# 5342

U. S. COAST & GEODETIC SHRVEY
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Form 504 Ed. June, 1928  DEPARTMENT OF COMMERCE  U. S. COAST AND GEODETIC SURVEY  R.S. Patton Director					
Q New York					
State: New York  DESCRIPTIVE REPORT					
Hydrographic Sheet No. 5 5342					
LOCALITY					
Hudson River  Blue Point to Crum Elbow Point  Just south of Poughkeepsie to					
just below Greers Point					
19.33					
CHIEF OF PARTY					
C. A. Egner					

### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY
LIBRARY AND ARCHIVES
DEC 11 1933

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office. 5.4%

Field No. \_\_\_\_\_5

REGISTER NO. 5342

State New York
General locality Hudson River
Locality Blue Point to Crumf Elbowh Pointie to just below Greens Foint
Scale 1/10:000 Date of survey Oct Nov. , 19 33
Vessel M. V. NATOMA
Chief of Party C. A. Egner
Surveyed by Paul Taylor
Protracted by Geo. H. Everett
Soundings penciled by Geo. H. Everett
Soundings in fathous feet
Plane of reference Hudson River Datum
Subdivision of wire dragged areas by
Inked by
Verified by
Instructions dated, 19
Remarks: This work was executed under Instructions for Hudson
River for the Season of 1930.

#### DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 5

(Field)

HUDSON RIVER, NEW YORK

PROJECT NO. H T - 147, 1933

* "	77	AT A DECREE
414.0		NATOMA

C. A. Egner, Commanding

#### INSTRUCTIONS:

Work on this sheet was done as part of the season's work of Combined Operations by the Motor Vessel NATONA from June to November, 1933. It is a continuation of the work executed on the lower reaches of the river during the summers of 1930 and 1932 and was done under similar conditions. Since no specific instructions were issued for this sheet, the instructions followed on previous years were assumed to apply, except in the case of tidal observations, which were covered in instructions dated June 18, 1933.

#### LIMITS OF SHEET:

This sheet includes the area between banks of the Hudson River from a line joining triangulation stations FRED 1933 and NORM 1932, which is about 2.3 miles south of Poughkeepsie, north to triangulation stations ROGERS 1933 and CAST 1933, just below Greer's Point.

#### LETHOD OF SURVEY:

The Motor Launch was used for all soundings on this sheet, except for two days on which the Motor Sailer was used to convey party for sounding along docks. Both lead line and sounding machine were used.

All lines were run either at slack water or at a very slow speed with the current. The lines were run parallel to the channel and were spaced approximately 100 meters apart, except where additional lines were considered necessary. Matural ranges were used to keep on line, and as some of these ranges were not very distinct and sensitive it was impossible for the helmsman to stay on a straight line all the

time. Lines slong the shore did not follow a range but followed the shore line, changing course on sextant positions.

Control for this sheet was furnished by third order triangulation and numerous topographic signals along the bank.

The hydrographic party consisted of an officer in charge, a left angleman, a quartermaster as leadsman, a writer as recorder. an engineer as helmsman, and one seaman for pulling load.

## DISCREPANCIUS:

The name "Ate" was duplicated, but this should cause no confusion in plotting as they are separated about three miles.

No great discrepancies were found in comparing the soundings on this sheet with those of the old chart except around the two buoyed shoals.

Around the rocks west of triangulation station TONB there is a discrepancy of seven feet. This was noted at time of survey and duth with a thorough investigation made of the area. After lines were run to develop the shoal sufficiently, the boat was allowed to drift down over the shoal using a lead on each side of boat and one at the stern and no depth less than twenty-five feet was found. However, as these rocks were found to be sharp pinnacles, it is possible that the eighteen-foot depth was missed. Long 73° 56.64

This spot is marked by a red and black obstruction buoy "B".

The foul ground near the dock opposite signal "Jay", marked by two red nun buoys, "6A" and "6B", and shown on old chart with minimum depth of fifteen feet, is a series of sharp rocks in this spot and the least depth found on this survey was eighteen feet. However, this is well outside the channel and is properly buoyed for boats docking in this locality.

#### DANGERS NOTED:

Except the buoyed rock opposite triangulation station TOMB, Latitude 41 40.81, Longitude 730 56.61, there were no menaces to navigation found. The channel is wide and deep through the entire area.

## COMPARISON WITH TREVIOUS SURVEY:

Very little natural changes were noted from previous surveys. The New York Central Railroad bed has been widened to accomodate four tracks, on the east side of the river, resulting in a change

\* The 18ft sag. referred to above is from Pos. (Se (red), H 2766 (yr. 1905). The effective tide at the time was. 3.6 ft. The sdg. first appeared on Chart \*172A (How 1908) and was later superceeded by charts of the #283 Series . - Hum Long 73°56'.C4, Lat 41°40'.8.

28ft-Leas Pos 79 (bloc) 4ft Tide at time of sdg. 26 on 50 h 2 gt tide in the shore line. Numerous docks and buildings around Poughkeepsie are changed.

Very little difference in depths were found from those shown on old charts.

#### GENERAL:

The work on this sheet was done with Mr. Taylor in charge of party. The docks were sounded out by Mr. Elliott, from shore party.

The positions of soundings along the docks are shown on freehand sketches not drawn to scale. Fixes were taken or references to stations were made frequently so that no mistake in plotting is necessary.

Tide gages were maintained at Newburgh, Poughkeepsie, and Hyde Park during work on this sheet.

As Poughkeepsie is located at about the center of the sheet, all soundings were reduced from the records of the Portable-Automatic Tidegage at that place.

Attached to, and forming part of, this report is a list of hydrographic signals with descriptions of each, tidal data sheets, and statistics sheet.

Respectfully submitted,

Paul Tay

C. A. Egner,

Chief of Party.

Approved and forwarded:

## POSITIONS OF HYDROGRAPHIC SIGNALS

# TO ACCOMPANY

# HYDROGRAPHIC SHEET NO. 5

# HUDSON RIVER, N. Y., 1933

Name	Lat	itude Seconds in Meters	Lon	gitude Seconds in Meters		Description
Lip	41-39	1371 ( <b>4</b> 80)	7 <b>3</b> –56	798 590	N.R.	White striped R. R. box.
Out *		1526 ( 325)		826 (562)	Ħ	White washed telephone pole.
Pug		1821 ( 30)		844 (544)	Ħ	Signal cloth on bush.
Rot	41-40	78 (1773)		815 (573)	R.	White concrete R.R. switch box.
Sea		192 (1659)		845 (543)	M.R.	White washed rock.
Toy		399 (1452)		856 (532)	n	Whitewashed rock.
Ate		477 (1374)		808 (580)	. 11	Whitewashed rock.
At		540 (1311)		712 (676)	Ħ	White telephone pole.
Воу		601 (1250)		692 (696)	R.	Concrete R.R. switch box.
Bat		709 11 <b>42</b>		<b>682</b> 706	N.R.	Whitewashed rock.
Cat		870 ( 981)		661 (727)	Ħ	Whitewashed rock.
Cod		1090 ( 761)		620 (768)	11	Whitewashed rock.
Dot		1278 ( 573)		58 <b>6</b> (80 <b>2</b> )	11	White telephone pole.

	Latit			itude		
Name	o '	Seconds in Meters	0 1	Seconds in Meters		Description
1دې	41-40	1443 ( 408)	73-56	561 ( 827)	R.	West face R.R. cross-over structure.
E <b>v</b> a		161 <b>2</b> ( 239)	•	522 (+866)	R.	R.R. signal tower.
Eye		179 <b>4</b> ( 57)		460 ( 928)	N.R.	White and black box.
Dol	41-41	18 <b>3</b> (16 <b>6</b> 8)		496 (892)	11	Whitewashed dolphin.
Tex		<b>251</b> (1600)	•	433 ( 955)	R.	Large one of two Texaco gas tanks.
Fun		(474 (1377)		466 (922)	N.R.	Small sand chute.
Red		516 (1335)		<b>432</b> ( 956)	R.	West gable of red roof house.
Far	÷	988 863		7 <b>2</b> 7 (860)	R.	S.W. corner, DeLaval plant.
Girl		1540 ( 311)		612 ( 775)	R.	West gable shed.
Go		1700 ( 151)		68 <b>3</b> ( 70 <b>4</b> )	N.R.	Whitewashed pile.
Ham	41-42	115 (1736)		685 702	R.	Poughkeepsie Yacht Club flagpole.
Soc		314 (1537)		648 ( 739)	R.	Socony gas tank.
Her		481 (1370)		686 ( 701)	N.R.	Whitewashed rock.
Ike		<b>7</b> 00 (1151)		658 ( 729)	R.	Flagpole on Hudson River Day Line Dock.
<b>5</b>		857 994		626 ( 761)	N.R.	Whitewash on face of building.
Lit		224 (1627)	73-57	1 <b>42</b> (1245)	R.	East gable brown building.

	Latitude		Long	gitude		
		Seconds in		Seconds in		
Name	o '	Meters	o '	Meters		Description
Ĺow	41-41	1690 (161)	73-57	175 (1212)	R.	Concrete R.R. box.
Rip		1467 ( 384)		163 (1224)	N.R.	Whitewashed telegraph pole.
Ray		1285 ( 566)	•	113 (1274)	R.	R.R. watchman shanty.
Sal		890 (961)	73-56	1345 ( <b>43)</b>	R.	Concrete box.
Sun		708 11 <b>4</b> 3		1265 ( 123)	N.R.	Whitewashed rock.
Sup		562 (1289)		1228 ( 160)	R.	R.R. watchman shanty.
To		361 (1490)		1185 ( 203)	R.	Concrete R.R. switch box.
Tell		176 (1675)		1179 ( 290)	N.R.	Whitewashed rock.
Tin	41-40	17 <b>63</b> ( 88)		1149 ( 239)	N.R.	Whitewashed rock.
Troy		1445 ( 406)		1215 ( 173)	N.R.	Whitewashed telegraph pole.
Wet		123 <b>9</b> (612)		1331 ( 57)	N.R.	Whitewashed rock.
Lap 		10 <b>44</b> ( 807)	73-57	35 (1353)	N.RZ.	Whitewashed telephone pole.
Ly		861 ( 990)		92 (1296)	N.R.	Whitewashed rock.
Lad		459 (1392)		1 <b>43</b> (1245)	N.R.	White flag on old dock.
Mad		346 (1505)		18 <b>4</b> (1204)	R.	Concrete R.R. switch box.
Max		204 (1647)	·	204 (1184)	M.R.	Whitewashed telephone pole.

	Lat	itude	Long:	itude Seconds in		
Name	o '	Seconds in Meters	0 '	Meters		Description
Ļog	41-39	1800 ( 51)	73-57	216 (1172)	R.	Small brown shanty.
Lin		1452 ( 399)		227 (1161)	R.	White concrete switch box.
Was	41-46	95 ( <b></b> )	<b>73–56</b> .	1051 ( 335)	N.R.	Whitewashed rock.
Vul	41-45	1703 ( 148}		935 ( 451)	N.R.	Whitewashed rock.
Pit		1455 ( 396)		785 ( 601)	R.	Chimney on R.R. watchman shanty.
Sit		1277 ( 5 <b>72</b> )		682 ( 704)	N.R.	Whitewashed rock.
Rye		1125 <b>(</b> 726 <b>)</b>		589 <b>(</b> 79 <b>7)</b>	**	Whitewashed rock.
Park		9 <b>64</b> ( 887)	·	<b>490</b> (896)	**	Whitewashed rock.
On		776 (1075)		399 ( 987)	Ħ	Whitewashed rock.
Jail		304 (1547)		269 (1117 <u>)</u>	11	White R.R. sign.
Joy		121 (1730)		270 (1116)	**	Whitewashed rock.
In	41-44	1786 ( 65)		276 (1110)	11	Whitewashed rock.
Bud		159 <b>3</b> ( 258)		287 (1099)	**	Whitewashed rock.
Hi		1409 ( 442)	·	269 (1117)	11	Whitewashed rock.
Gar		1240 ( 611)		282 (1104)		Whitewashed rock.
Fly		977 ( 874)	÷	279 (1107)	rt	whitewashed rock.

	Lati	tude					
		Seconds in		Seconds in			
Name	o '	Meters	o '	Meters		Description	
Fox	41-44	7 <b>63</b> (1088)	73-56	<b>3</b> 08 (10 <b>7</b> 8)	N.R.	Whitewashed rock.	
uss		58 <b>9</b> (1262)		346 (1040)	<b>11</b>	Whitewashed rock.	
Ate		578 (1273)	• • •	303 (1083)	11	Whitewashed rock.	
Din		585 (1266)		265 (1021)	11	Whitewashed bands on tree.	
Bar		475 (1376)		267 (1119)	Ħ	Whitewashed rock.	
Ale		473 (1378)		291 (1095)		Whitewashed rock.	
Cap		422 (1429)		285 (1101)	***	Whitewashed rock.	
Cod		421 (1430)		261 (1124)	tt	Whitewashed rock.	
Bul		336 (1515)		247 (1139)	Ħ	Whitewashed rock.	
Add		280 (1571)		2 <b>4</b> 8 (11 <b>3</b> 8)	11	Whitewashed boards.	
Zip		23 <b>4</b> (1617)		253 (1133)	#	Whitewashed stump .	
<b>Z</b> 00		220 (1631)		1341 (1045)	***	Signal cloth on pile.	
You	41-43	1847 ( 4)		279 (1107)	11	Whitewashed rock.	
Wil		1707 ( 144)		246 (1140)	. "	Whitewashed rock.	
Van		1562 ( 289)		276 (1110)	11	Whitewashed rock.	
ò		1 <b>474</b> ( 377)		313 (1073)	n	Whitewashed rock.	

	Latit	ude Seconds in		gitud <b>e</b> econds in		
Name	0 '	Meters	0 1	Meters	$\sim$	Description
The	41-43	1239 ( 612)	73-56	338 (1048)	N.R.	Whitewashed rock.
She		1054 ( 797)		<b>394</b> ( 992)	#	White-wrapped pile
Rice		855 ( 996)		405 ( 981)	n	Whitewashed rock.
Pack		605 (12 <b>4</b> 6)		430 ( 956)	R.	Square brick stack.
Οx		481 (1370)		463 ( 923)	R.	Flagpole on M.I.T. boathouse.
Not		292 (1559)		50 <b>3</b> 88 <b>3</b>	N.R.	Whitewashed rock.
Let		5 <b>7</b> (179 <b>4</b> )		525 ( 861)	tt	Whitewashed rock.
Jay	41-42	( 192)		522 (864)	R.	Upright post of yellow derrick.
Joe		( 567)		580 ( 806)	R.	Larger one of two blowers on planing mill.
Za	41-44	162 <b>3</b> ( 228)		298 (1088)	N.R.	Whitewashed rock.
And	41-46	230	73-57	409 ( 977)	ff .	Whitewashed rock.
Bay		126		355 (1031)	**	Whitewashed rock.
Cow	41-45	1802 ( <b>4</b> 9)		248 (1138)	11	Whitewashed rock.
Dye		1642 ( 209)	·	146 (1240)	**	Whitewashed rock.
Fog		1482 ( 369)		18 (1368)	n	Whitewashed rock.
Hog		1311 540	73-56	1313 ( 73)		Whitewashed rock.

		itude Seconds in	_	itude Seconds in	•	
Name	o '	Meters	0 1	Meters		Description
Jug	41-45	964 (887)	73-56	1082 ( <b>3</b> 0 <b>4</b> )	N.R.	Whitewashed rock.
Log		711 (1140)		1016 .( 370)	₩ ,	Whitewashed rock.
Now		497 (1354)	•	988 ( <b>3</b> 98)	11	Whitewashed rock.
Over		371 (1480)		977 ( 409)	**	Whitewashed rock.
Pete		37 (1814)		1011 ( 375)	**	Whitewashed telegraph pole.
Sob	41-44	1736 ( 115)		1044 ( 343)	**	Concrete box.
Tat		1502 <sub>.</sub> ( 347)		108 <b>4</b> ( 303)		White telegraph pole.
Wine	.•	1293 558	,	1100 ( 287)	n ´	Whitewashed rock.
Work		1017 ( 834)		1118 ( 269)	**	Whitewashed rock.
Ark		7 <b>4</b> 2 (1109)		1123 ( 264)	11	Whitewashed rock.
Bow		694 (1157)		1084 ( 303)	R.	East gable boathouse.
Cor		620 (1231)		1123 ( 263)	N.R.	White telegraph pole.
Dub		505 (1346)		1090 ( 297)	Ħ	Whitewashed rock.
Holy		343 (1508)		1093 ( 294)	11	Whitewashed rock.
Jack		12 <b>4</b> 1728		1066 ( 321)	11	Whitewashed rock.
۳۰۰۳	41-43	1810 ( 41)		108 <b>4</b> ( <b>3</b> 02)	n	Whitewashed rock.

	Lat	itude Seconds in		gitude Seconds in		
Name	0 1	Meters	• • • • • • • • • • • • • • • • • • •	Meters		Descriptions
ug	41-43	1607 ( 244)	73-56	1115 ( 271)	N.R.	Black R.R. switch box.
Bum	41-43	1369 ( <b>4</b> 82)	73-56	1119 ( 267)	**	Whitewashed rock.
Cuf		1194 ( 657)		11 <b>49</b> ( 237)	Ħ	Whitewashed rock.
Con		730 (1121)		1196 ( 190)	R.	East gable of shack.
Crap		456 (1395)		1227 ( 159)	N.R.	Whitewashed rock.
Dry		132 (1719)		1274 ( 112)	*	R. R. sign "22".
Dum	41-42	 ( 48)		1244 ( 142)	**	White banner on cable crossing sign.
Hen	.*	 ( 125)		1279 ( 107)	R.	East gable yellow house.
Hay		( 435)		1 <b>356</b> ( 30)	N.R.	Cable crossing sign.
Lee		 ( 485)	73-57	1 (1385)	R.	Chimney on white house.
Lug		 ( 959)		38 (1348)	R.	East gable red-roofed house

STATISTICS HYDROGRAPHIC SHILT NO. 5

(Field)

Project HT - 147, 1933

	Nov.									0ct.	DATE
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	E/I	L/L	M/S	T/M	M/L	E/S	M/L	H/L	M/I	T/T	BOAT
88.7	4.0	8.8		18.5	19.0		12.8	9.7	4.6	11.3	STATUTE LILES SOUNDING LINES
3022	142	260	71	319	405	225	472	472	115	541	NULBER OF SOUNDINGS
754	50	75	10	115	112	<b>3</b> 8	106	94	40	114	NULBER OF POSITIONS
			Sounding docks.			Sounding docks.					RELARKS

## SIGNALS USED IN HYDROGRAPHY

## on sheet no. 5

AME	Recov- erable Description	NAME	Recov- erable Description
Norm	r 🛕	Far	R S.W. corner building.
Pug	NR White wrapped bush.	Sal	R White box.
Rot	R White R.R. box.	Tell	NR Whitewashed Rock.
Sea	NR Whitewashed rock.	Ray	R Watchman's shanty.
Тоу	NR Whitewashed rock.	Go	NR Pile. Flag pole on
Ate	NR Whitewashed rock.	Ham	R Poughkeepsie Y. C.
At	NR Telephone pole.	Bridge	R 🛕
Tomb	R 🏡	Corn	NR Whitewashed rock.
Воу	R White R.R. box.	Her	NR Whitewashed rock.  Day Line dock
Cat	NR Whitewashed rock.	Ike	R East flagpole. East gable
Bat	NR Whitewashed rock.	Lug	R red-roofed house.
Del	R 🛕	Hud	R 🛕
Wet	NR Whitewashed rock.	Low	R White box.
Cod	NR Whitewashed rock.	Rip	NR Telephone pole.
Dot	NR Telephone pole.	Sun	NR Whitewashed rock.
Dil	R W. end R.R. crossover.	Sup	R Watchman's shanty.
<b>Ev</b> a	R R.R. signal stand.	Yellow	R 🙇
Eye	R White striped box	Tex	NR Whitewashed rock.
Dol	NR Dolphin.	Tin	NR Whitewashed rock.
Fun	NR Sand chute	Elm	R 🏂
Red	R W. gable red roof.	Troy	NR Telephone pole.
Ap	R A	Lap	NR Telephone pole.
York	R 🛕	Got	R 💩

NAME	Recov- erable	Description	NAME	Recov- erable	
Lad	NR Fl	ag pole on old dock.	Pe <b>te</b>	NR	Whitewashed telephone pole. Whitewashed
Mad	R Wh	aite R.R. box.	Sob		telephone box.
Max	NR Te	elephone pole,	Bell Cross	R	À
Log	NR Wh	nitewashed rock.	No	R	Striped R.R. box.
Fred	R 🛕		Weben	R	
Lin	R Wh	nite box.	Pack	R	Square stack water works.
Lip	R Wh	nite striped box.	Gar	NR	Whitewashed rock.
Vas	R	<b>K</b>	Work	R	Whitewashed east end of culvert.
It	NR W	nite cross on bldg.	Bow	R	East gable Columbia boat house.
Crap	••••	nitewashed rock.	Dub	NR	Whitewashed rock.
Lee		nimney on nite house.	Holy	NR	Whitewashed rock.
Cuf	NR W	nitewashed rock.	Coes	R	۵
Dum	NR B	anner on sign.	Can	NR	Whitewash on shack.
Not	NR W	nitewashed rock.	Penn	R	
Bum	NR W	nitewashed rock.	Dry	R	White R.R. sign "#21"
Rice	NR W	hitewashed rock.	Jay	R	Post on yellow derrick.
She	NR W	hitewashed rock.	Stack <u>Ladder</u>	R	
The	NR W	hitewashed rock.	Soc	R	Socony tank.
Wine	NR W	hitewashed rock.	Let	NR	Whitewrapped pile.
Wil	NR W	hitewashed rock.	Tank	NR	. •
Bug	R B	lack R. R. box.	Hi	NR	Whitewashed rock.
Box	NR W	hitewashed rock.	In	NR	Whitewashed rock.
Jack	NR W	hitewashed rock.	Joy	NR	Whitewashed rock.
Egg	NR W	hitewashed rock.	Rye	NR	Whitewashed rock.
Roosevelt	R 🗳	k	Rogers	R	<b>A</b>
Crum Elbow	R 🏟	<b>.</b>	On	NR	Whitewashed rock.

NAME	Recov- erable		NAME	Recov- erable Description
Park	NR '	Whitewashed rock.	Out	NR White telephone pole.
Sit	NR '	Whitewashed rock.	Vul	NR Whitewashed rock.
Tit	R	shanty. Chim. on Watchman's	Greer Pt. L. H.	R 📤
Spencer	R	<b>&amp;</b>	Was	NR Whitewashed rock.
Fog	NR	Whitewashed rock.	Fox	NR Whitewashed rock.
Jug	NR	Whitewashed rock.	Bul	NR Whitewashed rock.
Cast	R	<b>A</b>	You	NR Whitewashed rock.
Bay	NR	Whitewashed rock.	Za	NR Whitewashed rock.
Cow	NR	Whitewashed rock.	Ale	NR Whitewashed tree.
Dye	NR	Whitewashed rock.	Jail	R White R.R. sign.
Hog	NR	Whitewashed rock.	Poke	R 📤
Now	NR	Whitewashed rock.	N. Base	R 🚵
Over	NR	Whitewashed rock.	Hen	East gable R. of yellow house.
Bud	NR	Whitewashed rock.		
Tall	R	Δ		
White	R	<b>A</b>		
0 <b>x</b>		Flag pole M. I. T. boat house.		
200	NR	White wrapped pile.		
Not	NR	Whitewashed rock.		•
<b>u</b> p	NR	Whitewashed rock.		
Fly	NR	White wrapped tree.		
Joe	R	Blower on planing mill #2.		
Bunny	R	A		
Mine	R			

December 28, 1933

Division of Mydrogrupny and ropography:

Division of Charts:

Tide Reducers are approved in solumes of sounding records for

HYDROGRAPHIC SHELT

5342

Locality Blue Point to Crum Elbow Point, Hudson River, N. Y.

Chief of Party: C. A. Egner in 1933

Plane of reference is Hudson River Datum (Mean low water during lowest

-0.3 ft. on tide staff at Peughkeapsie river stages) reading

32.7 ft. below B. M. Serial No. 1585

Height of mean high water above plane of reference is 3.1 feet

Condition of records satisfactory except as noted below:

Harramer

Acting Chief, Division of Tides and Currents

Jan 10, 1934

Section of Firld Records
Report on Hydrographic Sheet no 5342
Blue Paux to Crum Elbow Poux Hudson Russ new york Chief of Party - C. W. J. Evs Surveyed by - Protocled by -George H. Evertt. Sounding Severled by. G. L.E. Verified and week by w. L. Mullen. The protracting on this shut and developement of critical areas was done by Li W. Murray, whose comments will be found on Jage 2 of the descriptur refort. The records conform to the requirements of the Hydrographie Manual. While it is possible to completely draw all the difth ourors, some have been omitted in ongrated areus along the shore, to avoid obliterating The firld plotting was complete and accurate. Under matructions from Copx. Ellis the 1/2 Joan lows dropped from all soundings with the ex Ceptim of positions 349 and 46 h which were actual 1/2 Jost soundings. These Lave brudlotted Position 69 d is recorded as trailing of our agrees so will with other sounding In the Granity that is has been plotted. Respectfully submitted W. L. Mullen.

#### SECTION OF FIELD RECORDS

Review of Hydrographic Sheet No. 5342.

Blue Point to Crum Elbow Point, Hudson River, New York.

Surveyed Oct.-Nov. 1933 (NATOMA)

Instructions dated June 18, 1933 (NATOMA)

Chief of Party - C. A. Egner.

Surveyed by - Paul Taylor.

Protracted and soundings plotted by - George H. Everett.

Verified and inked by - H. W. Murray and W. L. Mullen.

- 1. The records conform to the requirements of the Hydrographic Manual.
- 2. The plan and extent of development conform to the regulations and satisfy the specific instructions as outlined for the Hudson River project in 1930.
- 3. Soundings are consistent and the agreement of depths at line crossings is satisfactory. The least depth found on the shoal off Mine Point, marked by an obstruction buoy, was 26 feet (50h) but the Descriptive Report states that the shoal consists of sharp immacle rocks and "it is possible that the eighteen foot depth was missed", the 18 has been retained from the  $18\frac{1}{2}$ shown on H. 2766.
- 4. Depth curves less than 30 feet are only partially shown due to the extremely steep slope of the bottom between that curve and the shore. The development itself is satisfactory.
- 5. Junction is made with contemporary survey sheet H. 5343 on the south; this sheet is now being inked. No contemporary surveys to the north are available.
- 6. Comparison with H. 2766 (1905) shows good agreement in depths. Details along shore have been changed somewhat due to construction of wharves, etc.

Chart 283 shows "15 feet over rks" in lat. 41°42'.9 long. 73°56'.4. The least water found by the present survey was 18 feet. The 15 comes from BP 18824 (private survey in 1924) showing details of improvements at this place, and this depth appears reliable. The rocks are marked by buoys as aids to approaching the wharves.

7. Field drafting, protracting and penciling of soundings was well done. The two bridges at Poughkeepsie were added to the sheet in the office.

Depths alongside the various wharves are recorded in vol. 3 of the sounding records, together with sketches showing the location of the soundings. Only a few of these soundings could be shown on the sheet.

8. Recommendation. This sheet (H. 5342) should supersede all previous surveys for charting the area represented by it, including the 18 ft. spot transferred from H. 2766. The note on present chart 283 "15 feet over rocks" referred to above (par. 6) should be retained.

No further surveys are deemed necessary at this time.

Reviewed by - R. J. Christman, Jan. 16, 1934.

Examined and approved:

L. O. Colbert, Chal

Chief, Section of Field Records.

Morden Chief, Section of Field Work. Chief, Division of Charts.

Division of H. & T.