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SUPPLEMENTAL T

Form 504
Ed. June, 1928

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

U. S. COAST & GEODETIC SURVEY
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MAY 16 1931

State: New York

Acc. No.

DESCRIPTIVE REPORT

Photo
Topographic
Hydrographic

Sheet No. 4569

LOCALITY

New York

Hudson River

Spuyten Duyvil to Yonkers

19 30

CHIEF OF PARTY

O..S. Reading

Descriptive Report to Accompany Air Photo Topographic Sheet

Register No. 4569

Spuyten Duyvil to Yonkers, Hudson River, New York.

LIMITS.

This sheet includes the east bank of the Hudson River from the north side of Spuyten Duyvil Creek to the Ludlow Station at Yonkers. It includes two strips of single lens photographs and in general extends from the Hudson River about one mile eastward and includes Broadway. The street system within the limits of the photographs is shown as are railroads and electric railways. A fringe of buildings alongshore has been shown, including those recommended for charting by the field party in charge of C. A. Eger in 1930. A small fringe of topographic and cultural symbols has also been shown.

Photographs 18 to 28 were taken about 10:35 A.M. on August 19th; 52 to 74 about 12:10 P.M. on August 24; 75 to 83 about 1:20 P.M. and 113 to 123 about 1:40 P.M. on September 28, 1930. The sheet is joined on the south by sheet No. T4567, all details on the south bank of the Spuyten Duyvil Creek being shown on sheet 4567. On the north it is joined by sheet 4570 along street leading eastward from Ludlow Station, Yonkers.

COMPILATION.

The single lens photographs were taken on scales approximately 1:10,000 with a variation of about 2% between flights. A scale factor for each flight was determined by spotting centers and control and the film negatives enlarged to 1:5,000 on Dorex Air map special paper. A 1:5,000 projection was laid down on celluloid and the topography and shoreline executed by the field parties traced thereon. All triangulation was plotted on the projection and recovered on the photographs.

A radial line plot of the photographs was then made. At first it was attempted to adhere to the hydrographic signals as well as the triangulation, but it soon became apparent that the hydrographic signals were in error by small amounts, probably due to the extraordinary shrinkage of the topographic field sheets. The final plot accordingly was made adhering only to the triangulation and new positions were obtained for most of the hydrographic signals. The new

positions are indicated on blue circles on the celluloid and listed with D.M. and D.P. at the end of this report.

The overlap and triangulation control was ample for plotting the shore strips of photographs. The inshore strip, however, had an overlap of only about forty per cent. Triangulation stations were also less frequent. On this account the plot of the inshore side of the inshore strip is quite weak. Positions depend on the intersection of two radials only at less than thirty degrees with each other. These remarks apply principally to the street system in the vicinity of Van Courtland Park. The remainder of the sheet is believed to be plottably accurate. Only buildings and culture symbols adjacent to the coast were shown in order to keep the cost and time required for the compilation low.

CHANGES.

Certain small changes were made in the positions of hydrographic signals from those shown on sheet T455. A mistake of five meters had been made in plotting Station Gulf on the topographic sheet, which caused the differences at the north end of the sheet. The other differences obtained are believed due to excessive distortion (17 meters to the mile) of the field sheet with the exception of Spuyten Duyvil where there are evidences of too much sketching.

LANDMARKS.

The list of landmarks or prominent objects was furnished by the Commanding Officer of the NATOMA. The landmarks which had a definite point to be located are shown with circles and their position is listed on Form 567 attached hereto. Buildings recommended for charting which had no definite points are shown by their ground plans on the sheets. In general, all buildings in the area for which vegetation symbols are shown appear on the sheet, in addition to those recommended for charting. There is attached a list submitted by the Commanding Officer of the NATOMA, who also specially marked some photographs in the field which should be consulted by a cartographer compiling charts from these sheets.

NAMES.

The names appearing on this sheet are taken from the charts, the maps compiled for the New York City Board of Estimate and Apportionment in 1924, and the Sanborn maps of Yonkers of 1917.

Respectfully submitted,

APPROVED
K.T. Adams
FIELD RECORDS (C)

O. S. Reading
O. S. Reading.

L. O. Tolbert
Chief, Division of Charts

J. S. Borden
Chief, Section Field Work.

G. H. de
Chief Div. of Hydro and Topog.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, ~~and should be charted~~ and were recommended for charting on the proposed 1:10,000 anchorage chart by the Commanding Officer of the NATOMA. See Descriptive Report of sheet 4557 and field photographs

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED		
	LATITUDE		LONGITUDE		DATUM				
	°	'	D. M. METERS	°				'	D. P. METERS
Small dock	40	53	249	73	55	443	N.A.	Photo	747
Black stack	40	53	272	73	55	72	"	"	747
N. Chy. White house, blue room,	40	53	1280	73	54	1295	"	"	747
Signal Tower	40	53	918	73	55	212	"	"	747
Small boat harbor (Pal)	40	53	1234	73	55	166	"	"	747
Black stone house	40	53.7		73	54.8		"	"	747
Signal bridge (W. end)	40	53	1756	73	54	1395	"	"	747
Small Red Cross bldg.	40	54	335	73	54	1295	"	"	747
Red brick sub sta.	40	54	634	73	54	1128	"	"	747
* Convent, St. Vincent	40	54.8		73	54.5		"	Photo 79	747
* Grey stone school	40	54.7		73	54.6		"	" 79	747
* Overpass	40	54.5		73	54.8		"	" 79	747
Cross (St. Vincent)	40	54	1520.6	73	54	788.0	"	Tri.	747
Tower (Forest Castle)	40	54	1487.4	73	54	849.0	"	"	747
Tower (Leake & Watts)	40	54	1764.5	73	54	664.2	"	"	747
* Out bldg., green roof	40	55.0		73	54.5		"	Photo 81	747
* See photo sheet for position and ground plan. Marked photographs for identification.									

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Washington

May 15, 1931

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

Chief of Party.

DESCRIPTION	POSITION					METHOD OF DETERMINATION	CHARTS AFFECTED
	LATITUDE		LONGITUDE		DATUM		
	O	I	D. M. METERS	O			
*Apartment House, red roof	40	52.9		73	54.9		N.A. Photo 49 747
Green Cupola							
Tubercular Hospital	40	53	220	73	54	1260	" " 49 747
* Red roof bldg.	40	53.2		73	55.1		" " 115 747
* Grey roof bldg.	40	53.3		73	55.1		" " 115 747
Arrowhead Inn, water tank	40	53	931.3	73	54	867.1	" Tri. 747
* Yellow colonial house	40	54.2		73	54.7		" Photo 118 747
Jointed mast	40	54	320.5	73	54	935.5	" Tri. 747
* Yellow brick house	40	54.3		73	54.3		" Photo 118 747
Statue	40	54	658.0	73	54	776.5	" Tri. 747
Cupola	40	54	1075.6	73	54	798.9	" " 747
Icebreaker (S.W. Cor)	40	52	1391	73	55	762	" Photo 19 747 274
Small dock (W. Cor.)	40	52	976	73	55	395	" " " 747 274
N. cor. small dock	40	52	739	73	55	166	" " " 274
S.W. cor. small dock	40	52	755	73	55	185	" " " 274
Bldg. S.W. cor.	40	52	1486	73	55	629	" " " 747 274
* See photo sheet for position and ground plan. Marked photographs for identification.							

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaves and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

193

DIRECTOR, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

[illegible]

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4569

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.

REGISTER NO. 4569

State New York

General locality Hudson River

Locality Spuyten Duyvil to Yonkers

Scale 1: 5,000 Date of survey September, 1930

Vessel Aerotopograph Corporation of America Airplane

Chief of Party O. S. Reading

Surveyed by O. S. Reading

Inked by O. S. Reading

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

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

Instructions dated -----, 19---

Remarks: Compilation fo single lens aerial photographs
Nos. 19 to 28, 47 to 50, 54 to 83, 113 to 123

Printed by photolithographic process in Printing Section

T4569a

DESCRIPTIVE REPORT, AIR PHOTO COMPILATION T-4569A

T-4569A is identical with T-4569 except for the area ^{South of Lat. 40° 53'} ~~enclosed~~ ^{and West of Long. 73° 55'} ~~in red~~. In this area additions and corrections have been made to show the new bridge over Spuyten Duyvil and its approaches. This detail is from a plane table survey of June 1937 by C. A. Egner. The plane table sheet is filed as correction sheet 112 in the Air Photo Unit. The plane table descriptive report is filed as part of report, T-4567A.

Negatives corrected August 1937 and new copies printed for sale.

B. G. JONES

B. G. Jones

10/7/32

*See next page for additional
charges. B.G.J.*

DESCRIPTIVE REPORT T-4569-A SUPPLEMENTAL

May 29, 1939

Corrections shown in red on T-4569-A Supplemental were plotted in this office from single lens air photographs.

Photographs.

Single lens 7 x 9 , scale 1:10,000, negatives on file in Washington Office. Photographs taken early in February, 1939, by the Photographic Unit, Naval Air Station, Washington, D. C.

Field Inspection

Made by the Tender GILBERT in April, 1939. Field inspection notes made directly on the photographs and on ~~correction sheet 156~~. *copy of chart 747 filed as blueprint 32855, and on correction sheet 156 (air photo unit files)*

Plot

Details in red plotted by L. A. McGann, radial plot with 1:5,000 scale ratio prints. These details were plotted and applied to Chart 747 prior to the receipt of the field inspection. Details in blue plotted by L. C. Lande after the receipt of the field inspection and reported to Standards for additional corrections to Chart 747.

Hydrographic Survey

The shoreline on the contemporary hydrographic survey is from T-4569-A prior to the above corrections.

B.G. Jones
6/19/39