Point to Shelter Island

Scale 1-20,000 Date of survey Sept. - Oct., 1933

Vessel -----

Chief of Party L. C. Wilder

Surveyed by T. F. Squires

Inked by T. F. Squires

Heights in feet above ----- to ground to tops of trees

Contour, Approximate contour, Form line interval ----- feet

Instructions dated March 17, 1933, 19

Remarks: -----