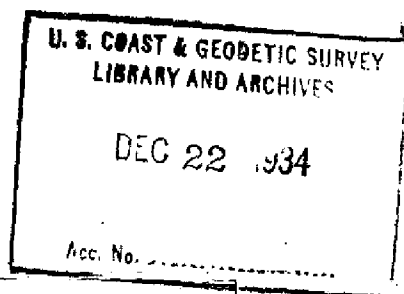


5158
SUPPLEMENTAL T



Air
Photo

Topographic
~~Hydrographic~~

Field No. 6 5158

Sheet No. Reg. No. 5158

U. S. COAST & GEODETIC SURVEY
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State SOUTH CAROLINA

LOCALITY

~~S. W. OF CHARLESTON HARBOR~~

~~N. OF WADMALAW SOUND~~

Vicinity West of Charleston
Ravenel

1934

CHIEF OF PARTY

E. H. Kirsch

U. S. GOVERNMENT PRINTING OFFICE: 1934

5158

SUPPLEMENTAL T

Applied to chart 837 Sept 1935, H.L.C.
Applied to Chart 792 October 30, 1936 H. MacSwan
Applied to chart 1239 April, 1937 J.M.H.

PHOTO NOS.	DATE	TIME
1162 through 1174	October 12, 1933	10:45 A.M.
1307 through 1315	October 12, 1933	11:55 A.M.
PROJECTION BY	<u>L. C. Ripley</u> L. C. Ripley	3-12-34
PROJECTION CHECKED BY	<u>E. H. Kirsch</u> E. H. Kirsch	3-12-34
CONTROL PLOTTED BY	<u>W. W. Johnson</u> W. W. Johnson	3-19-34
CONTROL CHECKED BY	<u>L. C. Lande</u> L. C. Lande	3-20-34
CONTROL PLOTTED ON PHOTOS BY	<u>F. H. McBeth</u> F. H. McBeth	
CONTROL CHECKED ON PHOTOS BY	<u>G. F. Richardson</u> G. F. Richardson	
TOPOGRAPHY TRANSFERRED BY	<u>T. P. Mitchell</u> T. P. Mitchell	6-8-34
" Checked by	<u>E. J. Anderson</u> E. J. Anderson	
SMOOTH RADIAL PLOT BY	<u>L. C. Lande</u> L. C. Lande	3-21-34
RADIAL PLOT CHECKED BY	<u>L. C. Lande</u> L. C. Lande	4-11-34
SCALE PLOT BY	<u>L. C. Ripley</u> L. C. Ripley	3-5-34
DETAIL INKED BY	<u>T. P. Mitchell</u> T. P. Mitchell	6-6-34

AREA DETAIL INKED: 82.09 Square Statute Miles.

LENGTH OF SHORELINE: No streams over 200 meters wide.

LENGTH OF STREAMS: 24.15 St. Miles (less than 200 meters wide)

LENGTH OF COASTLINE: None.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 5158

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. 6

REGISTER NO. 5158 5158

State South Carolina

General locality S.W. of Charleston Harbor *Vicinity West of Charleston*

Locality N. of Wadmalaw Sound *Ravenel*

1:10,000

Photographs - October 12, 1933

Scale 1:21,209

Date of survey, 19

Compilation - March 6, 1934

Vessel Air photo compilation Party No. 21, Charleston, S. C.

Chief of party E. H. Kirsch

Surveyed by See data sheet in descriptive report.

Inked by T. P. Mitchell

Heights in feet above - - - - to ground to tops of trees

Contour, Approximate contour, Form line interval - - feet

Instructions dated November 10, 1934, 19

Remarks: None. - Compilation was made on a 1:21,209 scale and enlarged by photography to 1:20,000.

GENERAL INFORMATION

Statistics:

The total area covered by this sheet is 82.09 square statute miles. No coastal shore line appears on this sheet nor any rivers more than 200 meters from shore to shore but there are 24.15 statute miles of rivers and sloughs less than 200 meters wide. This does not include the numerous ditches and canals used for irrigating the Tyler Tea Fields located between Lat. $32^{\circ} 47'$ and $32^{\circ} 49'$ and Long. $80^{\circ} 09'$ and $80^{\circ} 12'$.

Report:

The area covered by this sheet consists of marsh, timber and cultivated land represented by symbols taken from the topographic manual. The general description of this sheet and adjoining sheets of this series is of low coastal plane type with very little relief. The field inspection report 1933-34 covering all sheets in general will be furnished by Lieut. B. H. Rigg, with Air Photo Sheet No. 1, Reg. No. 5153.

Photographs:

Photographs from part of two flights were used in the compilation of this sheet. The 1100 flight with photos 1162 through 1174 taken at 10:45 A.M., October 12, 1933 with average half tide. The 1300 flight with photos 1303 through 1315 taken at 11:55 A.M., October 12, 1933 with average half tide. All photographs were taken with a standard U. S. Army Air Corps' 5-lens Camera.

CONTROL

Sources:

Windham by K. G. Crosby - 1934
 Capwell by C. D. Meaney - 1932
 Meg, do
 Air Beacon No. 18, do
 Warren, do
 Pip, Traverse E. B. Roberts, 1924
 Yonges, G. D. Cowie and R. L. Shoppee - 1933

The blue triangles represent traverse stations computed and field inspection by Lt. B. H. Rigg - 1933. These stations are not marked in the field. Mr. Rigg started the traverse at Triangulation station SPUR, a Cowie station - 1933, and ended the traverse at triangulation station Warren, a Meaney station 1932. The closing error of the traverse was not plottable. *These traverse stations were not recoverable and are not shown on the compilation*

Errors:

No errors were found in the plotting of control.

B. G. J.

Discrepancies:

No control stations established by other organizations were used in the compilation of this sheet.

Method:

The standard radial line method was used as described in the U. S. Coast and Geodetic Survey "Notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs".

Adjustment of Plot:

Little difficulty was had in transferring detail to the sheet. Most photos were very clear with little tilt. Some of the roads were very indistinct due to heavy timber.

Interpretation:

Additional hydrographic signal stations represented by black circles ^{Lat. 32° 47' Long. 80° 59'} along Wallace River were pricked on the photographs and radial plotted on the celluloid. These points were established by the field party of Lt. B. H. Rigg - 1934. *These are not recoverable and will not be shown on the printed compilation but remain on the celluloid*

The high ground line along certain marshy sections of the Wallace River could not be exactly defined so the broken marsh lines were used to indicate the boundary of the marsh.

The full lines bordered with dots on the sides represent canals with levees while the short dashed lines bordered with two long dashed lines represent dike roads with ditches on either side. These symbols appear on the Tyler Tea Farm.

The double tie rail road represents two tracks, the single tie one. Paved roads are indicated by a double full line. * Graded or improved roads with a double dashed line and unimproved roads and trails by a single dash line. Not all minor trails and buildings have been shown as they could not be seen on the photographs. All symbols were taken from the topographic manual, except as stated above.

Between Lat. 32° 50 and 32° 51' Long. 80° 18' and 80° 19' Lat. 32° 51' and 32° 52' Long. 80° 16' and 80° 17' the photos show what appears to be ponds. While no field inspection has been made it is felt that from the appearance and general surroundings of these ponds they fill during wet weather and slowly dry during dry weather.

At Ravenel several spur tracks and switches were omitted for the sake of clearness.

Information from other Sources:

Field inspection by Lt. B. H. Rigg, 1934.

Field inspection by the compiler.

* Railroads have been changed to standard symbols.
B. G. J.

Comparison with other surveys There are
no other topographic surveys by this bureau
covering this area.

B.G. Jones

accuracy The value of 3 to 6 meters given
on the opposite page is high for work of this
nature. The control was adequate but for
graphic plotting a better estimate is
an accuracy of location of 3 to 8 meters
for intersection points and 5 to 15
meters for other detail.

B.G. Jones

Conflicting Names:

There are no conflicting names on this sheet.

See below.

COMPARISON WITH OTHER SURVEYS

See opposite page.

Junctions:

Satisfactory junctions have been made with:

Sheet No. 5, Reg. No. 5157 on the East		
7	5159	West
14	5166	Southwest
13	5165	Southeast

Landmarks:

As there are no streams of importance for navigation on this sheet there are few landmarks to be mentioned. Triangulation station AIR BEACON NO. 18, is a standard Department of Commerce Aeroplane beacon.

A.C.S. Oyster cannery stack (70 feet high) was transferred from A.S.C. "K" B. H. Rigg, Chief of Party - 1934. Refer to A.C.S. "K" for full description of landmarks. 76058.

RECOMMENDATION FOR FURTHER SURVEYS:

The compilation of this sheet is believed to be accurate, thorough and complete for charting purposes and that no additional surveys are necessary. A probable error of not more than 3 meters may be found in detail of importance for charting and not over 6 meters in detail of lesser importance.

See opposite page.

Assisted by:

E. H. Kirsch
E. H. Kirsch,
Chief of Party.

Submitted by:

T. P. Mitchell
T. P. Mitchell

Names Three new names shown by the compiler have been accepted pending Mr. Bacon's decision. No report on these names was made.

B. G. Jones.

REVIEW OF PHOTO TOPOGRAPHIC SURVEY NO.

Title (Par. 56) N. of Wadmalaw Sound

Chief of Party E. H. Kirsch

Compiled by T. P. Mitchell

Project HT-162

Instructions dated November 10, 1934.

- ✓ 1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 8; and 16, a, b, c, d, e, g and i.)
- ✓ 2. The character and scope of the compilation satisfy the instructions and the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
- ✓ 3. The control and adjustment of the radial plot were adequate. (Par. 12, 29.)
- ✓ 4. There is sufficient control on maps from other sources that were transmitted by the field party for their application to the charts. (Par. 28.) No information taken from outside sources.
- ✓ 5. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)
- ✓ 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.)
- ✓ 7. Important details shown on previous surveys and on the chart have been compared with this sheet and a statement has been entered in the report regarding the removal from the chart or change in position of important detail such as rocks, lights, beacons, prominent objects, bridges, docks, and structures along the water front.
- ✓ 8. The ~~span, draw and clearance~~ of bridges are shown. (Par. 16c.)
- ✓ 9. The data furnished by the Field Inspection is adequate.

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

10. The descriptive report covers all details listed in the Manual, so far as they apply to this survey. (Par. 64, 65 and 66.)
11. The descriptive report also contains all additional information required in photo topography as prescribed in the instructions and in the "Notes on the Compilation of Planimetric Line Maps from Five Lens Aerial Photographs".
12. The descriptions of recoverable stations and references to shore line were accomplished on Form 524, and scaling of positions checked. (Par. 29, 30 and 57.) Submitted with A.C. Sheets.
none on this compilation
13. A list of landmarks for charts was furnished on Form 567 and scaling of positions checked. (Par. 16d, e, 60.)
Submitted with A.C. Sheets.
14. The geographic datum of the sheet is N. A. 1927 and the reference station is correctly noted. (Par. 34.)
15. Junctions with contemporary surveys are adequate.
16. Geographic names are shown on the sheet and are covered by the Descriptive Report. (Par. 64, 66k.)
17. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46.)
18. No additional surveying is recommended.

19. Remarks:

20. Examined and approved:

E. H. Kirsch

E. H. Kirsch, Chief of Party

21. Remarks after review in office:

Reviewed in office by:

B. G. Jones

Examined and approved:

K. T. Adams
Chief, Section of Field Records

L. O. Golub
Chief, Division of Charts

J. B. Jordan
Chief, Section of Field Work

G. H. Hude
Chief, Division of
Hydrography and Topography.

GEOGRAPHIC NAMES

Date. Feb 6, 1935

Survey No. T-5158

Chart No. I239

Diagram No. I239-2

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

Ø, Not Approved by the Division of Geographic Names, Department of Interior.

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

Harlow Bacon

Names underlined in red approved Mar 11, 1935

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
	<u>Delemar Road</u>				32° 50' 80" 13
	<u>Jacksonboro Road</u>				32° 47' 80" 13
	<u>Tyler Tea Farms</u>				32° 47' 80" 11
	<u>Atlantic Coast Line R.R.</u>	<i>See R.R. Guide</i>			
	<u>Ravenels</u>	<i>Same</i>			
	<u>Rantowles</u>	<i>See P.O. Guide "R.R." "PMM, "Ravenels"</i>	<i>Ravenel</i>		
	<u>U S Highway No 17</u>				32° 47' 79" 09
	<u>Seaboard Airline</u>	<i>Same</i>			32° 44' 80" 14
	<u>Meggett</u>	" "			
	<u>Mud Flats</u>				32° 42' 80" 14
	<u>Wallace Cr.</u>				
	<u>Mellichamp Branch</u>	<i>(U.S.G.B., 6th Rep.)</i>			

Report T5158 Supplemental
Filed 2/12/36

1. Minor name corrections and minor shoreline correction from original photographs applied to supplemental 2/12/36