State: New York

DESCRIPTIVE REPORT

<table>
<thead>
<tr>
<th>Locality</th>
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<tbody>
<tr>
<td>Hudson River</td>
</tr>
<tr>
<td>North Tarrytown to Scarborough</td>
</tr>
</tbody>
</table>

1933

CHIEF OF PARTY

M. H. Reese
Note: See Desc. Report for T 5024 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-
   15-553 - 559, 12:45 P.M., Sept. 4, 1930.

Control:

Sources-

   The computations have not been adjusted to the N. A. Datum, 1927.

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:

<table>
<thead>
<tr>
<th>Aluminum Sheet value</th>
<th>Photo plot value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(38)</td>
<td>(39)</td>
</tr>
<tr>
<td>&quot;Club&quot;</td>
<td>&quot;Club&quot;</td>
</tr>
<tr>
<td>Lat. 41 06 1813</td>
<td>Lat. 41 06 1812</td>
</tr>
<tr>
<td>(65)</td>
<td>(60)</td>
</tr>
<tr>
<td>Long. 73 51 1335</td>
<td>Long. 73 51 1340</td>
</tr>
<tr>
<td>(51)</td>
<td>(52)</td>
</tr>
<tr>
<td>&quot;Black&quot;</td>
<td>&quot;Black&quot;</td>
</tr>
<tr>
<td>Lat. 41 06 1800</td>
<td>Lat. 41 06 1799</td>
</tr>
<tr>
<td>(1202)</td>
<td>(1207)</td>
</tr>
<tr>
<td>Long. 73 52 199</td>
<td>Long. 73 52 194</td>
</tr>
</tbody>
</table>

Landmarks:

Landmarks were submitted by the field party of 1932.

\[Signature\]

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

✓ The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 10, 16.)

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

✓ Exact as marked below

3. The control and eases of traverses 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.)

✓ 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.) Vene forwarded

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

✓ 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.)

✓ 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. 16c.)

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 Kurzweiler:

1. The pair, headed "Adjustments of Cross" on page 1 of the direct report. Due to the lack of control and the lack of overlap mentioned in the direct report, the detail east of long. 73° 51' 30" was most confined by standard radially 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 most constant. This detail was taken from the middle flight of photographs.

The detail west of long. 73° 51' 30" was taken from the whole flight of photographs and was compiled by radially line methods with control from survey and aluminum mounted photographic 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.)

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 DBs and DBs, 68.) More submitted. See remarks on reverse side of this report.

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 35, 36, 50.) Submitted by party of C A Español in 1932.

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

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 unknown. None unknown check with the chart. 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.


Reviewed in office by B.G. Jones

Examined and approved:

K.T. Adams
Chief, Section of Field Records

L. O. Scott
Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hyd. and Top.
2. No general description of the area was made in the descriptive report. No data of positions or accurate descriptions or form 524 of recoverable objects were submitted. Descriptions of recoverable objects in this area were submitted with the data for sheets T4699 and T4700.

3. Since no field notes were made on the photographs, the data of this sheet could be considered as of date 4, 1930, the date on which the photographs were taken. Where this sheet differs with T4699 and T4700 of 1932, the latter sheet, being of a later date, should be accepted as correct. This sheet differs with T4699 and T4700 as to size and shape of several buildings shown on the sheet of Scarborough and at King Island 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.
To be investigated. (see Top 4700.) H. Bacon, Sept 11, 1934.
Air photo 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. ........................................

REGNo. T-5022.

State. New York

General locality. Hudson River

Locality. North Tarrytown to Scarborough

Date of photographs - Sept. 4, 1930.

Date of compilation - April 29, 1933.

Photographs taken by the Aerotopograph Corp. of America.

Reviewed and recommended for approval by Chief of Survey. M. H. Reese, May 20, 1933.

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

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

Heights in feet above ground to tops of trees

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

Instructions dated November 15, 1932...

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.

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