4878

Diag. Cht. No. 1218-2 & 1219-2

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY					
U. S. COAST AND GEODETIC SURVEY					
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State: New Jersey					
DESCRIPTIVE REPORT					
Hydrographic Sheet No. 487U					
Hydrographic Sheet No. 4870					
LOCALITY					
Cape May					
Wildwood to Cape May					
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R.L.Schoppe					



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DEPARTMENT OF COMMERCE

U.S.COAST AND GEODETIC SURVEY

E. LESTER JONES, DIRECTOR.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET #2

COAST OF NEW JERSEY OFF WILDWOOD

S.S RANGER

Ray L.Schoppe, Chief of Party.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET #2

COAST OF NEW JERSEY OFF WILDWOOD

STEAMER RANGER, 1928

The work on this sheet is done by authority of Instructions dated May 23,1928. The limits of the sheet are as follows: On the west it extends inshore along Wildwood Beach to approximately the two fathom curve where it joins launch work on sheet #4. On the east, Long. 74° 40° where it joins sheet 3. On the south, Lat 38° 56.3° where it joins sheets 1 and 3. On the north, Lat. 38° 58.7°, where it joins the 1928 work of the M.T. NATOMA.

There were no unusual methods used in this work. All soundings were by hand lead from the ship, using bronze center mahogany tilber rope for lead line. Positions were fixed by sextant angles on shore objects, practically all of which were located by triangulation. The signals on the fish traps were located by sextant, primarily for use on sheet 4 and they were used very little on this sheet. They give a good location of the east end of the traps. The trap in Lat. 38° 57.3° and Long. 74° 47.2° does not lie within the fish trap area as shown on chart #1219.

There are no discrepancies calling for explanations. There are no dangers to navigation on this sheet. In Lat. 38° 57.2° Long.

74° 48.7° a shoal with several 16 foot soundings, is located on a radge

running northeast and southwest. In Lat. (37° 57.8° Long. 74° 47.0° near the northeast end of the ridge, 26 feet was found but this whole ridge is so close to fish traps that vessels must keep to the south and east of it to clear the traps. Some of the piles supporting these traps are left in place the whole year to act as markers for the trap location and since the area is never cleared of piling, it is probable that submerged remants of broken piles, will be found at the trap locations.

was not found. The original system of lines whow no trace of it and a split line (53 - 42 Q) fail to show any trace of that depth. A least depth of 32 feet was found 280 meters southeast of this position. It was planned to do additional development in this area but the weather proved too unfavorable for such work. A uniform sandy bottom was found. If the shoal consisted of a piece of wreckage it will be difficult to prove or disprove its existance without a small drag. This vessel is

Vessels drawing more than 28 feet do not pass west of

Five Fathom Bank. The channel inside of Five Fathom Bank is not re
commended for vessels drawing over 18 feet, and such vessels can

dafely cross the area covered by this sheet. There are no anchorages
on the area covered by this sheet.

The shoals described above indicate that the ridge parallel to the coast and lying 1-3/4 miles off Wildwood, has moved somewhat to the southward and the least water now charted (18 feet) is replaced by a series of 16 foot spots located about 1/4 mile SSW from the previous crest of the shoal. As noted above, the changes on this shoal have no practical effect on navigation.

No wire drag work was done on this sheet. Landmarks for charts have been submitted in connection with Topographic sheet #1.

A Table of Statistics is attached.

Respectfully submitted,

Ray L.Schoppe, Chief of Perty.

STATISTICS to accompany

HYDROGRAPHIC SHEET #2 .

Date	Day letter	Vol.	Miles	Sdgs.	Positions.	Boat	
8-8-28	A	1	17.6	344	90	RANGER	
8-15-28	В	1	14.5	271	81	17	
8-15-28	c	1	16.5	344	92	19	
8-21-28	D	1	13.6	342	77	10	
8-31-28	E	1	12.0	177	56	Ħ	
8-31-28	E	2	10.0	171	51	**	
9-10-28	F	2	38.4	800	192	10	
9-11-28	G	2	35.4	713	195	**	
9-11-28	Ğ	3	5.0	96	25	10	
9-14-28	H	3	33.2	571	164	10	
9-22-28	J	3	2.7	53	15	**	
9-28-28	K	3	39.5	826	214	10	
9-28-28		4	5.8	102	27	Ħ	
19-11-28	L	4	6.0	96	25	•	
10-16-28	M	4	41.2	705	156	**	
10-17-28	n	4	32.5	681	189	19	
10-23-28	P	5	17.8	363	115	¥9	
19-24-28	Q	5	20.0	408	113	19	
10-30-28	R	5	1.8	58	14	19	
	Totals		363.3	7101	1891		

Section of Field Records Report on Sheet No 4870 Surveyed in 1928 Chief & Party Q. J. Schope Protractefly & & Morris Surveyed by Ships Officers Soundings plotted by GE Moris. Verified & Inhedry Jowalker The sounding records were complete and were neatly frest. The protracting was good. However the wrong signals were used occasionally and twice mistake were made in the time the rosilions.

The time intervals were carefully ashered to in plotting the soundings, mand of the sounding revised were due to change in the fines and wrong mumbering of the fires. The west was clean and the work was legally. Le drafting conformed to General Instruction about was located "apparently adrift" in Vol 3. page 2. It was not plotted on the rest. a whistling buoy was also located opprox. Tot 39-00-20 Long 74-44- 40. The is of the area covered by the Coundings on this shiet. The shart slows this bridg about haf a mile west. Le poations of the three fish traps shown on this sheet could not be verified accountably and they were in hel in as shown by the field party (ALS.) Reviewedby Respectfully submitted J Walker 5/18/29

April 19, 1929.

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in **5** volumes of sounding records for

HYDROGRAPHIC SHEET 4870

Locality: Cape May, New Jersey.

Chief of Party: R. L. Schoppe 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.

Condition of records satisfactory except as checked below;

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month emitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. 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.
- 3. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Paul C. Whitney

Chief, Division of Tides and Currents.

IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

DEPARTMENT OF COMMERCE

AND REFER TO NO. 11-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

November 12, 1929.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4870

Wildwood to Cape May Harbor, New Jersey

Surveyed in 1928

Instructions dated May 23, 1928 (RANGER)

Chief of Party, R. L. Schoppe.

Surveyed by Field Party.

Protracted and soundings plotted by G. E. Morris.

Verified and inked by J. T. Walker.

- 1. The records conform to the requirements of the General Instructions.
- 2. The plan, extent and character of the survey conform to the requirements of the specific instructions with the exception that the area east of longitude 74° 48' was surveyed on a scale of 1:20,000 instead of 1:40,000. This departure is considered justifiable in view of the importance of the locality and the practicability of using the shore signals for the entire survey. It would probably have been more in keeping with the intention of the specific instructions if the ridge in the vicinity of the fish traps, with depths less than 5 fathoms, had been more closely developed. However, since vessels must avoid the fish traps and so pass clear of the ridge, there is no need for additional work here at the present time.
- 3. A comparison of adjacent sounding lines shows a good agreement.
- 4. The information is sufficient for drawing the usual depth curves.
- 5. The usual field plotting was done by the field party and with the exception of an occasional use of wrong signals, was satisfactory.
- 6. The junction with the contemporary inshore survey, H. 4859, has been considered in the review for that sheet. The junctions with the other contemporary surveys johning this sheet

will be taken up when those sheets are reviewed.

While no detailed comparison has been made with the old survey, H. 1533, it is noted that a general shoaling has taken place in the vicinity of the 30 foot curve, moving it about 200 meters offshore. The ridge in the vicinity of the fish traps has also moved offshore about the same distance. In the vicinity of the 18 foot curve the change has not been so great.

- 7. On account of the detailed nature of the present survey, and the fact that no critical shoals appear on the old survey (except the 28 foot sounding which will be considered below) that have not been found on the present survey, it is recommended that this sheet supersede all other sources of information heretofore used in the compilation of the chart.
- Attention is called to the fact that the charted 28 foot sounding in lat. 38° 57'.5, long. 74° 43'.6 should be omitted from all future issues of the chart. The authority for this sounding is H. 1533 (surveyed in 1882) but an inspection of the original sounding records shows that an error of 1 fathomwas made in the reduction and should have been 34 feet instead. The present survey shows 35 feet close by and a least depth of 32 feet on the ridge and about 200 meters southeast of the fictitious 28. The survey of 1844 (H. 116) shows a least depth of 30 feet on the ridge and located about 300 meters to the northward of the 32 foot depths found on the present survey, but since the bottom here is of a character susceptible to wave and current action, it is reasonable to assume that during a period of 85 years some changes have taken place. It is therefore recommended that the 30 foot sounding on H. 116 should not be used to supplement the work on the new survey.
- 9. No additional work is necessary here at the present time.
- 10. a. A black and white can buoy was located by the field party in approximate latitude 38° 58', longitude 74° 48'. As there is no record in the office of any such buoy in this vicinity it was doubtless adrift and is not shown on the smooth sheet.
 - b. The difference in position of the whistle buoy No. 1 from its charted position is of no consequence since at this writing the Lighthouse Bureau has moved the buoy about 1 mile southwest of its charted position.

11. Reviewed by A. L. Shalowitz, June, 1929.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY L. & A. APR 16 1929 Acc. No.

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.

Field No. ____2___ REGISTER NO. State NEW JERSEY General locality North of Cape May Wildwood to Cape May Harbor Scale 1-20,000 Date of survey Aug. Oct., 19 28 Vessel RANGER Chief of Party R.L.Schoppe Surveyed by Ships Officers Protracted by G.B.Morris Soundings penciled by G.E.Morris Soundings in fathers feet Plane of reference M.L.W. Subdivision of wire dragged areas by ______none Inked by Verified by U./. W Instructions dated May 25 , 19 28 IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SIGNER OF THIS LETTER

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AND REFER TO NO. 11-DEM

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

Hovember 12, 1929.

SECTION OF FIRLD RECORDS

Report on Hydrographic Sheet No. 4870

Wildwood to Cape May Harbor, New Jersey

Surveyed in 1928

Instructions dated May 23, 1928 (RANGER)

Chief of Party, R. L. Schoppe.

Surveyed by Field Party.

Protracted and soundings plotted by G. R. Morris.

Verified and inked by J. T. Walker.

- The records conform to the requirements of the General Instructions.
- 2. The plan, extent and character of the survey conform to the requirements of the specific instructions with the exception that the area east of longitude 74° 48° was surveyed on a scale of 1:20,000 instead of 1:40,000. This departure is considered justifiable in view of the importance of the locality and the practicability of using the shore signals for the entire survey. It would probably have been more in keeping with the intention of the specific instructions if the ridge in the vicinity of the fish traps, with depths less than 5 fathoms, had been more closely developed. However, since vessels must avoid the fish traps and so pass clear of the ridge, there is no need for additional work here at the present time.
- 3. A comparison of adjacent sounding lines shows a good agreement.
- 4. The information is sufficient for drawing the usual depth curves.
- 5. The usual field plotting was done by the field party and with the exception of an occasional use of wrong signals, was satisfactory.
- 6. The junction with the contemporary inshore survey, R. 4859, has been considered in the review for that sheet. The junctions with the other contemporary surveys joining this sheet

will be taken up when those sheets are reviewed.

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While no detailed comparison has been made with the old survey, H. 1533, it is noted that a general shouling has taken place in the vicinity of the 50 foot curve, moving it about 200 meters offshore. The ridge in the vicinity of the fish traps has also moved offshore about the same distance. In the vicinity of the 18 foot curve the change has not been so great.

- 7. On account of the detailed nature of the present survey, and the fact that no critical shoals appear on the old survey (except the 28 foot sounding which will be considered below) that have not been found on the present survey, it is recommended that this sheet supersede all other sources of information heretofore used in the compilation of the chart.
- Attention is called to the fact that the charted 28 foot sounding in lat. 38° 57°.5, long. 74° 43°.6 should be emitted from all future issues of the chart. The authority for this sounding is H. 1533 (surveyed in 1882) but an inspection of the original sounding records shows that an error of 1 fathomwas made in the reduction and should have been 34 feet instead. The present survey shows 35 feet close by and a least depth of 32 feet on the ridge and about 200 meters southeast of the fictitious 28. The survey of 1844 (H. 116) shows a least depth of 30 feet on the ridge and located about 300 meters to the northward of the 32 foot depths found on the present survey, but since the bottom here is of a character susceptible to wave and current action, it is reasonable to assume that during a period of 85 years some changes have taken place. It is therefore recommended that the 50 foot sounding on H. 116 should not be used to supplement the work on the new survey.
- 9. No additional work is necessary here at the present time.
- 10. a. A black and white can buoy was located by the field carty in approximate latitude 38° 58°, longitude 74° 48°. As there is no record in the office of any such buoy in this vicinity it was doubtless adrift and is not shown on the smooth sheet.
 - b. The difference in position of the whistle buoy No. 1 from its charted position is of no consequence since at this writing the Lighthouse Bureau has moved the buoy about 1 mile southwest of its charted position.

11. Reviewed by A. L. Shalowits, June, 1929.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

HYDROGRAPHIC SHEET NO. 4870

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

Number of positions on sheet .	1891
Number of positions checked	. 252
Number of positions revised	22
Number of soundings recorded .	
Number of soundings revised	
Number of signals erroneously	
plotted or transferred	0

Dato: -May 18, 1929
Cartographor: - 9 Walker