**DESCRIPTIVE REPORT**

**Type of Survey**...Shoreline...T-12162 thru T-12165

**Job No.**...PH-5909...**Map No.**...T-11711-713

**Classification No.**...**Edition No.**

**LOCALITY**

**State**...Puerto Rico

**General Locality**...Culebra Island

**Locality**

---

1964 TO 1966

---

**REGISTRY IN ARCHIVES**

**DATE**

---
**DESCRIPTIVE REPORT - DATA RECORD**

**PHOTOGRAFMETRIC OFFICE**
Rockville, Maryland

**OFFICER-IN-CHARGE**
James Collins

### I. INSTRUCTIONS DATED

<table>
<thead>
<tr>
<th>I. OFFICE</th>
<th>2. FIELD</th>
</tr>
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<tbody>
<tr>
<td>August 24, 1966</td>
<td>September 2, 1965</td>
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<tr>
<td>November 10, 1975</td>
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### II. DATUMS

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<th>1. HORIZONTAL:</th>
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<td>1927 NORTH AMERICAN</td>
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<tr>
<td>MEAN HIGH-WATER</td>
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<tr>
<td>MEAN LOW-WATER</td>
<td></td>
</tr>
<tr>
<td>MEAN LOWER LOW-WATER</td>
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<tr>
<td>MEAN SEA LEVEL</td>
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<tr>
<th>3. MAP PROJECTION</th>
<th>4. GRID(S)</th>
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<tr>
<td>Polyconic</td>
<td>STATE: Puerto Rico</td>
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<th>5. SCALE</th>
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<tr>
<td>T-12162-65, 1:5,000</td>
<td>1</td>
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<tr>
<td>T-11711-713, 1:10,000</td>
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### III. HISTORY OF OFFICE OPERATIONS

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>NAME</th>
<th>DATE</th>
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<tbody>
<tr>
<td>1. AEROTRIANGULATION</td>
<td>I.I. Saperstein</td>
<td>10-66</td>
</tr>
<tr>
<td>METHOD:</td>
<td>LANDMARKS AND AIDS BY</td>
<td>N.A.</td>
</tr>
<tr>
<td>2. CONTROL AND BRIDGE POINTS</td>
<td>D. Barton</td>
<td>10-66</td>
</tr>
<tr>
<td>METHOD:</td>
<td>PLOTTED BY</td>
<td>R.A. Youngblood</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td></td>
<td>10-66</td>
</tr>
<tr>
<td>INSTRUMENT:</td>
<td>PLANIMETRY BY</td>
<td>J.P. Battley</td>
</tr>
<tr>
<td>CHECKED BY</td>
<td>CONTOURS BY</td>
<td>1-67, 2-67</td>
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<tr>
<td>SCALE:</td>
<td></td>
<td>N.A.</td>
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<tr>
<td>METHOD:</td>
<td>PLANIMETRY BY</td>
<td>J. Battley</td>
</tr>
<tr>
<td>B-8</td>
<td>CHECKED BY</td>
<td>&quot;</td>
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<td>SCALE:</td>
<td>CONTOURS BY</td>
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<td>1:5000, 1:10,000</td>
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<td>Data discarded</td>
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<td>HYDRO SUPPORT DATA BY</td>
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<td>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</td>
<td>J.P. Battley</td>
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<td>BY</td>
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<td>6. APPLICATION OF FIELD EDIT DATA</td>
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<td></td>
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<tr>
<td>7. COMPILATION SECTION REVIEW</td>
<td>J.P. Battley</td>
<td>12-75</td>
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<tr>
<td>BY</td>
<td>CHECKED BY</td>
<td>E. Wright</td>
</tr>
<tr>
<td>8. FINAL REVIEW</td>
<td>E. Wright</td>
<td>12-75</td>
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<tr>
<td>9. DATA FORWARDED TO PHOTOMETRIC BRANCH</td>
<td>E. Wright</td>
<td>12-75</td>
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<tr>
<td>10. DATA EXAMINED IN PHOTOMETRIC BRANCH</td>
<td></td>
<td></td>
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<tr>
<td>11. MAP REGISTERED - COASTAL SURVEY SECTION</td>
<td>E. Sato</td>
<td>2-76</td>
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<td>BY</td>
<td></td>
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### 1. Compilation Photography

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<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
<tr>
<td>66S2407-2410(C)</td>
<td>3/7/66</td>
<td>11:46</td>
<td>1:40,000</td>
<td>.06 above MLW</td>
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<tr>
<td>2340-2343(C)</td>
<td>2/26/66</td>
<td>11:09</td>
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<td>2346-2348(C)</td>
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<td>64W3597-3600(P)</td>
<td>2/23/64</td>
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<td>1:15,000</td>
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<td>3623-3624(P)</td>
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<td>11:32</td>
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<tr>
<td>3575-3580(P)</td>
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<td>11:05</td>
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<tr>
<td>3586-3588(P)</td>
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<td>11:08</td>
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<td>3611-3613</td>
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<td>11:25</td>
<td>&quot;</td>
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**Remarks**

2. SOURCE OF MEAN HIGH-WATER LINE:

Office interpretation of the above listed photography.

3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

None

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

<table>
<thead>
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5. FINAL JUNCTIONS

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**Remarks**

Junctions made
# HISTORY OF FIELD OPERATIONS

## I. FIELD INSPECTION OPERATION

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<td>1. CHIEF OF FIELD PARTY</td>
<td>LCSR James Randall</td>
<td>2/66</td>
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<tr>
<td>2. HORIZONTAL CONTROL</td>
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<tr>
<td>RECOVERED BY</td>
<td>R.S. Tibbetts</td>
<td>2/66</td>
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<tr>
<td>ESTABLISHED BY</td>
<td>Lt. J. Lium</td>
<td>2/66</td>
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<tr>
<td>PRE-MARKED OR IDENTIFIED BY</td>
<td>R.S. Tibbetts</td>
<td>2/66</td>
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<tr>
<td>3. VERTICAL CONTROL</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>RECOVERED (Triangulation Stations) BY</td>
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<td>LOCATED (Field Methods) BY</td>
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## II. SOURCE DATA

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<td>地理名称调查</td>
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<td>Control for these sheets was premarked.</td>
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## IV. PHOTO NUMBERS (Clarification of details)

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## V. GEOGRAPHIC NAMES

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## VI. BOUNDARY AND LIMITS

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## VII. SUPPLEMENTAL MAPS AND PLANS

None

## VIII. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None
### Record of Survey Use

#### I. Manuscript Copies

<table>
<thead>
<tr>
<th>Compilation Stages</th>
<th>Date Compiled</th>
<th>Date Forwarded</th>
<th>Remarks</th>
<th>Marine Charts</th>
<th>Hydro Support</th>
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<tbody>
<tr>
<td>Interior shoreline &amp; offshore ledges</td>
<td>12/66</td>
<td>2/67</td>
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Hydro support data has been destroyed.

#### II. Landmarks and Aids to Navigation

1. **Reports to Marine Chart Division, Nautical Data Branch**

<table>
<thead>
<tr>
<th>Number</th>
<th>Chart Letter</th>
<th>Number Assigned</th>
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<tr>
<td></td>
<td></td>
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<td>None submitted</td>
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2. Report to Marine Chart Division, Coast Pilot Branch, Date Forwarded:

3. Report to Aeronautical Chart Division, Aeronautical Data Section, Date Forwarded:

#### III. Federal Records Center Data

1. Bridging Photographs; Duplicate Bridging Report; Computer Readouts.
2. Control Station Identification Cards; Form Nos 567 Submitted by Field Parties.
3. Source Data (except for Geographic Names Report) as listed in Section II, NOAA Form 76-36C.

#### IV. Survey Editions

<table>
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<th>Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
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<td>Third</td>
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<tr>
<td>Fourth</td>
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This section shall be completed each time a new map edition is registered.

NOAA FORM 76-36D
Summary to Accompany Descriptive Report
T-12162 thru 12165 and T-11711 thru 11713

T-12162 thru 12165 at 1:5,000 scale, and T-11711 thru T-11713
at 1:10,000 scale comprises the northern portion of Project
PH-5909 and covers Culebra Island and the off-lying islands,
Puerto Rico. The purpose of this project was to provide
photo-hydro support. Refer to the project diagram for the
location of each sheet in the project.

The only field work preceding compilation was the premarking
and identification of control necessary for bridging. See
Photogrammetric Plot Report for details.

Compilation was accomplished from December 1966 thru February
1967 using the B-8 plotter. Stable base copies and ratio prints
were furnished for hydro support and field edit. Neither hydro
or field edit was accomplished.

See Instructions-OFFICE-, dated November 10, 1975, page 6
of this report for completion requirements.
TO: Chief, Photogrammetric Branch
FROM: James Collins, Chief, Coastal Mapping Division
SUBJECT: Instructions-OFFICE, Job Completion-Job PH-5909, Culebra, Vieques, and Adjoining Islands, Puerto Rico

1. Background

The 3 job maps covering Vieques Island were field edited, reviewed, and registered. The remaining 7 maps in the project, covering Culebra and adjacent islands, are in the Class III stage of completion. These maps were compiled from photographs taken in 1964 and 1965.

Inshore hydrography requiring photo-hydro support data will not be done prior to 1981.

2. Job Completion Requirements and Procedures

.01 The 7 Class III maps shall be final reviewed, registered, and other job completion operations performed in accordance with standard procedures.

.02 Field edit operations for these first editions of the Class III maps are cancelled. Any future work involving these maps, in either revision with new photography or new basis mapping, will be done under a new project. Any maps produced at the same scale and having common coverage will be second editions.

.03 Photo-hydro support data stored in the Riverdale files shall be destroyed.
PHOTOGRAMMETRIC PLOT REPORT  
Job PH-5909  
Culebra Island, Puerto Rico

21. Area Covered

This report covers Culebra Island, Puerto Rico, and consists of the following 1:5,000 scale T-sheets: T-12162, T-12163, T-12164, T-12165; and 1:10,000 scale T-sheets as follows: T-11711, T-11712, T-11713 and T-11714.

22. Method

Analytic aerotriangulation methods were used to bridge a single strip using "S" camera, color photography at 1:40,000 scale. The attached sketch of the strip bridged shows the placement of triangulation furnished and those that were used in the final strip adjustment. Closures to control have been tabulated. State plane coordinates (Puerto Rico) have been furnished for all bridge points on the IBM readout.

In order to facilitate compilation of 1:5,000 scale manuscripts from 1:15,000 scale photographs, a separate short bridge was run using 1:40,000 scale color photographs 66-S-2409 thru 2412. Common points were drilled on both the color and 1:15,000 scale panchromatic plates. These points will be used to scale the 1:15,000 scale models.

Passpoints used were the same on both bridges and the position error between bridges averages less than one (1) foot.

23. Adequacy of Control

All horizontal control was premarked with white panels except for substation LOBITO LONG which was identified on 1959 photography. Nevertheless, control was very adequate. CULEBRITA ISLAND LIGHT 1900 was not field identified. However, an attempt was made to office identify the station but would not hold in the bridge. Vertical control needed for the adjustment was selected on the shoreline.

25. Photography

Although photography was not free from cloud cover, it was satisfactory for bridging purposes. Tie points for two additional models (66-S-2335-36 and 66-S-2346-48) were furnished.
One was needed to compile an area not covered on the bridge strip.

Respectfully submitted:

I. I. Saperstein

Approved & Forwarded:

Henry P. Eichert
<table>
<thead>
<tr>
<th>Control Point</th>
<th>1st model</th>
<th>2nd model</th>
<th>3rd model</th>
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<tbody>
<tr>
<td>*Fungy Bowl Photo Panel, 1966</td>
<td>(+1.17, -1.20)</td>
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<tr>
<td>S.P. Lobito, 1966</td>
<td>(+0.54, +3.11)</td>
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<tr>
<td>*S.P. Cruz, 1966</td>
<td>(-2.54, +1.10)</td>
<td>(-2.10, +1.51)</td>
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<tr>
<td>S.P. Lobo, 1966</td>
<td>(-3.91, -0.32)</td>
<td>(-3.01, +0.61)</td>
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<td>*S.P. Ult 2, 1966</td>
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<td>(+1.64, -2.32)</td>
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<td>S.P. Eakin, 1966</td>
<td>(+0.41, -0.73)</td>
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<tr>
<td>*Surf 2, 1966</td>
<td>(-1.05, -0.10)</td>
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<td>*Deborah, 1966</td>
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<td>(-0.16, +0.32)</td>
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<td>*Mark, 1966</td>
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<td>(-1.24, +0.47)</td>
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<td>*Davy Cay 4, 1966</td>
<td>(+1.41, -1.37)</td>
<td>(+4.74, -2.46)</td>
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</tr>
</tbody>
</table>

*control used in final adjustment
Aerotriangulation Sketch

CULEBRA ISLAND, P.R.
Ph-5909

Oct. 1966

1. S.P. LOBITO, 1966
2. S.P. CRUZ, 1966
3. FUNGY BOWL PHOTO PANEL, 1966
4. S.P. ULT, 1966
5. THE 2, 1966 (Not used in bridge, clouds)
6. DEBORAH 2, 1966
7. MARK, 1966
8. SURF 2, 1966
9. DAVY CAY 4, 1966
10. S.P. PALADA CAY, 1925 (Not used in bridge)
11. CULEBRA LT. 1900
12. S.P. LOBO, 1966
13. S.P. EAKIN, 1966

△ Control used in the adjustment
○ Photo center
Compilation Report
Project PH-5909
T-11711 thru T-11713
and
T-12162 thru T-12165
February 1967

This report covers the shoreline compilation of T-11711 thru T-11713 at a scale of 1:10,000, and T-12162 thru T-12165, 1:5,000 scale. T-11714 (1:10,000) was discontinued as the land area was covered by 1:5,000 scale compilation (see project layout sketch). These manuscripts were compiled to furnish a base for photo-hydro support. The area covered includes the shoreline of Culebra Island in its entirety and surrounding islands.

31. **Delineation**

The manuscripts were delineated on the Wild B-8 stereoplotter. The 1:5,000 scale manuscripts were compiled from 1964, 1:15,000 scale panchromatic photography. Those 1:5,000 scale maps, where applicable, were reduced for transfer to the 1:10,000 sheets. The 1:10,000 scale manuscripts were delineated from 1966, 1:40,000 scale color photography. Points were dropped along the shoreline to facilitate hydrographic signal location. Cronapaque ratio prints of the 1964 and 1966 photography were resected to the manuscripts and prepared in the usual manner for photo-hydro support. The 4X ratio of the color photography was printed in black-and-white.

Several areas along the shoreline appeared to be overgrown with mangrove and foliage. These were shown with an apparent shoreline and labeled "swamp".

32. **Control**

Bridge points furnished by aerotriangulation were sufficient to adequately compile the shoreline and to locate pass points for photo-hydro support.

33. **Supplemental Data** - None

34. **Contours and Drainage** - Inapplicable

35. **Shoreline and Alongshore Details**

The character of the shoreline in this area consists of much foreshore coral reef. This was carefully delineated along with rocks, shallow, and shoal areas.

36. **Offshore Details**

Throughout the project, an approximate underwater ledge line was shown as an aid to the hydrographer.
37. **Landmarks and Aids**

Visible aids were located photogrammetrically and form 567 was submitted to the field editor.

38. **Control for Future Surveys** - None

39. **Junctions**

A satisfactory junction was made with adjoining sheets (see project layout sketch).

40. **Horizontal and Vertical Accuracy**

See bridging report

41. thru 45. Inapplicable

46. **Comparison with Existing Maps**

None made.

47. **Comparison with Nautical Charts**

C&GS charts 913, 914, and 915.

These charts appear to have local errors in the horizontal datum.

Submitted by,

Rose A. Youngblood (JB)

Rose A. Youngblood

Approved by:

*J.P. Battle*, Jr.

Chief, Coastal Mapping Section
GEOGRAPHIC NAMES
FINAL NAME SHEETS

PH-5909 (Culebra and Adj. Islands, Virgin Islands)

T-11711

Alcarraza
Atlantico Oceano
Bahia Flamenco
Bahia Tamarindo
Bahia Tarja
Canal de Luis Peña
Canal Piedra Stevens
Cayo del Agua
Cayo de Luis Peña
Cayo Ratón
Cayo Yerba
Cerro de Luis Peña
El Ancon
El Mono
Isla de Culebra
La Pasa de la Alcarraza
La Pasa de Los Gemelos
Laguna de Cornello
Laguna del Flamenco
Las Hermanas
Los Gemelos
Peninsula Flamenco
Piedra Stevens
Playa Flamenco
Punta Cruz
Punta de Molinos
Punta Noroeste
Punta Ociada Rociada
Punta Tamarindo
Punta Tamarindo Chico
Punta Tamarindo Grande

Approved by:

[Signature]
Charles E. Harrington
Staff Geographer
GEOGRAPHIC NAMES
FINAL NAME SHEETS
PH-5909 (Culebra and Adj. Islands,
Virgin Islands)

T-11712

Atlantic Ocean
Bahía de Marejada
Bahía de Oleaje
Canal de Cayo Norte
Cayo Matojo
Cayo Norte
Cerro Balcón
Isla de Culebra
Laguna Zoni
Monte Resaca
Playa Brava
Playa Resaca
Playa Zoni
Punta Flamenco
Punta Garay
Punta Manchita
Punta Matojó
Punta Pavimento
Punta Resaca
Punta Seria
Roca Speck

Approved by:

[Signature]
Charles E. Harrington
Staff Geographer
GEOGRAPHIC NAMES
FINAL NAME SHEETS
PH-5909 (Culebra and Adj. Islands,
Virgin Islands)

T-11713

Atlantic Ocean
Cabo del Pasaje
Canal de Culebrita
Canal Tiempo
Cayo Ballena
Cayo Botella
Cayo Norte
Cayo Sombrero
Cayo Tiburón
Cayos Geniquí
Isia Culebrita
Isia de Culebra
Montecito Primero
Playa Larga
Punta Arenisca
Punta del Este
Punta Marc
Punta Trulla

Approved by:

[Signature]
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Staff Geographer
GEOGRAPHIC NAMES
FINAL NAME SHEETS
PH-5909 (Culebra and Adj. Islands,
Virgin Islands)

T-12162

Bahia Tamarindo
Canal de Luis Peña
Cayo del Agua
Cayo de Luis Peña
Isla de Culebra
Laguna de Cornello
Laguna del Flamenco
Punta Tamarindo
Punta Tamarindo Grande

Approved by:

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Staff Geographer
GEOPHIC NAMES
FINAL NAME SHEETS
PH-5909 (Culebra and Adj. Islands,
Virgin Islands)

T-12163

Bahía Tarja
Cayo de Luis Peña
Cerro de Luis Peña
Isla de Culebra
Punta Cruz
Punta Tamarindo Chico
Sonda de Vieques
"Vieques"

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GEOGRAPHIC NAMES
FINAL NAME SHEETS
PH-5909 (Culebra and Adj. Islands, Virgin Islands)

T-12164

Bahía Linda  Playa Dinero
Bahía de Sardinas  Punta Aloe
Cayo Pirata  Punta Cabras
Cayo Verde  Punta Cementerio
Culebra  Punta Colorada
Ensenada de Cementerio  Punta de Maguey
Ensenada del Coronel  Punta del Soldado
Ensenada Dakity  Punta Melones
Ensenada Fulladosa  Punta Tampico
Ensenada Honda  San Ildefonso
Ensenada Malena  Sondo de Vieques — "Vieques"
Isla de Culebra
Laguna de Lobina
Playa de Cascajo
Playa de Sardinas

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FINAL NAME SHEETS
PH-5909 (Culebra and Adj. Islands, Virgin Islands)

T-12165

Bahía de Almodóvar
Bahía Mosquito
Bajo de Almodóvar
Cabeza de Perro
Caño Quebrado
Ensenada Honda
Ensenada Santiago
Isla de Culebra
Pelá
Pelaíta
Playa Mazanilla
Puerto del Manglar
Punta Almodóvar
Punta Brisa
Punta Carenero
Punta del Viento
Punta Mujeros
Punta Padilla
Punta Vaca

Approved by:

Charles E. Harrington
Staff Geographer
Review Report
T-12162 thru 12165 and T-11711 thru 11713
December 1975

61. General Statement: Due to the extreme difficulty in obtaining control for this area and lack of basic shoreline data, this portion of the project that was not field edited or used for hydrography was not cancelled but will be registered as Class III maps.

The nature of the shoreline (mostly high bluffs) is such that a good MHWL could be compiled from office interpretation of photography and little or no change would be expected from a field edit. The exception to this would be the small islets and rocks shown as bare. Some of these could be awash at MHW.

The ledge line should not be used as the MLWL. The area covered by the ledge symbol includes areas that would be completely submerged at MLW. The approximate underwater ledge limits (a bottom characteristic) was drawn only as an aid to the hydrographer, to indicate possible small boat landing sites, and covers depths to 20-25 feet.

62. Comparison with Registered Topographic Surveys: None available.

63. Comparison with Maps of Other Agencies: U.S.G.S. scale 1:30,000, 1950 edition, Culebra and Adjacent Islands, Puerto Rico, no significant differences noted.

64. Comparison with Contemporary Hydrographic Surveys: None available.

65. Comparison with Nautical Charts: USC&GS Charts 913 scale 1:6,500, 914 scale 1:20,000, and 915 scale 1:10,000.

There are isolated datum differences throughout these charts. This could be the result of inadequate control on the original surveys of 1900.

66. Adequacy of Results and Future Surveys: These maps comply with the project instructions and meet the National Standards of Map Accuracy except as qualified in Item 61, General Statement.

Prepared by,

Frank A. Wright
Cartographer

Approved:

Charles Seidman
Chief, Photogrammetric Branch

James Cole
Chief, Coastal Mapping Division