5021

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

M. H. Reese.

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		State: New York.
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	<u>.</u>	DESCRIPTIVE REPORT
77		Topographic Sheet No. T-5021.
		Lightnigraphic
		LOCALITY
		Hudson River.
		Piermont to North Nyack.
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•		CHIEF OF PARTY

For Field Inspection Report of this sheet See Desc. Report for T5024.

Descriptive Report to Accompany Air-photo Topographic Sheet T-5021.

General Information:

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

Projection by
Projection Checked by
Control plotted by
Control checked by
Radial line plot by
Drafting of photographs by

E. L. F. Feb. 28, 1933.

M. H. R. Feb. 28, 1933.

E. M. N. Feb. 28, 1933.

E. M. N. Feb. 28, 1933.

E. M. N. March 1, 1933.

E. M. N. March 3-18, 1933.

c. Statistics-Area of sheet; 2.4 sq. statute miles. Miles of Shoreline: 5.2 statute miles.

- d. Reports affecting sheet—
 Topography of the shoreline by C. A. Egner, 1932.
 The information shown on this sheet is confined entirely to the interpretation of the detail from the photographs. The field inspection party did not make any notes on the photographs. This made it necessary to show the detail only as interpretated from viewing it under the stereoscope.
- e. Numbers, time, and date, of photographic flights-15 - 351 - 378, 11:30 A. M., Sept. 4, 1930. 15 - 222 - 233, 11:00 A. M., Sept. 4, 1930.

Control:

- a. 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 usedThe radial line method as applied to single lens photographs was used throughout the sheet.
- b. Adjustment of plot-Considerable difficulty was experienced in making the radial line plot. This difficulty was largely due to the conditions of the photographs. The line of flight was broken and irregular.

Compilation: (continued),

b. Adjustment of plot- (continued),

Due to the irregular flying a number of the pictures had excessive tilt. It was necessary to disregard some of these pictures in making the radial plot.

The flight 15 - 222 - 233 had less than 50 percent overlap. The amount of overlap averaged about 35 percent. With this shortage of overlap only two cuts were obtained for each point, therefore the data traced from this flight is subject to considerable error. The detail west of longitude 73°55'30 is questionable due to shortage of overlap in the pictures.

c. Information from other sourcesThe shoreline was traced from Aluminum Field Sheet
No. A. In some instances it was necessary to change
the shoreline to agree with the pictures, where it
was apparently in error as shown on the planetable
sheet, or had changed since the pictures were
taken. Due to the omission of the field party to
make notes on the photographs as to the changes
that had taken place since the photographs were
taken, the information shown on the sheet corresponds to the condition of the shoreline in 1930.

d. Comparison with other Surveys-

1. Satisfactory junctions were obtained with Sheets T-4588 and T-5023.

2. Discrepancies between planetable Sheet Field No.A. In several instances there seems to be considerable discrepancy between the two sheets which may be due to changes that have taken place since 1930. In the vicinity of Lat. 41 03.4, Long. 73 55.1, the detail is 6 meters in error in the north direction. The location of topographic points Bus and East. appear to be correct, but the detail between them does not agree with the photo compilation. Thereapparently has been some changes in the docks and buildings just north of Bus. The detail is shown as it appears in the pictures. In the vicinity of Lat. 41°04.5, Long. 73°55.2, the shoreline is in error from Topo Station Boat to Topo Station Turn, and from Topo Station Turn to Station Wharf. The error is about 6 meters to the westward and azimuths do not agree. The road that runs near the shore south of Lat. 41°04.5' disagrees with the photo compilation in a number of places, the maximum error being about 10 meters in azimuth The remainder of the sheet agrees very good except minor changes in azimuth and shapes of small wharfs.

Landmarks

Landmarks for this sheet were submitted by the field party of 1932.

MARCELSE

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

REVIEW OF TOPOGRAPHIC SURVEY No. 5021

Title (Par. 56)

Chief of Party M. H. Keere Combiled by E.M.N. Inked by E.M.N. Ship ampulation But Thetructions dated Nov. 15, 1932 Surveyed in

- The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 1/5, 16.)
- 12. The character and scope of the survey satisfy the instructions.
- The control and closures of traverses were adequate. (Par. 12, 29.)
 See Far. b, page 2 of the disc. refront. 3.
- The amount of vertical control that the Manual specifies for -con-4. tours formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
- The delineation of -contours-formlines- is satisfactory. (Par. 49, 5. 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.) None rubmitted
- 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, 8. 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.) Level webs mean the whose line as whom on T4699, 1932, are not visible on the photographs and are not whom on this wheat.
- 10. The span, draw and clearance of bridges are shown. (Par. 16c.) World
- 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. R-317

be remarks on vevere will this page.

1. Combarison with other unery: See por of, page 2, of the dise report In the observe of soliquots Field surfaction motor this wheel much be considered as of left 4, 1930 the date on which the photographs were taken.

- 13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, %%.)
- 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 columnial has remarks at the peage.
 - 16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) Submitted by renty of C.A. Egner, 1932
- 17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) None whom
- 18. The geographic datum of the sheet is Worth 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.)
- 21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 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: Box recoverable Johngraphic Stations whom on this wheelf one described in the description resport for T4699 and on Join 524 filed under number T4699.

Reviewed in Office by B. g. Jones

Examined and approved:

Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hyd. and Top.

Form 537a Ed, Nov., 1929

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Acc. No. .

AIR PHOTO

TOPOGRAPHIC TITLE SHEET

The	Top	ogra	phic	Sheet	sh	ould	bе	accompa	anied	l by th	his	form,
filled	in	as	compl	etely	as	poss	ible	e, when	the	sheet	is	for-
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			٠,	F16	td	NO						

REGISTER NO. T-5021.

State New York. General locality Hudson River Locality Piermont to North Nyack. Date of photographs - Sept. 4, 1930. Scale 1:5,000 Date of Compilation April 20 , 1933, Wessel Photographs taken by the Aerotopograph Corp. of America. Reviewed and recommended for approval

Chief of party Compilation M. H. Reese, May 20, 1933. Photographs plotted by Zullon E. M. Noon, March 18, 1933.

Inked by E, M. Noon, April 20, 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 photographs Nos. 15-351 - 378,

and 15-222 - 233. Reduced to scale and printed by photo lithographic process.

Polyconic projection by

Feb. 28, 1933.

Projection verified by

Feb. 28, 1933.

Control plotted by

E. M. Noon

Feb. 28, 1933.

Control verified by

N. R. McLeod

March 1, 1933.