DEPARTMENT OF COMMERCE
U.S. COAST AND GEOEGETIC SURVEY
R.S. Patton, Director

State: New York

DESCRIPTIVE REPORT
Topographic Sheet No. "R" 6029
Hydrographic

LOCALITY
Long Island Sound
North portion of Hempstead Harbor.

1933

CHIEF OF PARTY
Harold A. Cotton
DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. "K"

North portion of Hempstead Harbor.

INSTRUCTIONS:

This survey was accomplished under instructions dated March 23, 1933.

CONTROL:

This sheet was controlled by three main scheme triangulation stations (Matinicoock - Glen Cove Beacon and Pier) and ten intersection stations on both shores of the harbor. The location of Stations "New York" and "Point" were determined by triangulation after the topography had been done (for the coordination of U. S. E. control about head of Hempstead Harbor).

EXTENT:

The sheet takes in the east shore of Hempstead Harbor from Dosoris Pond to Carpenter Point, and on the west shore from the long pier halfway between Mott and Prospect Points to the gravel pit at about 40° - 50°.

JUNCTIONS:

This sheet joins sheet "L" on the east, sheet "I" on the west and sheet "J" on the south.

METHODS:

Ordinary plane-table methods were used, but the traverses were for the most part well controlled by resections of intersection triangulation stations. On the other hand there were no triangulation stations directly occupied except Station "Gone".

Starting with the table points at the end of sheet "L" in Dosoris Pond and orienting on topo. Station "Brown" the remainder of Dosoris Pond was located. This was a short orientation with no check available but was carried out on to the outside coast where triangulation stations "Matinicoock", "Green", and "Sky" on the far side of the harbor became visible. Resections on these points checked as did also the last point on the outside coast on sheet "I", so the position was accepted and the
work continued. This traverse was continued to triangulate. Station "Round" is not in accordance with the description which calls it a round red house on the end of the dock. The house is rectangular and weathered gray, but out of the center of it indicate that it is the station.

Work on the east shore was then discontinued and a traverse started at triangulate "Pier" at the long half way between Mott Point and Prospect Point. This traverse was run with orientation on stations on the far side of the harbor to stations "New York" and "Point". These were also later checked by triangulation about as close as they could be plotted. From this point the traverse was carried with orientation on triangulation "Side" with resections on "Glen Cove Light" and "Stack" to a loose end about latitude 40° 50′ which was later tied in to the control on sheet "J".

A three point fix was then picked up about three hundred meters south of the inshore end of the Glen Cove Breakwater and run south to the flagpole on Mosquito Neck. At this point there was a discrepancy of about three or four meters with a cut to this pole from the opposite side of the harbor; accordingly another three point fix was taken back on the sand spit at the lower end of Mosquito Neck and another location of the flag pole made. An adjustment was made of this section of the shore line and the flag pole. The last fix was determined from six different stations and is thought to be very good.

From here a traverse was run up Glen Cove Creek and back and down the shore south of Sea Cliff, to a loose end which was later checked back from sheet "J".

A traverse was started near the Glen Cove Beacon and run north to close within a meter at triangulation station "Cone". An old Coast Survey Station with no name on the disk was recovered on the breakwater off Week Point.

A traverse was run up around the swamp southwest of Dosoris Pond and a cut passed through one of the points determined on sheet "L", and also on one of the last points of the traverse coming down from Matinicock Point.

**Nature of the Shoreline:**

From the north east border of the sheet down to topo Station "Boat" the entire shoreline is private estates or clubs, each property extending over a considerable area. At the inshore end of the Glen Cove Breakwater is a well kept park and bathing beach, joined on the south by another yacht club, while still another occupies the lower end of Mosquito Neck (north of the sand spit).

The village of Glen Cove, sprawls around behind Mosquito Neck and Glen Cove Creek, while the village of Sea Cliff occupies the hill to the south of Glen Cove Creek and continues to the southern boundary of the sheet.

On the west shore private estates occupy practically the entire...
Along most of the west bank and along the east bank south of Glen Cove Creek, and between Glen Cove Creek and the Glen Cove Breakwater are rather abrupt bluffs, while the rest of the shoreline is comparatively low.

All along the shore below Sea Cliff from Station "Land" a boardwalk runs just outside of the high water line.

The shore line from the northwest corner of the sheet to Mott Point is foul area for about two hundred meters off shore. Nothing, however, was found as far out as the rock marked "Picket Rock" on the chart.

There is also some foul area off of Dosoris Island, Week Point and south of Sea Cliff, but the remainder of the shoreline is largely sand or gravel beach.

About half a mile north of the Glen Cove Breakwater is a small boat harbor formed by building rock breakwaters.

CHANGES:

The bridge over the outfall of Dosoris Pond is now a stone arch bridge with headgates below for control of tidal flow. The high and low water line below this bridge is considerably changed by silting and artificial filling.

The outfall to the southward of Dosoris Island has been closed by a causeway and the area south of the island is a high water marsh.

"Round" is the center of a weathered gray rectangular dock house instead of a red circular one as described.

Triangulation "Pole" has been destroyed.

The marsh to the north of Week Point has been trenched for drainage and the creek closed. The marsh is now dry except after extremely heavy rains or very high winter tides. In a few years it will be completely reclaimed.

In Glen Cove Creek a large dredge is operating. At the time of observation, the sand spit had been cut through and the dredge was proceeding across the swamp and up Glen Cove Creek. It is probable that the spoil will fill the present channel, that shown on this sheet, and it is recommended that a resurvey of this portion be made next year or that the data be obtained from the Army Engineers.

The pond shown on the point about half way between topo Stations "Pile" and "Road" is being encroached upon by a city dump and will eventually be filled, as will also that neck of the marsh extending up to
Geographic Names examined and found to agree with other authorities except Week Pt and Glen Cove Cr. which will be the subject of inquiry. Harlow Bacon, Senior Cartographer

Nov. 27, 1934

Glen Cove Cr as on Chart 1215ok, 1934 Dec. 3, 1934

Weeks Pt. ok, Dec 1934. McIlwain. Dec. 1934, Chart No. 2, USG. Oyster Bay Quadr 1722 (1934)

topo Station "School". It is expected that the old outlet will soon silt up.

STATISTICS:

Statute Miles of Highwater ............... 13
Statute Miles of Low water Creeks, Sloughs, etc........ 12
Statute Miles of Roads, Railroads, etc., .............. 1/2

Number of Recoverable Positions
Triangulation ......................... 13
Topographic ......................... 47

Number of Positions occupied ........ 82
Number of offshore rocks ............. 186

Area .................... 12 sq. mi.

Respectfully Submitted

W. O. Winkle
Surveyor, C&G. Survey

H. H. Atlee
Chief Draftsman
<table>
<thead>
<tr>
<th>NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sum</td>
<td>40° 53.67</td>
<td>73° 38.30</td>
<td>Center of small weathered gray summer house on the top of the bluff in front of a large white wooden house just south of the main outlet to Dosoris Pond.</td>
</tr>
<tr>
<td>Guard</td>
<td>40° 53.60</td>
<td>73° 38.19</td>
<td>Center of stone guard house at the entrance to J. P. Morgan's estate.</td>
</tr>
<tr>
<td>White</td>
<td>40° 53.61</td>
<td>73° 38.29</td>
<td>Northwest chimney of large white wooden house on hill just south of main outlet to Dosoris Pond.</td>
</tr>
<tr>
<td>Stand</td>
<td>40° 53.59</td>
<td>73° 38.45</td>
<td>Large northwest chimney of yellowish brown large stone house.</td>
</tr>
<tr>
<td>Ror</td>
<td>40° 52.63</td>
<td>73° 39.20</td>
<td>Yellow chimney on a red roofed house.</td>
</tr>
<tr>
<td>Bath</td>
<td>40° 52.50</td>
<td>73° 39.33</td>
<td>Seaward gable of small blue gray bath house just above high tide line about 400 meters south of Week Point.</td>
</tr>
<tr>
<td>Glass</td>
<td>40° 52.38</td>
<td>73° 39.20</td>
<td>Green glassed roof conservatory on estate of Arthur Lowe.</td>
</tr>
<tr>
<td>Air</td>
<td>40° 52.29</td>
<td>73° 39.45</td>
<td>Airport wind direction indicator on end of breakwater forming the small boat and hydroplane anchor-age ½ mile south of Week Point.</td>
</tr>
<tr>
<td>Beak</td>
<td>40° 52.26</td>
<td>73° 39.44</td>
<td>Navigation beacon at entrance to this same small boat harbor.</td>
</tr>
<tr>
<td>Boat</td>
<td>40° 52.11</td>
<td>73° 39.30</td>
<td>Seaward gable of two story white wood boat house.</td>
</tr>
<tr>
<td>Pole</td>
<td>40° 51.88</td>
<td>73° 39.32</td>
<td>Flagpole over clock on brick bath house in public park at the inshore end of Glen Cove Breakwater.</td>
</tr>
<tr>
<td>Navy</td>
<td>40° 51.78</td>
<td>73° 39.28</td>
<td>Flagpole at New York Yacht Club.</td>
</tr>
<tr>
<td>Club</td>
<td>40° 51.40</td>
<td>73° 39.11</td>
<td>Flagpole on dock of club house just north of Mosquito Cove and the entrance to Glen Cove Creek.</td>
</tr>
<tr>
<td>Old</td>
<td>40° 51.36</td>
<td>73° 38.93</td>
<td>Center of cupola on top of old weathered boat house at mouth of Glen Cove Creek.</td>
</tr>
<tr>
<td>NAME</td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>-------</td>
<td>-----------</td>
<td>------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Brick</td>
<td>40°- 51.66</td>
<td>73°- 38.26</td>
<td>Tall yellow brick stack near head of navigation on Glen Cove Creek.</td>
</tr>
<tr>
<td>School</td>
<td>40°- 53.51</td>
<td>73°- 38.18</td>
<td>White cupola on red brick school in the village of Glen Cove.</td>
</tr>
<tr>
<td>Pipe</td>
<td>40°- 50.98</td>
<td>73°- 38.68</td>
<td>Standpipe on highest point of hill above Sea Cliff. It is visible from almost all of Hempstead Harbor and well out onto the Sound.</td>
</tr>
<tr>
<td>Light</td>
<td>40°- 51.15</td>
<td>73°- 39.06</td>
<td>Small red light on top of a cast iron standard at outer end of a jetty off of Seacliff beach.</td>
</tr>
<tr>
<td>Square</td>
<td>40°- 50.95</td>
<td>73°- 39.07</td>
<td>Square yellow cupola of house on Seacliff bluff about the point where the shoreline makes a rather sharp turn to the southward.</td>
</tr>
<tr>
<td>Gone</td>
<td>40°- 50.90</td>
<td>73°- 39.22</td>
<td>Flagpole on corner of dock at boathouse just south of the bend in the shoreline at Seacliff. This is not the flagpole on the building but the one on the northwest corner of the dock.</td>
</tr>
<tr>
<td>Dome</td>
<td>40°- 50.73</td>
<td>73°- 39.19</td>
<td>Green dome on a residence on the Seacliff bluff. There are two domed residences in this neighborhood but this is set in the trees and is about three quarters of a mile north of the other one.</td>
</tr>
<tr>
<td>Near</td>
<td>40°- 50.62</td>
<td>73°- 40.15</td>
<td>Flagpole at inshore end of a dock near a well built bath house.</td>
</tr>
<tr>
<td>Far</td>
<td>40°- 50.73</td>
<td>73°- 40.19</td>
<td>Property survey marker (a cross cut in top of a granite monument) near the high tide line and about twenty feet north of a large boulder on the beach.</td>
</tr>
<tr>
<td>Bee</td>
<td>40°- 50.83</td>
<td>73°- 40.25</td>
<td>Flagpole on corner of concrete bulkhead (Northeasterly corner). This bulkhead is painted white and is readily visible all over this part of the harbor. There is an artificial swimming pool on the area protected by this bulkhead.</td>
</tr>
<tr>
<td>Stuck</td>
<td>40°- 50.86</td>
<td>73°- 40.32</td>
<td>North chimney of a large white stucco house.</td>
</tr>
<tr>
<td>Wet</td>
<td>40°- 50.86</td>
<td>73°- 40.28</td>
<td>Flagpole on south gable of a bath house near the high water line.</td>
</tr>
<tr>
<td>East</td>
<td>40°- 50.92</td>
<td>73°- 40.38</td>
<td>East gable of shingle and wood house about fifty meters in from the beach.</td>
</tr>
<tr>
<td>Bat</td>
<td>40°- 51.53</td>
<td>73°- 40.89</td>
<td>West gable of small green bath house on the beach near the tripod of the New York Fish Commission which is the Coast Survey Station New York.</td>
</tr>
<tr>
<td>NAME</td>
<td>LATITUDE</td>
<td>LONGITUDE</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>------</td>
<td>-----------</td>
<td>------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Gab</td>
<td>40° 51.68</td>
<td>73° 41.07</td>
<td>East gable of small green bath house on edge of bluff above high tide line about 170 meters from the end of a substantially built stone sea wall.</td>
</tr>
<tr>
<td>Chim</td>
<td>40° 51.57</td>
<td>73° 41.11</td>
<td>North chimney of house about 70 meters back from high water line.</td>
</tr>
<tr>
<td>Pil</td>
<td>40° 51.61</td>
<td>73° 41.18</td>
<td>Stone pillar at end of long stone breakwater. This breakwater is very substantially built and has about a five foot sidewalk on top of it.</td>
</tr>
<tr>
<td>Gug</td>
<td>40° 50.94</td>
<td>73° 40.67</td>
<td>Cupola on red roof house on west hill of Hempstead Harbor. The signal is the center of the tower not the chimney which is to one side of the center of the tower.</td>
</tr>
</tbody>
</table>
LOW WATER LINE

In common with other topographic sheets executed during the present (U.S. Coast and Geodetic Survey) season, the location of the low water line on this sheet was a distinct job in itself. In the entire low water line was visited during periods of low water and the low water line located with due regard for existing tidal conditions.

PROFUSE OBJECTS - LANDMARKS

Also in common with the other topographic sheets executed during the present season, there are numerous extensive estates located over the area coming within the limits of this sheet. Some of these large buildings on these estates comprise the most prominent objects of the landscape.

As these buildings are not only of outstanding prominence but also have particular promise of permanence, it is believed that the chart should show a reasonable number of them. Accordingly the principal objects of this character (at frequent intervals) have been listed on Form 567 "Landmarks for charts". In each case some particular point of the structure has been located.

CONNECTION WITH WORK OF U.S. ENGINEERS

Coast and Geodetic Survey triangulation furnished control for sheets "K" and "L", while triangulation of the U.S. Engineers furnished control for sheet "J" which covers the lower portion of Hempstead Harbor.

The line \( \triangle \) Glen Cove L.t. \( \triangle \) New York is the base for the extension of the U.S. Engineers triangulation into Hempstead Bay. Connection was made on this line between the triangulation of the Coast and Geodetic Survey and the U.S. Engineers. The value determined for both the azimuth and distance of this line was slightly different than that originally used by the U.S. Engineers. The different values for both the azimuth and distance of this line \( \triangle \) Glen Cove L.t. \( \triangle \) New York are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Azimuth Difference</th>
<th>Log distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Engineers</td>
<td>267 - 265 = 2( ^\circ ) 0&quot;</td>
<td>3.226342</td>
</tr>
<tr>
<td>C. &amp; G. Survey</td>
<td>267 - 265 = 06.1&quot;</td>
<td>3.226363</td>
</tr>
<tr>
<td>Difference</td>
<td>2( ^\circ ) 0&quot;</td>
<td>-0.00021</td>
</tr>
</tbody>
</table>

The above differences of azimuth and distance for the line \( \triangle \) Glen Cove L.t. \( \triangle \) New York were properly allowed for when converting the U.S. Engineers triangular co-ordinates of these stations into geographic positions for plotting on topographic sheet "J".

RECOVERY - OLD INTERSECTION TRIANGULATION STATIONS

The following former intersection triangulation stations were recovered during the course of the present topography:

Sheet "K" - Cone - Side - Stack - Sky - Green - Brown - Tow (all 1930);
Point and New York (1917 - re-determined 1933); Tall Tank, Manhasset 1932.

Sheet "L" - Tank (Oak Neck) - Staff - Yel (all 1930); Dock - White - Will (all 1931).
CHANGES

Along shore line there have been numerous minor changes of filling and excavating, mostly the former. There has also been many changes among the small boat landings; many old ones gone and many new ones built. These scarcely merit individual mention; they are all corroborated by the aerial photography.

ACCOMPANYING DATA:

(a) Blue prints Nos, 11156287 (Sheet No.2) and 11627395 (sheets Nos. 1 and 2). These prints are of Glen Cove and Hempstead Bay respectively. One them are shown the U.S. Engineers triangulation stations, their scheme being extended from the base\(\Delta\) Glen Cove Lt. \(\Delta\) New York which base was tied into the C. & G. Survey work during the present season.

(b) Description and position (rectangular co-ordinates) of twenty five triangulation stations of the U.S. Engineers.

(c) Computations for the conversion of the above rectangular co-ordinates into geographic positions for plotting on topographic sheet "J". In these computations due allowance was made for the new determination of the base\(\Delta\) Glen Cove Lt. \(\Delta\) New York. Computations were only made for each stations as were recovered and used for control.

Harold A. Cotton,
Chief of Party.

Card Form 524 accompany this report for the following stations

STAK - RAIN - HAIL - GATE - LAND - ROAD - PILE - COR - PAV - KONK -
WEEK - RED - MAN - ARMY
# Landmarks for Charts

**Homerock, N.Y.**

November 13, 1935

**Director, U.S. Coast and Geodetic Survey:**

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

*Harold A. Cotton*

Chief of Party.

<table>
<thead>
<tr>
<th>Description</th>
<th>Position</th>
<th>North American Datum</th>
<th>Method of Determination</th>
<th>Charts Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>H.W. Chim. White House on hill</td>
<td>40 53 1151</td>
<td>73 38 395</td>
<td>White P.T.</td>
<td>223, 222, 1213</td>
</tr>
<tr>
<td>Yellow chimney on red roofed house</td>
<td>40 52 1158</td>
<td>73 39 281</td>
<td>Red P.T.</td>
<td>223, 1213</td>
</tr>
<tr>
<td>Green Glass roof conservatory</td>
<td>40 52 697</td>
<td>73 39 286</td>
<td>Glass P.T.</td>
<td>223</td>
</tr>
<tr>
<td>Red roof surmounted by flag pole</td>
<td>40 52 506</td>
<td>73 39 2</td>
<td>Tow Trian.</td>
<td>223, 1213</td>
</tr>
<tr>
<td>Yellow brick stack on Hill above Seaciff</td>
<td>40 51 305</td>
<td>73 38 549</td>
<td>Stack Trian.</td>
<td>223</td>
</tr>
<tr>
<td>Standpipe on hill above Seaciff</td>
<td>40 50 1816</td>
<td>73 38 962</td>
<td>Pipe P.T.</td>
<td>223, 1213</td>
</tr>
<tr>
<td>White cupola on red brick school</td>
<td>40 51 942</td>
<td>73 38 225</td>
<td>School P.T.</td>
<td>223</td>
</tr>
<tr>
<td>Boathouse-cupola</td>
<td>40 51 654</td>
<td>73 38 1500</td>
<td>Old P.T.</td>
<td>223</td>
</tr>
<tr>
<td>Castellated tower</td>
<td>40 51 1473</td>
<td>73 42 97</td>
<td>Sky Trian.</td>
<td>223, 1213</td>
</tr>
<tr>
<td>Green Roof tower</td>
<td>40 51 1220</td>
<td>73 41 1257</td>
<td>Green Trian.</td>
<td>223, 1213</td>
</tr>
<tr>
<td>Seaward chimney on brown brick house</td>
<td>40 51 1234</td>
<td>73 41 546</td>
<td>Brown Trian.</td>
<td>223, 1213</td>
</tr>
<tr>
<td>Tower on red house on hill</td>
<td>40 50 1700</td>
<td>73 40 941</td>
<td>Gug P.T.</td>
<td>223</td>
</tr>
<tr>
<td>White bulkhead and seawall ['flagstaff']</td>
<td>40 50 1537</td>
<td>73 40 233</td>
<td>Sec P.T.</td>
<td>223</td>
</tr>
<tr>
<td>North chimney of house</td>
<td>40 51 1020</td>
<td>73 41 152</td>
<td>Chim P.T.</td>
<td>223</td>
</tr>
</tbody>
</table>

This list only from Topographic sheet "A" (H.A. Cotton-1935) For landmarks other than from Topo. sheets see special report (same form) For charts 222, 1213 and 223.

A list of objects carefully selected because of their value as landmarks as determined from seaward together with individual descriptions, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report.

The selection, determination, and description of these points are an important factor in the value of the chart. Landmarks selected at appropriate intervals can be clearly charted. However, when none is outstanding, a group of two or three objects may by their interrelationship provide positive identification. A group so selected should be indicated.

The description of each object should be short, but such as will clearly identify it; for example, a standpipe, elevated tank, gas tank, church spire, tall stack, red chimney, radio mast, etc. Assign numerals to landmarks to indicate: (1) offshore, (2) inshore, (3) harbor, 1, 2, 3 would be a mark useful on all charts. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

1. As for chart 1213
2. & 3. As for charts 222-223
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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. "F"

REGISTER NO. 6029 Graphic Control

State______________________

New York______________________

General locality______________________

Long Island Sound______________________

Locality______________________

North portion of Hempstead Harbor______________________

Scale______________________

1:10,000______________________

Date of survey______________________

September-October, 1933______________________

Vessel______________________

Project HT-134______________________

Chief of party______________________

Harold A. Cotton______________________

Surveyed by______________________

W. O. Hinkley______________________

Inked by______________________

A. Black______________________

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated______________________

March 23rd, 1933______________________

Remarks: ________________________________

........................................................................................................................................

...
1. This survey has been reviewed in connection with Air Photo Compilation Nos. T-5092, 5333, with particular attention to the following details:
   
   (a) Projection has been checked in the Field.
   
   (b) Accuracy of location of plane table control points.
   
   (c) Discrepancies between detail on this survey and the air photo compilations listed above.
   
   (d) Discrepancies found in descriptions submitted on Form 524 when compared with the air photo compilations listed above.

2. Refer to the reviews and descriptive reports of air photo compilations Nos. T-5092, 5333, for a more complete discussion of any errors or discrepancies found.

   Any material errors found on this survey are noted in subsequent paragraphs of this review, and these have been reported to the Field Records Section and the Cartographic Section.

   Notes and corrections resulting from the review are shown on this survey in green.

   There were 9 stations described on Form 524. A small letter (a) was applied in green after each of the following stations:

   ROAD, PILE, RED, ARMY, WEEK, KONK, PAY, COR, MAN.
   STEP, RAIN, HAIL, GATE (Blue)

   [Signature]

   T-5333
   T-5092

   [Signature]

   JBG Jones