**DESCRIPTIVE REPORT**

**Type of Survey**  Shoreline

**Job No.**  PH-6904  **Map No.** T-13358

**Classification No.**  **Edition No.** 1

**LOCALITY**

**State**  Puerto Rico

**General Locality**  South Coast

**Locality**  Punta Viento

---

1970 TO 1976

---

**REGISTRY IN ARCHIVES**

**DATE**

---

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-991
### Descriptive Report - Data Record

**Photogrammetric Office**

Coastal Mapping Division  
Norfolk, Va.

**Officer-in-Charge**

Jeffrey G. Carlen, CDR

#### Last Preceding Map Edition

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Job</th>
<th>Map Edition No.</th>
<th>Map Class</th>
<th>Survey Dates</th>
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<tbody>
<tr>
<td>Original</td>
<td>PH.</td>
<td>1</td>
<td>Final</td>
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#### 1. Instructions Dated

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<td>Compilation 10/16/70</td>
<td>4/7/69</td>
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<td></td>
<td>1/23/70</td>
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<tr>
<td></td>
<td>1/31/72</td>
</tr>
<tr>
<td></td>
<td>11/16/72</td>
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#### II. Datums

1. **Horizontal:**  
   - Boxed: 1927 North American  
   - Other (Specify): Puerto Rico

2. **Vertical:**  
   - Boxed: Mean High-Water  
   - Other (Specify): None

3. **Map Projection:**  
   - Boxed: Polyconic

4. **Grid(S):**  
   - State: Puerto Rico  
   - Zone: 1

5. **Scale:**  
   - 1:10,000

#### III. History of Office Operations

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<th>Date</th>
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<td>1. Aerotriangulation</td>
<td>Analytic</td>
<td>R. Kelly</td>
<td>Sep 1970</td>
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<tr>
<td>2. Control and Bridge Points</td>
<td>Coradomat</td>
<td>P. Dempsey</td>
<td>Oct 1970</td>
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<tr>
<td></td>
<td>Checked by</td>
<td>A. L. Shands</td>
<td>Mar 1971</td>
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<td>NA</td>
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<td>4. Manuscript Delineation</td>
<td>Planimetry by</td>
<td>B. Barge</td>
<td>Apr 1971</td>
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<td>Checked by</td>
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<td>Apr 1971</td>
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<td></td>
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<tr>
<td></td>
<td>by</td>
<td>D. Butler</td>
<td>Aug 1976</td>
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<tr>
<td>6. Application of Field Edit Data</td>
<td>Checked by</td>
<td>F. Margiotta</td>
<td>Aug 1976</td>
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<td>7. Compilation Section Review</td>
<td>by</td>
<td>F. Margiotta</td>
<td>Aug 1976</td>
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<tr>
<td>10. Data Examined in Photogrammetric Branch</td>
<td>by</td>
<td>J. B. Phillips</td>
<td>Jan 1978</td>
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<td>11. Map Registered - Coastal Survey Section</td>
<td>by</td>
<td>J. T. Carter</td>
<td>Aug 1979</td>
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1. **Compilation Photography**

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<th>Time</th>
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<td>70E(C) 6215-6218</td>
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<tr>
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<td>11:13</td>
<td>1:40,000</td>
<td>0.6 above MLW</td>
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</table>

**Remarks**

2. **Source of Mean High-Water Line:**

The MHWL was compiled from the above listed photographs.

3. **Source of Mean Low-Water or Mean Lower Low-Water Line:**

None compiled.

4. **Contemporary Hydrographic Surveys** *(List only those surveys that are sources for photogrammetric survey information.)*

<table>
<thead>
<tr>
<th>Survey Number</th>
<th>Date(s)</th>
<th>Survey Copy Used</th>
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<th>Date(s)</th>
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<th>South</th>
<th>West</th>
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<tbody>
<tr>
<td>No survey</td>
<td>T-12151</td>
<td>No survey</td>
<td>T-13359</td>
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**Remarks**

None
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<th>Name</th>
<th>Date</th>
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<tr>
<td>2. Horizontal Control</td>
<td>J. Wilson</td>
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<td>3. Vertical Control</td>
<td>None</td>
<td>NA</td>
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<td>4. Landmarks and Aids to Navigation</td>
<td>None</td>
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<td>5. Geographic Names Investigation</td>
<td>None</td>
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#### Source Data

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<th>Station Designation</th>
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<tr>
<td>70E(C) 6149</td>
<td>POINT VIENTO 3, 1966</td>
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</table>

3. Photo Numbers (Classification of details) 

NONE

4. Landmarks and Aids to Navigation Identified

NONE

5. Geographic Names:

- Report: None
- None

6. Boundary and Limits:

- Report: None
- None

7. Supplemental Maps and Plans

NONE

8. Other Field Records (Sketch books, etc. Do NOT list data submitted to the Geodesy Division)

1 form 152
### I. FIELD INSPECTION OPERATION

<table>
<thead>
<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>CHIEF OF FIELD PARTY</td>
<td>W. Hull</td>
<td>Jun 1976</td>
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#### II. SOURCE DATA

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<th>2. VERTICAL CONTROL IDENTIFIED</th>
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<td>PHOTO NUMBER</td>
<td>STATION NAME</td>
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#### III. SUPPLEMENTAL MAPS AND PLANS

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<tr>
<th>8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)</th>
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<td>Field edit report</td>
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### I. MANUSCRIPT COPIES

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<th>Date</th>
<th>Remarks</th>
<th>Date Manuscript Forwarded</th>
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<tbody>
<tr>
<td>Compilation complete, pending field edit.</td>
<td>4/71</td>
<td>Class III manuscript</td>
<td>1/2/75</td>
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<tr>
<td>Field edit applied.Compilation complete</td>
<td>8/76</td>
<td>Class I manuscript</td>
<td>9/22/76</td>
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<tr>
<td>Final Review</td>
<td>10/77</td>
<td>Final</td>
<td>12/30/77</td>
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</tbody>
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### II. LANDMARKS AND AIDS TO NAVIGATION

None

### III. FEDERAL RECORDS CENTER DATA

1. [x] BRIDGING PHOTOGRAPHS; [x] DUPLICATE BRIDGING REPORT; [x] COMPUTER READOUTS.
2. [x] CONTROL STATION IDENTIFICATION CARDS; [ ] FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. [x] SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS;
4. [ ] DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED:

### IV. SURVEY EDITIONS

(This section shall be completed each time a new map edition is registered)

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
<th>Map Class</th>
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|                 | TP: 2         | PH:   | REVISED | II. |\\| III. | IV. | V. | FINAL | \\

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<th>Job Number</th>
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<th>Map Class</th>
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<th>Job Number</th>
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<th>Map Class</th>
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NOAA FORM 76-36D
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORTS
T-12143, T-12144, T-12151, T-12161 and
T-13358 thru T-13362

The maps included in this summary cover the
eastern portion of project PH-6904. They are all
standard shoreline maps which severed to provide
shoreline in support of hydrographic operations
and nautical chart construction. These maps
cover the south coast of Puerto Rico from Punta
Icacos westward to Punta Barrancas.

Photographs of the area were flown in March,
1970. Glare covers most of the water area.
The black and white ratio photographs
made from color contact prints are dark and the
resolution is not good. Delineation of offshore
and alongshore area details was made difficult
by these factors.

No clarification of details was made prior
to compilation. Precompilation field work was
limited to the recovery and identification of
horizontal control necessary for bridging.

Compilation was done at the Atlantic Marine
Center by instrument and graphic methods. The
Wild B-8 stereoplotter was used.

These maps were field edited in March and
April, 1976. The edit items were applied to the
maps at the Atlantic Marine Center in August and
September, 1976.

Final review was preformed at the Atlantic
Marine Center in October and November, 1977. The
original base manuscripts were forwarded to the
Washington Science Center for reproduction and
final registration.
FIELD INSPECTION
T-13358

There was no field inspection prior to office compilation.
Aerotriangulation Report
PH-6904
South Coast of Puerto Rico
September 1970

21. Area Covered

This report covers the Southern Coast of Puerto Rico, consisting of (9) 1:10,000 scale T-sheets, 12151, 12161, 13358, 13359, 13363, 13370 thru 13373 and (11) 1:5,000 scale T-sheets, 12143, 12144, 13360 thru 13362 and 13364 thru 13369.

22. Method

Two strips 1:40,000 and one strip of 1:5,000 scale color photography were bridged by analytical methods to provide horizontal control points for compilation and shoreline points for ordering 1:10,000 and 1:5,000 scale ratio prints. The attached sketch of the strips bridged shows the placement of horizontal control points used in the strip adjustments. A list of closures to control is part of this report. Positions of all compilation points and control stations have been plotted on the manuscripts by the Coradi.

23. Adequacy of Control

The horizontal control used is on the new adjustment of the Puerto Rico datum. All control was adequate and held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 and 1:5,000 scales. Tie points were used to augment datum tie between strips 1, 2 and 3.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of bridges.

25. Photography

RC-8 E color photography was adequate as to coverage overlap and definition.

Submitted by,
Robert B. Kelly

Approved and forwarded,
Henry F. Eichert
Chief, Aerotriangulation Section
Legend

- Control Used in Adjustment
- Closures of Bridge To Control Shown In Parenthesis
- Control Used As Check

Strip 1

- Ft. Allen U.S.N. Base W.T. (0.0, 0.0)
- Sub Sta. A (-0.4, 0.0)
- Cortada Sugar Co. Stack 1966 (+0.8, +0.1)
- Sub Sta. A (+1.2, +1.2)
- Bocana, 1966 Sub Sta. A (0.0, 0.0)
- Infierno 2, 1966 (0.0, 0.0)

Strip 2

- Infierno 2, 1966 (-0.6, +0.3)
- Aguirre, 1966 (-1.3, +0.6)
- Barr, 1965 (-0.6, -1.0)
- Pt. Viento 3, 1966 (-1.2, -0.8)
- House, 1966 Sub Sta. A (+1.1, +0.4)
- Yeguas 2, 1965 (+1.1, -0.6)
- Yeguas 2, 1965 Sub Sta. A (+0.3, -0.2)
Step 3

- Vegas 2, 1965 (0.0, 0.0)
- Vegas 2, 1965 Sub. Sta. A (0.0, 0.0)
- Guaymas 2, 1923 (0.0, 0.0)
- Bat, 1965 (0.0, 0.0)
### DESCRIPTIVE REPORT CONTROL RECORD

**MAP NO.**
- T-1358

**JSB NO.**
- PH-6904

**STATION NAME**
- POINT VIENTO 3, 1966

**SOURCE OF INFORMATION (Index)**
- Geodesy Pad

**AEROTRIANGULATION POINT NUMBER**
- 21177

**COORDINATES IN FEET**
-  
  - State Plane Puerto Rico (Zone 1)
  - $x = $175812.11992$
  - $y = $65583859599$

**GEOGRAPHIC POSITION**
- Geographic Lat/Lon
  - $\phi = 17.58$
  - $\lambda = 65.58$

**REMARKS**
- Forward
  - 372.6 (1472.0)
- Back
  - 1135.6 (629.8)

**COMPUTED BY**
- B. L. Barge
  - Date: 4/27/71

**COMPUTATION CHECKED BY**
- A. C. Rauck
  - Date: 4/71

**LISTED BY**
- 
  - Date:

**LISTING CHECKED BY**
- 
  - Date:

**HAND PLOTTING BY**
- 
  - Date:

**HAND PLOTTING CHECKED BY**
- 
  - Date:

---

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.
COMPILATION REPORT
T-13358

31. **DELINEATION:**

Delineation was accomplished with the Wild B-8, except for the offshore features, which were done graphically.

There was some glare on the photography but it was generally adequate enough to define the details.

The stereo instrument work was done with 1:40,000 scale photography. Points were selected common to 1:10,000 scale ratio photographs which were processed for hydro support.

32. **CONTROL:**


33. **SUPPLEMENTAL DATA:**

None.

34. **CONTOURS AND DRAINAGE:**

Contours are inapplicable. Drainage was determined from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS:**

Shoreline and alongshore details were determined from office interpretation of the photographs.

36. **OFFSHORE DETAILS:**

Offshore details were determined from office interpretation of the photographs.
37. **LANDMARKS AND AIDS:**
   None.

38. **CONTROL FOR FUTURE SURVEYS:**
   None.

39. **JUNCTIONS:**
   See Form 76-36b, item 5.

40. **HORIZONTAL AND VERTICAL ACCURACY:**
   No statement.

46. **COMPARISON WITH EXISTING MAPS:**
   A comparison has been made with USGS Quadrangle PUNTA TUNA, .F.R., scale 1:20,000, dated 1960.

47. **COMPARISON WITH NAUTICAL CHARTS:**
   A comparison has been made with Chart 902, scale 1:100,000, 10th edition, dated March 28, 1970, (corr. thru N.M. 13/70).

**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:**
None.

**ITEMS TO BE CARRIED FORWARD:**
None.

Submitted by:

A. C. Rauck Jr.
B. L. Barge
Cartographic Technician
April 28, 1971

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section, AMC
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6904 (South Coast, Puerto Rico)

T-13358

Escuela Segunda Unidad
Hacienda San Isidoro
Lamborgia
Mar Caribe
Puerto Patillas
Puerto Patillas (locality)
Punta Viento
Quebrada Florida
Quebrada Palenque
Recio
Río Jacoboa

Approved by:

[Signature]
Charles E. Harrington
Staff Geographer - C51x2
<table>
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**Control Stations**

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<tr>
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<th>6. Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic Stations)</th>
<th>7. Photo Hydro Stations</th>
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**Alongshore Areas (Nautical Chart Data)**

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**Physical Features**

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**Cultural Features**

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**Boundaries**

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**Miscellaneous**

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<th>Column</th>
<th>33. Geographic Names</th>
<th>34. Junctions</th>
<th>35. Legibility of the Manuscript</th>
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**Reviewer**

|        | Lowell O. Neterer, Jr. | 3/15/71 | Albert C. Rauck, Jr. |

**Reviewer**

<table>
<thead>
<tr>
<th></th>
<th>David P. Butler</th>
<th>8/24/76</th>
<th>Supervisor, Review Section or Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Frank P. Margiotta</td>
<td></td>
<td>Albert C. Rauck, Jr.</td>
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**Reviewer**

<table>
<thead>
<tr>
<th></th>
<th>G. C. Hanchett</th>
<th>8/31/76</th>
<th>Supervisor, Review Section or Unit</th>
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<td></td>
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<td></td>
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**Reviewer**

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FIELD EDIT REPORT
PROJECT PH-6904
SOUTH COAST, PUERTO RICO
T-13362, T-13361, T-13360
T-13359, T-13358, T-12151
T-12161, T-12143, T-12144

This report is submitted for five 1:5,000 scale maps and four 1:10,000 scale maps. The Field Edit was accomplished during the spring season of 1976 by the NOAA SHIP MT MITCHELL MSS-22 personnel.

52 ADEQUACY OF COMPILATION

The compilation is generally good. After the application of field edit data and data from engineering drawings of Arroyo and Yabucoa, the compilation will be adequate for charting.

53 MAP ACCURACY

Map compilation as to horizontal position is good. A modified field test was conducted on several points. Horizontal control was field identified, transferred to the manuscript, position scaled and compared to the computed coordinates and generally the agreement was less than one meter.

54 RECOMMENDATIONS

None

55 GEOGRAPHIC NAMES

No discrepancies were noted except those that were questioned on the field sheet. Names of persons interviewed about names in question are shown on T-13362, Photo 70E6421, 70E6218, T-13358, and T-12151.

56 SHORELINE AND ALONGSHORE FEATURES

The entire shoreline was checked by either walking, truck or small boat. All rock heights were estimated by going alongside or near in a small boat. On some near shore rocks, heights were estimated by walking the shoreline. Field Edit was conducted on days when sea conditions were moderate to calm. During launch hydro, the officer in charge, referenced many alongshore features, but in general the sea conditions were rough and the hydro launch did not get as near to the objects as the small boat used by the field editors.

All field edit data is indicated on the Field Edit Ozalid and photographs and are cross referenced.
There is a small marina under construction in Arroyo. Engineering drawings are furnished with this report. At Punta Figuras shoreline that is subject to frequent change was located by sextant angle and tape measurements; the field data and shoreline change is shown on manuscript T-13360.

On the eastern limit of T-12151, a small section of shoreline is in error and should be corrected as indicated on Photo 70E6440.

On T-12143, Yabucoa harbor area, construction is still underway. The main harbor is completed with construction underway on the southeast side. Engineering drawing of the harbor and new construction are enclosed with this report. Nautical Chart 25661 7th Edition May 24/75 already reflects the main harbor. Tie-points were located throughout the harbor to assist in tying in with the engineering drawings. The shoreline immediately north of the riprap breakwater, as indicated on T-12143, is subject to daily change due to sand borrowing operations both landward and seaward of the mean high water line. The mouth of the stream is plugged on occasion with sand and debris, but continues to break through near the mouth as compiled. I recommend that the shoreline be charted as shown on photos and as compiled with note of frequent change.

57 LANDMARKS AND AIDS

Form 76-40 was submitted for all nautical landmarks and fixed aids to navigation in the descriptive reports for the hydrographic surveys. Copies of those forms are attached to this report.

58 GENERAL STATEMENT

All field edit notes have been made in violet ink on the field edit ozalids and ratio photographs.

It is recommended that photography of opportunity be obtained of the Yabucoa Harbor area and of the Palmas Del Mar harbor area, just north of Yabucoa. A special report was submitted on Palmas Del Mar to Director, Atlantic Marine Center with copy to CAM5.

Submitted 18 June 1976

Wesley J. Hull
Captain, NOAA
Commanding Officer
NOAA Ship Mt Mitchell MSS-22
REVIEW REPORT
T-13358
SHORELINE
October 30, 1977

61. GENERAL STATEMENT:

See Summary, page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

No comparison was made.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with verified smooth sheets H-9579 (MI-10-2-76) and H-9607 (MI 10-3-76). A coral area located on the smooth sheet at lat. 17°58.5', long. 65°59.9' is not discernible on the photographs. The least depth recorded of the area is 4 feet. The surrounding area is recorded at depths of 19 and 20 feet. The entire area appears flat on the photographs. There is no evidence of coral lying close to the surface.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 25677, 1:100,000 scale, 13th edition, dated December 13, 1975. There are no significant differences.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:
A. L. Shands

A. L. Shands
Final Reviewer

Approved for forwarding:

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch  Chief, Coastal Mapping Div.