

Diag Cht. No. 1217-1

Form 504			
DEPARTMENT OF COM			
U. S. COAST AND GEODETIC			
Directo	<i>-</i>		
State: New Jersey			
DESCRIPTIVE RE Topographio Hydrographic			
LOCALITY			
Hereford Inlet	~~~~~		
Hereford Inlet to Five Fathom			
Bank			
	48444		
1928			
CHIEF OF PAR	r¥		
J.Senior.			
40V MANUTON TRANSPOR DUTTICE			



Vescriptive Report to accompany

Hydrographic Sheet #5 4821

Wildwood, coast of New Jarsey

surveyed by party of M.V. Natoma Tack Sensor, Comely, Season of 1928.

HYDROGRAPHIC SHEET #5.

(Comment by Chief of Party)

The descriptive report for this sheet was written by Ensign W. R. Porter, who was engaged on this work. Further comment follows.

This survey was undertaken near the end of the season, following the completion of work in the NATOMA'S instructions. This sheet is a continuation of work completed by the RANGER, and joins to the south and the inshore end with ship and launch hydrography completed by the RANGER. This sheet is on a scale of 1:20,000, and the work was carried to the edge of the sheet, which also marks the approximate limit of visual fixes. The hydrography was executed in accordance with the RANGER'S instructions of May 23, 1928.

The survey did not develop any uncharted dangers or marked discrepancies. However, the recent survey indicates a change in the configuration of the bottom from that shown on Chart 1217. Shoal soundings do not exist where charted. No indication was found of the 15 foot spot shown on Chart 1217, in the position, Lat. 38°-59'; Long. 74° -37'.

A list of landmarks for charts is forwarded on a standard form. Wildwood Standpipe and white dome on prominent building are permanent and should be shown on Chart 1217. prominent

The sheet and records have been examined and are approved as forwarded.

Jack Senior, H. & G. E.

Chief of Party.

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SHEET #5

INSTRUCTIONS AND LIMITS:

This survey was made in accordance with instructions from the Director to the Commanding Officer of the Str. RANGER. dated May 23, 1928. This survey was made by the M. V. NATOMA, Jack Senior, Commanding and connects to the southward with that hydrography completed by the Str. RANGER in 1928. It includes an area from Wildwood, N. J. eastward to Long. 74° - 36' W. and between Lat. 38° - 58.3' N. and Lat. 39°- 01' N.

SURVEY METHODS:

The M. V. NATOMA was used to execute this hydrography. The soundings were obtained throughout by the hand lead method, using standard bronze center hand lead lines. Triangulation stations, located by the Str. RANGER, were used for control. A list of the Triangulation Stations used and plotted on this sheet is submitted with this report.

DISCREPANCIES:

Some difficulty was found in running straight lines due to currents encountered. Very few discrepancies in crossings occured. These are due for the most part to currents and irregular bottom. A detailed review of these discrepancies was made by Ensign W. R. Porter and a list of these accompanies this sheet. There were no discrepancies of a critical nature.

STATISTICS:

A statistical sheet is submitted with this report.

A list of buoy positions is also attached.

Landmarks for charts on a standard form is appended.

The tidal data was obtained from the automatic portable tide gauge located at Cold Springs, N. J. and attended by the Str. RANGER.

W. R. Porter, Aid.

Examined and Approved.

Jack Senior, H. & G. E.

Chief of Party

LIST OF DISCREPANCIES (TO ACCOMPANY REPORT FOR HYDROGRAPHIC SHEET #5)

- 1. A sounding of 36 feet, position 108A+1, falls on one of 33 feet, position 43E+3. Difference probably due to uneven bottom. The shoaler sounding was used.
- 2. A sounding of 21 feet, position 93F+3, falls on one of 18 feet, position 213D+4. The bottom slopes rapidly here; both soundings are probably correct. The shoaler sounding was plotted.
- 3. A sounding of 40 feet, position 27K+3, coincides with one of 37 feet, position 33K+3. The difference probably due to current. The shoaler sounding was obtained while running with the current and was used.
- 4. A sounding of 52 feet, position 97C, falls close to one of 48 feet, position 135D. Both soundings were plotted. Difference probably due to current and uneveness of bottom in this locality.
- 5. A sounding of 31 feet, position 75A, falls on one of 35 feet, position 24F+3. The shoaler sounding having been obtained on a position was plotted. The bottom is slightly uneven here.
- 6. A sounding of 48 feet, position 1H, falls near one of 43 feet, position 101F41. Both soundings were plotted. The one of 48 feet, when compared with others in that locality, appears one fathom too great.
- 7. A sounding of 49 feet, position 183M+2, when compared with the soundings in that locality appears one fathom too great.

LIST OF BUOYS SHEET #5

Bell Buoy #1 Lat. 39°-00', 570 Meters; Long. 74°-44', 1010 Meters

Black and White
Lat. 38°-59', 1355 Meters; Long. 74°-46', 110 Meters/

LIST OF SIGNALS SHEET #5.

Triangualtion Stations:

Real Estate Tower 1927. --- Tat.

White Dome Flagpole, 1927.--- Dome.

Funchaser, East Dome, 1927 .--- Fun.

North Wildwood Standpipe, 1927.---.North.

Wildwood Standpipe, 1927 .--- Wild.

Coast Guard, Stone Harbor., 1927 .--- Coast.

Stone Harbor, 1927.--- Stone.

Avalon Standpipe, 1927 .-- Avalon.

Tank, N. B., 1927 .-- Tank

STATISTICS FOR HYDROGRAPHIC SHEET #5

Date		Letter	er Volume		Soundings	Positions	Miles	Vesse š	Miles to and From Work.
192	8								
Sept.	17	A		1	816	207	45	NATOMA	22
It	21	В	1	& 2	849	229	44	11	22
n	24	C		2	808	216	43	n	22
11	25	D	2	& 3	836	248	47	n	24
Oct.	4	E		3	688	180	38	11	20
11	8	F		4	667	177	38	н	22
11	11	G		4	58 5	151	30	H	22
t1	12	H		5	7.52	196	41	11	23
11	15	J	5	& 6	827	225	43	н	24
**	16	K		6	128	3 6	8	11	28
11	18	L	•	6	3 8	- 11	2	11	28
11	22	M		6	772	209	41	11	25
Ħ	23	N	į	7	230	6 4	12	H	22
Total				7	7996	2168	432		304

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

	Norfolk, Virginia.	-
•	December 29	1928
DIRECTOR II S COAST AND GRODETTC STEVEY:		,

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

					Ja	ok Senior	. н.&	G.E.	Chief of Party.
	POSITION								
DESCRIPTION		Lati	tude		Longitude Datum			METHOD OF DETER- MINATION	CHARTS AFFECTED
		,	D. M. meters	0	ı	D. P. Meters			
Wildwood, S. P.	38	59	1018.15	74	4.8	1202.04		Triangulation	
Stone Harbor, S. P.	39	03	443.95	74	45	766.13		rı .	
C. G. Stone Harbor.	39	02	665,52	74	46	241.72		11	
Avalon, S. P.	39	06	705.30	74	42	1189.99	~-··	et	
Tank. N. B.	38	56	1504.00	74	5 0	238, 20		f7	
White Dome Flagpole	38	59	36.07	74	48	1202.77		ŧŧ .	
					,				

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.

GOVERNMENT PRINTING OFFICE

Division of Hydrography and Topography;

Division of Charts:

Tide Reducers are approved in volumes of sounding records for

HYDROGRAPHIC SHEET 4821

Locality: Vicinity of Wildwood, N. J.

Chief of Party: J. Senier in 1928.
Plane of reference is mean low water, reading 2.5 ft. on tide staff at Cold Spring Inlet (C.G. Sta.), N. J. ft. helow B. M.

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Condition of records satisfactory except as checked below:

- Locality and sublocality of survey omitted.
- Month and day of month smitted.
- Time meridian not given at beginning of day's work.
- Time (whether A.M. or P.M.) not given at beginning of day's work.
- Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column. 7. Field reductions entered in "Office" column.
- Location of tide gauge not given at beginning of day's work.
 9. Leadline corrections not clearly stated.
- 9.
- 10. Kind of sounding tube used not stated.
- Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Faul C. Whitney

Chief, Division of Tides and Currents,

Section of Field Records Report on skeet No. 4821 Chief & Party Jack Senior Protracted by M. J. Chovan Surveyed in 1928 Soundings stated by John Jaskowski. Verified and Inhely ITW alker The sounding records were next and complete. The protracting was accurately done. There was very little shrinkage in the sheet and the positions farthest from the signals checked closely. The positions farther from the signals could not be checked with the ordinary protractor and as the these a positions were not checked, encept in a few instances. Any small error which may have thus been overlooked is a small consequence in view of the digth, dislance from shore, and reductionin scale when charted. The omission If this protracting was advised by Cast Johieralshi. The soungings were carefully plotted and the time intervals were adhered to. The sheet was received in fair shape southeast were of the work.

The drafting conformed to General Instructions for Field Work

Reviewed by

Respectfully, submitted

Jy Walker

7, 25/29

Section of Field Records

Report on Byd. Sheet No. 4821

Hereford Inlet to Five Fathom Bank, New Jersey.

Surveyed in 1928.

Instructions dated May 23, 1928 (Ranger)

Chief of Party - Jack Senior Surveyed by - Jack Senior Protracted by - It. J. Chovan Soundings plotted by - J. Laskowski Verified and inked by - J. J. Walker

- 1. The records are well kept and conform to the requirements.
- 2. The plan and character of development conform to the requirements of the General Instructions.
- 3. The plan and extent of the survey satisfy the specific instructions.

4. There are not many cross lines but agreement between adjacent lines is good and the cross lines shown are satisfactory. The discrepancies in crossings listed in the descriptive report are unimportant.

5. The information is sufficient for drawing the usual depth curves.

6. The junction with the inshore sheet, H. 4859, is satisfactory and the junction on the south with A. 4870 and A. 4858 is also satisfactory. There is no contemporary work on the northern and eastern limits.

A comparison was made with the old work, A. 1696 and A. 3255 and a number of differences noted. This work, A. 4821, should supersede all previous surveys. Commenced in by a M.S.

No indication was found of the reported 15 foot spot, shown on chart 1217 in Lat. 38-59.3, Long. 74°-37.2'. This was placed on the chart by authority of letter 594 of 1915. It is probable that the fisherman who reported this had no means of determining its position and

it does not appear to exist in the position shown on the chart. Its removal from the chart is approved by Capt. a. M. Sobieralski.

7. The usual amount of field plotting was well done by the field party. The positions, on the extreme eastern limits of the work, do not the check closely. These are beyond the range of the check closely. These are beyond the range of the regular protractor and a test shows that no regular protractors give precisely the same position. two protractors give precisely the same position. The field plotting was therefore accepted.

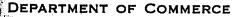
8. Character and scope of survey - Excellent.

9. No additional work is necessary.

Reviewed by R.L. Johnston aug. 2, 1929.

A.M. Sobieralski

7.5. Dodu



U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4821

Remarks:

Lot 3.8-31 to 38-59) Five Futh. Park

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HYDROGRAPHIC SHEET No. 4821

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet . 2 ! 6 8
Number of positions checked . 234
Number of positions revised 5
Number of soundings recorded . 7996
Number of soundings revised 54
Number of signals erroneously
plotted or transferred

Dato: - July 25 / 1929
Cartographer: - JW alker

apples to 826-50 6-3-63 Fragin