

# 10311

Diag. Cht. No. 1240-2.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Type of Survey Planimetric

Field No. Ph-154 Office No. T-10311

### LOCALITY

State South Carolina

General locality Port Royal Sound

Locality Parris Island

1955

### CHIEF OF PARTY

J.E. Waugh, Chief of Party

W.F. Deane, Balto. District Officer

### LIBRARY & ARCHIVES

DATE November 17, 1961

USCOMM-DC 5087

# 10311

DESCRIPTIVE REPORT - DATA RECORD

T - 10311

Ph-154

Project No. (II):

~~0154~~

Quadrangle Name (IV):

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

Chief of Party: J. E. Waugh

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane

Instructions dated (II) (III): 16 August 1955 (Field & Office)

Copy filed in Division of  
Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. N.A. 1927 Date:

Date registered (IV): 17 Feb 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III):

Vertical Datum (III): MHW

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III): SHOOT, 1933

Lat.: 32° 20' 03.625" (111.7 m) Long.: 80° 42' 49.859" (1304.0 m)

Adjusted  
~~Unadjusted~~

Plane Coordinates (IV):

State: S. C.

Zone: South

Y=

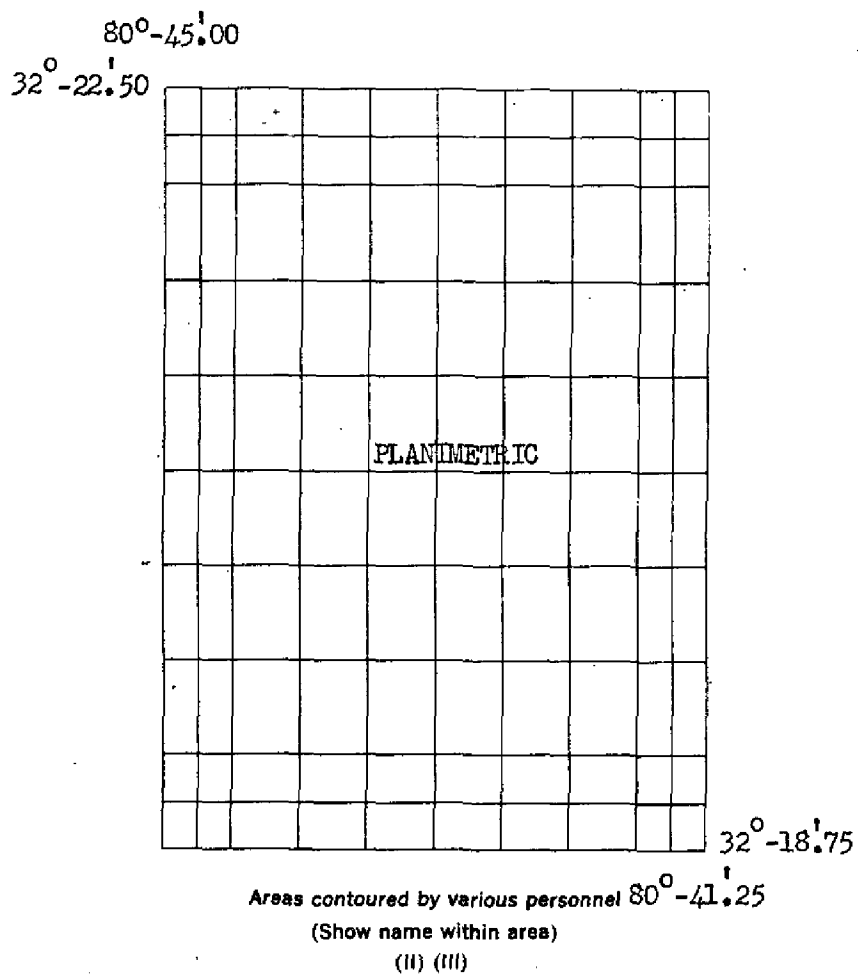
X=

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.

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY



DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): Leo F. Beugnet  
Richard H. Houlder  
Date: Nov. 1955  
Nov. 1955

Planetable contouring by (II):  
Date:

Completion Surveys by (II):  
Date:

Mean High Water Location (III) (State date and method of location): 1955, Date of Photography,  
supplemented by field inspection.

Projection and Grids ruled by (IV): A. Riley  
Date: 10/10/55

Projection and Grids checked by (IV): A. Riley  
Date: 10/10/55

Control plotted by (III): B. F. Lampton  
Date: 5/29/56

Control checked by (III): B. L. Williams  
Date: 6/6/56

Radial Plot ~~checked~~ L. A. Senasack  
~~checked~~ by (III):  
Date: 9/4/56

Planimetry  
Stereoscopic Instrument compilation (III):  
Contours  
Date:  
Date:

Manuscript delineated by (III): J. Honick  
Date: 1/16/59

Photogrammetric Office Review by (III): R. Glaser  
Date: 1/29/59

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

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III):

C&GS Nine lens

4

PHOTOGRAPHS (III)		Scale	Stage of Tide
Number	Date	Time	
49489 thru 91	3/24/55	0939	1:10,000
49437 " 39	3/23/55	1605	7.0' above MLW
			1.4' " "

Tide (III)

From Predicted Tables

Reference Station: SAVANNAH RIVER ENTRANCE  
Subordinate Station: Archers Creek Ent. Broad River  
Subordinate Station: Port Royal, Battery Creek

Ratio of Ranges	Mean Range	Spring Range
	6.9	8.1
	7.1	8.3
	7.2	8.5

Washington Office Review by (IV):

Date: AUG. 1959

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): 12

Shoreline (More than 200 meters to opposite shore) (III): 10 mi.

Shoreline (Less than 200 meters to opposite shore) (III): 37 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 10 Recovered: 4 Identified: 2

Number of BMs searched for (II): 0 Recovered: 0 Identified: 0

Number of Recoverable Photo Stations established (III): None

Number of Temporary Photo Hydro Stations established (III): None

Remarks:

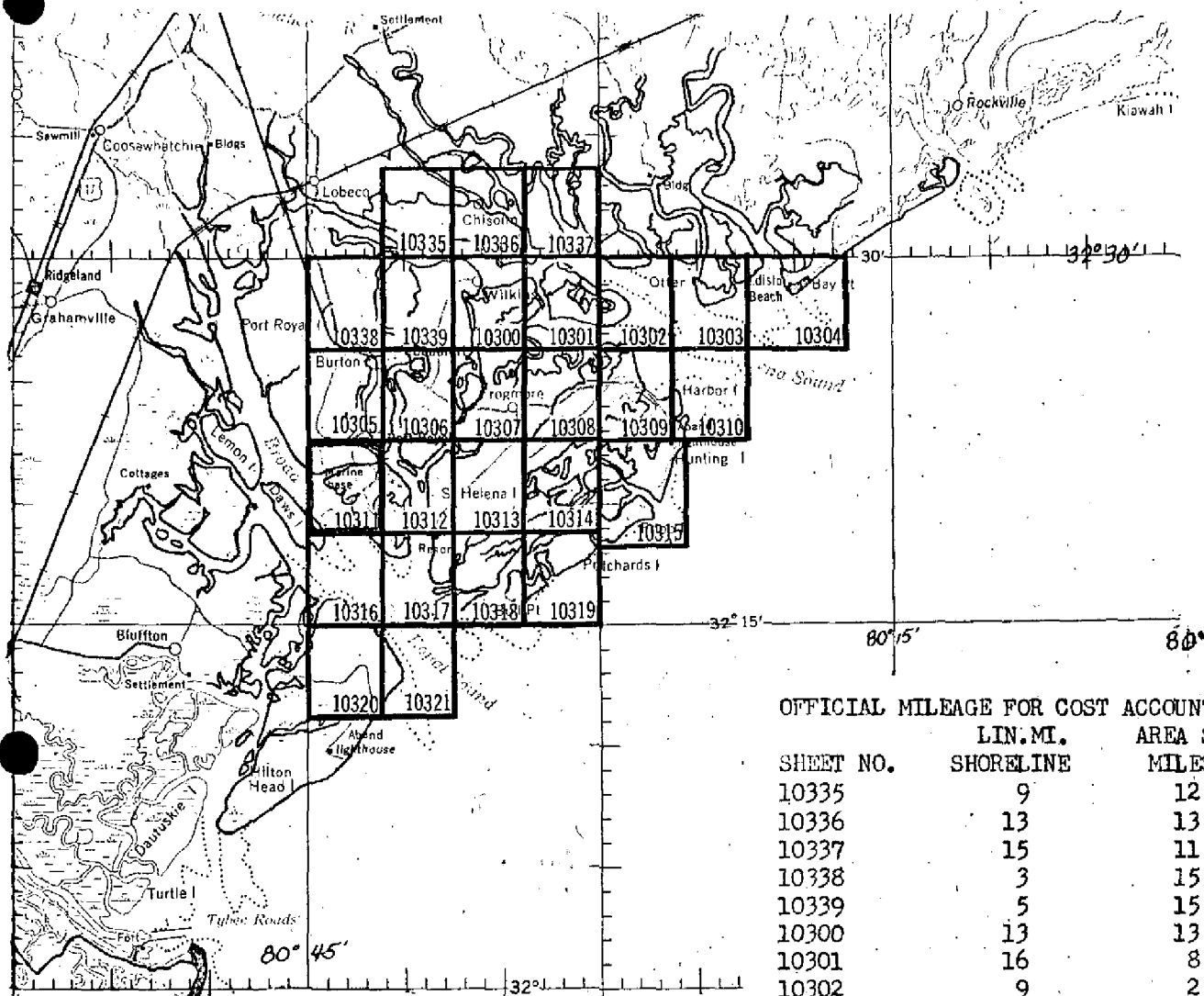
In addition to the above triangulation stations, four stations to the west were recovered, namely: BANANA 2, 1931; LEMON 2, 1933; ROSE, 1933; and WAD, 1933. Stations LEMON 2, 1933 and WAD, 1933 were identified.

One 3rd-order triangulation intersection station was established and identified.

# SHORELINE MAPPING PROJECT 6154

## ST. HELENA SOUND TO PORT ROYAL SOUND; S. CAROLINA

5



### OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	LIN. MI. SHORELINE	AREA SQ. MILES
10335	9	12
10336	13	13
10337	15	11
10338	3	15
10339	5	15
10300	13	13
10301	16	8
10302	9	2
10303	9	3
10304	7	3
10305	6	15
10306	13	13
10307	8	14
10308	3	15
10309	13	11
10310	3	1
10311	9	12
10312	16	12
10313	6	15
10314	13	13
10315	13	8
10316	9	2
10317	8	4
10318	13	9
10319	9	4
10320	4	15
10321	5	1

TOTALS 250

259

FIELD INSPECTION REPORT  
Project 6154

Maps  
T-10311 and T-10312

2. AREAL FIELD INSPECTION

These maps lie south of Beaufort on parts of St. Helena, Ladies and Parris Islands. The majority of the area is land and tidal marshes. There are no incorporated towns or villages within the area. The Marine Corps Recruit Depot is located on Parris Island. The Intracoastal Waterway runs through Map T-10312 via Beaufort River. Broad River lies in the southwestern part of Map T-10311. There are no railroads within the area.

The quality of the nine-lens photography was in general very good.\* The photographs were flown at or near the time of low water, which enabled the field inspector to delineate many of the offshore features.

\* THIS IS TRUE IN MOST AREAS BUT NOT ALL AND

There are three distinct photographic tones near the tidal marsh. The very dark tones are marsh. The white tones are sand and/or shell. The light tone is mud. There are some exceptions to these tones however as low, sparse marsh on a sandy mud will photograph white; mud will also photograph white in some cases. All of these areas have been labeled on the photographs.

Swamp limits and the inshore limits of marsh have been outlined on the photographs in red.

Field inspection notes appear on 1:10,000 scale, nine-lens photographs Nos.: 49389, 49390, 49439, 49440, 49441, 49488, 49489 and 49490.

3. HORIZONTAL CONTROL

All horizontal control stations within the area were searched for and reported on Form 526.

The following stations were reported lost:

Map T-10311:

ARCH, 1921  
ARCHERS CREEK BEACON, 1933

Map T-10311 (cont'd):

BASE 1 (USE), 1931  
 PARRIS ISLAND STACK, HIGHEST OF TWINS, 1932  
 RIFLE, 1933  
 TRIANGULAR BEACON, 1931

Map T-10312:

BUG, 1933  
 CHOW, 1933  
 MOORING MAST, 1933  
 PARRIS ISLAND HIGH BRICK STACK, 1932  
 PARRIS ISLAND LOW WHITE STACK, 1932  
 PARRIS ISLAND REAR RANGE LIGHTHOUSE, 1900  
 PARRIS ISLAND SILVER WATER TANK, 1932  
 PARRIS ISLAND WATER TANK WHITE WITH BLACK TOP, 1932

The following third-order triangulation intersection stations were established:

Map T-10311:

PARRIS ISLAND MARINE CORPS RECRUIT DEPOT,  
 LOOKOUT TOWER

Map T-10312:

PARRIS ISLAND MARINE CORPS RECRUIT DEPOT,  
 AIR STRIP BEACON  
 PARRIS ISLAND MARINE CORPS RECRUIT DEPOT,  
 AIR STRIP CONTROL TOWER  
 PARRIS ISLAND MARINE CORPS RECRUIT DEPOT,  
 SPHERICAL TANK (elevated).

Station OX 2, 1956 was established since OX, 1933 was in danger of being destroyed soon.

4. VERTICAL CONTROL

All tidal bench marks were searched for and reported on Form 685. No new bench marks were established.



## 5. CONTOURS AND DRAINAGE

Contouring is inapplicable.

There is little drainage. It is all tidal, except for ditches which drain swamp, marsh and cultivated areas.

## 6. WOODLAND COVER

The woodland cover has been classified in accordance with Section 5433, Topographic Manual, Part II.

## 7. SHORELINE AND ALONGSHORE FEATURES

The majority of the shoreline is the offshore edge of marsh. The shoreline was visually inspected from a skiff and symbolized on the photographs in accordance with the Topographic Manual, Part II, Fig. 5.22.

The foreshore is usually mud or mud and oysters. It has been classified on the photographs.

There are no bluffs or cliffs within the area.

All docks, piers and landings have been noted on the photographs.

The shore ends of two submerged cables were identified on the photographs.

## 8. OFFSHORE FEATURES

The approximate mean low water line has been indicated on the photographs in accordance with the Topographic Manual, Part II, Fig. 5.22. The mean low water line could not be accurately determined.

The approximate low water line along Parris Island in Broad River and Port Royal Sound lies several hundred feet offshore and was sketched during shoreline inspection.

## 9. LANDMARKS AND AIDS

Five landmarks for nautical charts were recommended for charting on Form 567. Three are within Map T-10311 and two within Map T-10312.

There are no aeronautical or interior landmarks within the area.

All fixed aids to navigation were pricked direct on the photographs for photogrammetric location.

#### 10. BOUNDARIES, MONUMENTS AND LINES

The only boundary within these two maps is the boundary of the Parris Island Marine Corps Recruit Depot. (See Special Boundary Report, Project 6154.)

#### 11. OTHER CONTROL

No other control was established.

#### 12. OTHER INTERIOR FEATURES

\*All roads within the area were classified in accordance with project instructions.

\*SEE REVIEW REPORT AKA

\*Within the Parris Island Marine Corps Recruit Depot all class "2" buildings were circled in red ink. Buildings that have been razed were deleted in green ink. Buildings and areas circled or outlined in violet ink are features that the Public Works Officer, Parris Island Marine Corps Recruit Depot requested not be shown on published manuscripts. All other buildings are class "1" and are to be delineated.

The following bridge clearances were tabulated in accordance with project instructions. The measurements of the clearances, as determined by the field party in 1955, are listed on the first line. The second line lists those shown in the U. S. Engineers List of Bridges Over Navigable Waters of the United States.

<u>Name</u>	<u>Type</u>	<u>Vertical Clearance</u>	<u>Horizontal Clearance</u>
Archers Creek	Fixed	22.0 ft.	36.0 ft.
		14.0 ft.	34.0 ft.
Ballast Creek	Fixed	5.0 ft.	28.0 ft.
		Not Listed	

The airfield on Parris Island is now seldom used.

There are no overhead cables crossing over navigable water.



13. GEOGRAPHIC NAMES

See Special Report, Geographic Names, Project 6154.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Boundaries, Project 6154, forwarded to the Director in Pkg. No. 55-44 on 25 November 1955.

Data for Map T-10313 forwarded to the Baltimore District Office in Pkg. No. 55-43 on 7 November 1955.

Data for Maps T-10316 and T-10317 forwarded to the Baltimore District Office in Pkg. No. 56-1 on 5 January 1956.

Other Special Reports and Data to be submitted for the project as a whole:

Geographic Names

Triangulation for Supplemental Control

Cards for Recovery of Geodetic Control

Cards for Recovery of Tidal Bench Marks

Forms 567 for Landmarks and Aids to Navigation - both Nautical and Aeronautical

Submitted by:

*Leo F. Beugnet*

Leo F. Beugnet  
Cartographic Survey Aid

Approved & Forwarded:

*J. E. Waugh*

J. E. Waugh  
CDR, C & GS  
Chief of Party

SCALE FACTOR

1 FT. x 3048006 METER	COMPUTED BY: <b>A. W. Willis</b>	DATE: <b>5/22/56</b>	CHECKED BY: <b>J. Steinberg</b>	DATE: <b>5/23/56</b>	COMM-DC-57843
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COMPILATION REPORT  
T-10311

The photogrammetric plot report covering the area of this manuscript is a part of the descriptive report for T-10307.

31. DELINEATION

Graphic methods were used to delineate this manuscript.

32. CONTROL

The identification, density and placement of horizontal control was satisfactory.

33. SUPPLEMENTAL DATA

The A.M.S. Fort Fremont, S. Carolina quadrangle, annotated by the names section, was used for geographic names.

34. CONTOURS AND DRAINAGE

Contours: Not applicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline inspection was adequate.

The low water line was delineated from field inspection and office interpretation of the photographs.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Forms 567 have been previously submitted for three landmarks to be charted and two landmarks to be deleted.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions have been made and are in agreement with:

T-10305 to the north

T-10312 to the east

T-10316 to the south

No contemporary survey to the west.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 through 45.

Not applicable.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with the following: A.M.S. Fort Fremont, S. Carolina quadrangle, scale 1:50,000, published in 1948.

C&GS Survey T-5209, scale 1:10,000, from 1933 photographs.

C&GS Survey T-5210, scale 1:10,000, from 1933 photographs.

C&GS Survey T-5135, scale 1:20,000, from 1933 photographs.

47. COMPARISON WITH NAUTICAL CHARTS

This manuscript was compared with Chart No. 571, scale 1:40,000 published October 1936 (10th edition), corrected to 8/18/56.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted  
19 January 1959

Approved and forwarded:

*William F. Deane*  
William F. Deane,  
CDR C&GS  
Baltimore District Officer

*Jack Honick*  
Jack Honick  
Carto. Photo. Aid

48. GEOGRAPHIC NAME LIST

\* Archers Creek

Ballast Creek

\* Battery Creek

Beaufort County

Broad River

Charleston and Western Carolina R.R.

\* Daws Island

Dredge Cut (Plat C-3, boundary report)

Horse Island

Jericho Island

\* Parris Island

Parris Island Marine Corps Recruit Depot

Port Royal

Port Royal Sound (Title)

Ribbon Creek

South Carolina

Whale Branch

\*B.G.N. Decisions

*George M. Bace*  
Geographic Names Section  
31 August 1959

PHOTOGRAMMETRIC OFFICE REVIEW

T. 10311

1. Projection and grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. Manuscript size ☒

CONTROL STATIONS

4a. Classification label ☒

5. Horizontal control stations of third-order or higher accuracy ☒ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) ☒ 7. Photo hydro stations ☒ 8. Bench marks ☒ 9. Plotting of sextant fixes ☒ 10. Photogrammetric plot report ☒ 11. Detail points ☒

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☒ 14. Rocks, shoals, etc. ☒ 15. Bridges ☒ 16. Aids to navigation ☒ 17. Landmarks ☒ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

PHYSICAL FEATURES

20. Water features ☒ 21. Natural ground cover ☒ 22. Planetable contours ☒ 23. Stereoscopic instrument contours ☒ 24. Contours in general ☒ 25. Spot elevations ☒ 26. Other physical features ☒

CULTURAL FEATURES

27. Roads ☒ 28. Buildings ☒ 29. Railroads ☒ 30. Other cultural features ☒

BOUNDARIES

31. Boundary lines ☒ 32. Public land lines ☒

MISCELLANEOUS

33. Geographic names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☒ 38. Field inspection photographs ☒ 39. Forms ☒

40. R. Palasin  
Reviewer

Joseph Steinberg  
Supervisor, Review Section or Unit

41. 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:



**STRIKE OUT ONE**

### NONFLATING/AIDS/OR LANDMARKS FOR CHARTS

Photogrammetric Party No. 1 11 January 1956

I recommend that the following objects which have ~~(been examined)~~ been inspected from seaward to determine their value as landmarks be ~~inspected~~ *deleted from* the charts indicated.

The positions given have been checked after listing by

/s/ J. E. Waugh

Chief of Party.

Chief of Party.

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.

## \*\* TABULATE SECONDS AND METERS

**STRIKE OUT ONE**

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

I recommend that the following objects which have ~~not~~<sup>been</sup> been inspected from seaward to determine their value as landmarks be charted on ~~additional sheets~~<sup>the</sup> the charts indicated.

The positions given have been checked after listing by

**W. J. TAYLOR**

Chief of Party.

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.

\* TABULATE SECONDS AND METERS

Refer to Descriptive Report T-10346  
for a Review Report covering this manuscript.

Reviewed by

*A. K. Hingwood*  
A. K. Hingwood

Approved by

*L. C. Lande*  
L. C. Lande  
Chief, Review Section

*G. B. Wray*  
G. B. Wray  
Chief, Coastal Surveys  
Division  
Asst. Chief, Operations Division

*L. F. Woodcock*  
L. F. Woodcock  
Asst. Chief, Photogrammetry Division

*J. E. Waugh* 11/27/61  
J. E. Waugh  
Chief, Nautical Chart Division  
Office of Cartography

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-10341

## Record of Application to Charts

[illegible]

M-2168-1

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.