

5086

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

State: New York

DESCRIPTIVE REPORT

Topographic } Sheet No. T5086
Hydrographic }

LOCALITY

South Shore of Long Island

Fire Island Beach between Blue Pt.

C. G. Station and Point of Woods

C. G. Station

1933

CHIEF OF PARTY

Roswell C. Bolstad, Jr. H. & G. E.

U. S. GOVERNMENT PRINTING OFFICE: 1921

5086

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5086

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. 35

REGISTER NO. T5086 5086

State New York

General locality South Shore of Long Island

Locality Fire Island Beach between Blue Pt. C.G. Sta. and Point of Woods C.G. Station. Photographs

Scale 1:10,000 Date of ~~survey~~ Feb. 22, 1933
Date of Compilation Nov. 27, 1933

~~Vessel~~ Air-photo Compilation Party No. 12

Reviewed and recommended for approval - *Roswell C. Bolstad*

Chief of party Roswell C. Bolstad, Jr. H. & G. E.

Surveyed by U. S. Army Air Corp

Inked by C. C. Richardson

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

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

Instructions dated November 15, 1932

Remarks: Actual scale of celluloid sheet is 1:9,479. Compilation of single lens aerial photographs Nos. V-87 to V-104 (876). Final sheet to be reduced to 1:10,000 scale and printed by photolithographic process.

Polyconic Projection by
Projection Verified by
Control Plotted by
Control Verified by

E. W. Fickenscher
J. P. O'Donnell
E. W. Fickenscher
C. C. Richardson

Nov. 3, 1933
Nov. 3, 1933
Nov. 13, 1933
Nov. 13, 1933

FIELD REPORT
for
AIR PHOTO TOPOGRAPHIC SHEET FIELD NO. 35

No report has been submitted by the field inspection party for this area. Reference is made to the notes submitted in the field report as listed in the descriptive report for Air-photo Topographic Sheet, Reg. No. T5080.

CONTROL.

Triangulation and topography (1:20,000 scale aluminum control sheets, showing high water line and control signals) executed by the party of Lieut. Comdr. R. P. Eyman in 1933 forms the basis of control for this area.

LIST OF NAMES.

No new names were submitted nor labeled on the field print photographs by the field inspection party.

LIST OF RECOVERABLE OBJECTS.

The list of recoverable objects for this sheet is included in the descriptive reports of Topographic Sheets "D" and "E" of Lieut. Comdr. R. P. Eyman, 1933.

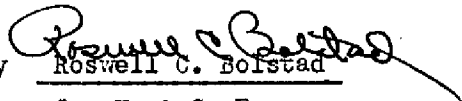
LANDMARKS.

The necessary landmarks were submitted by Lieut. Comdr. R. P. Eyman November 9, 1933 for the area included in this sheet.

MISCELLANEOUS.

Any additional notes and requirements affecting this area are included in the above mentioned reports of Lieut. Comdr. R. P. Eyman.

Submitted by


Roswell C. Bolstad

Jr. H. & G. E.

- NOTES ON COMPILATION -

SHEET NO. 35

PHOTOS, NO. V-87 (876-18) TO NO. V-104 (876-31)

DATE OF PHOTOGRAPHS Feb. 22, 1933 TIME 11:45 A. M.

| | BY | DATE |
|--------------------------|-------------------------|-------------------------|
| ROUGH RADIAL PLOT | <u>C. R. Weaver</u> | <u>10/26/33</u> |
| SCALE FACTOR (1.055) | <u>G. R. Weaver</u> | <u>10/27/33</u> |
| SCALE FACTOR CHECKED | <u>J. P. O'Donnell</u> | <u>10/27/33</u> |
| PROJECTION | <u>W. J. K. K. K.</u> | <u>11/3/33</u> |
| PROJECTION CHECKED | <u>J. P. O'Donnell</u> | <u>11/3/33</u> |
| CONTROL PLOTTED | <u>W. J. K. K. K.</u> | <u>11/13/33</u> |
| CONTROL CHECKED | <u>C. C. Richardson</u> | <u>11/13/33</u> |
| TOPOGRAPHY TRANSFERRED | <u>C. C. Richardson</u> | <u>11/13/33</u> |
| TOPOGRAPHY CHECKED | <u>J. P. O'Donnell</u> | <u>11/13/33</u> |
| SMOOTH RADIAL LINE PLOT | <u>C. C. Richardson</u> | <u>11/14/33</u> |
| RADIAL LINE PLOT CHECKED | <u>J. P. O'Donnell</u> | <u>11/16/33</u> |
| DETAIL INKED | <u>C. C. Richardson</u> | <u>11/17 - 11/27/33</u> |

AREA OF DETAIL INKED 1.4 sq. Statute Miles (Land Area)

AREA OF DETAIL INKED 0.6 sq. Statute Miles (Shoals in Water Area)

LENGTH OF SHORELINE (more than 200 m. from nearest opposite shore)
14.23 Statute Miles

LENGTH OF SHORELINE (rivers and sloughs less than 200 m. wide)
none Statute Miles

GENERAL LOCATION South Shore of Long Island

LOCATION Fire Island Beach between Blue Pt. C.G. Sta. and Point of Woods

DATUM North American 1927 C. G. Station.

STATION Lone Hill 2 Latitude 40° - 39' - 57.522" (1774.3 m.)
Longitude 73° - 04' - 29.784" (699.6 m.)

COMPILER'S REPORT
for
AIR PHOTO TOPOGRAPHIC SHEET FIELD NO. 35

GENERAL INFORMATION.

The only available aids in the compilation of this sheet have been secured from the notes on the field prints, the preceding report on field inspection, and additional information furnished by Lieut. (j.g.) R. C. Bolstad in questionable areas.

The accompanying NOTES ON COMPILATION details all data in connection with compilation of this sheet.

There is very little tide in Shinnecock Bay (about $\frac{1}{2}$ foot range at Bellport, from predicted tide tables) and its affect was neglected. Along the outer coast the tide was about 2 feet below mean high water (from predicted tide tables) at the time these photographs were taken but the interpretation of the high water line from the photographs was not affected by this as explained in the field report inclosed in the descriptive report for Air-photo Topographic Sheet Reg. No. T5080.

This sheet was compiled from the photographs taken Feb. 22, 1933 at 11:45 A. M. by Captain Willis R. Taylor of the U. S. Army Air Corps with their single lens camera and cover the compilation of photograph numbers V-87 (876-8) to V-104 (876-8) inclusive.

CONTROL.

(A) Sources.

The following sources of control were used in the compilation of this sheet:

- (a) Triangulation by R. P. Eyman in 1933.
- (b) 1933 Aluminum Control Sheet, (Eyman's field sheet "D") Reg. No. 6043
- (c) 1933 Aluminum Control Sheet, (Eyman's field sheet "E") Reg. No. 6007

The field party's geographic positions were used; these are on the N. A. 1927 Datum. The difference between the unadjusted and the final adjusted positions would be unplotable at the scale of this compilation (1:9,479).

In addition to the triangulation, and the high water line from the Aluminum Control Sheets, the following topographic signals (shown on the Aluminum Control Sheets) were spotted on the photos and were used in controlling this sheet:-

Banner (near Water Id. Yacht Club)
Chimney (mid-way between E. end of Bldg. and dormier window, Water Id. Yacht Club)
Bath House (South Gable)
Dick
Sam
Bet
Spec
Cut
Flag Pole (front of boat house)

They have been shown on the celluloid topographic sheet by a double blue circle (⊙) together with the name (as shown on the Aluminum Control Sheets) in blue. Since the blue 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.

All aluminum control stations used for supplementary control on this sheet have been plotted from the positions given in the Descriptive Reports of Lieut. Comdr. R. P. Eyman's Topographic Sheets "D" and "E", 1933.

(B) Errors.

In making the radial plot for this sheet the following relocations of spotted Aluminum Control Sheet signals resulted:

✓ ⊙ Tri - This is known as "Flag Pole (front of boat house)" in the preceeding paragraph - new position as determined by radial plot lies 4 meters distant on azimuth 88° (from north) from the position as given on the Aluminum Control Sheet. As three measured distances were made on the field prints by the field inspection party for the location of this signal the spotting was verified. The control is strong in this locality and the photograph V-103 (876-14) checks all control stations with the exception of this one station.

No other errors in the control stations were discovered.

It is to be noted that the Aluminum Control Sheet was executed on a scale of 1:20,000 whereas this sheet is on the scale of 1:9,479.

(C) Discrepancies.

No other 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.

The photographs in this strip appear to be free of excessive tilt and scale fluctuation and the radial plot required no unusual adjustments.

(C) Interpretation.

Only the usual graphic symbols were used as

listed in the Coast Survey Topographic Manual and those approved by the Board of Surveys and Maps (1932). No great difficulty was experienced in interpreting the photographic detail.

The double full line was used to indicate first order roads and the double broken line used for private driveways and roads of lesser importance. An exceedingly poor road or trail was shown as a single dashed line. In most cases (unless labeled on the field inspection prints) the classification had to be determined by the appearance under the stereoscope. In the vicinity of Point of Woods there are many walks (labeled on the field prints by the inspecting party); these are shown as a single dashed line on this sheet.

The limits of shoal water in Great South Bay have not been shown on this sheet as they are indistinct (probably due to a gradual tapering of the depth).

Along the outer shore the low water line was shown on this sheet by the conventional sanding and was gauged according to the appearance on the photographs.

(D) Information from Other Sources.

The high water line and marsh line was run in by the topographic party on the aluminum control sheets.

At Point of Woods a new dock, not shown on the photographs, was sketched on the field prints by the inspecting party with the necessary dimensions. This new pier together with an industrial railway track extending from it is now shown on this sheet. In this same locality there is a small boat slip just to the north of a boat club house. As no dimensions were given on the field prints, it was sketched on this sheet according to the sketching on the field print by the inspection party.

~~* See opposite page~~

(E) Conflicting Names.

There are no names on the sheet conflicting with names shown on the U. S. C. & G. S. Charts of this area. All new names shown were taken from the recent editions of U. S. Geological Survey Maps of that locality.

COMPARISON WITH OTHER SURVEYS.

The high water line along the outer coast was indistinct on the photographs so the high water line, as shown on the Aluminum Control Sheets, was accepted. The high water line along Great South Bay side agrees well with the high water line as shown on the control sheets.

LANDMARKS.

The landmarks herewith submitted cover all landmarks for this sheet. They are as follows:

(A) Submitted by Lieut. Comdr. R. P. Eyman, Nov. 9, 1933.

- ✓ (1) Blue Point Coast Guard Flag Tower ✓
- ✓ (2) Lone Hill Coast Guard Flag Tower (this is ✓
already shown on Chart 578)

(B) Landmarks to be retained (not included in Lieut. Comdr. R. P. Eyman's list, expunged or otherwise)

- ✓ (3) Blue Point Coast Guard Cupola (now on Chart 578) - ✓
appears more prominent than the Flag Tower (1)
submitted by Lieut. Comdr. R. P. Eyman.
- ✓ (4) Flagpole on West Gable Water Island Yacht Club -
(shown on Charts 578, 1214 & 52 as Hotel W.
Gable. It should be changed to the above
description).
Latitude 40°-40'- 856.2 meters
Longitude 73°- 01'- ~~437.0~~ meters
Datum - North American 1927
Determined by Air Phot Topography 1933
- ✓ (5) Hotel, West Gable (now on Charts 52 & 1214. On ✓
Chart 578 named as Windmill. Should be changed
to the above description).
Latitude 40°- 39'- 1049.7 meters
Longitude 73°- 05'- 629.1 meters
Datum - North American 1927
Determined by Air Phot Topography, 1933
- ✓ (6) Tank, Point of Woods (now on Charts 578, 1214 & ✓
52. Mentioned in Lieut. Comdr. R. P. Eyman's
Descriptive Report as being worthy of Charting).
- ✓ (7) Flag Tower, Point of Woods Coast Guard (now on ✓
Chart 578. Mentioned in Lieut. Comdr. R. P.
Eyman's Descriptive Report as being worth of
charting).

(C) Previously uncharted landmark mentioned as worthy of ✓
charting in Lieut. Comdr. R. P. Eyman's Descriptive
Report but not submitted in his list).

- (8) Cherry Grove Hotel Flagpole. This was cut-in
by triangulation by Lieut. Comdr. R. P. Eyman
in 1933 and therefore must have some prominence. ✓
Suggest to use landmark (5) listed above in
preference, as the Hotel, W. Gable is more
prominent and the permanency would be more
guaranteed.

The above landmarks include all landmarks (both new and
old) to be charted in this area. With the exception of the two
whose positions are given, these landmarks are listed under Lieut.
Comdr. R. P. Eyman's triangulation. In addition, the list of
Class (C) ^{objects} ~~landmarks~~ herewith submitted on a separate list may
be used as shown in the classification of landmarks in Descriptive
Report for Air-photo Topographic Sheet Reg. No. T5085.

In addition to all of the above there are many other objects
(such as shacks and houses, etc.) which are located within the
accuracy specified in the following chapter, RECOMMENDATIONS FOR
FURTHER SURVEYS, and may be used to obtain hydrographic "fixes".
Care should be taken in using the houses to use the center as the
size shown on this sheet may be expanded somewhat.

RECOMMENDATIONS FOR FURTHER SURVEYS.

The compilation of this sheet is believed to have a probable error of 2 meters in well defined detail of importance for charting and of 4 meters for other data. It is understood that the widths of roads and bridges and similar objects may be slightly expanded in order to keep the detail clear and to keep it from photographing as a solid area in the photo-lithographic process.

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.

ADDITIONAL NOTES.

In the vicinity of Latitude $40^{\circ}-40'$ plus, Longitude $73^{\circ}-01'$ plus, there are two docks shown on the colluloid sheet of this area. The location of these docks was obtained from a bromide of the aluminum control sheet since they did not show on the photographs of this area. The reason for the docks not showing on the photographs is undoubtedly due to the fact that the photographs were taken February 22, 1933 while the field work for the aluminum control sheet was completed much later in the year and the sheet itself about August. There is one other dock at Latitude $40^{\circ}-39'$ plus, Longitude $73^{\circ}-05'$ plus, which was located in the same way.

Submitted by

C. C. Richardson
C. C. Richardson
 Draftsman

Assisted by

Roswell C. Bolstad
Roswell C. Bolstad
 Jr. H. & G. E.

LIST OF RECOVERABLE TOPOGRAPHIC STATIONS

CLASS (C) ^{objects}
~~LANDMARKS~~ *

| Description | Position | | | | | | Datum | Method of deter- mination |
|--|----------|----|-------------------|-----------|----|-------------------|-------|---------------------------------|
| | Latitude | | | Longitude | | | | |
| | ° | ' | D.M. Meters | ° | ' | D.P. Meters | | |
| (Boy) Chim. on E. end of Water Id. | | | (985) | | | (114) | N.A. | 1933 |
| Yacht Club (C) | 40 | 40 | 866 | 73 | 01 | 1295 | 1927 | A.C.S. |
| (Bath) Gable bathhouse (C) | 40 | 40 | (1311) 540 | 73 | 02 | (798) 611 | " | " |
| (Spec) N. Gable of tall dark Ho. (C) | 40 | 39 | 597.6 (1253.2) | 73 | 07 | 356.2 (1053.4) | " | " |
| (Tri) Flag Pole (set in wh. wooden tripod near bulkhead (C) | 40 | 39 | 257.4 (1593.4) | 73 | 08 | 187.0 (1222.8) | " | A.P.T. * |

Note: A. C. S. stands for Aluminum Control Sheet.

Name preceeding description in parenthesis indicates topographic name shown on Aluminum Control Sheet.

For classification (shown in parenthesis after description) see paragraph Landmarks in Descriptive Report for Air-photo Topographic Sheet, Reg. No. T5086.

* A. P. T. stands for Air-photo Topography. Corrected position by radial plot; see paragraph (B) Errors in preceeding COMPILER'S REPORT.

These are recoverable objects which can be identified at close range (1 to 2 miles) and should not be charted except on exceptionally large scale charts. B.G.J.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO. T5086


Title (Par. 56) (See enclosed Title Sheet)

Chief of Party Roswell C. Bolstad Compiled by (See enclosed data sheet)

Project New York Air-Photo Compilation Instructions dated Nove. 15, 1932
Party No. 12


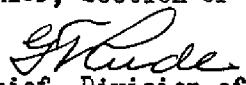
- ✓ 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.) Paragraph 8 not applicable to this party.
(See paragraph CONTROL in COMPILER'S REPORT)
- ✓ 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- ✓ 3. The control and adjustment of the radial plot were adequate.
(Par. 12, 29.)
- ✓ 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) *None submitted*
- ✓ 5. High water line on marshy ~~and mangrove~~ coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- ✓ 6. The representation of low water lines, ~~reefs, coral reefs and rocks~~ and shoal areas, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *See par. C under COMPILATION, Page 5 of Desc. Report.*
- ✓ 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front. Only such changes as given in the enclosed COMPILER'S REPORT, (D) Information from Other Sources, Landmarks and Additional Notes have been noted on this sheet.
- ✓ 8. The span, draw and clearance of bridges are shown. (Par. 16c.)
- ✓ 9. The data furnished by the Field Inspection is adequate.
(See enclosed Field Report)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

- ✓10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
- ✓11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
12. ^{No} The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) (See enclosed Field Report and Remarks below)
- ✓13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Submitted by Party of R.P. Eyman, 1933. See also Page 5 of the desc. report.
- ✓14. The geographic datum of the sheet is North American 1927 and the reference station is correctly noted. (Par. 34.) (See paragraph CONTROL in COMPILER'S REPORT)
- ✓15. Junctions with contemporary surveys are adequate.
- ✓16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
- ✓17. The quality of the drafting is ^{fair}~~good~~. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
18. No additional surveying is recommended.
19. Remarks: Any additional notes and requirements affecting this area are referred to Lieut. Comdr. R. P. Eyman's reports covering the topography executed in 1933 under his charge.
20. Examined and approved: 
Roswell C. Bolstad
Chief of Party
21. Remarks after review in office:

Reviewed in office by: B.G. Jones

Examined and approved:
K.T. Adams
Chief, Section of Field Records
L.O. Pollock
Chief, Division of Charts


Chief, Section of Field Work

Chief, Division of
Hydrography and Topography.