Type of Survey: Shoreline (Photogrammetric)
Field No.: Ph-5909  Office No.: T-12167

LOCALITY
State: Puerto Rico
General locality: Isla De Vieques
Locality: Puerto Real to Punta Conejo

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

DATE: April 1968
### Descriptive Report - Data Record

**Project No. (III):**
PH-5909

**Field Office (II):**

**Chief of Party (III):**

**Photogrammetric Office (III):**
Atlantic Marine Center

**Officer-in-Charge (III):**
J. Bull, Director

**Instructions Dated (III):**
November 12, 1965

**Method of Compilation (III):**
WILD B-8 and Kelsh

**Manuscript Scale (III):**
1:20,000

**Stereoscopic Plotting Instrument Scale (III):**
1:6000 pantographed to 1:20,000

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

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

**Applied to Chart No.:**

**Date Registered (IV):**

**Geographic Datum (III):**

**Vertical Datum (III):**
Mean sea level except as follows:
Elevations shown as (3) refer to mean high water
Elevations shown as (5) refer to sounding datum
I.e., mean low water or mean lower low water

**Puerto Rico**

**Reference Station (III):**
Port Ferro Lighthouse 2 (USGS) 1938 - 41

**Lat.:**
18° 05' 53.479" (1644.1m)

**Long.:**
65° 25' 26.392" (776.0m)

**Adjusted:**

**Plane Coordinates (IV):**

**State:**
Puerto Rico

**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-12167**

**FIELD INSPECTION BY (III):**

None

**DATE:**

**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

Air photo compilation photos.

**Date of compilations:** April 20, 1959 and February 21, 1964

**PROJECTION AND GRIDS RULED BY (IV):**

A. E. Roundtree

**DATE:** Nov. 18, 1965

**PROJECTION AND GRIDS CHECKED BY (IV):**

R. S. Kornspan

**DATE:** Nov. 18, 1965

**CONTROL PLOTTED BY (III):**

B. Barnes

**DATE:** January 1966

**CONTROL CHECKED BY (III):**

A. Rauck

**DATE:** January 1966

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

Robert B. Kelly (WSC)

**DATE:** No date

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

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**MANUSCRIPT DELINEATED BY (III):**

J. Place

**DATE:** January 1966

**SCRIBING BY (III):**

**DATE:**

**PHOTOGRAMMETRIC OFFICE REVIEW BY (III):**

L. L. Graves

**DATE:** February 1966

**REMARKS:**

Field Edit D.R. Rich Ltjg, USN SSA April 1966
### PHOTOGRAPHS (III)

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<td>Puerto Ferro, Isla De Vieques</td>
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### WORKING COMMISSIONED BY (IV): M.M. SLAUNER

### DATE: Jan. 1967

### REMARKS:

None
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<td>June 1966</td>
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<td></td>
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<tr>
<td>Some additions &amp; revisions during final review</td>
<td>Jan 1967</td>
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12167

Shoreline manuscript T-12167 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 "W" 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.
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<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR ( y )-COORDINATE</th>
<th>LONGITUDE OR ( x )-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<td>COMPANA (USGS) 1938 - 41</td>
<td>G.P. pg.176</td>
<td>P.R.</td>
<td>18° 09' 23.229&quot;</td>
<td>65° 23' 41.838&quot;</td>
<td>714.1 (1130.45)</td>
<td></td>
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<td>PORT MULAS NO. 3 (USGS) 1938 - 41</td>
<td>G.P. pg.178</td>
<td>&quot;</td>
<td>18° 08' 23.526&quot;</td>
<td>65° 29' 06.311&quot;</td>
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<td>PEREZ (USGS) 1938 - 41</td>
<td>G.P. pg.177</td>
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<td>65° 29' 55.543&quot;</td>
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<td>G.P. pg.38</td>
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<td>1146.1 (617.47)</td>
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<td>G.P. pg.176</td>
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<td>18° 05' 53.479&quot;</td>
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<td>1644.10 (200.5)</td>
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<td>2,1922 CABALLO BLANCO</td>
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<td>&quot;</td>
<td>18° 10' 25.736&quot;</td>
<td>65° 28' 04.462&quot;</td>
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<td>MIDDLE 1901</td>
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<td>18° 07' 49.308&quot;</td>
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<td>65° 25' 44.708&quot;</td>
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<td>SONADORA (USGS) 1938 - 41</td>
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<td>18° 07' 29.034&quot;</td>
<td>65° 29' 22.680&quot;</td>
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<td>G.P. pg.179</td>
<td>&quot;</td>
<td>18° 07' 49.087&quot;</td>
<td>65° 29' 57.333&quot;</td>
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<td>LE BRUN, STACK 1900</td>
<td>G.P. pg.53</td>
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<td>65° 26' 00.626&quot;</td>
<td>18.4 (1745.1)</td>
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1 FT. = 0.04806 METER
COMPUTED BY: D.L. Des Jardins
DATE: 2/3/66
CHECKED BY: J.S.P.
DATE: 2/9/66
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<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)</th>
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<td>SUMMIT 2 (USGS)</td>
<td>G.P. pg.176</td>
<td>P.R.</td>
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</table>

1 FT. = 0.3048006 METER

COMPUTED BY: __________________________ DATE: __________ CHECKED BY: __________________________ DATE: __________
Aerotriangulation report is submitted with T-12166.

31. **DELTNEATION**

The Kelsh and Wild B-8 plotters were used.

There was no field inspection.

Color photography was used for a comparison of alongshore areas and as an aid to delineate rocks and other offshore features. Reefs in the northwest section of the sheet were compiled graphically from color photography as there was no photo coverage with panchromatic photography of this area.

32. **CONTROL**

See Aerotriangulation Report submitted with T-12166.

33. **SUPPLEMENTAL DATA**

None.

34. **CONTOURS AND DRAINAGE**

Inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS**

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

36. **OFFSHORE DETAILS**

See items 31 and 49.

37. **LANDMARKS AND AIDS**

3 Aids to Navigation have been submitted on Form 567.
1 Landmark has been submitted on Form 567.

38. **CONTROL FOR FUTURE SURVEYS**

None
39. **JUNCTIONS**

Satisfactory junctions were made with T-12166 to the west and T-12168 to the east. The Caribbean Sea is to the south and Pasaje De Vieques is to the north.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

A comparison was made with USGS 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 940, Pasaje De Vieques and Rodas Roads, scale 1:25,000 and 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.

Approved and Forwarded:

[Signature]

J. Bull, CAPT, USESSA
Director, Atlantic Marine Center

L. L. Graves
Cartographic Tech.
48. GEOGRAPHIC NAME LIST

*** ARRECIFE CORONA

*** ARRECIFE MOSQUITO
  BAHIA CORCHO
  BAHIA DE LA CHIVA
  BAHIA DE MULAS
  BAHIA TAPON
  BAJO COMANDANTE

** BAJO MERAII

*** CABALLO BLANCO
  CABELLOS COLORADOS

* CARIBBEAN SEA
  CAYO CHIVA
  CAYO DE TIERRA
  CAYO REAL

* CERRO BONE
  CERRO CARACAS

* CERRO COMACHO
  CERRO PLAYVELA

** ENSENADA CLAQUE

** ENSENADA SUN BAY
  ESPERANZA
  ISABEL SEGUNDA
  ISLA CHIVA
  ISLA DE VIEQUES
  LAGUNA YANUEL

Hills or Mountains
Feature not delineated - name not used
PLAYA GRANDE
PUERTO FERRO
PUERTO MOSQUITO
PUERTO REAL
PUNTA CAMPANILLA
PUNTA CONEJO
PUNTA MARTINEAU
PUNTA MULAS
PUNTA NEGRA
QUEBRADA COFI
* QUEBRADA COFRESI
QUEBRADA HUECA
QUEBRADA LA MINA
QUEBRADA LA PERLA
QUEBRADA MARUNGUEY
QUEBRADA URBANO
Santa Maria
* SONDA DE VIEQUES

* NOT ON GEOGRAPHIC NAME LIST BUT ON GEOGRAPHIC NAME SHEET

** ON GEOGRAPHIC NAME LIST BUT NOT ON GEOGRAPHIC NAME SHEET ON CHART QUAD. (On Chart 91;0)

*** Beyond limits of Photographic coverage
GEOGRAPHIC NAMES
FINAL NAMES LIST

PH-5909
T-12167

*Arrecife Corona
*Arrecife Mosquito
Bahia Corcho
Bahia de la Chiva
Bahia de Mulas
Bahia Tapon
Bajo Comandante
Bajo Merail
Barriada Monte Santo
Caballo Blanco
Cabellos Colorados

Campo Silo
CARIBBEAN SEA (on Geographic Name Sheet
Cayo Chiva
Cayo de Tierra
Cayo Real
** Cerro Caracas
** Cerro Martinea
** Cerro Playuela
** Cerro Sonadora

On Chart 940, not on Geographic Name Quad. (Feature is a reef and is delineated at 16°09.1' 65°29.45' and name is used)

Not found on Geographic Name Quad.
** Colonia Lujan (Pol. Subd.)

** Colonia Puerto Real (Pol. Subd.)

** Destino (Village)

On Chart 940 not in Geographic Name Quad., name is used.

---

Ensenada Claquete
Ensenada Sun Bay
Esperanza
Isabel Segunda
Isla Chiva
Isla de Vieques
Laguna Yanes

** Moscou (Village)

Playa Grande

** Proyecto Barracon (Pol. Subd.)

Puerto Ferro
Puerto Mosquito
Puerto Real
Punta Cabellos Colorados (On Chart 904, not on Geographic Name Quad., point is not prominent, so name wasn't not used.)
Punta Campanilla
Punta Conejo
Punta Martineau
Punta Mulas
Punta Negra

Quebrada Cofi
Quebrada Cofregi (On Geographic Name Quad) name used.
Quebrada Hueca
Quebrada La Mina
Quebrada La Perla
Quebrada Marungey

** Quebrada Pilon (Outside delineation limits.)
Quebrada Urbano
Santa Maria

Sonda De Vieques (On Geographic Name Sheet and nautical chart)

Approved by:

A. J. Wraight
Chief Geographer

Prepared by:

Frank Pickett
Cartographic Technician

* Beyond limits of photographic coverage
** Feature not delineated
49. **NOTES FOR THE HYDROGRAPER**

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.
# Photogrammetric Office Review

**T-10363**

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**Control Stations**

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**Cultural Features**

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**Miscellaneous**

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<th>35. Legibility of the Manuscript</th>
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<th>40. Reviewer</th>
<th>41. Remarks (See attached sheet)</th>
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**Field Completion Additions and Corrections to the Manuscript**

**COMPILED**

**SUPERVISOR**

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<th>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.</th>
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43. Remarks
TO BE CHARTED

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

Atlantic Marine Center October 20, 1966

L. L. Grave J. Bull, Director, Atlantic Marine Center

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<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
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<th>LONGITUDE</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>1165</td>
<td>65°22'</td>
<td>1014</td>
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-35, 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. * Tabulate seconds and meters
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>
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Note: The "five tanks" mapped N.E. of Vieques Airfield were verified by Field Editor. However, they were not observed from seaward for landmark value. They are mapped as "four tanks" on Chart 904.

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.

Tabulate Seconds and Meters
FIELD EDIT REPORT

T-12167

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

See summary accompanying Descriptive Report (page 6)

* See below

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Registry No. 2587; 1:10,000; 1902; Puerto Rican Datum
   "    2635; 1:10,000; 1903;   "    "
   "    2636; 1:10,000; 1903;   "    "
   "    2804; 1:20,000; 1906;   "    "
   "    2871; 1:20,000; 1907;   "    "

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

(a) Surveys 2635 and 2636, the north coast of Isla De Vieques from Punta Mulas to the east limits of this map, have the shoreline about 100 meters north of its position on this map. The old surveys have two triangulation stations used on T-12167 in the same position, which seems to preclude datum discrepancies. It is noted that Chart 904; has this shoreline in agreement with T-12167 but uses the position of the foul limits from 2635 and 2636.

(b) Surveys 2587, 2804 and 2871 show minor shoreline differences. The largest being the delineation of Isla Chiva (lat. 18°06'.6, long. 65°23') on 2871; and the mangrove areas of Bahia Tapone (lat. 18°06'.8, long 65°24'.5) and Puerto Ferro (lat. 18°06'.8, long. 65°25'.6)

(c) Surveys 2635, 2636 and 2871 show numerous foul areas not noted by the field editor, they are not on the Comparison Print because they coincide with many of the sunken rocks from Charts 904 and 94; see Item 65, paragraph (a) and (d).

(d) Survey 2871 shows two rocks awash at latitude 18°05'.4, longitude 65°26'.7; these are probably the same rocks
compiled just to the north on this manuscript. The field editor noted the one rock awash and no mention is made of any further offshore. The discrepancies in the mangrove shoreline in Puerto Ferro at longitude 66°25'5, on the south coast, are not surprising.

Color photographs used were 62-S-619 thru 626, 62-S-647 thru 666, and 62-S-9989 thru 0000.

T-12167 supersedes these registered surveys for nautical chart construction. Please note the hydrographic data in paragraphs (c) and (d).

63. COMPARISON WITH MAPS OF OTHER AGENCIES

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

Agreement is quite good. There are differences in the shoreline of the north coast west of Isabel Segunda of 35 meters; and on the south coast in the mangrove coastline of Bahia Tarpon of 70 meters.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

(a) This hydrographic survey is for the north coast of the island; there is no contemporary survey for the south coast.

(b) The boat sheet shoreline was from T-12167 Advance Compilation. Rocks on the boat sheet coincide with those on the compilation.

(c) It is noted that the Boat Sheet showed few soundings inside the 6 ft. area and, therefore, no check was provided for much of the reef delineation on T-12167.

(d) A "rock awash" on T-12167 at latitude 18°09'75, longitude 66°22'.93, is not on the boat sheet; it was corroborated by the field edit.

(e) A "rock awash" at latitude 18°09'.8, longitude 66°23'.23, on the boat sheet was from the Advance Manuscript of T-12167. The field editor noted it "no rock here", therefore, it is not shown on the final manuscript.
65. **COMPARISON WITH NAUTICAL CHARTS**


The Comparison Print shows the areas in which the two charts were used. Chart 940 eastern limits are at 65°26'20"; from which line chart 90h was used. Chart 90h, at much smaller scale, covers the entire island.

(a) The shoreline of Chart 940 is in good agreement with T-12167. The sunken rocks on the chart were not verified by the field editor or the hydro party, and may have been carried over from the old registered surveys. Please see paragraph (c) of Item 62 of this report. Many of the sunken rocks fall within area delineated as "reefs" from the color photographs.

(b) Esperanza Wharf Light, 1964 (privately maintained) latitude 18°05'.7, longitude 65°26'.3 is about 20 meters north of its position on Chart 940.

(c) Chart 90h is the only coverage east of 62°26'20". Its scale, 1:100,000, requires a 5X enlargement for comparison with T-12167; consequently, apparent shifts of 100 meters along the south coast are not as serious as they appear.

(d) The comparison print shows numerous submerged rocks from Chart 90h that were not visible on the photographs and were not noted by the field editor. Many of these fall within the reefs delineated from the color photographs.

(e) The name "Punta Cabellos Colorados" on Chart 90h was not shown on the Geographic Name List. Which point the name refers to is doubtful, and the area is named Cabellos Colorados.

(f) Chart 90h shows two "rocks awash" at latitude 18°05'.4 longitude 65°26'.7; these are discussed in Item 62, paragraph (d).
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Approved by:  
J. Ball, RADM  
Director, Atlantic Marine Center

Reviewed by:  
M. M. Slavney

Approved by:  
Chief, Chart Division

Reviewed by:  
Chief, Operations Division

Chief, Cartographic Branch

Chief, Photogrammetry Division  
12-07-67
64. Addendum

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

In some areas soundings plotted on contemporary 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 new line to the hydrographic survey for use on nautical charts.

A.H. Blankenburg
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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**FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12167**