

5674

U. S. COAST & GEODETIC SURVEY  
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Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton *Director*

State: Virginia: \_\_\_\_\_

**DESCRIPTIVE REPORT**

*Topographic* } Sheet No. 23 5674  
*Hydrographic* }

LOCALITY

Parramore Island

Wachapreague to Little Machipongo

Inlets

1934

CHIEF OF PARTY

H. A. Seran-

5674



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

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. 23

REGISTER NO. 5674

State Virginia  
General locality Parramore Island  
Eastern Shore  
Wachapreague Inlet to Little Machipongo Inlet  
Locality Parramore Island  
Scale 1-20,000 Date of survey Sept. 18 to Oct. 22, 19 34  
Vessel Motorsailers from S. OCEANOGRAPHER & S. LYDONIA  
Chief of Party H. A. Seran  
Surveyed by C. A. George and R. A. Earle  
Protracted by A. P. Crisfield  
Soundings penciled by R. A. Earle  
Soundings in ~~fathoms~~ feet  
Plane of reference M.L.W.  
Subdivision of wire dragged areas by \_\_\_\_\_  
Inked by L. M. Ewell  
Verified by M. A. Dysinger  
Instructions dated April 27, 1933  
Remarks: \_\_\_\_\_

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 23

VIRGINIA COAST

INSTRUCTIONS:

The work on this sheet was executed in accordance with the Director's instructions to The Commanding Officers of the Ships OCEANOGRAPHER, LYDONIA and GILBERT, dated April 27, 1933, and covering projects H.T. 142, H.T. 143 and H.T. 144.

LIMITS:

This sheet covers an area adjacent to the shoreline of Parramore Island, Virginia. It extends from Washapreague Inlet (Lat. 37°-35') to Little Machipongo Inlet (Lat. 37°-28') and the area surveyed is about a mile in width.

This sheet connects with field sheet 22 on the north, with field sheet 24 on the south and with field sheet 45 on the east.

SURVEY METHODS: The survey of this area was controlled by sextant angles on objects located by triangulation and topography. All soundings were taken with the handlead, standard methods being employed.

Launch parties from both the OCEANOGRAPHER and LYDONIA worked on this sheet.

DISCREPANCIES AND CROSSINGS:

With one exception all sounding lines in this area crossed remarkably well; it being very rare to find places where crosslines differed by more than a foot.

Positions 95 and 96 E are probably erroneous as surveying conditions on this date were poor. These positions should either be moved to the southard so the soundings will check with other soundings in the area or they should be rejected entirely.

DANGERS:

The shoals at the entrances to Washapreague and Little Machipongo Inlets would constitute dangers to small boats trying to enter these inlets. These shoals and sandbars are outlined on the smooth sheet. Areas marked "Breakers" are areas of less than a fathom in depth where breakers were continually noted but which apparently did not bare at low water.

CHANNELS AND CHANNEL BOUYS:

The channels into the inlets are shoal and change a lot when storms shift the sand along this coast.

As seen from the soundings on the sheet, most buoys located do not at present mark the channels where the greatest depths can be obtained.

The buoy shown on the sheet at Lat.  $37^{\circ}-33.9'$ , Long.  $75^{\circ}-34.7'$ , was located approximately by the LYDONIA'S launch party. This buoy was either adrift or newly established as it was unnoticed by any of the members of the OCEANOGRAPHER'S hydrographic party when they were sounding in the immediate vicinity.

SHORELINE:

The airphoto topographic sheets of the shoreline of this area were not received; therefore, the shore line was indicated approximately by a dashed line as per Director's Instructions, 1995-OC-4, dated February 15, 1935.

COMPARISON WITH PREVIOUS SURVEYS:

By comparison with soundings on the charts it was noted that soundings on this sheet have changed a lot since the last survey. According to reports of the people living in this vicinity; the shoreline of the islands and the area adjacent there to may change a great deal after each storm.

Respectfully submitted,

*Robert A. Earle*

Robert A. Earle, Lieut. (jg).  
U.S.C. & G.S.S. OCEANOGRAPHER.

Approved and forwarded:

*H. A. Seran*

H. A. Seran, Comdr. C&GS.,  
Commanding Ship OCEANOGRAPHER.

LIST OF STATISTICS

OCEANOGRAPHER

<u>Day</u>	<u>Date</u>	<u>Soundings</u>	<u>Positions</u>	<u>Mileage</u>
A Day	Sept. 18	543	88	17.6
B Day	" 19	1044	171	35.0
C Day	" 20	905	158	36.3
D Day	" 26	862	153	35.1
E Day	" 27	529	102	19.6
	Total	<u>3883</u>	<u>672</u>	<u>143.6</u>

LYDONIA

<u>Day</u>	<u>Date</u>	<u>Soundings</u>	<u>Positions</u>	<u>Mileage</u>
A Day	Oct. 11	37	6	1.0
B Day	" 12	421	69	9.3
C Day	" 22	556	115	20.0
	Total	<u>1014</u>	<u>190</u>	<u>30.3</u>

T O T A L      F O R      S H E E T

4897

862

173.9



Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. ..5674

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

Number of positions on sheet	.862.
Number of positions checked	.44..
Number of positions revised	..?...
Number of soundings recorded	.4897.
Number of soundings revised	...40.
Number of signals erroneously plotted or transferred	.....

Date:

Verification by	<i>M. A. Dyingert</i>	Time:	68 hrs
<del>Checked by</del> by	<i>L. M. Ewell</i>		2 1/2 "
Review by	<i>[Signature]</i>	Time:	7 1/2 "
	<i>R. J. Christman</i>		3 "

LAC

May 2, 1935.

E

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in  
4 volumes of sounding records for

DySinger

HYDROGRAPHIC SHEET 5674

Locality Parramore Island, Wachapreague Inlet to Little Machipingo Inlet, Va.

Chief of Party: H. A. Seran in 1934  
Plane of reference is mean low water reading  
4.6 ft. on tide staff at Assateague  
8.8 ft. below B.M. 15

Height of mean high water above plane of reference is 3.7 feet,

Condition of records satisfactory except as noted below:

*Atty* *Hamm*  
Chief, Division of Tides and Currents.



## REPORT ON HYDRO SHEET H-5674.

The records conform to the General Instructions except for omission of the ~~sketch~~<sup>lap</sup> course in the sounding records.

The usual depth curves can be completely drawn. ~~except for two small sections at lat. 37°-34.8' long.~~  
~~75°-36.0~~

The field plotting was in general accomplished in a neat and accurate manner and to the extent prescribed in the Hydrographic Manual. However, about thirty five soundings were changed by the office draftsman due mostly to erroneous penciling altho in several instances erroneous spacing of soundings was found to have occurred. Only three soundings were found to have been omitted entirely and four more were deleted their being no entry in the sounding volumes to substantiate their plotting.

The attention of the reviewer is invited to the apparently erroneous location of position 83c as originally

determined by the party of the Oceanographer and its subsequent relocation in the office in order that this position and its analogous soundings might conform to adjacent hydrography and time of travel. Attention is also invited to relocation of the signal "Kat" as determined by the field party and checked by the office draftsman.

The junctions of this sheet with H-5703 on the north and H-5704 on the south appear to be satisfactory. These junctions have been accomplished prior to the review of the above mentioned sheets. Junction with H-5770 on the east is not possible at the present time inasmuch as this sheet is still in the process of verification. now accomplished 9/15/35

~~Location of the shore line~~ inked on the sheet cannot be ~~accomplished~~ at the present time inasmuch as there is no topographic sheet for this area available ~~and no air photo compilation~~ can ~~not be accomplished until early Fall (1935)~~ will be available ~~at the present time.~~

Attention is invited to the two bays shown on this sheet. The

latest chart on record gives no  
indication of buoys being located  
in this area.

Respectfully submitted,  
M. A. Dypinger.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. H-5674 (1934) FIELD NO. 23

Wachapreague Inlet to Little Machipongo Inlet, Parramore Island, Virginia  
Surveyed in 1934  
Instructions dated April 27, 1933 (OCEANOGRAPHER)

Hand lead Soundings.

3 Point Fixes on shore signals.

Chief of Party - H. A. Seran.  
Surveyed by - C. A. George and R. A. Earle.  
Protracted by - A. P. Crisfield.  
Verified by - M. A. Dysinger.  
Inked by - L. M. Ewell.

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual.

The Descriptive Report is clear and comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

This survey is satisfactory and complies with the instructions for the project.

3. Sounding Line Crossings.

Zig-zag cross lines were run. The soundings on the cross lines are in excellent agreement with those on the regular system of lines.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn.

5. Junctions with Contemporary Surveys.

The junction with H-5703 (1934) and H-5770 (1935) on the south and east are satisfactory.

6. Comparison with Prior Surveys.

H-348 (1852)  
H-354 (1852)

T-3095 (1910) contains hydrography.  
H-3304 (1911)

A comparison between the above surveys and the present survey reveals numerous changes in depths and locations of shoals. Because of the

time elapsed between the earlier surveys and the present surveys, the general character of the area and the changeable nature of the bottom, it is unnecessary to consider in detail, from a standpoint of information to be carried forward, the various changes noted. The present survey should supersede all of the above surveys for charting purposes.

7. Comparison with Chart No. 1221.

a. Hydrography.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraph and contains no additional information that needs consideration in this review.

b. Aids to Navigation.

- (1) Referring to page 2 paragraph 2 of the Descriptive Report, the P. S. can buoy located on October 22, 1934, in latitude  $37^{\circ} 33.9'$ , longitude  $75^{\circ} 34.6'$  was temporarily discontinued in August 1934 (N. M. 33 of 1934). The buoy may have been replaced in the position given on H-5674 (1934) but no notice of its re-establishment is on file. This may not be its regular position.

The N 2 buoy (latitude  $37^{\circ} 34.55'$ , longitude  $75^{\circ} 35.35'$ , on the present survey was not charted and in its present position does not properly mark the channel.

- (2) The flashing white light at the north end and the flashing red light at the south end of Parramore Island were rebuilt in 1933 and 1930 respectively. The charted positions do not agree with the positions given by the present survey.

8. Field Plotting.

The field protracting and plotting are satisfactory and conform to the requirements of the Hydrographic Manual.

9. Additional Work Recommended.

This survey is complete and no additional work is required.

10. Superseding Old Surveys.

Within the area covered the present survey supersedes the following surveys for charting purposes:

H-5674 (1934) -3

H 348 (1852) in part  
H 354 (1852) " "  
T 3095 (1910) in part - contains hydrography.  
H 3304 (1911) in part.

11. Reviewed by - Leo S. Straw, August 13, 1935  
R. J. Christman, August 14, 1934.

Inspected - by R. L. Johnston.

Examined and approved:

*K. T. Adams*  
K. T. Adams,  
Asst. Chief, Division of Charts.

*J. S. Borden*  
Chief, Section of Field Work.

*L. O. Gilbert*  
Chief, Division of Charts.

*G. H. Hilde*  
Chief, Division of H. & T.

Applied to chs 1221 - June 1936 - H. J. Bantle