

T-12412

T-12412

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey ... Shoreline Mapping .....

Job No. ... CM-7720 ..... Map No. ... T-12412 .....

Classification No. III Edition No. ... I .....

LOCALITY

State ... Puerto Rico .....

General Locality ... Southeast Coast .....

Locality ... Palmas Del Mar .....

1977 TO 1977

REGISTRY IN ARCHIVES

DATE .....

|   |  |  |   |
|---|--|--|---|
| NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.<br><br><h3 style="text-align: center;">DESCRIPTIVE REPORT - DATA RECORD</h3>                               |  | TYPE OF SURVEY<br><input checked="" type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED  | SURVEY TP. <u>12412</u><br>MAP EDITION NO. <u>(1)</u><br>MAP CLASS <u>III</u><br>JOB <u>PH. CM-7720</u> |
| PHOTOGRAMMETRIC OFFICE<br>Photogrammetry Division<br>Rockville, MD.   |  | <b>LAST PRECEDING MAP EDITION</b><br>TYPE OF SURVEY<br><input type="checkbox"/> ORIGINAL<br><input type="checkbox"/> RESURVEY<br><input type="checkbox"/> REVISED<br>JOB PH. _____<br>MAP CLASS _____<br>SURVEY DATES:<br>19__ TO 19__ |   |
| OFFICER-IN-CHARGE<br><br>Cdr. James Collins   |  |  |   |
| <b>I. INSTRUCTIONS DATED</b>  |  |  |   |
| 1. OFFICE   |  | 2. FIELD   |   |
| Instructions-AEROTRIANGULATION(CM-7720)<br>2/8/78<br>Instructions-OFFICE (CM-7720)<br>6/28/78   |  | Instructions-FIELD (CM-7720) 10/3/77   |   |
| <b>II. DATUMS</b>   |  |  |   |
| 1. HORIZONTAL: <input type="checkbox"/> 1927 NORTH AMERICAN   |  | OTHER (Specify) Puerto Rico Datum  |   |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER<br><input type="checkbox"/> MEAN LOW-WATER<br><input type="checkbox"/> MEAN LOWER LOW-WATER<br><input type="checkbox"/> MEAN SEA LEVEL |  | OTHER (Specify)  |   |
| 3. MAP PROJECTION<br><br>Lambert Conformal Conic  |  | 4. GRID(S)<br>STATE Puerto Rico ZONE   |   |
| 5. SCALE<br>1:5,000   |  | STATE Puerto Rico ZONE   |   |
| <b>III. HISTORY OF OFFICE OPERATIONS</b>  |  |  |   |
| OPERATIONS  |  | NAME   | DATE  |
| 1. AEROTRIANGULATION BY<br>METHOD: Analytic LANDMARKS AND AIDS BY   |  | B. Thornton  | 4/24/78   |
|   |  | B. Thornton  | 4/24/78   |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY<br>METHOD: Coradomat CHECKED BY   |  | H. Jones   | 6/22/78   |
|   |  | N/A  |   |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY<br>COMPILATION CHECKED BY  |  | A.P. Reale   | 8/28/78   |
| INSTRUMENT: Wild B-8<br>SCALE: 1:5,000  |  | L. Harrod  | 8/28/78   |
|   |  | N/A  |   |
|   |  | N/A  |   |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY<br>CHECKED BY   |  | A.P. Reale   | 9/11/78   |
| METHOD: Smooth Drafting<br>SCALE: 1:5,000   |  | L. Harrod  | 9/12/78   |
|   |  | N/A  |   |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY   |  | R. Rodkey  | 2/7/79  |
| 6. APPLICATION OF FIELD EDIT DATA BY  |  | Field Edit Canceled  | 3/12/79   |
|   |  |  |   |
| 7. COMPILATION SECTION REVIEW BY  |  | R. Rodkey  | 3/26/79   |
| 8. FINAL REVIEW BY  |  | G. Fromm   | 3/29/79   |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY  |  | G. Fromm   | 4/4/79  |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY  |  | F. R. Watts  | 4/6/79  |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY  |  | E.L. DAUGHERTY   | 12-79   |

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**COMPILATION SOURCES**

**1. COMPILATION PHOTOGRAPHY**

|   |  |   |                  |   |
|---|--|---|------------------|---|
| CAMERA(S) Wild RC-8(E)<br>Focal length=152.71 mm  |  | TYPES OF PHOTOGRAPHY<br>LEGEND<br>(C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED | TIME REFERENCE   |   |
| TIDE STAGE REFERENCE<br><input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |  |   | ZONE<br>Eastern  | <input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> DAYLIGHT |
|   |  |   | MERIDIAN<br>75th |   |

| NUMBER AND TYPE | DATE     | TIME      | SCALE    | STAGE OF TIDE |
|-----------------|----------|-----------|----------|---------------|
| 77E(P)6205-6210 | 12/20/77 | 0801-0805 | 1:15,000 | * -.2 Ft. MHW |

REMARKS \* Reference Tide Station SAN JUAN was used to compute the tide stage. The above photography was ratioed to 1:5,000 scale (3.102 x enlargement).

**2. SOURCE OF MEAN HIGH-WATER LINE:**  
The source of the mean-high-water line is the photography listed under Item 1.

**3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:**  
No mean low-water line was depicted for this map.

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

| SURVEY NUMBER | DATE(S) | SURVEY COPY USED | SURVEY NUMBER | DATE(S) | SURVEY COPY USED |
|---------------|---------|------------------|---------------|---------|------------------|
|               |         |                  |               |         |                  |

**5. FINAL JUNCTIONS**

|                                 |                                |                    |                                |
|---------------------------------|--------------------------------|--------------------|--------------------------------|
| NORTH<br>No Contemporary Survey | EAST<br>No Contemporary Survey | SOUTH<br>* T-12144 | WEST<br>No Contemporary Survey |
|---------------------------------|--------------------------------|--------------------|--------------------------------|

REMARKS  
\* 1:5,000 scale map completed under job PH-6904

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HISTORY OF FIELD OPERATIONS

I.  FIELD INSPECTION OPERATION (Pre-marking)  FIELD EDIT OPERATION

| OPERATION                           | NAME  | DATE         |
|-------------------------------------|---|--------------|
| 1. CHIEF OF FIELD PARTY             | R.S. Tibbets  | 11/17/77     |
| 2. HORIZONTAL CONTROL               | RECOVERED BY  | R.S. Tibbets |
|                                     | ESTABLISHED BY  | N/A          |
|                                     | PRE-MARKED OR IDENTIFIED BY   | R.S. Tibbets |
| 3. VERTICAL CONTROL                 | RECOVERED BY  | N/A          |
|                                     | ESTABLISHED BY  | N/A          |
|                                     | PRE-MARKED OR IDENTIFIED BY   | N/A          |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY   | N/A          |
|                                     | LOCATED (Field Methods) BY  | N/A          |
|                                     | IDENTIFIED BY   | N/A          |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY BY<br><input checked="" type="checkbox"/> NO INVESTIGATION | N/A          |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY   | N/A          |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY   | N/A          |

II. SOURCE DATA

| 1. HORIZONTAL CONTROL IDENTIFIED<br>Pre-marking | 2. VERTICAL CONTROL IDENTIFIED |              |                     |
|---|--------------------------------|--------------|---------------------|
|   | N/A                            |              |                     |
| PHOTO NUMBER                                    | STATION NAME                   | PHOTO NUMBER | STATION DESIGNATION |
| 77E(P) 6224                                     | Humacao Playa Church(USGS)1934 |              |                     |
| 77E(P) 6285                                     | Prieto (USGS) 1934             |              |                     |
| 77E(P) 6221                                     | Bat 1965                       |              |                     |
| 77E(P) 6219                                     | Guayanes 2 1923, 1965          |              |                     |
| 77E(P) 6217                                     | Yeguos 2 1965                  |              |                     |

3. PHOTO NUMBERS (Clarification of details)  
N/A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
N/A

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              |             |

5. GEOGRAPHIC NAMES:  REPORT  NONE

6. BOUNDARY AND LIMITS:  REPORT  NONE

7. SUPPLEMENTAL MAPS AND PLANS  
Duplicate Hydrographic Survey report from Job H-9609 (Southeast Coast)  
Duplicate NOAA 76-40 Form submitted under OPR-516-MI-76 (Puerto Yabucoa)

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)  
5 NOAA Form 76-53 (Control Station Identification)  
1 General Statement of Pre-marking  
3 NOAA Form 76-86 (Abstract of Directions)  
1 NOAA Form 76-102a (Computation of Triangles & Elevations)

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RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

| COMPILATION STAGES                   |         |                                   | DATE MANUSCRIPT FORWARDED |               |
|--------------------------------------|---------|-----------------------------------|---------------------------|---------------|
| DATA COMPILED                        | DATE    | REMARKS                           | MARINE CHARTS             | HYDRO SUPPORT |
| Compilation section review completed | 3/26/79 | Class III                         |                           |               |
| Final reviewed prior to registration | 3/29/79 | Class III Map Field Edit Canceled | 4-16-79                   |               |
|                                      |         |                                   |                           |               |
|                                      |         |                                   |                           |               |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS   |
|--------|------------------------------|----------------|---|
|        | 353                          | 4-16-79        | 1 FORM OF NONFLOATING AIDS FOR CHART - TO BE REVISED. |
|        |                              |                |   |
|        |                              |                |   |
|        |                              |                |   |
|        |                              |                |   |

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

- BRIDGING PHOTOGRAPHS;  DUPLICATE BRIDGING REPORT;  COMPUTER READOUTS.
- CONTROL STATION IDENTIFICATION CARDS;  FORM NOS 567 SUBMITTED BY FIELD PARTIES.
- 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)

|                |                                 |                          |   |
|----------------|---------------------------------|--------------------------|---|
| SECOND EDITION | SURVEY NUMBER<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |   |
| THIRD EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |   |
| FOURTH EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br><br>MAP CLASS<br><input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL |
|                | DATE OF PHOTOGRAPHY             | DATE OF FIELD EDIT       |   |

T-12412

Palma Del Mar, Puerto Rico

March 1979

The purpose for this survey is to provide a 1:5,000 scale map of a newly developed area located on the east coast of Puerto Rico. This map will provide shoreline data to support new nautical chart compilation.

Field operations consisted of pre-marking of horizontal control and aerial photography.

Two strips of panchromatic photography was taken in December 1977. One strip is 1:30,000 scale, the other 1:15,000. The 1:30,000 scale photography was bridged using analytic aerotriangulation methods. This strip was bridged to establish control for the 1:15,000 scale compilation photography.

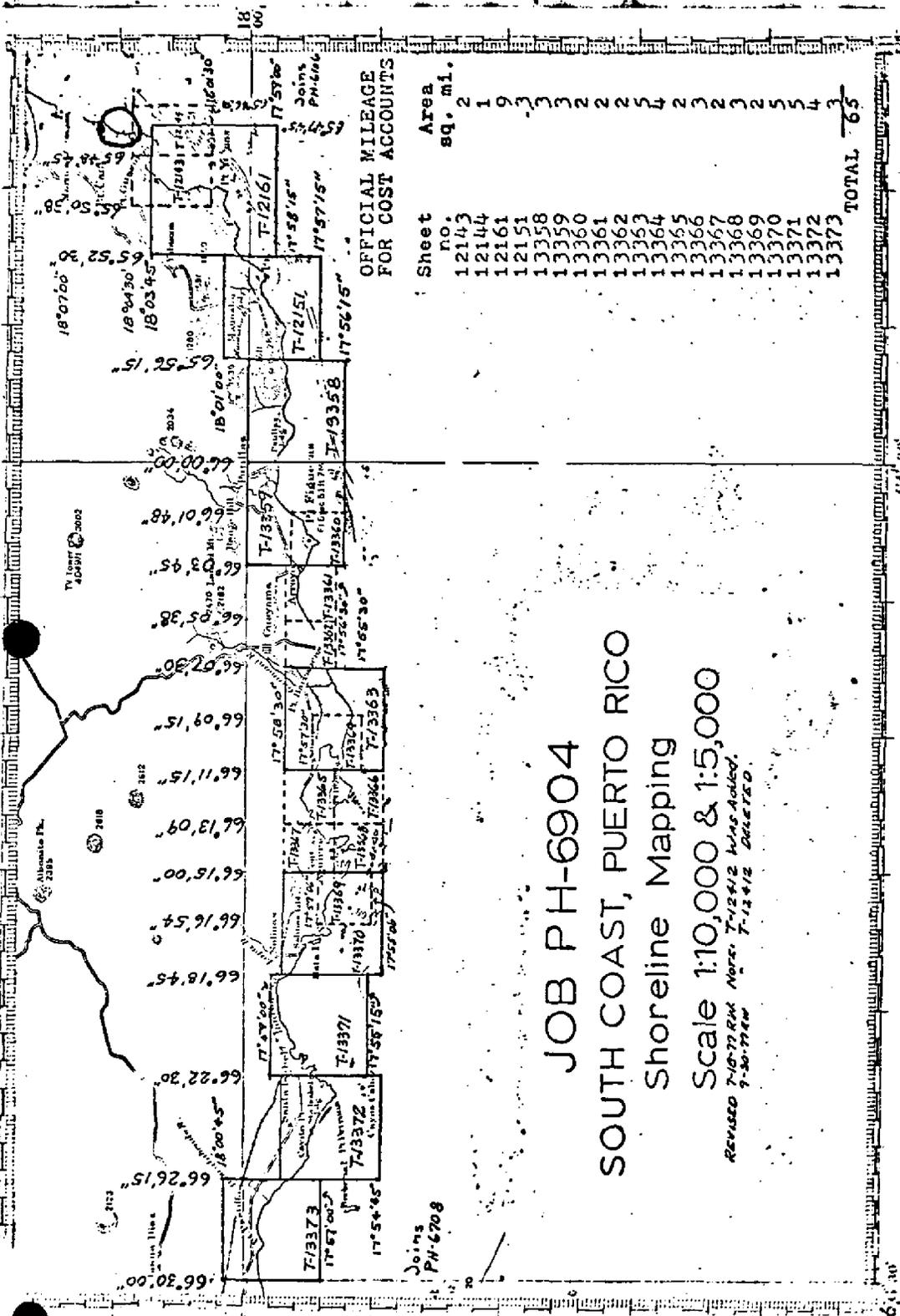
The Wild B-8 stereoplotter, using the 1:15,000 scale photography was used to compile this map. All line work is smooth compilation drafting.

Final Review was completed in March 1979 by the Special Projects Section (Rockville Office). All work performed was found to be satisfactory.

## FIELD INSPECTION

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of horizontal control necessary for aerotriangulation.





OFFICIAL MILEAGE  
FOR COST ACCOUNTS

| Sheet no.    | Area sq. mi. |
|--------------|--------------|
| 12143        | 2            |
| 12144        | 1            |
| 12161        | 9            |
| 12151        | 3            |
| 13358        | 3            |
| 13359        | 2            |
| 13360        | 2            |
| 13361        | 2            |
| 13362        | 2            |
| 13363        | 2            |
| 13364        | 2            |
| 13365        | 2            |
| 13366        | 2            |
| 13367        | 2            |
| 13368        | 2            |
| 13369        | 2            |
| 13370        | 2            |
| 13371        | 2            |
| 13372        | 2            |
| 13373        | 2            |
| <b>TOTAL</b> | <b>65</b>    |

JOB PH-6904  
SOUTH COAST, PUERTO RICO  
Shoreline Mapping  
Scale 1:10,000 & 1:5,000  
REVISED 7-10-77 RIM Note: T-122412 has been deleted.  
7-30-77 RIM

Joins  
PH-6708

02

PHOTOGRAMMETRIC PLOT REPORT  
PALMAS DEL MAR, PR.  
CM-7720

June 15, 1978

AREA COVERED

This project involves the area near Pta. Guayanes on the east coast of Puerto Rico. T-12412, 1:5,000 is the only T-Sheet covered.

METHOD

Strip 1 of 1:30,000 panchromatic photography was bridged using analytic aerotriangulation methods. This strip was bridged solely to provide compilation points for the 1:15,000 (Strip 2) compilation photography covering T-12412.

Strip 1 was the only strip bridged.

No tie points were measured.

Ratio photography for Strip 2 was ordered.

A Mag-Tape of points to be plotted for compilation was generated and forwarded to the Special Projects Section in Rockville, Maryland.

ADEQUACY OF CONTROL

Channel beacons near the southwest end of Strip 1, paneled stations and a stack were used for horizontal control. In general, the horizontal control was adequate.

A large residual error remained for Humacao Playa Church, (USGS)1934, after the strip was adjusted. It is suspected that the panel was out of position at the time of photography. This station was disregarded in the final adjustment.

The panel at Yeguas 2, 1965 could not be seen and was not measured.

Panel legs were not visible for any of the stations.

SUPPLEMENTAL DATA

Shoreline points and elevations from USGS quadrangles were used for vertical control.

PHOTOGRAPHY

The quality and location of photography were satisfactory.

Approved and Forwarded by:

*Don O. Norman*  
Don O. Norman, Acting Chief,  
Aerotriangulation Section

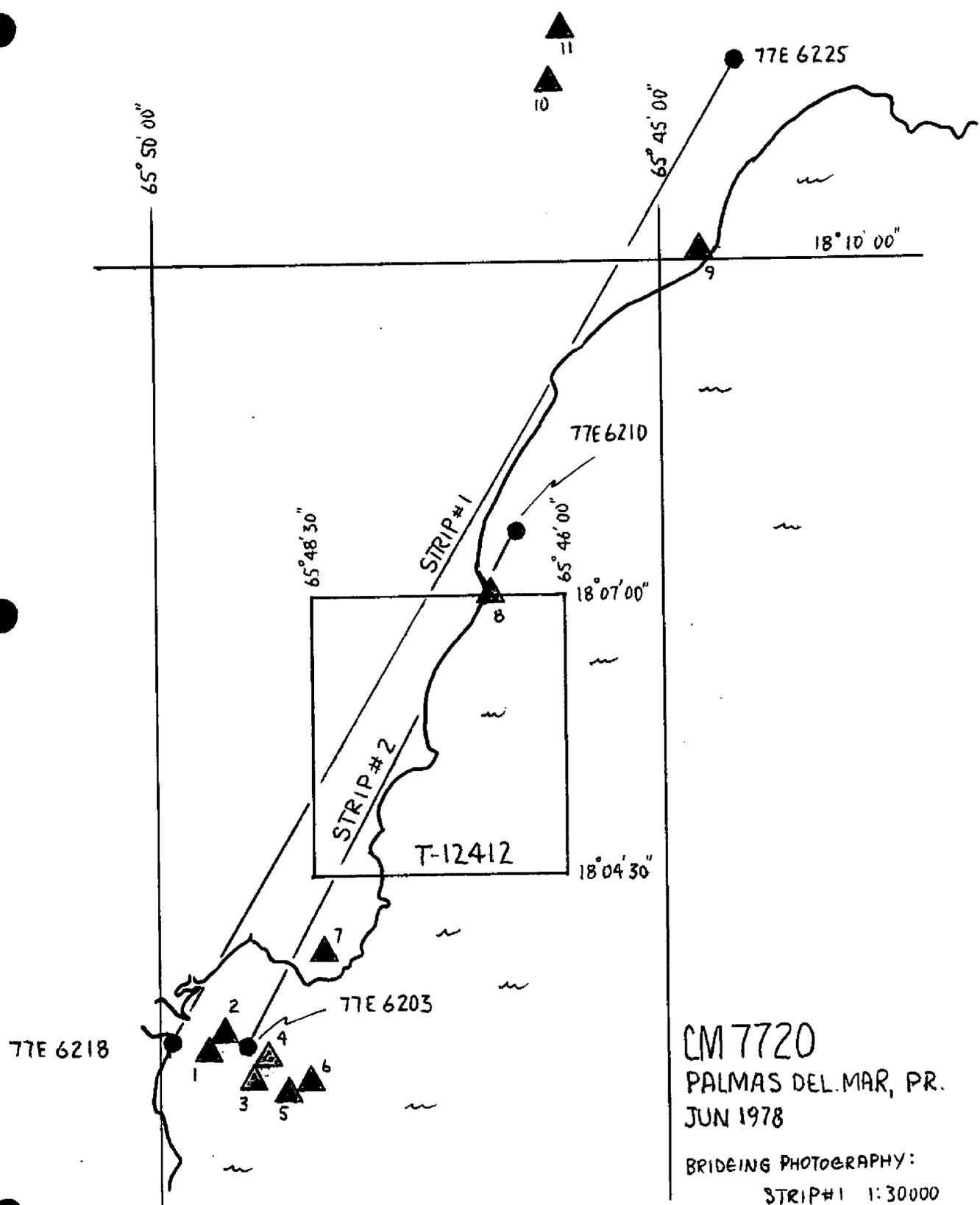
Submitted by:

*Robert E. Fisher*  
Robert E. Fisher

## HORIZONTAL FIT TO CONTROL (FEET)

## STRIP #1 (1:30,000)

|     |                      |                       |               |
|-----|----------------------|-----------------------|---------------|
| 1.  | Channel Beacon       | 7                     | -10.93, -7.51 |
| 2.  | "                    | " 8                   | 1.94, 1.67    |
| 3.  | "                    | " 5                   | 0.05, 0.57    |
| 4.  | "                    | " 6                   | 0.31, 1.47    |
| 5.  | "                    | 3                     | 0.93, 0.39    |
| 6.  | "                    | 2                     | -4.36, -0.84  |
| 7.  | Guayanes 2           | 1923                  | -0.02, -0.86  |
| 8.  | Bat                  | 1965                  | -0.07, 0.35   |
| 9.  | Humacao Playa Church | USGS 1934             | 1.62, 9.69    |
| 10. | Red Brick Stack 0.5  | Mile S of Prieto 1941 | 3.08, -0.50   |
| 11. | Prieto (USGS)        | 1934                  | 0.03, -0.06   |



CM 7720  
 PALMAS DEL MAR, PR.  
 JUN 1978

BRIDGE PHOTOGRAPHY:  
 STRIP #1 1:30000  
 COMPILATION PHOTOGRAPHY:  
 STRIP #2 1:15000

T-12412

Compilation Report

31. Delineation

This map was compiled on the Wild B-8 stereoplotter using 1:15,000 scale panchromatic photography taken in 1977.

32. Control

Refer to the Photogrammetric Plot Report bound with this Descriptive Report.

The identifiable, density, and placement of horizontal and vertical control was adequate.

33. Supplemental Data - No comment

34. Contours and Drainage

All drainage is from office interpretation of the color photography. No contours were shown on this map.

35. Shoreline and Alongshore Details

The mean high water line was compiled by office interpretation of the panchromatic photography. No mean low water line was depicted for this map.

Alongshore and foreshore features were delineated by office interpretation of the same photography.

There was no preliminary field inspection of the shoreline.

36. Offshore Detail

No unusual problems were encountered in compiling details offshore.

37. Landmarks and Aids

Refer to the 76-40 listing(s) bound with this Descriptive Report for those charted fixed aids identifiable on the compilation photography.

38. Control for Future Surveys

No Form 524 was submitted.

39. Junctions

Refer to Form 76-36B, Item 5 of the Descriptive Report.

40. Horizontal and Vertical Accuracy

This map complies with the National Map Accuracy Standards.

41. thru 45. - Inapplicable

46. Comparison with Existing Maps

A comparison was made with the following USGS quadrangle(s):

Punta Guayane's, P.R., 1:20,000 scale, 1960 Edition

No significant differences were noted.

47. Comparison with Nautical Charts

A comparison was made with the following chart:

25650 (formerly C&GS 904), 1:100,000 scale, 22nd Edition  
date, 11/5/77

Items to be Applied to Nautical Charts Immediately - None

Items to be Forward - None

Submitted by,



R. Reale

Approved and Forwarded:

  
George M. Ball  
Chief, Special Projects Section  
Photogrammetry Division

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO.          | STATION NAME                          | SOURCE OF INFORMATION (Index)                               | AEROTRIANGULATION POINT NUMBER | GEOIDETIC DATUM             |       | GEOGRAPHIC POSITION       |                     | ORIGINATING ACTIVITY   | REMARKS      |
|------------------|---------------------------------------|---|--------------------------------|-----------------------------|-------|---------------------------|---------------------|--|--------------|
|                  |                                       |   |                                | STATE                       | ZONE  | $\phi$ LATITUDE           | $\lambda$ LONGITUDE |  |              |
| T-12412          |                                       | CM-7720   |                                | Puerto Rico                 | Datum |                           |                     | Coastal Mapping Div. (Rockville)<br>Special Projects Section |              |
|                  | BAL, 1965                             | Quad. 190653<br>STA. 1010                                   | 221100                         | X=                          |       | $\phi$ 18° 06' 58.702"    |                     |  |              |
|                  | PDM NORTH BREAKWATER LIGHT 1976       | Book # 1<br>other source data                               | 220150                         | Y=                          |       | $\lambda$ 65° 46' 47.109" |                     |  |              |
|                  | PDM SOUTH BREAKWATER LIGHT 1976       | Book # 1  | 220151                         | X=                          |       | $\phi$ 18° 04' 43.875"    |                     |  |              |
|                  | PDM INNER NORTH BREAKWATER LIGHT 1976 | Book # 1<br>From  | 220152                         | Y=                          |       | $\lambda$ 65° 47' 47.168" |                     |  |              |
|                  | PDM INNER SOUTH BREAKWATER LIGHT 1976 | CDs<br>Copy of<br>Title<br>Listed<br>in the<br>Bibliography | 220153                         | X=                          |       | $\phi$ 18° 04' 47.412"    |                     | Not plotted on map. Position believed to be bad.             |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$ 65° 47' 55.285" |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$ 18° 04' 45.260"    |                     | Not plotted on map. Position believed to be bad.             |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$ 65° 47' 57.920" |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$                    |                     |  |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$                 |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$                    |                     |  |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$                 |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$                    |                     |  |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$                 |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$                    |                     |  |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$                 |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$                    |                     |  |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$                 |                     |  |              |
|                  |                                       |   |                                | X=                          |       | $\phi$                    |                     |  |              |
|                  |                                       |   |                                | Y=                          |       | $\lambda$                 |                     |  |              |
| COMPUTED BY      |                                       |   | DATE                           | COMPUTATION CHECKED BY      |       |                           |                     |  | DATE         |
| LISTED BY        | ABD Reah                              |   | DATE 9/13/78                   | LISTING CHECKED BY G. Tramm |       |                           |                     |  | DATE 3/29/79 |
| HAND PLOTTING BY |                                       |   | DATE                           | HAND PLOTTING CHECKED BY    |       |                           |                     |  | DATE         |

Review Report  
T-12412

March 1979

61. General Statement

This map was reviewed in its Class III stage by the Special Project Section (Rockville). The Descriptive Report contains all of the pertinent information which may be required by users of this map.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys - None

65. Comparison with Nautical Charts

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

66. Adequacy of Results and Future Surveys

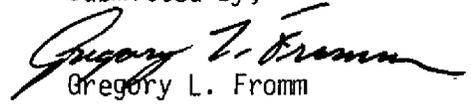
This map meets the National Standards of Map Accuracy and complies with compilation instructions and Bureau requirements.

67. Landmarks and Non-floating Aids to Navigation

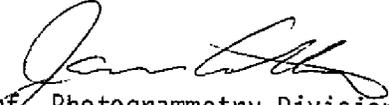
Refer to the 76-40 listing(s) bound with this Descriptive Report for the date and method of location for all fixed aids shown on this map. During compilation using the 1977 photography it was noted that the 1976 geodetic positions were apparently destroyed during the construction of a new harbor. By office interpretation of the photography new positions were determined for Lights 7 & 8 and the 1976 geodetic positions for the additional mapped Lights were verified.

No landmarks are depicted on this map.

Submitted by,

  
Gregory L. Fromm

Approved and Forwarded: <sup>HW</sup>  
  
Chief, Photogrammetric Branch

  
Chief, Photogrammetry Division



16  
UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SURVEY  
Rockville, Md. 20852

March 12, 1979

OA/C3442:LVS

TO: OA/C342 - John D. Perrow, Jr.  
FROM: OA/C34 - James Collins *J. Collins*  
SUBJECT: Registration of Job CM-7720, East Coast, Palms  
DeMar, Puerto Rico

The subject job compiled by the Special Projects Section is comprised of a single map, T-12412.

No field edit will be obtained for the above map and you are hereby instructed to register it as a Class III map.

cc:  
C3442  
C3421  
C3424 ✓



14 March 1979

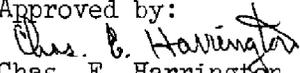
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7720 (Palmas del Mar, East Coast, Puerto Rico)

T-12412

- ✓ Caribbean Sea
- ✓ Morro de Humacao
- ✓ Punta Candelero
- ✓ Punta Fraile

Approved by:  
  
 Chas. E. Harrington  
 Chief Geographer - C3x5



PHOTOGRAMMETRIC BRANCH  
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA  
DEPARTMENT OF COMMERCE USA

\* SVY T-12412 \*  
\* JOB CM-7720 \*  
\* PRJ PALMDEL MAR \*  
\* DTM PR DATUM \*

\* RPT UNIT CMD ROCKVILLE, MD. \*  
\* STATE PUERTO RICO \*  
\* LOCALITY PALMAS DEL MAR \*  
\* DATE 01/23/79 \*

PAGE 2 OF 2

\* NONFLOATING AIDS FOR CHARTS  
\* TO BE REVISED

\* ORIGINATING ACTIVITY \*  
\* COMPILATION \*

THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS

DESCRIPTION

POSITION CMD \* METHOD AND DATE \*  
LATITUDE DM ALTEK \* OF LOCATION \* CHARTS \*  
LONGITUDE DP DGTZD \* OFFICE \* FIELD \* AFFECTED \*

EAST COAST  
RADAS ROOSEVELT PASSAGE

|           |                                  |               |        |                   |          |
|-----------|----------------------------------|---------------|--------|-------------------|----------|
| * LIGHT 5 | * PALMAS DEL MAR LIGHT 5         | * 18 04 43.88 | 1349.0 | NOT * 77E(P)6206* | * 25650  |
|           | * (PDM NORTH BREAKWATER LT.1976) | * 65 47 47.17 | 1387.1 | DGTZD* 12/20/77 * |          |
| * LIGHT 6 | * PALMAS DEL MAR LIGHT 6         | * 18 04 42.14 | 1295.5 | NOT * 77E(P)6206* | * -25650 |
|           | * (PDM SOUTH BREAKWATER LT.1976) | * 65 47 47.55 | 1398.2 | DGTZD* 12/20/77 * |          |
| * LIGHT 7 | * PALMAS DEL MAR LIGHT 7         | * 18 04 47.20 | 1451.1 | NOT * 77E(P)6206* | * 25650  |
|           | * (PDM SOUTH BREAKWATER LT.1976) | * 65 47 55.78 | 1640.2 | DGTZD* 12/20/77 * |          |
| * LIGHT 8 | * PALMAS DEL MAR LIGHT 8         | * 18 04 45.65 | 1403.4 | NOT * 77E(P)6206* | * 25650  |
|           | * (PDM SOUTH BREAKWATER LT.1976) | * 65 47 54.15 | 1592.3 | DGTZD* 12/20/77 * |          |

Copy to C.G. Hdq (Wash DC)

Copy to 7th C.G. Det.

MAR 24 1980

REL

Job Material on File

Federal Record Center

Brown Jacket

- Photogrammetric Plot Report (Duplicate)
- NOAA Forms 76-53 (Five Control Station Identification Cards)
- Control Index Diagram
- Bridging Photography
- NOAA 76-40 listings (Landmarks & Aids to Navigation)
- Computer Listing
- NOAA Form 76-86 (Three Abstract of Directions)
- NOAA Form 76-102A (Computation of Triangles & Elevations)
- Source Data

Job Completion Report

Bureau Archives

- Registration copy of map
- Descriptive Report

Marine Chart Division

- Chart Maintenance Print
- 76-40 Listings

Reproduction Division

- Map Negative (reduced copy)
- Physical Science Service Branch - Security Services
- Map negative (reduced copy)