Form 804
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Planimetric
Field No.: 6126, Office No.: T-11308

LOCALITY
State: South Carolina
General locality: Charleston County
Locality: Cummings Point

1956

CHIEF OF PARTY
Ira R. Rubottom, Chief of Party
V. Ralph Sobieralski, C-in-C, Portland

PHOTOGRAHMATIC OFFICE

LIBRARY & ARCHIVES
DATE: JUNE 13, 1956

COMM-B.C 61300
DESCRIPTIVE REPORT - DATA RECORD

T - 11308

Project No. (II): 6126

CUMMINGS POINT

Field Office (II): Charleston, S. C.

Chief of Party: Ira R. Ribottom

Photogrammetric Office (III): Portland, Oregon

Officer-in-Charge: V. Ralph Sobiersalski

Instructions dated (II) (III): 13 December 1955

Amendment dated: 20 March 1956

Portland Office assignment Letter 73-mkl, dated 2 August 1956

Method of Compilation (III): Graphic

Stereoscopic Plotting Instrument Scale (III):

Manuscript Scale (III): 1:10,000

Scale Factor (III): None

Date received in Washington Office (IV): OCT 0 1957

Date reported to Nautical Chart Branch (IV):

Date registered (IV): 3 Mar 1958

Applied to Chart No. Date:

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): Mean sea level except as follows: X

Elevations shown as (2) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): CUMMINGS 1933

Lat.: 32° 44′ 17.044″ 525.0 m
                   (1323.3 m)

Long.: 79° 52′ 24.287″ 632.4 m
                  (929.8 m)

Adjusted X

Unadjusted

Plane Coordinates (IV): State:

State: Zone:

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office,
or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.
Areas contoured by various personnel 79° 48' 00"
(Show name within area)

(II) (III)
Field Inspection by (II): Martin C. Moody
          John S. Winter  
          Date: Mar., 1956
          Date: Mar., 1956

Planetary contouring by (II):

Completion Surveys by (II):

Mean High Water Location (III) (State date and method of location): From field inspection of March 1956 made on 9-lens photographs of March 1955, supplemented by 9-lens photographs of November 1955 and office examination and refinement.

Projection and Grids ruled by (IV): A. R. I. Z. Y.  
                                      Date: 12/21/55

Projection and Grids checked by (IV): A. R. I. Z. Y.  
                                      Date: 1/1/56

Control plotted by (III): LTJG Clinton D. Upham  
                          Date: 10/11/56

Control checked by (III): J. L. Harris  
                         Date: 10/11/56

Radial Plot or stereoscopic LTJG Clinton D. Upham  
Control extension by (II):

  Planimetry

Stereoscopic Instrument compilation (III):

  Contours

Manuscript delineated by (III): LTJG Clinton D. Upham (Rough Draft)  
                              " " " " (Scribing)  
                              C. C. Harris (Stick-up)  
                              Date: 12/14/56  
                              Date: 12/21/56  
                              Date: 4/8/57

Photogrammetric Office Review by (III): J. E. Deal  
                                       Date: 5/15/57

Elevations on Manuscript
checked by (II) (III):

COMM-DC-57642
**DESCRIPTIVE REPORT - DATA RECORD**

Camera (kind or source) (III): C&GS 9-lens - Focal length 8.25 inches

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>49286</td>
<td>3/23/55</td>
<td>14:08</td>
<td>1:10,000</td>
<td>0.3 ft. below M.L.W.</td>
</tr>
<tr>
<td>49287</td>
<td>3/23/55</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52206</td>
<td>11/21/55</td>
<td>10:08</td>
<td>1:10,000</td>
<td>4.4 ft. above M.L.W.</td>
</tr>
</tbody>
</table>

**Tide (III)**

From Table of Projected Tides

Reference Station: Charleston, S. C.
Subordinate Station: Fort Sumter
Subordinate Station: Sullivans Island

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5.1</td>
<td>6.0</td>
</tr>
<tr>
<td></td>
<td>5.0</td>
<td>5.9</td>
</tr>
<tr>
<td></td>
<td>5.2</td>
<td>6.1</td>
</tr>
</tbody>
</table>

Washington Office Review by (IV):

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 1
Shoreline (More than 200 meters to opposite shore) (III): 2,0
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 6 * Recovered: 5 ** Identified: 2 ***
Number of BMs searched for (II): 3 # Recovered: 3 Identified: 0
Number of Recoverable Photo Stations established (III): 1 ##
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

* Plus 15 north of map
** Plus 11 north of map
*** Plus 2 north of map

# Tidal Bench Marks

Plus 20 searched for, 20 recovered and 2 identified north of the map

## Station GOTE 1956 falls on T-11308 and not on T-11307 as listed in field inspection report.
FIELD INSPECTION REPORT
Project Ph-126
Map Manuscript T-11308

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript T-11308
Project Ph-126

The control extension for this map manuscript was completed as part of a combined radial plot comprising map manuscripts No'd. T-11306 thru T-11308, T-11311 and T-11312. The Photogrammetric Plot Report is included in the Descriptive Report for map manuscript T-11306.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORT SUMPTER</td>
<td>G-1669</td>
<td>32 44 51.13</td>
<td></td>
<td>1575.1 (273.2)</td>
</tr>
<tr>
<td>FRONT RANGE 1933</td>
<td>Pg. 67</td>
<td>79 51 48.88</td>
<td></td>
<td>1272.5 (289.6)</td>
</tr>
<tr>
<td>CUMMINGS 1933</td>
<td>G-2133</td>
<td>32 44 17.044</td>
<td></td>
<td>525.0 (1323.3)</td>
</tr>
<tr>
<td></td>
<td>Pg. 168</td>
<td>79 52 24.287</td>
<td></td>
<td>632.4 (929.8)</td>
</tr>
<tr>
<td>CUMMINGS Sub.Ft.</td>
<td></td>
<td>32 44</td>
<td></td>
<td>502.6 (1345.7)</td>
</tr>
<tr>
<td>SOUTH JETTY (USE)</td>
<td>G-2133</td>
<td>32 43 36.161</td>
<td></td>
<td>1113.9 (734.4)</td>
</tr>
<tr>
<td></td>
<td>Pg. 169</td>
<td>79 49 38.947</td>
<td></td>
<td>1014.2 (548.2)</td>
</tr>
</tbody>
</table>
31. **Delineation:**

All statements under this heading in the Compilation Report for T-11306 also apply to T-11308 except those about buildings.

Because of the inadequate photograph coverage parts of both jetties at the entrance to Charleston Harbor and particularly for the north jettys, are probably of sub-normal horizontal accuracy. Poor definition and the slim angle of radial intersections also contributed to this condition.

The jetties were detailed from graphically located detail points although many of these were of doubtful identification. The few points considered to have strong locations were rigidly held when compiling the detail. The points of doubtful location and the plotted triangulation station located on the south jettys were used to maintain the direction in which the jetties run out into the sea. The curves of both jetties and the location of the offshore ends are of questionable horizontal accuracy. Chamber lines were disregarded when delineating the jetties because it was necessary to take most of the detail from Photograph No. 49286.

Field Photograph No. 49286 indicates a submerged jettys for the length of the south jettys between the shoreline and the inshore end of the rock jettys above water. This is not in agreement with nautical charts of the area which show a 28 ft. depth of water 300 meters wide through one section of this indicated submerged jettys. **According to the Chart, the least depth over this submerged jettys is 7' No indication of the jettys could be seen on the photography.**

Paragraphs 32 thru 36: **Refer to the Compilation Report for T-11306 which is included in the Descriptive Report for that map manuscript.**

37. **Landmarks and Aids:**

Form 567 is submitted for one aid to navigation namely:

**FORT SUMPTER RANGE FRONT LIGHT**

This light was not included in the aids to navigation.
for charting submitted by the field party for the project. The light list does not show any change since the time of location of this structure by triangulation methods.

38. Control for Future Surveys:

Form 524 is submitted for a recoverable topographic station namely:

COAT 1956

This station has been listed under Paragraph 49, "Notes to the Hydrographer".

39. Junctions:

A satisfactory junction was made with T-11307 to the West. A contemporary survey was not furnished to the north for junction purposes. To the east and south is the Atlantic Ocean.

40. Horizontal and Vertical Accuracy:

Refer to remarks under Paragraph 31, "Delineation" of this report.

46. Comparison with Existing Maps:

Comparison was made with the Army Map Service 7 1/2 minute quadrangle "The Jetties, S. C." Scale, 1:25,000, First Edition 1943.

Comparison was made with C&GS Air Photo Compilation No. T-5180 of 1933, Scale 1:10,000.

*47. Comparison with Nautical Charts:

Comparison was made with nautical chart No. 491, Scale 1:20,000, published Dec. 1936 (1st edition) last corrected 6/23/52.

There are slight differences between the map manuscript and the chart in the positions of the jetties at the entrance to Charleston Harbor.

"Items to be applied to nautical chart immediately"

None.

"Items to be carried forward"

None.

A Refer Also TO Item # 47

Observative Report T-11307 Relative To Fast Land On Tip Of Commings Point.
Approved:

V. Ralph Sobiersalski
LCDR C&G Survey
Officer-in-Charge

Respectfully submitted:

J. Edward Deal
Cartographer
C&GS
T-11308

Geographic Names.

Atlantic Ocean

Charleston Harbor Entrance (used on chart 1238 and as title of 491)
Charleston County
Cummings Point

Morris Island

North Jetty

South Carolina
South Jetty

Names approved 12-6-57.

L. Reckner, A.
49. Notes to the Hydrographer:

To verify remarks made in Paragraph 31. "Delineation" of the Descriptive Report for this manuscript it is suggested that horizontal accuracy tests be made for the location of the jetties shown on the manuscript at the Entrance to Charleston Harbor.

One monumented recoverable topographic station was located along the Atlantic Ocean shoreline. It is:

COAT 1956
PHOTOGRAMMETRIC OFFICE REVIEW
T-11508


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy X 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) X 7. Photo hydro stations None 8. Bench marks None

ALONGSHORE AREAS
(Nautical Chart Data)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines None 32. Public land lines None

MISCELLANEOUS

Reviewer

Supervisor, Review Section:

J. Edward Deal

40. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  

NONFLOATING AIDS OR LANDMARKS FOR CHARTS  

TO BE CHARTED: Strike out one  

Portland, Oregon  
9 September 1957  

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.  
The positions given have been checked after listing by J. E. Deal  

<table>
<thead>
<tr>
<th>STATE</th>
<th>SOUTH CAROLINA</th>
<th>POSITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
<td>SIGNAL NAME</td>
</tr>
<tr>
<td>FORT SUMPTER RANGE FRONT LIGHT</td>
<td>(Fort Sumpter Front Range 1933)</td>
<td>32 44</td>
</tr>
</tbody>
</table>

Note:  
This aid to navigation was not listed on the Form 567 submitted by the Field Party for the entire project.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.
REVIEW REPORT T-11306 thru T-11315
PLANIMETRIC
12 February 1958

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>296</td>
<td>1:20,000</td>
<td>1849</td>
<td>899</td>
<td>1:20,000</td>
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<td>491</td>
<td>1:20,000</td>
<td>1831</td>
<td>3243</td>
<td>1:20,000</td>
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<tr>
<td>714</td>
<td>1:20,000</td>
<td>1858</td>
<td>4856</td>
<td>1:10,000</td>
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<td>1864</td>
<td>6074</td>
<td>1:10,000</td>
<td>193</td>
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</table>

These manuscripts supersede all the above surveys in common areas as source material for charts.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

James Island | 1:25,000 | AMS
The Jetties | " | "
Legareville | " | "
Kiawah Island | " | "

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>792</td>
<td>1:40,000</td>
<td>2nd Ed. 1941 Revised 9/9/57</td>
<td></td>
</tr>
<tr>
<td>491</td>
<td>1:20,000</td>
<td>1st Ed. 1936 Revised 1/21/57</td>
<td></td>
</tr>
</tbody>
</table>

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These maps comply with instructions and meet the National Standards of Map Accuracy.

They are of adequate accuracy for use as a base for future hydrographic surveys.

Pertinent comments applicable to each survey follows:

T-11306

Attention is directed to Item 47 for investigation by future hydrographic surveys.

The overhead power cable over Simpson was not verified by field inspection.
REVIEW REPORT T-11306 thru T-11315
PLANIMETRIC
12 February 1958

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

<table>
<thead>
<tr>
<th>No.</th>
<th>Date</th>
<th>Survey</th>
<th>Error</th>
<th>Error</th>
<th>Date</th>
<th>Survey</th>
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<tbody>
<tr>
<td>296</td>
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<td>1819</td>
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<td>491</td>
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<td>6074</td>
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<td>1:10,000</td>
<td>148</td>
</tr>
</tbody>
</table>

These manuscripts supersede all the above surveys in common areas as source material for charts.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

James Island 1:25,000 AMS
The Jetties
Legareville
Kiawah Island

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

65. COMPARISON WITH NAUTICAL CHARTS

792 1:40,000 2nd Ed. 1941 Revised 9/2/57
491 1:20,000 1st Ed. 1936 Revised 1/21/57

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

These maps comply with instructions and meet the National Standards of Map Accuracy.

They are of adequate accuracy for use as a base for future hydrographic surveys.

Pertinent comments applicable to each survey follows:

T-11306

Attention is directed to Item 47 for investigation by future hydrographic surveys.

The overhead power cable over Simpson Creek was not verified by field inspection.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS CONTINUED

**T-11307**

Refer to Item 41 and 47 of the Compilation Report.

**T-11308**

It is recommended that the positions of the north and south jetties be checked by the hydrographer. Refer to Item 25 of the Plot Report and Item 31 of the Compilation Report.

**T-11311**

Several differences exist in clearances between the manuscript and the chart.

<table>
<thead>
<tr>
<th>Location</th>
<th>Feature</th>
<th>Chart</th>
<th>Manuscript</th>
</tr>
</thead>
<tbody>
<tr>
<td>East of Peas Island</td>
<td>OVED CAB 48'</td>
<td>59'</td>
<td></td>
</tr>
<tr>
<td>Folly Beach Aer. Folly Cr.</td>
<td>Fixed Bridge Vt.el.10'</td>
<td>11'</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horiz.el.57'</td>
<td>54'</td>
<td></td>
</tr>
<tr>
<td>Oak Island Cr.</td>
<td>Fixed Bridge Vt.el.3'</td>
<td>Skiff c'</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Horiz.el.28'</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reviewed by

A. K. Heywood

Approved

L. Kunde

Chief, Review Branch
Photogrammetry Division

Max. S. Scott

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS CONTINUED

T-11307

Refer to Item 46 and 47 of the Compilation Report.

T-11308

It is recommended that the positions of the north and south jetties be checked by the hydrographer. Refer to Item 25 of the Plot Report and Item 31 of the Compilation Report.

T-11311

Several differences exist in clearances between the manuscript and the chart.

<table>
<thead>
<tr>
<th>Location</th>
<th>Feature</th>
<th>Chart</th>
<th>Manuscript</th>
</tr>
</thead>
<tbody>
<tr>
<td>East of Pass Island</td>
<td>OVER CAB</td>
<td>4.5'</td>
<td>5.5'</td>
</tr>
<tr>
<td>Polly Beach Area</td>
<td>Polly Cr. Fixed</td>
<td>Bridge</td>
<td>Vt. 01.10'</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Horiz.</td>
<td>01.57'</td>
</tr>
<tr>
<td>Oak Island Cr.</td>
<td>Fixed Bridge</td>
<td>Vt. 01.31'</td>
<td>Skiff</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Horiz.</td>
<td>01.28</td>
</tr>
</tbody>
</table>

Reviewed by
A. H. Heywood

Approved

Chief, Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Coastal Surveys Division
# NAUTICAL CHARTS BRANCH

**SURVEY NO.** T-11308

**Record of Application to Charts**

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/1/63</td>
<td>1239</td>
<td>E.E. Thomas</td>
<td>Consider fully applied until Reconstruction</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>After Verification and Review</td>
</tr>
<tr>
<td>12/4/73</td>
<td>491</td>
<td>RA Lilli</td>
<td>Consider fully applied</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>After Verification and Review</td>
</tr>
</tbody>
</table>

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.