Diag. Ch. No. 904

FORM C&GS-504
U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)
Field No.: Ph-5909 Office No.: T-12168

LOCALITY
State: Puerto Rico
General locality: Isla De Vieques
Locality: Ensenada Honda

1959-66
CHIEF OF PARTY
J. Bull, Director, Atlantic Marine Center

LIBRARY & ARCHIVES
DATE: April 1968
### Descriptive Report - Data Record

**Project No. (III):**

PH-5909

**Field Office (III):**

Atlantic Marine Center

**Chief of Party:**

J. Bull, Director

**Instructions Dated (III):**

November 12, 1965

**Method of Compilation (III):**

Wild B-8

**Manuscript Scale (III):**

1:20,000

**Stereoscopic Plotting Instrument Scale (III):**

1:6,000 pantographed to 1:20,000

**Date Received in Washington Office (IV):**


**Date Reported to Nautical Chart Branch (IV):**


**Applied To Chart No.:**


**Geographic Datum (III):**

Puerto Rico

**Vertical Datum (III):**

MHW

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):**

EAST END, 1900

**Lat.:**

18° 08' 11".263 (346.3m)

**Long.:**

65° 16' 21.014 (617.7m)

**Adjusted:**

✓

**Unadjusted:**


**Plane Coordinates (IV):**

f = 111,345.15 ft.

x = 903,027.74 ft.

**State:**

Puerto Rico

**Zone:**

Zone 1

**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

**T-12168**

#### Field Inspection by (III):
None

#### Mean High Water Location (III) (State Date and Method of Location):
- Air Photo Compilation
- Date of Photography: April 20, 1959 and February 21, 1964

#### Projection and Grids Ruled by (IV):
- A. E. Roundtree
  - Date: November 1965

#### Projection and Grids Checked by (IV):
- R. S. Kornspan
  - Date: November 1965

#### Control Plotted by (III):
- B. H. Barnes
  - Date: January 1966

#### Control Checked by (III):
- A. C. Rauck
  - Date: January 1966

#### Radial Plot or Stereoscopic Control Extension by (III):
- Robert B. Kelly (WSC)
  - Date: No Date

#### Stereoscopic Instrument Compilation (III):
- Planimetry:
  - L. O. Neterer
  - Date: January 1966
- Contours:
  - Inapplicable

#### Manuscript Delineated by (III):
- LT. D. L. Des Jardins
  - Date: January 1966

#### Scribing by (III):

#### Photogrammetric Office Review by (III):
- L. L. Graves
  - Date: January 1966

#### Remarks:
Field Edit: D. R. Rich, LTJG, USESSA
- April 1966
### Descriptive Report - Data Record

**T-12168**

**Camera (Kind or Source) (iii):**

"S" and "W" Cameras

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<th>Scale</th>
<th>Stage of Tide</th>
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<td>64-W-3490</td>
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<td>64-W-3492</td>
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<td>10:05</td>
<td>1:30,000</td>
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<td>59-S-3972</td>
<td>Apr. 20, 59</td>
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**Predicted Tide (iii):**

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<th>Ratio of Ranges</th>
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<td>Subordinate Station:</td>
<td>Galveston, Texas San Juan, Puerto Rico</td>
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<td>Bahia de Mulas, Isla de Vieques</td>
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<td>Puerto Ferro, Isla De Vieques</td>
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**Date:** Jan. 1967

**Remarks:**

None
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<th>ALONGSHORE AREA FOR HYDRO</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
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<td>Field Edit Applied</td>
<td>February 1966</td>
<td>Superseded</td>
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<tr>
<td>Manuscript Complete</td>
<td>July 1966</td>
<td>Superseded</td>
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<tr>
<td>Shoreline revised during</td>
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<tr>
<td>final review</td>
<td>Dec 1960</td>
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PROJECT 21023
(Ph 5909)
Shoreline Mapping
1:5000, 1:10,000,
& 1:20,000 Scale
Culebra, Vieques and
adjoining islands
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12168

Shoreline manuscript T-12168 is one of three 1:20,000 scale manuscripts of the Vieques Island part of Ph-5909, which also contains 8 maps of Culebra Island and adjoining islands. The sketch on page 5 of this report shows the position of this manuscript in this part of the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. Two strips of 1:30,000 scale panchromatic photographs the southern one taken in 1959 with "S" camera, and the northern flight taken in 1964 with the "Wn" camera. 1962 color photographs at 1:10,000 scale provided added information along the shoreline.

The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:20,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification only. The manuscript was field edited in conjunction with photo-hydro support.

The compilation manuscript was a vinylite sheet 7 minutes, 30 seconds in latitude, and 7 minutes 30 seconds in longitude. The smooth manuscript is on cronaflex for registry and record after final review.
FIELD INSPECTION REPORT

There was no field inspection prior to compilation.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR (\nu)-COORDINATE</th>
<th>LONGITUDE OR (\lambda)-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>East End, 1900, r., 1923</td>
<td>G.P. pg.29</td>
<td>PR</td>
<td>18° 08' 11.263&quot;</td>
<td>65° 16' 21.014&quot;</td>
<td>346.3</td>
<td>1498.3</td>
<td>617.7 (1146.6)</td>
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<tr>
<td>Fossil Cliff, 1900, r., 1923</td>
<td>G.P. pg.51</td>
<td>&quot;</td>
<td>18° 08' 48.985&quot;</td>
<td>65° 17' 39.619&quot;</td>
<td>1505.9</td>
<td>(338.7)</td>
<td>1164.6 (597.7)</td>
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<tr>
<td>Ensenada (USGS) 1938 - 41</td>
<td>G.P. pg.176</td>
<td>&quot;</td>
<td>18° 07' 00.326&quot;</td>
<td>65° 20' 43.583&quot;</td>
<td>10.0</td>
<td>1834.6</td>
<td>1281.3 (482.1)</td>
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<tr>
<td>Port Diablo (USGS) 1938 - 41</td>
<td>G.P. pg.176</td>
<td>&quot;</td>
<td>18° 08' 58.396&quot;</td>
<td>65° 19' 35.481&quot;</td>
<td>1795.3</td>
<td>(493.8)</td>
<td>1042.9 (730.30)</td>
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<td>Matias (USGS) 1938 - 41</td>
<td>G.P. pg.177</td>
<td>&quot;</td>
<td>18° 08' 00.643&quot;</td>
<td>65° 19' 03.653&quot;</td>
<td>19.8</td>
<td>1824.8</td>
<td>107.4 (1655.2)</td>
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<td>GOLETA 3 (USGS) 1938-41</td>
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<td>&quot;</td>
<td>18° 09' 30.523&quot;</td>
<td>65° 22' 02.704&quot;</td>
<td>938.4</td>
<td>(906.2)</td>
<td>79.4 (1684.0)</td>
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<tr>
<td>PALOMA (USGS) 1938 - 41</td>
<td>G.P. pg.176</td>
<td>&quot;</td>
<td>18° 08' 32.343&quot;</td>
<td>65° 20' 51.358&quot;</td>
<td>994.3</td>
<td>(850.3)</td>
<td>1509.5 (254.1)</td>
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<td>FLAG 1141 (USGS) 1938 - 41</td>
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<td>&quot;</td>
<td>18° 08' 33.84&quot;</td>
<td>65° 17' 55.09&quot;</td>
<td>1040.3</td>
<td>(804.3)</td>
<td>1619.2 (144.4)</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: D.L. DesJardins  DATE: 2/4/66
CHECKED BY: Barnes  DATE: 2-3-66
COMPILATION REPORT
T-12168

Aerotriangulation Report is submitted with T-12166.

31. DELINEATION

The Wild B-8 instrument was used.
There was no field inspection.
Photography was satisfactory.

32. CONTROL

See Aerotriangulation Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

There was no shoreline inspection. Shoreline and alongshore details were compiled by office interpretation of the photography. No low water line was shown.

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

One Aid to Navigation has been submitted on Form 567. There are no Landmarks.
38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory junction was made with T-12167 to the west. The Caribbean Sea is to the south and Sonda De Vieques to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangles, ISLAND OF VIEQUES, PUERTO RICO; scale 1:50,000 and Topographic Map of the Island of Vieques, Puerto Rico; scale 1:30,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 904, VIRGIN PASSAGE and SONDA DE VIEQUES, scale 1:100,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

L. L. Graves
Cartographic Technician

Approved and Forwarded:

J. Bull, CAPT, USESSA
Director, Atlantic Marine Center
48. GEOGRAPHIC NAME LIST

BAHIA FANDUCA
BAHIA ICACOS
BAHIA JALOVA
BAHIA PLAYA BLANCA
BAHIA SALINA DEL SUR
BAHIA SALINAS - Not on Geographic Name Quad (A.M.S.), on Washington Office
      Name List, on Geol. Survey Quad. of island, and on
      Chart 901b. USED
BAHIA YOYE

** CANO HONDO
CARIBBEAN SEA
CAYO JALOVA
CAYO JALOVITA

**** CERRO FARALLON
**** CERRO INDIO

*** CERRO MATIAS JALOBR
ENSENADA HONDA
ISLA DE VIEQUES
ISLA YALITAS
LAGUNA ALGODONES
LAGUNA ANONES
LAGUNA MATIAS
LAGUNA MONTE LARGO
LAGUNA YANUEL
LAGUNA PUERTO DIABLO
PENASCO FOSIL

* PUERTO DIABLO
PUERTO NEGRO
PUNTA BRIGADIER
PUNTA CARENERO
PUNTA CONEJO
PUNTA ESTE
PUNTA GATO
PUNTA GOLETA
PUNTA ICACOS
PUNTA JALOVA
PUNTA MATIAS
PUNTA SALINAS
ROCA ALCATRAZ
ROCA CUCARACHA
SONDA DE VIEQUES

* ON GEOGRAPHIC NAME SHEET BUT NOT ON GEOGRAPHIC NAME LIST
** ON GEOGRAPHIC NAME LIST TAKEN FROM CHART 904, not on Geographic Name Quad.
*** Feature (Hill or Mountain) not delineated, name not used.
GEOGRAPHIC NAMES

FINAL NAMES LIST

PH-5909
T-12168

Bahia Pandoa
Bahia Icacos
Bahia Jalova
Bahia Playa Blanca
Bahia Salina del Sur
Bahia Salinas - Not on Geographic Name Quad. (A.M.S.); on Washington Office Name List, on Geol. Survey Quad., on Chart 904
Bahia Yoye

Canoe Hondo —— (On Chart 904, not on Geographic Name Quad.)
Caribbean Sea
Cayo Jalova
Cayo Jalovita

* * Cerro Farallon
* * Cerro Indio

* Cerro Matias Jalobre
* Cerro Palomas
Ensenada Honda
Isla De Vieques
Isla Yallis
Laguna Algodones
Laguna Andines
Laguna Matias
Laguna Monte Largo
Laguna Puerto Diablo
* * Laguna Yanuel Puerto Diablo
** Puerto Diablo

- Puerto Negro
- Punta Brigadier
- ** Punta Canejo
- Punta Carenero
- Punta Este
- Punta Gato
- Punta Goleta
- Punta Icacos
- Punta Jalova
- Punta Matias
- Punta Salinas
- Roca Alcatraz
- Roca Cucaracha
- Sonda De Vieques

---

Approved by:  
A. J. Wraight  
Chief Geographer

Prepared by:  
Frank Pickett  
Cartographic Technician

*Feature (Hill or Mountain) not delineated, name not used.*

** On the Geo. Name AMS Quad. Used
19. NOTES FOR THE HYDROGRAPHER

Features believed to be of landmark value have been shown, however their navigational value should be verified.

Rocks, shoals and other offshore features have been shown from office interpretation and should be verified.

Due to the time and date difference in photography, many shoreline points which appear on the 1964 photographs do not appear on the 1959 photos and vice-versa.
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<td>3. MANUSCRIPT NUMBERS</td>
<td>4. MANUSCRIPT SIZE</td>
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<td>CONTROL STATIONS</td>
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<td>5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY</td>
<td>6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations)</td>
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<td>12. SHORELINE</td>
<td>13. LOW-WATER LINE</td>
<td>14. ROCKS, SHOALS, ETC.</td>
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<td>16. AIDS TO NAVIGATION</td>
<td>17. LANDMARKS</td>
<td>18. OTHER ALONGSHORE PHYSICAL FEATURES</td>
<td>19. OTHER ALONGSHORE CULTURAL FEATURES</td>
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<td>28. BUILDINGS</td>
<td>29. RAILROADS</td>
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<td>34. JUNCTIONS</td>
<td>35. LEGIBILITY OF THE MANUSCRIPT</td>
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<td>36. DISCREPANCY OVERLAY</td>
<td>37. DESCRIPTIVE REPORT</td>
<td>38. FIELD INSPECTION PHOTOGRAPHS</td>
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<td>40. REVIEWER</td>
<td>SUPERVISOR, REVIEW SECTION OR UNIT</td>
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<td>41. REMARKS (See attached sheet)</td>
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<tr>
<td>FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</td>
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<tr>
<td>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.</td>
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</table>
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 L. L. Graves

J. Bull, Director, Atlantic Marine Center

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE S</th>
<th>LONGITUDE W</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<td>PUERTO RICO</td>
<td>Light</td>
<td>PUNTA ESTE LIGHT</td>
<td>18°08'</td>
<td>445</td>
<td>65°16'</td>
<td>186</td>
<td>Rico T-12168 Apr.66</td>
<td>X</td>
<td>940</td>
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.
FIELD EDIT REPORT

T-12166

The field edit report is included with the Descriptive Report for T-12166.
61. GENERAL STATEMENT

See summary accompanying Descriptive Report (page 6)

A Comparison Print (ozalid) showing the differences referred to in Items 62, 64, and 65 is enclosed with the original of this Report. The flight lines of the color photographs are shown on the Comparison Print in brown.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Reg. No. 2636; l:10,000; 1903 Puerto Rican Datum
   " " 2871; l:20,000; 1907 " "

The Comparison Print shows areas of this map covered by these Registered Surveys.

(a) There are differences of up to 80 meters, at Punta Goleta, latitude 18°09'.5, longitude 65°21'.4.

(b) The major differences with Reg. No. 2871 are:

The size and shape of Isla Yallis, at latitude 18°09'.0, longitude 65°18'.55.

The small islet in Bahia Salina Del Sur at latitude 18°08'.17, longitude 65°18'.34, is shown as a small peninsula on the 1907 survey.

The islet, Cayo Jalovita, at latitude 18°07'.1., longitude 65°21'.3, is now only a "rock awash".

The position of Punta Conejo, latitude 18°06'.62 longitude 65°22.5 is about 30 meters east of the 1907 position.

There are differences in the size and shape of the small island Roca Alcatraz, latitude 18°07'.5, longitude 65°18'.1; and the island a half mile west of it.
(c) There are some changes in the "fast" shoreline of Isla de Vieques which are not excessive; and some understandable 100 meter changes in the mangrove shoreline bordering of Ensenada Honda on the south coast.

T-12168 supersedes the listed prior surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Island of Vieques; U.S.G.S.; 1:30,000; 1943 revised 1949.

The comparison is generally good.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Boat Sheet WH-20-1-66A; 1:20,000, 1966

The area covered by these boat sheets, and along the north coast of the island, is shown on the Comparison Print.

The Comparison Print shows some bare rocks, rocks awash, submerged rocks and ledges that are not on the boat sheet. They are on T-12168, having been noted by the field editor.

There are no contemporary hydro surveys of the south coast or of the east tip of the island.

65. COMPARISON WITH NAUTICAL CHARTS


The chart differences are shown on the Comparison Print in red:

- A now non-existent island at latitude 18°09′.15, longitude 65°18′.35.
- A rock awash at latitude 18°07′.25, longitude 65°21′.6; and four near latitude 18°08′.1, longitude 65°16′.2 were not visible on the photographs and were not noted by the field edit.
- Many of the submerged rocks from chart 90h fall within the reefs shown on T-12168.
Differences in the shoreline may very well be due to the 5X enlargement needed to bring the chart to the scale of T-12168.

Color photographs 62-S-609 thru 620, and 62-S-666 thru 682 were used for reef, rocks, etc. delineation and, also for study during the final comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

No accuracy tests were run in the field. The map meets the National Standards of Map Accuracy and Bureau requirements.

Approved by:  

J. Bull, RADM  
Director, Atlantic Marine Center

Reviewed by:

M. M. Slavney

Approved by:

Chief, Cartographic Branch  
Photogrammetry

Chief, Chart Division  

Chief, Photogrammetry Division

Chief, Operations Division

12-07-67
NOTES TO VERIFIER
T-12168 Project 21023(Ph-5909)
BOAT SHEET NO. WH-20-1-66 A&B

Please note Items 62, 64, and 65 of the Descriptive Report for T-12168 and the Comparison Print for discrepancies between T-12168 and the registered surveys, boat sheets, and the existing nautical chart.

64. ADDENDUM

Reefs were compiled from office interpreted color photography. The symbols represent the offshore limits of the features visible on the photography. The information was compiled to assist the hydrographer.

In some areas soundings plotted on contemporaneous hydrographic survey H-8880 are located inshore from the outer limits of the reefs as delineated on the subject photogrammetric survey.

As requested by the Hydrographic Data Branch, the reef symbols are retained on the photogrammetric survey as originally compiled to assist in applying an approximate mean low-water line to the hydrographic survey for use on nautical charts.

J.H. Blankenbaker
8/25/69
**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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**FORM CGS-8352 SUPERSEDES ALL EDITIONS OF FORM CGS-978.**