

ORIGINAL

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	Form 504 Ed. June, 1928 DEPARTMENT OF COMMERCE					
	U. S. COAST AND GEODETIC SURVEY. S. COAST & G. R.S. Patton Director U. S. COAST & G. LIDHARY A.	ODI D Al	ETIC RCHI			
	MAR	5	193			
	State: New York Acr No					
	DESCRIPTIVE REPORT					
	Topographic Sheet No. T508 5 5085					
	LOCALITY		•			
	South Shore of Long Island					
	Outer Coast between Ridge Island					
_	and Blue Point C. G. Station					
	<i>(</i> *					
	.19_33					
	CHIEF OF PARTY					
	Roswell C. Bolstad, Jr. H. & G. E.	-				

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

5085

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. 34

REGISTER NO. T5085

State New York
General locality South Shore of Long Island
Locality Cuter Const between Ridge Island and Blue Pt. C. G. Sta.
Scale 1:10,000 Date of Feb. 22 , 19.33 Date of Compilation Nov. 27, 1933
Reviewed and recommended for approval - Kreune Coloral Chief of party Roswell C. Bolstad, Jr. H. & G. E.
Surveyed by J. S. Army Air Corp. Inked by J. J. Lengton
Inked by J. Lanigan
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line interval
Instructions dated November 15 , 19 32
Remarks: Actual scale of celluloid sheet is 1.9.479. Compapitation of single lens aerial photographs Nos. V-103 to V-119. Final sheet to be reduced to 1:10,000 scale and printed by photolithographic process.
Polyconic Projection by W. H. Burwell; Oct. 11, 1933 Projection Verified by A. K. Spalding Oct. 11, 1933 Control Plotted by W. H. Burwell Oct. 11, 1933 Control Verified by J. P. Jones Oct. 13, 1933

FIELD REPORT

for

AIR PHOTO TOPOGRAPHIC SHEET FIELD NO. 34

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 (1:10,000 and 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 Sheet "E" and "F" of Lieut. Comdr. R. P. Eymen, 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. 1950 J.

- NOTES ON COMPILATION -

SHEET NO. 34

PHOTOS, No. V-103 (881-81) TO NO. V-119 (881-81)

DATE OF PHOTOGRAPHS Feb. 22, 1933 TIME	11:25 A. M.
BY	DATE
ROUGH RADIAL PLOT O.K. Skalding	9/28/33
SCALE FACTOR (1.055) a. K. Spolding	9/28/33
SCALE FACTOR CHECKED	9/29/33
PROJECTION w. H. Burwell	10/11/33
PROJECTION CHECKED G. K. Spalding	10/11/33
CONTROL PLOTTED W. H. Burwell	10/11/33
CONTROL CHECKED A. P. Janes.	10/13/33
TOPOGRAPHY TRANSFERRED 0, P. 2 anes. 6770	10/13/33 10/28/33
TOPOGRAPHY CHECKED J. P. D. Donnell	10/29/33
SMOOTH RADIAL LINE PLOT (. P. Jones	10/30/33
RADIAL LINE PLOT CHECKED 1 Pormell	10/31/33
DEATIL INKED J. J. Janigan	11/6 - 11/27/33 less two days on other work
AREA OF DETAIL INKED 2.0 sq. Statute Miles	(Land Area)
AREA OF DETAIL INKED 3.1sq. Statute Miles (Show	als in Water Area)
LENGTH OF SHORELINE (more than 200 m. from neares 14.7 Statute Mil	st opposite shore)
LENGTH OF SHORELINE (rivers and sloughs less than 8.2 Statute Mil	1 200 m. wide) les
GENERAL LOCATION South Shore of Long Island	,
LOCATION Outer Coast between Ridge Island and Bl	lue Pt. C. G. Sta.
DATUM North American 1927	
Latitude 40°-	- 42' - 43.397" (1338.6 m.)
STATION FLAT - 1932 Longitude 72°	0-56' - 51.336" (1205.0 m.

COMPILER'S REPORT

FOR

AIR PHOTO TOPOGRAPHIC SHEET FIELD NO. 34

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 hight water (from predicted tide tables) at the time these photographs were taken but the cinterpretation 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 11:25 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-103 (881-18) to V-119 (881-8)

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 "E") Reg. No. 6007

(c) 1933 Aluminum Control Sheet (Eyman's

field sheet "f") Reg. No. 60/4
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 unplottable 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 photogrand were used in controlling this sheet:-

Pole	Shak	Red Chy (on yel. ho.)
White Banner	Pip	White Banner
HI	Fire	Center of Grey Ho.
In	Hel	C. G. Tel. Call Sta.
Dun	Brick Chy.	Lookout Tower

Office Keview

Station "White Banner". The radial plot is strong here and a good intersection was obtained for the location of this point. However, the spotting of the point on the photographs is questioned. As stated on the opposite page, the banner does not show on the photographs and the Field Inspection Party may have made an error in pricking the exact point.

Inspection of the aluminum planetable control sheet T6014 and the descriptive report does not show any indication of an error in the position as shown on that sheet.

The position shown on T6014 should be accepted as correct unless verification of the hydrography shows some further indication of an error in that position.

Station "Hi". The radial plot is strong and a good intersection was obtained for the location of this point. However, the spotting of the point on the photographed is questioned. The pole could not be seen on the photos, and the field inspection party may not have pricked the exact point. The pole is on a sand beach where the photographs would show very little distinctive detail.

The descriptive report (page 3) for aluminum planetable control sheet T6007 states that the 4.5 mile #traverse from which station Hi was evidently located had a closing error of the meters due to shrinkage of the cord used as a tape. This closure was adjusted. The size of the closing error of the traverse indicates a probable error in all locations along this traverse. However, the air photo compilation agrees with other topographic stations located along this traverse and the difference between the air photo and planetable locations is in a direction approximately normal to the line of traverse.

Conclusion. The planetable position of station Hi should be accepted unless verification of the Hydrography shows some further evidence of error in that position.

Bg. gones

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

(B) Errors.

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

0 H.I. new position as determined by radial Lat 40-41.4 plot lies 23 meters distant on azimuth 3526 (from Lang. 72°-54.3 north) from the position as given on the Aluminum skee+ T6007 Control Sheet. The spotting of this signal on the photograph cannot be verified as the pole cannot be picked up with the aid of the stereoscope. However, the position as given on the Aluminum Control Sheet would place the signal on the beach in front of the sand dune and it is very unlikely that a signal would be located in this position. It is apparently an error on the Aluminum Control Sheet position.

O White Banner - new position as determined * No hame un by radial plot lies 21 meters distant on azimuth 4700 (from north) from the position as given on the Lat 40-43.2 Aluminum Control Sheet. The spotting of this signal Long. 72-54.3 on the photographs could not be verified as it is not distinguishable under the stereoscope, however, it appears that this signal is in error on the Aluminum Control Sheet as their position would place the signal in front of the sand dune.

The control is strong for this sheet and the radial plot gave good intersections. It is felt that both of the above listed signals are in error on the aluminum control sheet; there is the possibiltiy that the field party may have spotted the positions of these two signals erroneously on the field prints.

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

(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

Office Keview

The differences between the air photo plot and planetable sheets in the location of H.W. line along the inside shore amount to from five to twenty meters.

These differences are for short sections of the shore line and do not indicate a swing in azimuth or considerable error in the radial plot.

The differences are caused partly by differences in interpretation of the H.W. line by the rodman and by the compiler of the air photo sheet, and by sketching between rod readings on the planetable sheets.

The differences east of Long. 72°57' may also be caused by the large traverse adjustment mentioned on page 3 of the descriptive report for planetable sheet T6007.

The photo location on T5083 is considered the more accurate as the radial plot is strong; the compilation is on approximately 1:10,000 scale, whereas the planetable sheets are on 1:20,000; the compiler had the advantage of tracing directly from the photographs; and the compilation was made with knowledge of the differences which would tend towards increased care in plotting and tracing.

B.g. Jones

A companion with the Hydrographic that H 5367 a whom that the where line as donated on this air plate wheat does not conflict with the Hydrography. 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 ridge of sand dunes running along the outer coast were clearly evident under the stereoscope although the exact boundaries, as shown, may be some-what in error.

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.

All boundaries of shoal water areas (shown by single broken line) on this sheet were so indicated because of appearance on the photographs and they may be expected to have departure from actual conditions.

(D) Information from Other Sources.

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

(E) Conflicting Names.

There are no names on the sheet conflicting with names snown 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 as shown on the Aluminum Control Sheets agrees well with the high water line (in general) as shown on this Air-photo Topographic Sheet. At the junction of the two Aluminum Control Sheets (Field Sheets "E" and "F") in the vicinity of lengitude 72° - 56.3' the high water line along the outer coast fails to agree. In the vicinity of latitude 40° - 43.3', longitude 72° - 54.6' the small bight has evidently been sketched in by the topographer on the 1933 Aluminum Control Sheet and is in error.

In the vicinity of latitude 40° - 42', longitude 72° - 58.5' the west side of the shore line of the point has been erroneously shown by the Aluminum Control Sheet topographer.

As the 1933 Aluminum Control Sheet Topography is shown on the celluloid compilation sheet in blue any discrepancies with this Air-photo Topographic Sheet will be clearly apparent. See opposite page

LANDMARKS.

The list of landmarks submitted by Lieut. Comdr. R. P. Eyman (November 9, 1933) were available for the compilation

of this sheet. As this list, however, only includes new landmarks and landmarks to be expunsed and makes no mention offlandmarks to be retained on the charts, these landmarks were checked by their stereoscopic prominence.

The following classification of landmarks was used: -

- Classification (A) Extremely prominent can be seen from a long distance to be shown on both large and small scale charts.
- Classification (B) Prominent can be readily identified at close range but may loose prominence at a distance (about 3 miles) to be shown on large scale charts only.
- Classification (C) Learners of minor prominence these are recoverable objects which can be identified at close range (about 1 to 2 miles) and may be used by the Light House Service these should not be charted except on exceptionally large scale charts or where the hydrography is to be done on the regular air-photo topographic sheet.

There are no Class (A) Landmarks on this sheet.

The landmarks herewith submitted cover all the landmarks for this sheet (including those previously submitted by Lieut. Comdr. R.P.Eyman in 1933, those to be retained and any new landmarks appearing stereoscopically prominent or designated as prominent by the field inspecting party on the field prints).

The chimney shown on Chart 578 was located by the topographer on Lieut. Comdr. R.P. Eyman's Aluminum Control Sheet Field letter "E" and appears under the stereoscope to be a Class B landmark.

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.

See also last page of this report.

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.

Submitted by

Roswell C. Bolstad John

Assisted by

Jr. H. & G. E.

LIST OF RECOVERABLE TOPOGRAPHIC STATIONS Objects CLASS (C) LASSIANES

		Position					Method	
Description	Lat	Latitude		Longitude		Datum	of deter- mination	
·	0	1	P.M. Meters	0	t	D. P. Meters		miliacion
(In) N.W. Gablof Shack Shed (e C) 40	41	(668) 1183	72	59	(1345) 64	N.A. 1927	A.C.S. 1933 76067
(Dum) W. Gable of Shacksked (C) 40	41	(736) 1115	72	58	(42 2 :) 987	15	n 76007
Brick Chy. (wit weathervane) on S. Gable (42	(180) 1671	72	55	(584) 824	11	, T6014
(Chy) Center of House	f C) 40	42	(101) 1750	. 72	55	(627) 781	17	" T6014
(Flat) Center tank on top of hill		42	1338.6	72	56	1205.0	11	1932 Triang. 7644
Bellport C. G. Lookout Tower (C) 40	42	(557) 1294	72	55	(324) 1084	11	1933 A. C. S. 760/4
Center of Grey Shack sheel (3) r e't C) 40	43	(1158) 693	72	54	(1251) 157	11	п Т6 014
(Shak) Large Ch on House (6	him. C) 40	41	1623.0	72	58	15.0	11	n T6007

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. T5085.

The only objects included on this list are those qualifying as Class C lendmarks: objects.

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

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

Project New York Air-Photo CompilationInstructions 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".
- 73. 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 mangrave coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

and shoal areas

- /6. The representation of low water lines, reefstxouralxreefsxand rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) See Par. C under COMPILATION, page 5 of the 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. No changes in such details have been noted on this sheet. See page 5 for comparison with 1933 aluminum planetable contact.
- /8. The span, draw and clearance of bridges are shown. (Par. 16c.)
 There are no bridges on this sheet.
- /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. 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) Nodesc. un Form 514 Submitted as all recoverable topographic stations on this sheet were located on aluminum control sheets T 6007
- 13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.) Submitted by R.P. Eyman 1933 for this area. See also Page 5 of the desc. report.
- 74. 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 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. See also next page

20. Examined and approved:

Roswell C. Bolstad

Chief of Party

21. Remarks after review in office:

Reviewed in office by: 139 Jones

Examined and approved (

Chief Section of Field Records

chief, Section of Field Records

Chief, Division of

Hydrography and Topography.

Chief. Section of Field Work

REPORT ON REVIEW OF SHEET

Air-photo Topographic Sheet, Re. No. T5085, has been reviewed together with the Descriptive Report and all requirements are satisfied in accordance with requirements of the U. S. C. & G. S. Topographic Manual and pamphlet NOTES ON THE COMPILATION OF PLANIMETRIC LINE MAPS, 1933.

No additional surveying is recommended.

ADDITIONAL NOTES.

(1) Landmarks.

The list of landmarks for this sheet was not received until after the completion of both the sheet and the Compiler's Report. All the necessary chartable landmarks were submitted by Lieut. Comdr. R. P. Eyman, November 9, 1933 and includes only one object:-

✓ Flag Tower, Bellport Coast Guard

In addition to the above the enclosed list of Class (C) lists is submitted. These should not be charted but have been shown on this sheet (with a small black circle) as they are prominent enough on this scale (about 1:10,000) and may be used to obtain hydrographic "fixes". They were spotted on the photographs by the field inspection party and were also used for supplementary control (since many of them were located on the Aluminum Control Sheet).

(2) Control.

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 "E" and "F", 1933.

In regard to the last paragraph under CONTROL, (A) Sources, in the preceding COMPILER'S REPORT, as 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.

(3) General.

The shore line on the northern section of Ridge Island was traced from the photostat of the aluminum control sheet, R. P. Eyman's Field Sheet "F", as the photographs did not cover this portion of the Island.

Roswell Sistale Chief of Party, C. & G. S.