

4751

U. S. COAST & GEODETIC SURVEY
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Form 504
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DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: N.Y.

DESCRIPTIVE REPORT

Topographic
~~Altimetric~~

Sheet No.

4751
"C"

LOCALITY

Hudson River

Cold Springs to Breakneck Point

1933

CHIEF OF PARTY

C. A. Egner

D E S C R I P T I V E R E P O R T

T O A C C O M P A N Y

T O P O G R A P H I C S H E E T " C "

C O L D S P R I N G S T O B R E A K N E C K P O I N T

H U D S O N R I V E R , N E W Y O R K

P R O J E C T N O . 1 4 7 , 1 9 3 3 .

M . V . N A T O M A

C . A . E G N E R , C O M ' D G .

I N S T R U C T I O N S :

There were no instructions issued for work on this Project. However, as work was similar to that executed on lower sections of river, those instructions were considered to apply.

M E T H O D
O F S U R V E Y :

The usual plane-table method was used. Hydrographic signals were located by plane-table intersection from triangulation stations. Topography along the shore was run directly from these stations. All roads were located by traverse.

No elevations were taken as this area is covered by Geological Survey Quadrangle maps.

E X T E N T :

This sheet comprises a survey of shore line and adjacent topography from Cold Springs to Breakneck Point.

2.

DESCRIPTIONS:

The shore line on both sides of the river is generally rocky.

All roads and streets, shown in solid lines, were located by traverses. Trails, shown in broken lines, were located by needle traverses.

The general outline of bluffs were sketched in after prominent points were located by intersection.

The north boundary of the West Point Military reservation was located near the river by triangulation station NECOR, established by request of the West Point Authorities, and a boundary marker on the Storm King Highway, located by traverse.

JUNCTIONS:

T-4750

This sheet joins sheet "B" at triangulation station COLD 1933, and sheet "D" at triangulation station HUBBARD 2, 1933.

STATISTICS:

Shore line, in statute miles	7.0
Traverse, in statute miles	7.2
Area, in square statute miles	1.5

LANDMARKS
FOR CHARTS:

Landmarks are shown on Form No. 567, "Landmarks for Charts".

Respectfully submitted,

Paul Taylor
Paul Taylor
Aid, U.S.C. & G. Survey.

Approved and forwarded;

C. A. Egnor
C. A. Egnor
H. & G. Engr. U.S.C. & G. Survey,
Chief of Party.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Newburgh, N.Y.

October 6, 1933

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.

C. A. Egner

Chief of Party.

[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, tail stack, red chimney, radio mast, etc. Generally, flagstuffs and like objects are not sufficiently permanent to chart.

LIST OF TOPOGRAPHIC SIGNALS, SHEET "C", 1933, HUDSON RIVER, N.Y.

Name of Signal	Latitude			Longitude			Descriptions
	0	'	Seconds in meters	0	'	Seconds in meters	
Sun	41	25	266.7 (1584.2)	73	57	1011 (382)	Not recoverable
Rap			375.5 (1475.5)			1094 (299)	ditto
Rip			620.4 (1230.6)			1169 (224)	ditto
Bla			748.89 (1102.1)			1207 (186)	Railroad telephone box
Fill			891.35 (959.5)			1307 (86)	Not recoverable
Clos			904.9 (946.1)	73	58	116 (1277)	ditto
Joe			909.1 (941.8)			170 1223	ditto
Mar			974.6 (876.4)			265 (1128)	ditto
Gap			1167.5 (683.5)			293 (1100)	West gable tin chute
Con			1228.4 (622.6)			84 (1309)	Lower gable tin chute
Pro			1299.2 (551.8)			48 (1345)	North gable tin chute
Tom			1343.0 (508.0)			337 (1056)	Not recoverable
Rot			1585.7 (265.3)			236 (1157)	ditto
Nel			1762.5 (88.2)			319 (1074)	ditto
Aney	41	26	58.4 (1792.6)			390 (1003)	ditto
Black			276.2 (1574.8)			454 (939)	Railroad switch box

Sheet No. 2, Topo. signals, Sheet "C", 1933

Name of Signal	Latitude		Longitude		Descriptions		
	o	'	Seconds in meters	o		'	Seconds in meters
Nan	41	26	467.4 (1383.6)	73	58	582 (811)	Not recoverable
Green			589.3 (1261.7)			542 (851)	Small green cupola
Sol			737.1 (1113.9)			430 (963)	Flagpole
No			758.0 (1093.0)			796 (597)	Not recoverable
Whit			915.3 (935.7)			953 (440)	ditto
Wash			1067 (784)			1063 (330)	ditto
Crap			1124 (727)			1074 (319)	ditto
Fat			1303 (548)			1099 (294)	ditto
Boul			1500 (351)			1210 (183)	Railroad waiting room
Bum	41	25	198 (1653)			556 (837)	Not recoverable
Shak			281 (1570)			639 (754)	Railroad watchmans shanty
Post			432 (1419)			736 (657)	Mile post "NY.50"
Wat			524 (1327)			756 (637)	Railroad watchmans shanty
Canoe			646 (1205)			834 (559)	Concrete tool box
Ball			752 (1099)			914 (479)	Not recoverable
Shan			909 (942)			1033 (360)	Railroad watchmans shanty
Box			978 (873)			1086 (307)	Concrete tool box

Sheet No. 3, Topo. signals Sheet "C", 1933

Name of signal	Latitude		Lat Longitude		Descriptions		
	°	'	Seconds in meters	°		'	Seconds in meters
Speed	41	25	1293 (558)	73	58	1234 (159)	Not recoverable
Pole			1548 (303)			1342 (51)	ditto
Sec			1761 (90)	73	59	55 (1338)	Railroad section sign "61"
Mile			1848 (3)			(1305) 88	Mile Post "N.Y. 51"
Clif	41	26	159 (1692)			114 (1279)	Not recoverable
Cat			403 (1448)			216 (1177)	ditto
Dog			512 (1339)			314 (1079)	ditto
Anchor			572 (1279)			382 (1011)	ditto
Sin			628 (1223)			478 (915)	ditto
Rock			730 (1121)			536 (857)	ditto

REVIEW OF TOPOGRAPHIC SURVEY No. 4751

Title (Par. 56) *Gold Springs to Cornwall on the Hudson Hudson River, New York*

Chief of Party *G. A. Egner* Surveyed by *P. Taylor* Inked by *Paul Taylor*

Ship *Natoma* Instructions dated *July 22, 1930* Surveyed in *Aug. 1933*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.) ✓
4. The amount of vertical control that the Manual specifies for -contours-formlines- was accomplished. (Par. 18, 19, 20, 21, 22, 23.)
None - see par. 6.
5. The delineation of -contours-formlines- is satisfactory. (Par. 49, 50.) *None shown*
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 submitted, reference is made to Geological Survey Quadrangle Maps.*
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 on sheet*
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.

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. ^{No} ~~The~~ descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DP's, 68.)
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) ✓
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.
a slight discrepancy exists at the south edge, i.e. the railroad and first road eastward do not match up with T 4750.
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, 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: *The slight discrepancy noted in the Descriptive Report T 4750, as "due to a change of datum" probably results from the use of a different line connection with the old triangulation in the field computation. The older triangulation was all adjusted to the North American datum.*
Reviewed in office by *R. J. Christman, October 20, 1933.*

Examined and approved:

L. O. Polbut.
Chief, Section of Field Records

L. O. Polbut.
Chief, Division of Charts

J. S. Borden
Chief, Section of Field Work

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

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4751

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.

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES

Field No. C

OCT 12 1933

REGISTER NO. 4751

Acc. No. _____

State New York

General locality Hudson River

Locality Cold Springs to Cornwall on the Hudson

Scale 1/5.000 Date of survey August, 19 33

Vessel M.V. NATOMA

Chief of Party C. A. Egner

Surveyed by Paul Taylor

Inked by Paul Taylor

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated season of 1930, 19 _____

Remarks: _____

APPLIED TO ALUMINUM-MOUNTED DRAWING OF THE RECONSTRUCTION
OF CHART No. 282

J. M. Albert

Oct. 1934