

5022

U. S. COAST & GEODETIC SURVEY
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Form 504
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: New York.

DESCRIPTIVE REPORT

Topographic
~~Hydrographic~~

Sheet No. T-5022.

LOCALITY

Hudson River.

North Tarrytown to Scarborough.

19.33

CHIEF OF PARTY

M. H. Reese.

U. S. GOVERNMENT PRINTING OFFICE: 1923

5022

Note: See Desc. Report for T5024 for report on the Field Inspection of Photographs used to compile this sheet.

Descriptive Report to Accompany
Air-photo Topographic Sheet T-5022.

General Information:

- a. Date of Instructions- November 15, 1932.
- b. Sheet data-

Projection by	E. L. F.	March 1, 1933.
Projection checked by	M. H. R.	March 1, 1933.
Control plotted by	J. P. O.	March 1, 1933.
Control checked by	E. L. F.	March 2, 1933.
Radial line plot by	J. P. O.	March 10-20, 1933.
Drafting of photographs by	J. P. O.	Mar. 25-Apr. 29, 1933.
- c. Statistics-

Area of sheet;	3.4 sq. statute miles.
Miles of shoreline;	4.9 statute miles.
- d. Reports affecting sheet-

Topography of shoreline by	C. A. Egner, 1932.
The data shown on the sheet is as interpreted from the photographs as the field party failed to make any descriptive notes on the field prints of the pictures.	
- e. Numbers, time, and date, of photographic flights-

15-464 - 484,	11:50	A. M.,	Sept. 4, 1930.
15-494 - 501,	12:20	P. M.,	Sept. 4, 1930.
15-553 - 559,	12:45	P. M.,	Sept. 4, 1930.

Control:

Sources-

1. Triangulation by C. A. Egner, 1930 and 1932.
The computations have not been adjusted to the N. A. Datum, 1927.
2. Aluminum Sheet Control by C. A. Egner, 1932.

Compilation:

- a. Method used-

The radial line method as applied to single lens photographs was used throughout the sheet
--
- b. Adjustment of plot-

The flight 15-464 - 484 was fairly regular and no particular difficulty was encountered in making the compilation. The inshore flights 15-494 - 501 and 15-553 - 559 had less than 50 percent overlap as an average. Due to this shortage of overlap the detail east of 73 51 30 is subject to considerable error. There was no control points in the east limits of the sheet, which also adds to the weakness of the plot. - See remarks in reviewers report.

Compilation; (continued),

c. Information from other sources-

The shoreline was traced from Field Sheet No.A
and No. B.

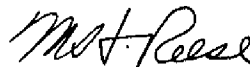
d. Comparison with other surveys-

A satisfactory junction was obtained with air-
photo Topographic Sheet T-4585. The shorelines
as traced from Field Sheet No. A and No. B.
checked very good with the shoreline as obtained
from the photographs.
Small errors were found in the location of the
following topographic points;

	Aluminum Sheet value	Photo plot value.
	(38)	(39)
"Club" Lat. 41 06 1813		Lat. 41 06 1812
	(65)	(60)
Long. 73 51 1335		Long. 73 51 1340
	(51)	(52)
"Black" Lat. 41 05 1800		Lat. 41 05 1799
	(1202)	(1207)
Long. 73 52 199		Long. 73 52 194

Landmarks:

Landmarks were submitted by the field party of 1932.



M. H. Reese,
Lieut.(j.g.), C. & G. Survey.

REVIEW OF TOPOGRAPHIC SURVEY No.

Title (Par. 56)

Chief of Party *M.H. Reese* ^{Compiled} ~~Surveyed~~ by J.P. O'Connell Inked by J.P. O.

N.Y. Compilation Party

~~Ship~~Instructions dated Nov 15, '32 ~~Surveyed in~~ Photographs taken Sept 4, 1930

✓ 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, ~~9~~, 18, 16.)

2. The character and scope of the survey satisfy the instructions.

except as noted below

3. The control and ~~closures of traverses~~ ^{adjustment of The Radial Plot} were adequate. (Par. 12, 29.)
See remarks by reviewer on reverse side of this sheet.

4. ~~The amount of vertical control that the Manual specifies for contours-formlines-~~ was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. ~~The delineation of contours-formlines-~~ is satisfactory. (Par. 49, 50.)

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None forwarded*

7. ~~High water line on marshy and mangrove coast is clear and adequate for chart compilation.~~ (Par. 16a, 43, 44.)

✓ 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)

✓ 9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) ✓

10. The span, draw and clearance of bridges are shown. (Par. 16c.) *None*

~~11. Locations and elevations of summits are given. (Par. 19, 51.)~~

~~12. The tree line was shown on mountains. (Par. 16g.)~~

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.

Remarks by reviewer:

1. See par. headed "adjustment of plot" on page 1 of the disc. report. Due to the lack of control and the lack of overlap mentioned in the disc. report the detail east of long. $73^{\circ}51'30''$ was not compiled by standard radial line methods. This detail must have been traced from the photographs without adequate reduction for scale and tilt. The errors are undetermined and are probably not consistent. This detail was taken from the entire flight of photographs.

The detail west of long. $73^{\circ}51'30''$ was taken from the entire flight of photographs and was compiled by radial line methods with control from triang. and aluminum mounted topographic sheets T 4699 and T 4700.

13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

See reverse side of this sheet.

- ✓ 14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) *None submitted. See remarks on reverse side this page.*

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) *Submitted by party of C. A. Egner in 1932*

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *None shown. This sheet is an office compilation*

18. The geographic datum of the sheet is *North American* and the reference station is correctly noted. (Par. 34.)

- ✓ 19. Junctions with contemporary surveys are adequate.

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) *Very few names are shown. Those shown check with the charts. See Notes on back of sheet.*

- ✓ 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

- ✓ 22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report, ~~after review by~~

24. Remarks: *See reverse side of this sheet.*

Reviewed in office by *B. G. Jones*

Examined and approved:

K. T. Adams

Chief, Section of Field Records

L. O. Abbott
Chief, Division of Charts

B. B. Jordan

Chief, Section of Field Work

G. H. de
Chief, Division of Hyd. and Top.

remarks by reviewer could:

2. No general description of the area was made in the descriptive report. No lists of positions or ~~recess~~ descriptions on form 524 of recoverable citations were submitted. Descriptions of recoverable objects in this area were submitted with the desc. reports for sheets T 4699 and T 4700.

3. Since no field notes were made on the photographs the date of this sheet must be considered as of Sept. 4, 1930, the date on which the photographs were taken. Where this sheet differs with T 4699 and T 4700 of 1932 the latter sheets, being of a later date, should be accepted as correct.

This sheet differs with T 4699 and T 4700 as to size and shape of several buildings shown near the wharf at Scarborough and at Kingland Point Park. These agree with the photographs and are correct as shown on this sheet.

The name Philipse Manor is from N.Y. Central R.R. Time Table and may be lettered on sheet.

Correct the spelling of "Mausoleum" near Philipse Manor.

Spelling of "Scarboro" in doubt. Top. 4700, Rand & McNally Postal Guide and N. Central R.R. Time Table gives Scarborough. To be investigated. (See Top 4700.) H. Bacon, Sept 11, 1934

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REG. NO.

Air photo TOPOGRAPHIC TITLE SHEET

Acc. No. T-5022

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

Field No.

REGISTER NO. T-5022.

State New York

General locality Hudson River

Locality North Tarrytown to Scarborough

Scale 1:5,000 Date of photographs - Sept. 4, 1930.
Date of compilation April 29, 1933.

~~Version~~ Photographs taken by the Aerotopograph Corp. of America.

Reviewed and recommended for approval

Chief of party Compilation M. H. Reese, May 20, 1935.

Photographs plotted by J. P. O'Donnell, Mar. 20, 1933.
~~Surveyed by~~

Inked by J. P. O'Donnell, Apr. 29, 1933.

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated November 15, 1932., 19.....

Remarks: Compilation of aerial photos Nos. 15-464 - 484, 15-494 - 501,
and 15-553 - 559. Reduced to scale and printed by photo lithographic
process.

Polyconic projection by E. L. Fitch, March 1, 1933.

Projection verified by M. H. Reese, March 1, 1933.

Control plotted by J. P. O'Donnell, March 1, 1933.

Control verified by E. L. Fitch, March 2, 1933.

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Chief of ~~party~~ Compilation

M. H. Reese
M. H. Reese, May 20, 1933.

Photographs plotted by
~~surveyed by~~

J. P. O'Donnell
J. P. O'Donnell, Mar. 20, 1933.

Inked by

J. P. O'Donnell
J. P. O'Donnell, Apr. 29, 1933.

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Polyconic projection by

E. L. Fitch
E. L. Fitch, March 1, 1933.

Projection verified by

M. H. Reese
M. H. Reese, March 1, 1933.

Control plotted by

J. P. O'Donnell
J. P. O'Donnell, March 1, 1933.

Control verified by

E. L. Fitch
E. L. Fitch, March 2, 1933.