

4739

Form 504
Ed. June, 1928
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
R.S. Patton *Director*

State: New York

DESCRIPTIVE REPORT
4739

Topographic
~~*Hydrographic*~~ } Sheet No. "G"

LOCALITY

Hudson River

Pea Hook to Con Hook

1932

CHIEF OF PARTY

C. A. Eger

U. S. COAST & GEODETIC SURVEY
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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4739

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. "G"

REGISTER NO. 4739

State New York

General locality Hudson River New York State Canal Lock 2
Lock Light

Locality Roa Hook to Con Hook

Scale 1/5,000 Date of survey Oct., 1932

Vessel M. V. NATOMA

Chief of party C. A. Egner

Surveyed by John C. Bull

Inked by John C. Bull

Heights in feet above to ground to tops of trees

Contour, Approximate contour, Form line interval feet

Instructions dated Orders May 25, 1932, 19

Remarks:

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEET "G", PROJECT NO. 105

HUDSON RIVER, NEW YORK

FROM TRIANGULATION STATION MID 2, 1932, TO CON HOOK

INSTRUCTIONS:

No instructions were issued to cover the topography under this project. Similar work was executed in 1930 on the lower sections of the river and the instructions for that year were considered to apply.

METHOD OF SURVEY:

Methods described in the Topographic Manual 144 were used. Signals were located by cuts from triangulation stations and three-point fixes. Seven traverses were run.

CONTROL:

The control was furnished by second and third order triangulation brought forward from Project 66, Hudson River, New York, 1930.

DESCRIPTION:

The shore line is quite uniform, rocky and abrupt. There is practically no change in the shore line at high and low water.

Detail around Bear Mountain Lodge was located by two traverses: one traverse from signal Ford north along highway 9W to triangulation station FIN 1932, and the other from signal Sky south. This last traverse was ended on a three-point fix. Five other *short* traverses were run to locate road intersections. These five traverses were not closed.

Detail around Bear Mountain Lodge was the last work done on the sheet, and it was quite difficult to get proper closures on the traverses. The weather conditions were very unsatisfactory and distortion was considerable. Great care was taken and adjustments made where necessary.

Detail shown on Iona Island was taken from a map made in June, 1932, by the engineer in charge. The map was properly checked by control points established by our field parties.

On the west side of river the highway south of road leading to Iona Island was located by three-point fixes and rod-readings. On the east side of river the highway leading to Bear Mountain Bridge was located by three-point fixes and rod-readings.

MAGNETIC DECLINATIONS:

Magnetic Declinations were taken at triangulation stations HOLE 1901 and FRAUT'S LANDING 1901.

NEW NAMES:

The name of the railroad station shown on chart as Highland Station has been changed to Manitou. Both names have been put on sheet in pencil. ^{OK} Day Line Park just east of Bear Mountain Lodge has also been put on sheet in pencil. These names were put on in pencil so that they may be checked by the Geographic Board. *Card sent to U.S. G.B. Need not be referred to U.S. G.B. H.B. Rec. 1933*

STATISTICS:

Shore line	22.5 statute miles.
Traverse	3.3 " "
Area	9.7 Sq. statute miles.

LANDMARKS:

Shown on form 567, "Landmarks for Charts".

Respectfully submitted,

John C. Bull
John C. Bull,
Aid.

Approved and forwarded,

C. A. Egner
C. A. Egner,
H. & C. Eng.
Commanding Officer,
Motor Vessel NATOMA.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Norfolk, Virginia

December 23 1932

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.

Dr. C. A. Egner, H. & G. Eng.

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, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to

REVIEW OF TOPOGRAPHIC SURVEY No. 4739

Title (Par. 56) *Roa Hook to Con Hook, Hudson River, New York*
 Chief of Party *C. A. Egner* Surveyed by *J. C. Bull* Inked by *J. C. Bull*
 Ship *Natoma* Instructions dated *May 25, 1932* Surveyed in *Oct. 1932*

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.)
No elevations determined.
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, see Desc. Report relative to details on Long I.*
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 ^{not} shown. (Par. 16c.)
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 DPs, 68.)
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓ *One pos. plotted wrong; one station copied wrong, both corrected in office.*
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. ✓
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓ *Highland Station on Chart 282 changed to Manitou (see Desc. Rep.)*
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.) ✓ *The name "Hudson River" is not well placed on the sheet.*
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: *Clearance for Bear Mt. Bridge should have been given. Other bridges shown are of minor importance.*

Reviewed in office by *R. J. Christman* Oct. 16, 1933

Examined and approved:

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

J. S. Borden
Chief, Section of Field Work

E. W. Raper
Chief, Division of Charts

G. T. Anderson
Chief, Division of Hyd. and Top.

There are several questionable changes that have been made made on the list of topographic signals on sheet "G" HUDSON RIVER 1932. It is requested that these changes be checked from topographic sheet "G" covering this area.

The changes were made from memory and chart # 182 covering this area.

If the changes made do not check the topographic sheet it is requested that the list of topographic signals and descriptions of recoverable stations be returned so that correct Lat. & Long. may be shown on the descriptions of the recoverable topographic stations.

John C. Bull
John C. Bull
M.V. Natoma, Beaufort, S.C.

6-7-11
SIGNALS LOCATED BY TOPOGRAPHY, SHEET "G"

T 4739 -

NAME	LATITUDE	LONGITUDE	DESCRIPTION
Soap	41-17-30 (669)	73-57-30 313 (385)	White R.R. box. ✓
Tel	(610)	425 (273)	N.R.
Wash	(544)	524 (174)	N. R.
Flit	(502)	661 (37)	White R. R. box. ✓
Cross	(488)	684 (14)	N. R.
Cap	(403)	73-58-00 122 (576)	N. R.
Keel	(309)	220 (478)	N. R.
Ruddy	(213)	496 (202)	N. R.
STAR Pin	(138)	579 (119)	N. R.
Pile	(84)	251 (447)	N. R.
Bite	41-18-00 127 (799)	254 (444)	N. R.
Lamp	381 (545)	484 (214)	N. R.
Tall	422 (504)	629 (69)	Flagpole on Iona Island. ✓
Eagle	536 (390)	571 (127)	Center gable, center store house. ✕
Red	745 (181)	73-58-30 41 (657)	East gable, small brick house.
Spot	845 (81)	145 (553)	N. R.
Dum	886 (40)	448 (250)	Steel fence post.

NAME	LATITUDE	LONGITUDE	DESCRIPTION
Tree	41-18-00 898 (28)	73-58-30 568 (130)	N. R.
Bright	41-18-30 182 (744)	375 (323)	N. R.
Ford	56 (870)	73-59-00 19 (679)	Flag station ✓
Rear	293 (683)	156 (542)	N. R.
Sky	535 (391)	504 (194)	Flagpole, Bear Mountain. ✓
Pier	839 (87)	237 (461)	Flagpole, south dock, Day Line Park. ✓
Hud	41-19-00 57 (869)	270 (428)	Flagpole, north dock, Day Line Park. ✓
Son	219 (707)	318 (380)	N. R.
Al	484 (442)	284 (414)	N. R.
Brik	580 (346)	405 (293)	N. R.
Slim	701 (225)	496 (202)	N. R.
Stump	790 (136)	694 (4)	N. R.
Green	841 (86)	663 (36)	N. R.
Mill	851 (75)	73-59-30 48 ()	SE corner of mill. ✓
Suds	627 (299)	73-59-00 234 (464)	N. R.
Book	751 (175)	183 (515)	N. R.
Hook	864 (62)	152 (546)	N. R.

T4739⁻²

NAME	LATITUDE	LONGITUDE	DESCRIPTION
Dust	41-19-30 108 (818)	73-59-00 177 (521)	Chimney, N. gable, green house
Cen	236 (690)	166 (532)	Center gable, R. R. station. ✓
East	322 (604)	80 (618)	N. R.
Bark	440 (486)	43 (655)	N. R.
Plow	476 (450)	4 (694)	N. R.
Deer	697 (229)	484 (214)	N. R.
Lor	781 (45)	<u>73-58-30</u> 368 (330)	N. R.
Mal	41-20-00 71 (855)	231 (667)	N. R.
Sign	276 (650)	69 (629)	N. R.
Ran	410 (516)	<u>73-58-00</u> 688 (10)	N. R.
Sal	538 (388)	642 (56)	N. R.
Ex	764 (162)	541 (157)	N. R.
Ask	846 (80)	481 (217)	N. R.
By	41-20-30 36 (890)	389 (299)	N. R.
To	170 (756)	320 (378)	N. R.
En	345 (581)	254 (444)	N. R.
Box	491 (435)	204 (494)	N. R.

*Please check these changes -
Note change Long.
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J.C.B.*

*Please check from topo sheet -
J.C.B.*

- 4 -
SHEET "G"

NAME LATITUDE LONGITUDE DESCRIPTION

Lag	41-20- ³⁰ 00	628 (298)	73- 54 ⁵⁸ -00 (644)	Flagpole, end of dock. ✓
Ab		694 (232)	73- 58 ⁵⁸ -00 (692)	N. R.
False	41-21-00	103	73-57-30 (260)	N. R.
LIM Star	41-20-30	236 (690)	73-58-00 (359)	Flagpole
Red		(171)	73-58-00 (594)	Flagpole
Pole	41-17-30	(144)	73-57-00 (287)	N. R.
Strip		(43)	491 (407)	N. R.
White	41-18-00	18 (908)	73-58-30 (620)	N. R.
Stone		208 (718)	142 (556)	N. R.
Pen		225 (701)	374 (324)	N. R.
Song		410 (516)	545 (153)	N. R.
Cow		529 (397)	675 (23)	N. R.
Stop		628 (298)	73-58-00 (631)	Flag station. ✓
Zebra		781 (145)	152 (546)	N. R.
Rope	41-18-30	54 (872)	235 (463)	Flag station.
Pack		173 (753)	368 (330)	N. R.
Leap		287 (639)	477 (221)	N. R.

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error in typing - here

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position of these
points
J.C.B.

please check
the changes
J.C.B.

T4739..4

NAME	LATITUDE	LONGITUDE	DESCRIPTION
Tong	41-18-30 454 (472)	73-58-00 645 (53)	Black and white R.R. pole. ✓
Kit	614 (312)	73-58-30 85 (613)	N. R.
Drum	765 (161)	195 (503)	Flag station.
Hour	890 (36)	288 (410)	N. R.
Thin	41-19-00 77 (849)	366 (332)	N. R.
Jug	209 (717)	423 (275)	Flag station
Blot	540 (386)	434 (264)	N. R.
Ink	661 (265)	370 (328)	N. R.
Fire	666 (260)	326 (372)	Chimney, red roof, house. ✓
Worm	833 (93)	302 (396)	N. R.
Fish	41-19-30 48 (878)	263 (435)	N. R.
Note	222 (704)	217 (481)	N. R.
Bell	316 (610)	149 (549)	N. R.
Ro	426 (500)	83 (615)	N. R.
Shell	542 (384)	73-58-00 618 (80)	R. R. switch.
Dime	729 (197)	539 (160)	N. R.
Soda	864 (62)	413 (285)	West gable brown house. ✓

- 6 -
SHEET "G"

T4739-5

Bout	41-20-00	6 (920)	73-58-00	310 (388)	N. R.
Race		207 (719)		233 (465)	N. R.
Tik		587 (439)		107 (591)	N. R.
Las		543 (383)		26 (672)	N. R.
Un		626 (300)	73-57-30	634 (64)	N. R.
Dit		707 (219)		555 (143)	N. R.
Nig		866 (60)		220 (478)	N. R.
Tide	41-20-30	82 (844)		213 (485)	N. R.
Over		168 (758)		142 (556)	N. R.
Non		312 (614)		72 (626)	N. R.
Pot		386 (540)		24 (674)	N. R.
Mash		482 (444)		7 (691)	N.R.
Sin		696 (330)	73-57-00	663 (35)	N. R.
Gab		732 (194)		659 (39)	S. gable, green shack.
Day	41-21-00	71		636 (62)	N. R.

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

J. M. Albert

Oct. 1934