

5079

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: New York

DESCRIPTIVE REPORT

Photo  
Topographic

~~Hydrographic~~

Sheet No. T5079

LOCALITY

Eastern Long Island

620

Applied to chart 1211 J.M.A. Feb 11, 1937

-1-  
DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. 29

REGISTER NO. T5079

State New York

General locality Eastern Long Island

Locality Montauk Village to Montauk Point

Scale 1:10,000 Date of ~~survey~~ Photographs May 5, 1933  
Date of Compilation Aug. 3, 1934

~~Vessel~~ Air Photo Compilation Party No. 12, New York City

Chief of party Roswell C. Bolstad

Surveyed by See data sheet enclosed in Descriptive Report for this sheet.

Inked by J. K. Batchellor

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

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

Instructions dated November 15, 1932

Remarks: Compiled on scale of 1:11,628 and enlarged and

printed on scale of 1:10,000 by Photo Lithography.

- STATISTICS -

on

SHEET, FIELD NO. 29, REG. NO. T5079

PHOTOS, NO. M116 (881-14) TO NO. M131 (881-14) TIME 11:20 A.M.

PHOTOS, NO. M143 (886D-8) TO NO. M154 (886D-8) TIME 9:42 A.M.

DATE OF PHOTOGRAPHS M116 - M131 Five lens May 5, 1933

DATE OF PHOTOGRAPHS M143 - M154 Single lens Sept. 19, 1933

	BY	DATE FROM TO
ROUGH RADIAL PLOT	<u>W.E. Hackett</u>	<u>11/26 - 11/26/33</u>
SCALE FACTOR (0.860)	<u>W.E. Hackett</u>	<u>11/26 - 11/26/33</u>
SCALE FACTOR CHECKED	<u>J.P. O'Donnell</u> <u>W.H. Burkett</u>	<u>11/26 - 11/26/33</u>

COMPILED BY DEBORAH

for

AIR PHOTO TOPOGRAPHIC SHEET FIELD NO. 29

GENERAL INFORMATION

The AIR PHOTO FIELD INSPECTION REPORT, 1933, of Lieut. L.C. Wilder for Eastern Long Island, N.Y. furnished the necessary field data for the compilation of this sheet. Additional information was obtained from the field prints and in questionable

These signals have been shown on the celluloid topographic sheet by a double blue circle (⊙) together with the name, given on the aluminum control sheet, with the exception of station Gun which is also shown with a black circle since it was used as a Recoverable Topographic station. As the blue ink will not photograph during the photo-lithographic process, no record of these topographic control signals (banners and flags) will appear on the finished sheet.

If it is the desire of the Chart Section to have these shown, they may be indicated in red ink with the usual circle and topographic name; this may best be done by draftsmen in the Washington Office as they will have all the data at hand.

In the compilation of this sheet not all of the control stations shown on the aluminum control sheets were used as control since the field inspection took place before the aluminum control sheets had been finished by the field party and the field party had not established all of the control in this area. However, many natural objects used as control on the aluminum control sheets could be definitely spotted in the office with the aid of the stereoscope and these were used as supplementary control.

The aluminum control stations used for supplementary control of this sheet have been plotted from positions scaled from the aluminum control sheets.

(B) Errors

The control, on this sheet, is, in general, strong and the radial plot, which gave good intersections, did not indicate any errors or discrepancies between the positions obtained from the aluminum control sheets and those obtained from the radial plot. It should be noted that the aluminum control sheets were executed on a scale of 1:20,000 and 1:5,000 whereas the scale on this sheet is 1:11,628.

(C) Discrepancies

No control stations established by other organizations were used in this compilation.

COMPILATION

(A) Method

The usual radial line method of plotting was used in the compilation of this sheet.

(B) Adjustments of Plot

There is an appreciable scale fluctuation between this sheet and the five lens photographs, especially Nos. M117, M118 and M119, also slight tilt in these photographs, which made adjusting and proportioning necessary between radial points. The single lens photos, Nos. M143 to M154 inclusive, are considerably off scale from the sheet and were used primarily to identify topography in the wing prints of the five lens photographs.

However, by holding to all available control for this sheet excessive adjustment, to the extent of causing

any appreciable error, was not necessary.

(C) Interpretation

The usual graphic symbols were used as approved by the Board of Surveys and Maps, 1932.

There was little difficulty encountered in the interpretation of the prints except in the central and northern portions where the wing prints were considerably blurred and some difficulty was experienced in the interpretation of marshy areas and woodland. Some buildings may have been omitted in this section of the sheet, for instance the aluminum control sheet No. 4768 shows a row of three houses along the road on Star Island only two of which are discernable on the photograph.

The double full line was used to indicate first order roads and double broken line for private driveways and roads of lesser importance. An exceedingly poor road, abandoned road and trails were shown as a single dashed line. The classification, in most cases unless labeled on the field prints, was determined from the appearance under the stereoscope.

The fire lines, consisting of plowed furroughs, along highway No. 27 have been symbolized by a short dash line.

The estimated accuracy given on the  
opposite page is too high for work on  
this scale. A better estimate is an  
accuracy of location of 3 to 5 meters  
for interconnected points and 3 to 8  
meters for other details.

B.G. Jones



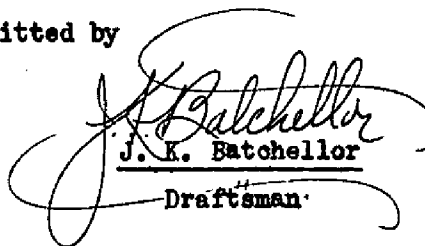
sheet (Sheet No. 4768), also see photos M151-M149 (886D-8).

The high water line of the inlet to Oyster Pond, lat.  $41^{\circ} - 04'$  to  $41^{\circ} - 05'$ , long  $71^{\circ} - 53'$  to  $71^{\circ} - 54'$ , cannot be positively interpreted as to position. The topo sheet, No. 4767, was followed as far as it went and from there on the best possible interpretation places the high water line as shown. The limits of the shoal area shown by a short dashed line are somewhat indefinite on the photographs but have been given the best interpretation possible to show the channel (see photo M143 (886D-8) and "C" print of M119 (881-14). No outlet for this channel is visible on the photographs but, according to the notes of the field inspection party, the water broke through in September, 1933 and has therefore been shown as such on this compilation sheet.

The topo sheet shows a considerable marsh area west of the highway in the vicinity of lat.  $41^{\circ} - 04.4'$ , long.  $71^{\circ} - 56.6'$ . However, a stereoscopic inspection of the photographs of this area indicates that the area is well above the water level of the vicinity with the exception of the small area so indicated. It is believed that the topographer may have sketched in this marsh,

To the best of my knowledge this sheet is complete in all detail of importance for charting purposes, within the accuracy stated above, and no additional surveys are required.

Submitted by

  
J. K. Batchelor  
Draftsman

Assisted by:

  
A. K. Spalding  
Surveyor

LIST OF RECOVERABLE TOPOGRAPHIC STATIONS

(Includes all recoverable objects, sufficiently prominent for use as hydrographic "fixes", shown as topographic stations with small black circle on this sheet and not described on Form 524 by this party.)

<u>Description</u>	<u>Latitude</u>			<u>Longitude</u>			<u>Height</u>	<u>Method of Determination</u>
	°	'	D.M. Meters	°	'	D.P. Meters		
(Nut) - E. Gable								A.C.S., 1933
W. House Blue	41	03.6		71	52.0			Reg. No. 4767
(Lov) - S.E.								A.C.S., 1933
Corner Bldg.	41	03.7		71	56.1			Reg. No. 4768
(Gun) - Montauk			04.2			55.9		A.C.S., 1933
Yacht Club	41	<del>03.1</del>		71	<del>56.9</del>			Reg. No. 4768
			(1414.5)			(1088.8)		A.P.T.
Tower	41	03	436.4	71	57	312.8		1934

Note: A.P.T. denotes air photo topography.  
A.C.S. denotes aluminum control sheet.  
Name in parenthesis preceding the description is the topographic station name as given on the aluminum control sheet.

## REVIEW OF AIR PHOTO COMPILATION NO. T5079

Chief of Party: Roswell C. Bolstad

Compiled by: (See page 2,  
Des. Report)Project: New York Air Photo Compilation Instructions dated: Nov. 15, 1932  
Party No. 12

1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
2. Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)  
See paragraph (C) page 5, also COMPARISON WITH OTHER SURVEYS, page 5.
3. Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d,e)  
See paragraph CONTROL (A), page 3.
4. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)  
See paragraph CONTROL (A) page 3.
5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.  
There are no differences on this sheet.
6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)  
See paragraph CONTROL (A), page 3 and paragraph COMPILATION (B) page 4.
7. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)  
See paragraph (D) page 5.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

10. In the preceeding Compiler's Report, paragraph LANDMARKS, the tower at Montauk, mentioned as being indistinct on the photos, has been pricked by the field inspection party and marked on the field print, photo No. M131 (881-14) "C" print. Lieut. (j.g.) R.C. Bolstad, who made the field inspection of this area radial plotted in the tower and it is shown on this sheet (position, lat. 41°- 03'- 436.4 m., long. 71°- 57'- 312.8 m.) as a Class (C) landmark (see Descriptive Report T5059 for classification). As the tower is located in a slight depression with hills rising between it and the water-front, the upper portion only would be visible and its prominence would not be as marked as the Montauk Manor Hotel Cupola located south east a short distance.

The two jetty lights at the entrance to Lake Montauk have been recommended as Class (AB) landmarks in Lieut. L.C. Wilder's November 4, 1933 report. However, no mention has been made of them by Lieut. A.P. Ratti, who later carried on the field work in this area. The radial plot checked the position of the east jetty light as located on the aluminum control sheet by Lieut. A.P. Ratti. The west light was not yet constructed at the time (Aug. 1933) the field inspection of photos took place (see photo field print No. M125 (881-14) "C" print) therefore the position as shown on the aluminum control sheet has been accepted. Both lights are "B" Class landmarks and should be charted on large scale charts.

12. The name, Lake Montauk, was verified by the air photo field inspection party. (see 1933 report of Lieut. L.C. Wilder.)

See Review

8. The representation of low water lines, ~~xxxxx~~, ~~xxxxx~~ ~~xxxxx~~ and ~~xxxxx~~, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)  
See report of Control Party, Lieut. A.P. Ratti in 1933.
10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934. Landmarks San Chanta

3. All station points are exactly marked by fine black dots.
4. Closely spaced lines are drawn sharp and clear for printing.
5. Topographic symbols for similar features are of uniform weight.
6. All drawing has been retouched where partially rubbed off.
7. Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

16. No additional surveying is recommended at this time.

17. Remarks: Any additional notes and requirements affecting this area are referred to Lieut. A.P. Ratti's Reports covering the topography executed in 1933 under his charge.

18. Examined and approved;  
Preliminary Review:

*A. K. Spalding*  
A. K. Spalding

Surveyor

*Roswell C. Boistad*  
Roswell C. Boistad

Chief of Party

19. Remarks after review in office:

*See following pages*

<sup>J.A.<sup>3</sup></sup>  
Reviewed in office by: *B. G. Jones*

Examined and approved:

*E. H. Green*

Chief, Section of Field Records

*L. O. Polk*

Chief, Division of Charts

*F. S. Bordin*

Chief, Section of Field Work

*G. H. Hude*

Chief, Division of Hydrography  
and Topography.

REVIEW OF AIR PHOTO COMPILATION T-5079 (1934)

Comparison with Other Surveys:

1. T-4767 (1933), 1:20,000; T-4768 (1933), 1:5,000; and T-6097 (1934), 1:20,000, plane table control surveys, show shore-line and location of signals in this area and agree with the compilation except as noted on page 6 of the preceding report.

2. Comparison with the last previous plane table survey T-2106 (1892) shows minor changes. The compilation is adequate to supersede T-2106.

Names:

The name Montauk Harbor has been approved by the Geographic Board for the body of water discussed on page 5 and opposite page 10.

*B.G. Jones*



Date. April 3, 1935

GEOGRAPHIC NAMES

Survey No. T-5079

Chart No. 1211

Diagram No. \_\_\_\_\_

Approved by the Division of Geographic Names, Department of Interior. ✕

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>BLOCK ISLAND SOUND</u>	Same			
	<u>CULLODEN POINT</u>	"			
	<u>MONTAUK YACHT CLUB</u>				
	<u>SHAGWONG POINT</u>	"			
	<u>REED POND</u>				
	<u>PROSPECT HILL</u>				
	<u>OYSTER POND</u>	"			

