U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

SEP 26 1934

Form 504 Ed. June, 1928

DEPARTMENT OF COMMERCE

' U. S. COAST AND GEODETIC SURVEY R. S. Patton , Director

State: South Carolina

DESCRIPTIVE REPORT

Topographic Sheet No. 5208

Brick South rear Shaw it or,

Brickyard Creek Coosaw River

B-Bequifort

193 1

CHIEF OF PARTY

Lieut.(j. g.) S. B. Grenell

Applied to Cht 571, Aug. 12, 1935

Applied to Cht 571, Aug. 12, 1935

Reyn, applied to chart 794 Sept 27, 1985

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DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

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.

	REGISTER	NO. 5208	5208		
State	South Carolina				
General locality	Brickyard Gre	ek "Coosow	River		
Locality Scale 1:10,000	Date of Phot	tos: 10/2 ⁱ	5/33		. +
VesselReviewed and reco		oval:) S. B. Gre	nell		
Photographs plot	ed by: F.B.H	ickwan			
Inked by					•
Heights in feet	above	to ground	to tops of	f trees	
Contour, Approxi	mate contour, Fo	rm line int	erval	feet	
Instructions dat	edNo	vember 10,	· 	, 1933	
Remarks: Compile	tion of aerial I	hotographs	Nos. (807)	M36 to 44.N	110 to 17

NOTES ON COMPILATION

One copy of this form must accompany each chart from beginning to completion. The last draftsman, whose name appears on this form, is responsible for it and all personnel will endeavor to keep these forms up to date and correctly posted. This form is very important inasmuch as the final Descriptive Report of the Chart compiled is based upon the information contained herein.

•	SHEET NO		•	
	рното м 6887)Мі	TO PHOTO N	50 M14	
	ВҰ	START	FINISH	
ROUGH RADIAL PLOT				 .
SCALE FACTOR()	- 04	<u> </u>	<u> </u>	~
SCALE FACTOR CHECKE	D S. B. Grene	3/1/34	3/1/34	••
PROJECTION	A. A. Futre	1 3/5/34	3/5/34	
PROJECTION CHECKED_	F.B. Hickman	3/5/34	3/5/34	
CONTROL PLOTTED	J. B. Hickman	3/5/34	3/5/34	··•
CONTROL CHECKED	MEASURE TEC	tch 3/6/34	3/6/34	_
TOPOGRAPHY TRANSFER TOPOGRAPHY CHECKED	S. B. Gren	iell Sumil	9/1/31 9/1/34	<u>-</u>
SMOOTH RADIAL LINE		man 3/6/34	4/5/34	_
RADIAL LINE PLOT CH		mell 4/5/34	4/5/34	_
DETAIL INKED T.	R. Cooper	5/1/34	9 /21/ 3l ₁ I ₁	termittent period
AREA DETAIL INKED	24.2	sq. Statut	e Miles	
LENGTH OF SHORELINE	OVER 300 m.	31.1	_Statute Miles	
LENGTH OF SHORELINE	UNDER 300 m	41.5	_Statute Miles	
GENERAL LOCATION	Coast of S.	c. <u>S</u>	SOUTH CAR	OLINA
LOCATION	Brickyard Cree	k- Coosaw Riv	er B	eaufort
DATUM STATION Beauf	ort Church 1931 1927 Datum	Latitude_ Longitude	32-26+130.1 m. 80-40+618.8 m.	-
	(a1)) +	1)	32" 26 0 %	52 (130.1m)

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INSPECTION REPORT

Sheet No.-5208

REFERENCE:

In reviewing this sheet in the Washington office, reference should be made to the General Report for single lens sheets filed with sheet No. 5206

GENERAL INFORMATION:

Most of the topographic detail on this sheet is clearly indicated by the use of the standard symbols. The land areas are low and either wooded or under cultivation and the marsh is of the usual type found along this section of the coast. However, in the vicinity of Beaufort and again at the north end of Brickyard Creek there are considerable marsh island areas which have developed an exposed mud flats and which have very irregular and indeterminate outline. Where the berm of the marsh is definite, it has been shown with the usual heavy high water line; where indefinite, a lighter broken line has been used to approximate as closely as possible the uneven edge.

In Lat. 32-32, Long. 80-39, a series of parallel lines of tree symbols indicate the wooded ridges or lumps of an old surface phosphate mine long abandoned. This mine was reopened during the world war and operated for a short period but is now abandoned.

CONTROL:

With the exception of two topographic signals, Sin and Mon, in the upper reaches of Jericho Creek, all control on this sheet was from stations located by triangulation. Station "Standpipe" was located in 1921 and recovered by C. A. Egner in 1933. All other control was located by C. A. Egner, 1933.

LANDMARKS FOR CHARTS:

Form 567 for this area has been submitted by Lieut. I. Ritten-burg, 1934.

COAST PILOT NOTES:

Coast pilot notes have been submitted by Lieut. I. Rittenburg, 1934.

NAMES:

All names appearing on this compilation were taken from current issues of charts.

Respectfully submitted,

S. B. Granell

COMPILATION METHOD:

The standard radial line plot method was used in the compilation of this sheet. Difficulty was experienced in hooking this sheet up with sheet No. 5209 through flight #807-G at Beaufort. Taking picture #16 as a fix it was impossible to run this flight through from Beaufort holding all control. Photo #13 was hooked into flight 807-F with photos 40 and 41. Control held: - Bn.1, Kim, Gregg, Barnwell, Light, Pigeon, and in most cases 4A-USE. Photo 14 was not used in the plot due to excess amount of tilt. Topo stations on Jerico Creek were used as added control in running through flight 807M from 1 to 12.

ADJUSTMENT OF PHOTOGRAPHS:

The pictures on this sheet have about the average amount of tilt and some scale differences but no particular difficulty was experienced in adjusting the pictures to radial points.

INTERPRETATION:

While the photos for this sheet were very clear, lack of contrast along some of shoteline between deep water areas and mud flats areas made delineation of shoreline indefinite in some instances. In such cases shoreline is located as nearly as possible with thin dashed line. Mud flats extending beyond north shoreline of Coosaw River are also thus indicated. Numerous sloughs and flooded areas in marsh along Beaufort River and Brickyard Creek are shown by open spaces in marsh symbol when no definite shoreline can be defined.

Standard symbols listed in the topographic manual were used throughout the sheet in such combinations as would give close approximation to existing conditions.

INFORMATION FROM OTHER SOURCES:

Information for the compilation of this sheet was obtained from the photographs, observation of same under stereoscope, field party notes, existing charts, and information from the Charleston, S. C. office.

COMPARISION WITH OTHER SURVEYS:

The junction with sheet 5209 to the south has been made and is satisfactory. The junction with sheet 5207 to the northesat has been made and is satisfactory. Junctions to west, north and southeast of the sheet were made by the Charleston office on 1:20,000 5-lens compilation by photostal reduction of this sheet. Charleston office reported these junctions satisfactory.

ACCURACY AND COMPLETENESS:

The area covered by this sheet is complete in every detail as nearly as can be determined by the photographs.

All well defined detail is located with a probable error of not more than 4 meters; less well defined detail with an error of not more than 10 meters.

PHOTOGRAPHS:

No to No.

(807)M36
(807)M10
M17

APPROVED:

S. B. Grenell

No.

Date
Time
Stage of tide
10/25/33
10:30

7. R. Cooper,
Draftsman.

Alexand .

REVIEW OF AIR PHOTO COMPILATION NO. 5208

Chief of Party: S.B. GRENELL

Compiled by: T.R. Goper

Project: F.P.4-Ga, Party 16.18

Instructions dated: Nov. 10, 1933.

- 1. The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and i; 26; and 64)
- Change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n) Report on Lights and beacons Submitted with topographic sheets of I. Rilenburg, 1934.
- Ground surveys by plane table, sextant, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (Par. 65; and 66 d.e)
- Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
- 5. Differences between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report. Checks made: with smooth hydro. Sheets of I. Rifferbury plotted by B.H.Rigg, 1934 See view of local
- The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
- M. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- 6. 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)
- Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)

 Form 524 Submitted by IRillenburg, 1934
- 10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)

 Form 567 Submitted by I. Rittenburg, 1934.
- All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
- Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U.S.G.S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
- The geographic datum of the compilation is NA. 1927 and the reference station is correctly noted.
- Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
- 15. The drafting is satisfactory and particular attention has been given the following:
 - Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots.
- 4. Closely spaced lines are drawn sharp and clear for printing.
 - 5. Topographic symbols for similar features are of uniform weight.
 - 6 All drawing has been retouched where partially rubbed off.
 - Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks:

18. Examined and approved;

9/21/34

Chief of Party

19. Remarks after review in office: See following pages.

Reviewed in office by: V.K. Sobieralski
v B.G. Jones

Examained and approved:

Out Chief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.

REVIEW OF AIR PHOTO COMPILATION T-5208 (1934)

Comparison with Other Surveys:

- 1. The contemporary plane table surveys show short sections of shore line and the locations of signals for hydrography and air photo control. However, the compilation party used only two topographic stations as is noted on page 2 of the descriptive report.
 - a. T-6104, 1934 (1:10,000). There is no shore line shown on this survey. However, a check on the locations of topograph signals shows that they fall inside the compilation shore line. All detail on this survey which is covered by the compilation is shown on the compilation except for non recoverable stations.
 - b. T-6094a, 1934 (1:10,000). Only a very small area on the west side of this survey is covered by the compilation.
 - At lat. 32°31.5', long. 80°38.5', the plane table shore line differs from the compilation by 0 to 20 meters. This is near the head of a small creek and is probably a difference in interpretation. The plane table survey shows the edge of a small area of high ground with a solid line. The compilation shows this feature by symbols. The compilation has been accepted as showing the better interpretation, and it has not been changed.
 - c. H-6025, 1934 (1:10,000). This is an aluminum mounted plane table sheet on which the hydrography has been plotted. The compilation shore line was used and agrees well with the hydrography.
 - d. T-996, 1865 (1:20,000) and T-1905, 1889 (1:20,000). Comparison with these surveys shows minor changes in marshy shore line. There surveys show a high water line around marshy areas where it is impossible to show one on the compilation. See the following paragraph for discussion of this feature. The compilation is complete and adequate to supersede these surveys.
 - 5. Charts 1240 and 437. All land marks and aids to navigation except buoys and the wreck at Beaufort River Ber $^{\rm H}3^{\rm H}$ are shown on the compilation.

Shore line in Marsh Areas:

When the compilation was first reviewed in the office, the photographs had not been received from the field and the compiler's work could not be checked. Recent comparisons show many places where improvements might be made in interpretation of marsh areas which have been generalized and in interpretation of high water line in indefinate areas where symbols alone would

more accurately represent conditions than the high waterline shown by the compiler. Work along this line was started and corrections shown on the tracing paper print of the first proof. However, it was not considered advisable to complete the revision at this time as it would affect the junctions with T-5189, 1934 (1:20,000) which has been registered, and the improvement made by redrawing the compilation would be towards a more complete interpretation rather than any changes in the limits of the marsh. Inspection of the photographs shows that no definate high water line can be drawn in many of these areas. The marsh grass shades off gradually to mud flats and scattered clumps of grass without any definate line of demarkation. This condition is found throughout this section of the Intracoastal Waterways and has given difficulty in other compilations of this series. In the future, an attempt to show a high waterline in marsh areas will be made only where a definate berm can be seen on the photographs. Where the berm fades into mud flats the high waterline will be turned in and dropped, and the edge of the grass shown by symbols only.

Additions and Corrections:

Several buildings along the waterfront at Beaufort have been added to the compilation in the office.

Details east of long. 80°38.8' between lat. 32°26.8' and lat. 32°27.8' have been added to the compilation from a photostatic enlargement of T-5189. This was done to remove a detached area shown on one side of T-5189 onto its adjoining detail on T-5208. The change was made only to improve the appearance of the compilation.

The ruined pier at lat. 32°31.4', long. 80°20.7' has been added to the compilation from the photographs. in this office

At lat. 32°27.5', long. 80°41.5', a large area of marsh has been redrawn in the office. An error in location of 0 to 20 meters was found in this area. This was probably due to a poorly located radial point.

Recoverable Stations:

Recoverable topographic stations transferred to the compilation in the office are described on Form 524 and filed as follows:

Station Name	Filed Under
Bin(d),Beacon"2"	T-6104
Gab(d)	n
E. Gable of Barn(d)) "
Tel(d), Pole	n
Bee(d), Beacon #4"	H-6025
Six(d), " "6"	ч
Ate(d), " "8"	H
Ten(d), " "10"	1 tj
Ral(d),R.R.Warning	
Sin(d), " "	ii 11
Win(d). Windmill	11
Plotted by V. R. Sobieralski	Checked by B.g. gones

Plotted by - - -

Checked by ---

Triangulation Stations:

The following triangulation stations were not found on the compilation and were plotted in the office from the 1933 triangulation records:

Beacon No. 3, 1933 Beacon No. 12, 1933 Beacon No. 14, 1933

Beaufort, Lumber Company Stack, 1933

Plotted by S. R. Sobievalski

Checked by X. & Benson

No discussion of the beacons is given in the report. The 1933 triangulation positions check the plane table positions on H-6025, March 1934, indicating that they had not been moved up to that time.

Beacon No. 8, 1933, a "no check" position plotted in the marsh area at lat. 32°28.3', long. 80°41.7'. The position of this beacon as located by plane table on H-6025 is lat. 32°28.7', long. 80°41.5'. The plane table position has been plotted on the compilation in the office. It full full that we have the Bn. as on adapt of channel in 3ft of walter.

Aids to Navigation:

Chart 1240 shows the Brickyard Creek and Beaufort River beacons as unlighted. The descriptions of these beacons on Form 524 call for lighted beacons. The 1934 Light List calls them unlighted beacons and they are so shown on the compilation. The descriptions on Form 524 have been corrected.

v.R. Sobieralski VBg. gones

GEOGRAPHIC NAMES

Survey No. 7:5208	_
Chart No. 1240 -	_
Diagram No. 1240-2.	_

Date. 4-8-35

*, Approved by the Division of Geographic Names, Department of Interior.

Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	Albergottie Creek	. 1240			
	Beaufort .				
	Beaufort River	. ,	<u> </u>		
	Brickyard Creek .				
,					
·	Brickyard Point				
·	Chistolm Islands	Chisholm's Islands - 437		·	
	Coosaw River				<u></u>
	Jack Island	· t-			
	Jaricha Greek	·Battery Creek			<u> </u>
	Ladies Island				
	. Mulligan Creek .	, ,,,,,			
		,			
	Parky Island	Charleston &W. Carolina R. R 1840	1		
	Charleston & W. Laroling Py	Port Poyal Bailroad - 437			
					,
		APPROVED TAMES UNDERLINED AT RED H.L. Flemer			
<u> </u>		11 5 Temple			
					(M 10
			1		. <u>f.</u>