

12148

0119.

12148

12148

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey <u>Shoreline (Photogrammetric)</u>	
Field No. _____	Office No. <u>T-12148</u>
LOCALITY	
State _____	<u>Puerto Rico</u>
General locality _____	<u>East Coast of Puerto Rico</u>
Locality _____	<u>La Cordillera</u>
<u>1963</u> <u>1959-1962</u>	
CHIEF OF PARTY	
<u>E. L. Jones - Chief of Party</u>	
LIBRARY & ARCHIVES	
DATE _____	<u>1 JUL 1968</u>

DESCRIPTIVE REPORT - DATA RECORD

T- 12148

PROJECT NO. (II):

Pa-6106

FIELD OFFICE (II):

Tampa

CHIEF OF PARTY

E.L. Jones

PHOTOGRAMMETRIC OFFICE (III):

Washington, D.C.

OFFICER-IN-CHARGE

J.E. Waugh

INSTRUCTIONS DATED (III) (III):

Field & Office Aug-30, 1961

Amendment: " " " Jan. 15, 1962 *

* Interior planimetry restricted to those features
useful to photo hydro support. AMB

METHOD OF COMPILATION (III):

Graphic

MANUSCRIPT SCALE (III):

1:10,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

DATE RECEIVED IN WASHINGTON OFFICE (IV):

APRIL 13, 1968

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):

N.A. 1927

VERTICAL DATUM (III): MHW

AS FOLLOWS:

Elevations shown as (25) refer to mean high water

Elevations shown as (5) refer to sounding datum

i.e., mean low water or mean lower low water

REFERENCE STATION (III):

PALOMINOS, 1900

LAT.:

18° 21' 00.149" (4.6m)

LONG.:

65° 34' 08.347" (245.1m)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

188,328.32

x = 799,727.37

STATE:

Puerto Rico

ZONE

Puerto Rico

MAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE,
(IV) WASHINGTON OFFICE.

WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

DESCRIPTIVE REPORT - DATA RECORD

2

FIELD INSPECTION BY (II): *		DATE:
G.F. Wirth (control)		5-3-62
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):		
February 1962 Office interpretation		
PROJECTION AND GRIDS RULED BY (IV):		DATE
A. Roundtree		10-4-62
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
L.F. Beugnet		10-11-62
CONTROL PLOTTED BY (III):		DATE
J.B. Phillips		1-24-62
CONTROL CHECKED BY (III):		DATE
J.T. Gerlach		1-24-62
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
J. Battley, J.T. Gerlach		2-18-62
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE
J.B. Phillips		Feb. 1963
SCRIBING BY (III):		DATE
A. Shands A. Shands		July 1966 July 1966
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
R.E. Smith (Smooth Manuscript) J. P. Battley (Compilation Manuscript)		July 1966 March 1963
REMARKS:		
<p>* Field inspection for Cayo Obispo, Cayo Zancudo, Cayo Ahogado, and Cabo San Juan was done at the time of inspection for T-12142 and T-12146, to the west, by M. L. Olivier, in Dec. 1961.</p> <p>Incidental field edit during photo-hydro support was so skimpy it has been noted as "None". See Page 19 B.</p>		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

9-lens & single lens Wild RC-5

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
59310 thru 59314	10-28-58	1224 - 1228	1:10,000	(Not used for MHW delineation)
61W 1592 thru 1598	10-19-61	1508 - 1510	1:10,000	1.6 above MLW
61-W-1742	10-26-61	1604	(ratio)	0.6 " " Field Insp.
61 W 1555	10-19-61	14:28	1:15,000 contact	1.4 above MLW
61-W-1722 thru 1725	10-26-61	15:45	1:15,000 Diaprs.	0.7 " "
59-3-3889:3890	4-18-59	10:46	1:10,000 ratio	0.1 " "

Predicted TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: San Juan		1.1	
SUBORDINATE STATION: Bahia de Fajardo		1.1 1.5	
SUBORDINATE STATION:			

Atlantic Marine Center
WASHINGTON OFFICE REVIEW BY (IV):

M. M. Slavney

DATE:

November 1967

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):

RECOVERED:

IDENTIFIED:

1

1

1

NUMBER OF BM(S) SEARCHED FOR (II):

RECOVERED:

IDENTIFIED

0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

0

REMARKS:

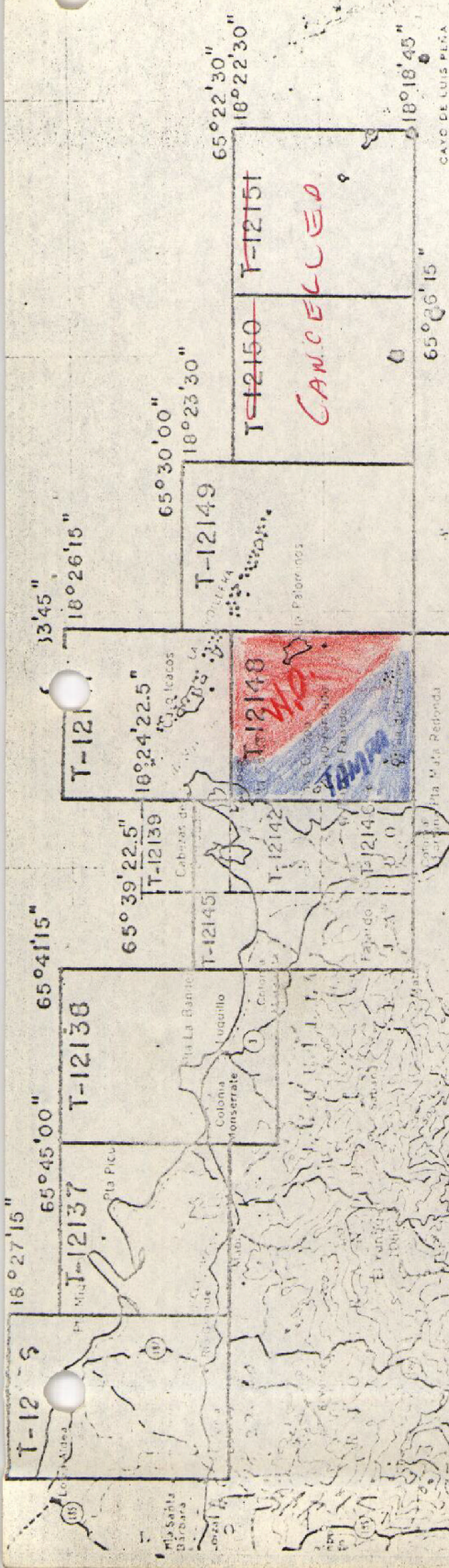
4.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Detail from Long. $65^{\circ} 36' 30''$ Westward Compiled from Kelshs Plotter by Tampa	June 1962	Superseded
Detail E. of Long. $65^{\circ} 35' 00''$ N. of Lat. $18^{\circ} 20' 00''$ Compiled by W.O.	1963	Superseded
Shoals at Cayo Largo Compiled by Tampa	December 1963	Superseded
Compilation Complete	July 1966	Superseded
Shoreline of Isla De Ramos Revised from Photos 62-S-507 & 508 during Final Review	November 1967	

210425

PUERTO RICO PROJECT PH-6106

Shoreline Mapping
1:10,000 & 1:5,000 Scales



AREA
Sq. Miles

12	12
20	20
12	12
20	20
4	4
3	3
4	4
2	2
2	2
6	6
13	13

MAP NO.

T-12136
T-12137
T-12138
T-12139
T-12141
T-12142
T-12143
T-12144
T-12145
T-12146
T-12148

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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12148

Shoreline manuscript T-12148 is one of sixteen 1:10,000 scale maps in Ph-6106, Puerto Rico, which also contains eight 1:5,000 scale maps. The sketch on page 5 of this report shows the position of this map in the project. It is noted that 1:5,000 scale maps T-12143 and T-12144, and 1:10,000 scale maps T-12150, T-12151, and T-12161 are in a "post-poned" status until some future date. *cancelled.*

m.m.s

This is a stereo instrument project in advance of hydrographic surveys of the area, with the exception of most of maps T-12141, T-12148 and all of T-12149, which were compiled by graphic methods. 1:10,000 scale ratio prints were furnished from 1:15,000 scale negatives made with the "W" camera on October 19, 1961. The radial plot was run in the Washington Office using 1:10,000 scale 9 lens photographs. The area west of longitude $65^{\circ} 36'.45$ was compiled in Tampa during June 1962 with Kelsh Plotter from a stereo bridge run in the Washington Office with 1:15,000 "W" photographs taken October 26, 1961. Ratio prints at 1:10,000 scale were processed and furnished for photo-hydro support. The shoals at Key Largo were compiled from office interpretation in Tampa during December 1963 using 1959 "S" ratio prints from 1:30,000 negatives.

Field work preceding compilation consisted of control identification and west of longitude $65^{\circ} 36'.45$ there was field inspection in December 1961 as part of the work for T-12142 and T-12146; there was no field inspection for the area east of $65^{\circ} 36'.45$. The incidental field/edit during photo-hydro support was so skimpy that "Field Edit" is classified "None".

The compilation manuscript was vinylite, 3 minutes 45 seconds in latitude, and 3 minutes 45 seconds in longitude.

FIELD INSPECTION REPORT
T-12148

Isla Marina

Much of this map had no field inspection. ~~Cayo Obispo, Cayo~~
~~Zancudo, Cayo Ahogado and Cabo San Juan~~, all in the western area of
the map, were field inspected by M. L. Olivier in December 1961; the
remainder of the map was compiled from office interpretation.

FIELD INSPECTION REPORT

- T -

2. AREAL FIELD INSPECTION

Parts of T-12141 & T-12148,

T-12139, T-12142, T-12145, T-12146, and T-12152 through T-12157,

These shoreline sheets are located on the eastern coast of Puerto Rico. The area is undeveloped except for the village of Fajardo and the Roosevelt Roads Naval Reservation.

Field inspection was performed on photographs 59-S-3940 through 59-S-3949 and 59-S-3915 through 59-S-3923. Some difficulty of interpretation of the apparent MHWL was encountered around mangrove areas.

Three housing areas within the naval station were not field inspected. It is believed that the 1961 photographs will cover these spots. Also a small marina in Ensenada Honda was left for the 1961 photographs. A new marina, under construction, on the south side of Cayo Obispo (a small island just east of Playa de Fajardo) was left for field edit.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control stations except four within the project limits were searched for. HOUSE, 1901; KID, 1941; MONTE, 1941; and NORTH, 1941 were not searched for because no descriptions were furnished. Only those stations as specified on the project diagram were photo-identified. One U. S. Geological Survey control station (CENTRAL FAJARDO, NORTH STACK, 1941) was recovered and photo-identified.

There were many triangulation stations that could not be recovered especially around the naval base. It is believed that much of this control was destroyed during construction of the base.

4. VERTICAL CONTROL

All tidal bench marks in the area were searched for. The one at Playa de Fajardo was recovered but the two in Ensenada Honda could not be found.

5. CONTOURS AND DRAINAGE

Contours were not a part of the work requirements for this project.

The drainage patterns can be distinguished on the photographs.

6. WOODLAND COVER

Woodland cover has been classified in accordance with the requirements for topographic maps. Wooded areas are adequately covered by the field inspection photographs.

Swamp areas were designated as mangrove. There is considerable mangrove throughout the area.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected from a small boat and by walking along the shoreline.

The shoreline in places was visited at low water. The mean low water line is shown on the photographs in green ink.

The foreshore is steep in some places and somewhat flat in other places.

Docks, piers, wharves, etc. are adequately covered on the field inspection photographs.

One submerged cable was identified on the photographs.

8. OFFSHORE FEATURES

Some offshore rocks were visited and their heights above MHW were noted. Coral is distinguishable on the photographs.

9. LANDMARKS AND AIDS

Landmarks and aids to navigation located by photogrammetric methods are shown on the contact prints. One landmark, a tower on Pineros Island, was identified on the field inspection photographs.

All landmarks and aids to be charted or deleted are adequately on Form 567.

10. BOUNDARIES, MONUMENTS, AND LINES

Boundaries were excluded by the project instructions.

11. OTHER CONTROL

Existing objects suitable for photo hydro control were identified on the field inspection photographs. These are shown on the photographs by three digit numbers. Many of the landmarks and aids can be used for photo hydro control.

12. OTHER INTERIOR FEATURES

Michael L. Olivier
Chief Photo Party 708

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PHOTOGRAMMETRIC PLOT REPORT

PH-6106

Scale 1:10,000

February 1963

21. Area Covered

This radial plot comprises three manuscripts at 1:10,000 scale covering the group of islands known as La Cordilleras, just east of Cape San Juan, Puerto Rico. The surveys included are T-12141, 12148 and T-12149.

22. Method

The plot was laid with a single flight of five 9-lens photographs taken in 1958 and supplemented with nine 1961 single lens photographs.

1958 master calibration templet #57218 was used to prepare the 9-lens templets.

Holding to pass points established by a previous bridge junctioning to the west of this area (T-12145), the 9-lens templets were extended eastward down the narrow chain of islands on which controlewas located.

The enclosed sketch shows the positioning of control and photography used in this plot.

As the 9-lens photographs and the single-lens were closely aligned in flight, weak cuts were realized for the scattered islands on the eastern extremities of the area bridged.

Utilizing single-lens photographs, closely ratioed to the strongest pass points achieved by the 9-lens, anadequate fix in position was realized for these islands.

23. Adequacy of Control

Six field identified triangulation stations were available to bridge the area. Of these, five stations held within ± 0.3 mm of their plotted position.

Lobos 2 1962 RM 1 & RM 2 could not be held. It was felt that the accuracy of identification was doubtful at best. RM 1 & RM 2 were points of vegetation which were indefinitely defined on the photography. A positive identification of a control station nearby, Nob 2 1962, held well.

- 2 -

24. Supplemental Data

None

25. Photography

As the area to be compiled was a narrow chain of islands, it was impossible to have both strong pass points and transferable azimuths. The photography used was flown down the chain, affording the transfereof conjugate centers but resulting in weak cuts on the islands falling between centers.

Submitted by:

John P. Battley, Jr.
J. P. Battley, Jr.

65°33'45"
18°26'15"

T-12141

PHOTOGRAMMETRIC PLOT LAYOUT

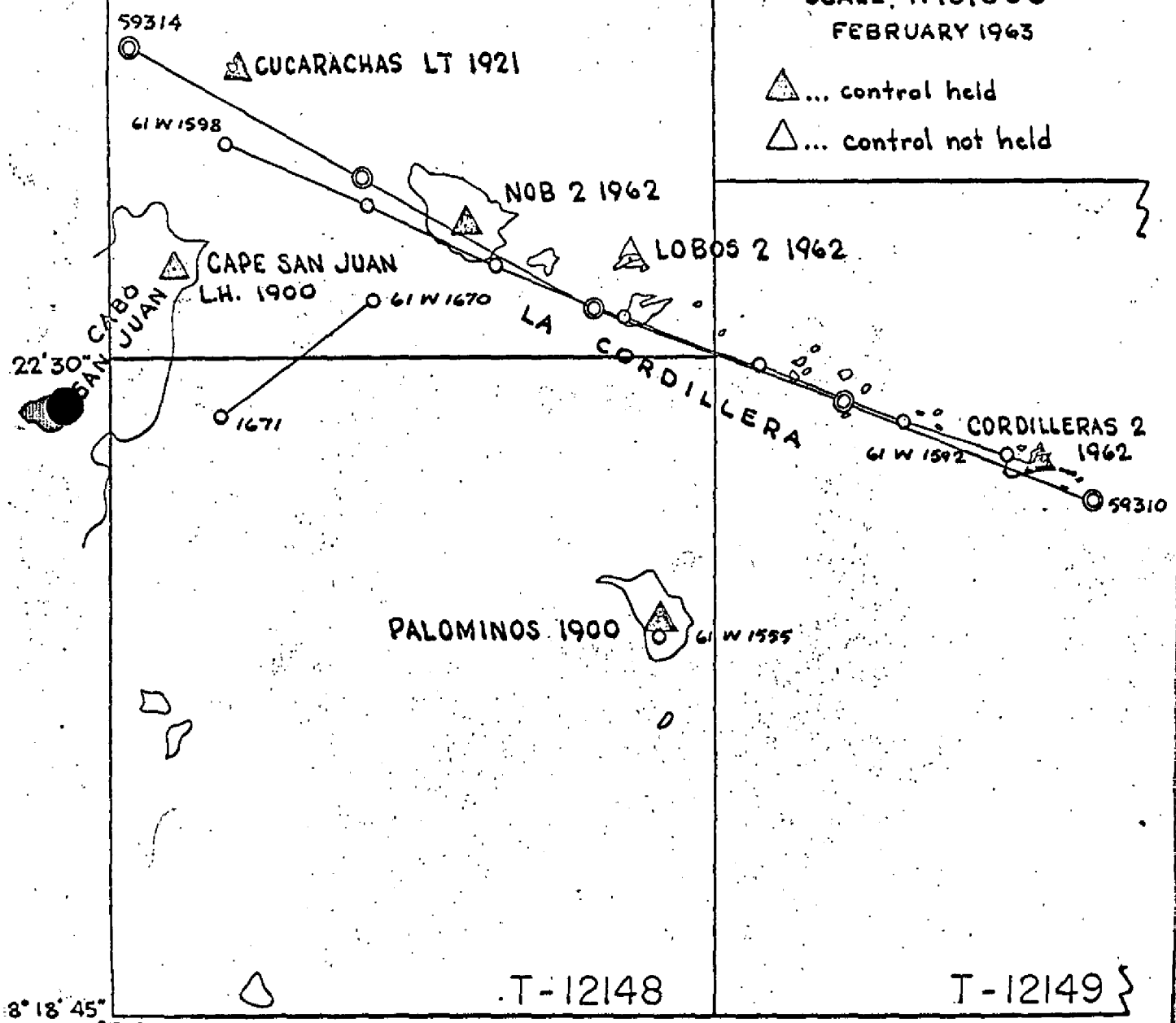
PH-6106

SCALE 1:10,000

FEBRUARY 1963

△... control held

△... control not held



18°18'45"
65°37'30"

T-12148

T-12149 }

4.28

PHOTOGRAMMETRIC PLOT REPORT
PUERTO RICO, EAST COAST
PROJECT PH-6106
March, 1962

21. Area Covered:

T-12136 through T-12139; T-12141 through ^{T-12146;} T-12148; T-12152 through T-12161.

22. Method:

Five stereoplanigraph bridges were run in order to provide pass points for Kelsh compilation of the project.

Strip #4 was adjusted on a linear basis. All other strips were adjusted on a least-squares basis on the IBM 650 computer. Satisfactory adjustments were obtained for all strips in the project.

23. Adequacy of Control:

The horizontal control provided complied with project instructions, and was adequate. The following control failed to hold in bridging:

Δ PINERITA 2, 1941-SUB.PT. 2. This station had been designated as a poor image pt. at the time of bridging, and may safely be disregarded due to the proximity of other control that held in bridging.

24. Supplemental Data:

None

25. Photography:

The photography was adequate for the needs of aerotriangulation.

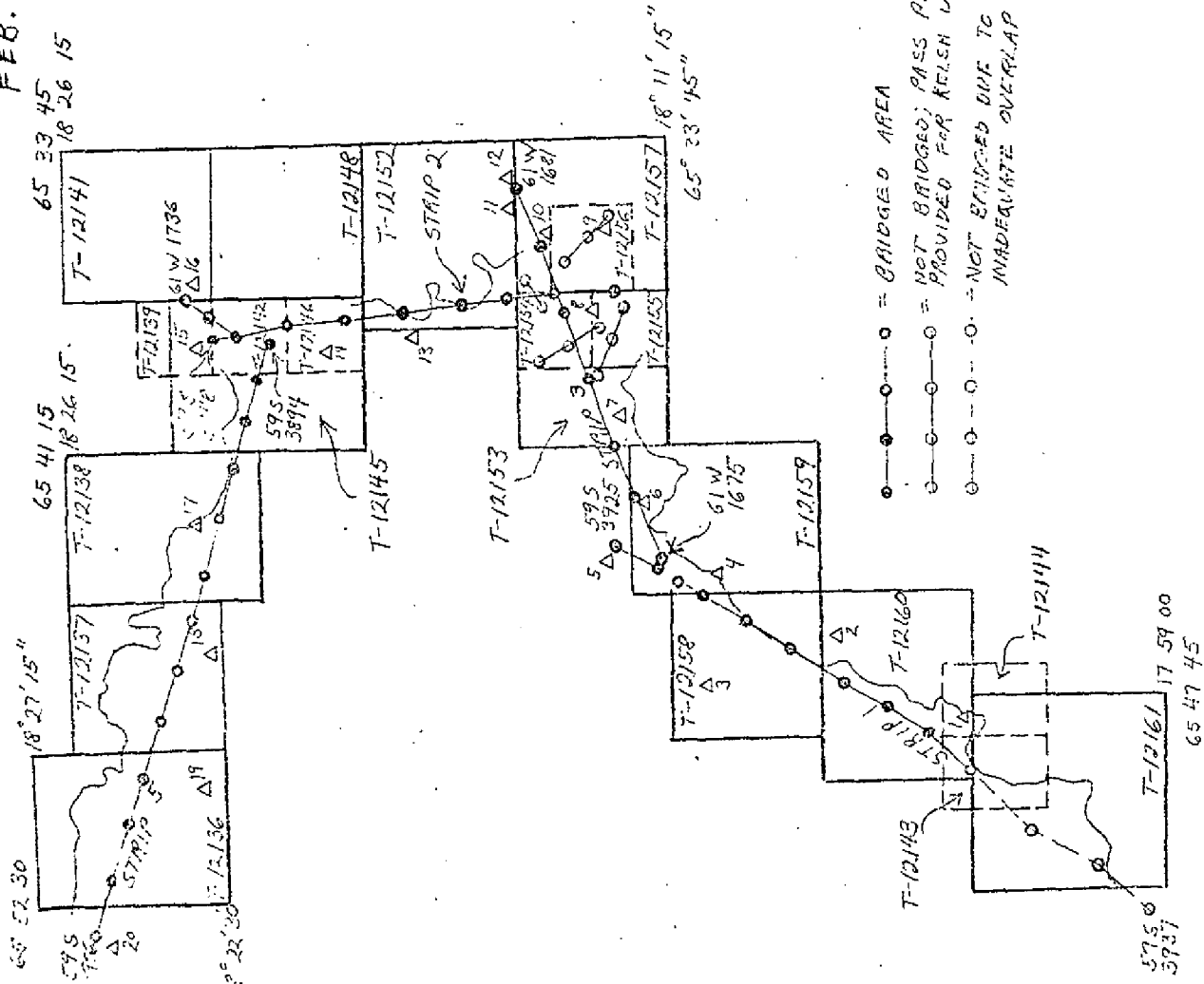
Submitted by:

R. E. Fuechsel
R. E. Fuechsel

Approved:

E. H. Ramey
E. H. Ramey, Chief
Aerotriangulation Section

PUEERTO RICO - EAST COAST PROJECT PH-6106 FEB. 1962



TRIANGULATION LIST

1. GUAYANES 2, 1923-SUB. 1+2	16. CAPE SAN JUAN LIGHT HOUSE, 1900
2. BATATA, 1901-SUB. 1+2	17. LUQUILLO CH. (USGS) 1934
3. PASTO VIEJO EASTERN SUGAR ASSN. WH. COM. STACK, 1941	18. PALMER (USGS) 1939-SUB. 1+2
4. HUMACAO PLAYA CH. (USGS) 1934	19. RIO GRANDE CHURCH (USGS) 1934-SUB. 1+2
5. MAGUARO CH. (USGS) 1934	20. SANTA INEZ, 1902-SUB. 1+2
6. COLON (USGS) 1941-SUB. 1+2	
7. LOMA 1941 - SUB. 1+2	
8. HONDA 1941-SUB. 1+2	
9. CABERAS IS. LT., 1941	
10. MUNDO, 1926-SUB. 1+2	
11. PINERITA 2, 1941-SUB. 1+2	
12. CAJAZA LT. 124.0 LT., 1923	
13. PENEDE, 1941-SUB. 1+2	
14. CENTRAL FAJARDO ACNT# STACK, 1941	
15. CAPE, 1901-SUB. 1+2	

DESCRIPTIVE REPORT CONTROL RECORD

MAP# 12148 PROJECT NO. PH-6106 SCALE OF MAP 1:10,000 SCALE FACTOR _____

[illegible]

16.

COMPILATION REPORT
PH-6106
T-12141, 12148 & 12149
February 1963

31. Delineation

Graphic methods were used to compile these manuscripts, utilizing ratioed single-lens crenopaque photographs. All compilation was based on office interpretation of the photography. Due to lack of control compilation was not accomplished in the area of Cayo Largo (T-12148). Color photography was available and was used as an aid in interpreting foreshore coral and bottom characteristics. *See Addendum page 18.*

32. Control

See item 23 and 25 of the Plot Report. In resecting the ratio prints to the manuscript it was evident that the placement of the triangulation stations available to control this area was such that an absolute fix in horizontal positioning of the islands on T-12149 is subject to a possible shift in an East-West direction.

33. Supplemental Data

Charts 917 and 921 were used to obtain geographic names.

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

Coral surrounds most of the islands, however identification could not be positive and the limits of such areas are not well defined on the photographs. To delineate the areas of coral and/or shallow water, a dashed line has been shown and the area labeled "shallow." Where interpretation was more positive, the symbol for coral has been shown.

36. Offshore Details

No unusual problems were encountered.

37. Landmarks and Aids

None office identified

38. Control for Future Surveys

None

39. Junctions

Junctions have been made and are in agreement with the adjoining sheets.

40. Horizontal and Vertical Accuracy

Horizontal positions in the area of Cayo Diablo (T-12149) are considered weak. See item 32 of this report and the Photogrammetric Plot Report. With the combination of ratioed single-lens photographs and 9-lens radial cuts, a position for pass points within the tolerances for this scale mapping is believed to be maintained in this area.

41-45 - None

47. Comparison with Nautical Charts

The manuscripts have been compared with Chart No. 917, 1:40,000 scale, published 6-18-62 and revised 1-12-63. Comparison was also made with Chart No. 921, scale 1:10,000, published 3-6-61 and revised 1-12-63.

Submitted by:

Jacqueline B. Phillips
Jacqueline B. Phillips

ADDENDUM TO COMPILATION REPORT

For: T-12148

The area west of longitude $65^{\circ} 36'.45$ was compiled by Kelsh Plotter in Tampa during June 1962, at ~~the~~ time the models were set for compiling T-12142 and T-12146. Field inspection for this area was done by M. L. Olivier in December 1961.

The western shoreline of Isla de Ramos was revised in final review from color photographs 62-S-507 and 508, taken in February 1962, about 2 months after the field inspection in December 1961.

The shoals at Key Largo were delineated from office interpretation in Tampa during December 1963 when it seemed possible to arrive at a reasonable fix for photographs 59-S-3889 and 3890 between Isla de Ramos, Cayo Zancudo, and Isla Palominos. No part of the shoal appears to bare, but the name, Key Largo, is used for area identification.

↑ formerly Largo Shoals changed to Cayo Largo 1952
Southern areas are awash as charted.

GEOGRAPHIC NAMES
FINAL REVIEW LIST
PH-6106
T-12148 (Shoreline)

- > ARRECIFE CORONA CARRILLO
- > ARRECIFE MATA CABALLOS
- > ~~ARRECIFE RONCADOR~~ - *pp*
- > BAJO LAJA (on Geo. Name Quad. Feature not visible, not used.)

- > CABO SAN JUAN
- > CAYO AHOGADO
- > CAYO LARGO
- > ~~CAYO OBISPO~~
- > ~~CAYO ZANCUDO~~

*Isla Marina - pp * See Note*

- > ISLA DE RAMOS
- > ISLA PALOMINITOS
- > ISLA PALOMINOS

- > PUNTA AGUILA
- > PUNTA GORDA

- > RADA FAJARDO

- > SONDA DE VIEQUES

Names are from FINAL NAME SHEET (Sheet 5 of 7) on CAYO ICACOS, PUERTO RICO, quadrangle by Geographic Names Section.

M. M. Slavney
Final Review

*Names approved
May 29, 1968*

*A. J. Wraight
Frank W. Fickett*

* These two islands were joined (to form one island) subsequent to the date of field inspection (1962). The new name was recommended in 1964 and subsequently approved.

The original names are retained in the ^{SEB} manuscript to reflect the condition at time of field inspection.

PHOTOGRAMMETRIC OFFICE REVIEW

T-~~10661~~ 12148*Completed in Man.*

1. PROJECTION AND GRIDS JEB	2. TITLE JEB	3. MANUSCRIPT NUMBERS JEB	4. MANUSCRIPT SIZE JEB
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY JEB	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) X		7. PHOTO HYDRO STATIONS X
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT JEB	11. DETAIL POINTS JEB
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE JEB	13. LOW-WATER LINE JEB	14. ROCKS, SHOALS, ETC. JEB	15. BRIDGES X
16. AIDS TO NAVIGATION JEB	17. LANDMARKS JEB	18. OTHER ALONGSHORE PHYSICAL FEATURES JEB	19. OTHER ALONGSHORE CULTURAL FEATURES JEB
PHYSICAL FEATURES			
20. WATER FEATURES JEB	21. NATURAL GROUND COVER JEB		22. PLANETABLE CONTOURS X
23. STEREOSCOPIC INSTRUMENT CONTOURS X	24. CONTOURS IN GENERAL X	25. SPOT ELEVATIONS X	26. OTHER PHYSICAL FEATURES JEB
CULTURAL FEATURES			
27. ROADS JEB	28. BUILDINGS JEB	29. RAILROADS X	30. OTHER CULTURAL FEATURES JEB
BOUNDARIES			
31. BOUNDARY LINES X		32. PUBLIC LAND LINES X	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES JEB	34. JUNCTIONS JEB		35. LEGIBILITY OF THE MANUSCRIPT JEB
36. DISCREPANCY OVERLAY X	37. DESCRIPTIVE REPORT JEB	38. FIELD INSPECTION PHOTOGRAPHS NONE	39. FORMS JEB
40. REVIEWER J. E. Battley <i>R.E. Smith of Scribble Man.</i>		SUPERVISOR, REVIEW SECTION OR UNIT K. N. Maki	
41. REMARKS (See attached sheet)			
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT			
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.			
COMPILER <i>R.E. Smith</i> R. E. Smith		SUPERVISOR <i>Albert C. Rauck, Jr.</i> A. C. Rauck, Jr.	
43. REMARKS			

FIELD EDIT REPORT
T-12148

No field edit report was submitted as such. The Item "SHORELINE INSPECTION", on page 2 of Descriptive Report for "Control and Shoreline" for OPR 423, 1964, which is a part of the hydrographic records states: "A limited field was carried on concurrently with hydrography for each boat sheet. What field edit notes were made were placed on the cronaflex T sheets and marks on appropriate photos in green ink. T sheets and accompanying photographs were sent to the Washington Office on September 15, 1964."

"All offshore detail shown on the T sheet was verified or deleted by the hydrographic party."

This completed the Item.

The field edit for T-12148 was so skimpy that it has been classified as "None".

M. M. S.
Final Review

REVIEW REPORT T-12148
SHORELINE
November 1967

61. GENERAL STATEMENT:

See Summary accompanying Descriptive Report (page 6).

A Comparison Print, showing the differences noted in Items 62, 63, 64, and 65, is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered Survey T-2478; 1:10,000; 1900

Differences are noted on the Comparison Print; the data from T-2478 is shown in blue.

Shoreline changes at Cabo San Juan, and the various islands across the map may be the result of time and/or construction.

Two islands, each about 80 meters long, not on T-2478, are in this map. Cayo Ahogado, lat. $18^{\circ} 19' .47$, long. $65^{\circ} 37' .17$, and the islet just east of Isla de Ramos, at lat. $18^{\circ} 18' .8$, long. $65^{\circ} 36' .48$, were both noted by the field inspector on field photograph 59-S-3918. In the case of the latter island a note was added: "co. and rk. deposits 2' above M.H.W."

This survey supersedes the previous surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

CAYO ICACOS quad; U.S.G.S.; 1:20,000; 1943, revised 1958

The details from the quadrangle are on the Comparison Print in purple.

The quadrangle shows a string of 5 narrow islets southeast of Isla de Ramos, and shoreline differences to 80 meters on Isla Palominos.

Cayo Ahogado is shown about 20 meters east of its position on this map.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Boat Sheet EX-5-1-64 (H-8813); 1:5,000; 1964

A line of soundings from the boat sheet crosses the western point of Isla de Ramos, on the Comparison Print in green. The boat sheet carries a note "four signals on Ramos I. were moved at least once and replaced in different location (by local islanders)..As a result, hydro in whole area is doubtful in exact location and there is considerable displacement."

The shoreline differences on Isla de Ramos are the result of revision from the 1962 color photographs 62-S-507, 508, taken two months after field inspection.

The boat sheet describes a wreck at lat. $18^{\circ} 20' .3$, long. $65^{\circ} 37'$, that is not visible on the photographs and was not noted by the 1961 field inspection.

65. COMPARISON WITH NAUTICAL CHARTS:

Nautical Chart 921; 1:10,000; 8th Edition, June 27, 1966

Nautical Chart 917; 11:40,000; 6th Edition, May 16, 1966

The chart differences are on the Comparison Print in red.

Large shoreline changes at Cayo Obispo and Cayo Zancudo are obviously from construction in progress from 1961 through 1964, when the hydrographer made appropriate notes on the boat sheet.

The two wrecks, lat. $18^{\circ} 20' .7$, long. $65^{\circ} 36' .85$, and lat. $18^{\circ} 20' .3$ long. $65^{\circ} 37'$, shown on the charts could not be seen on any of the photographs, nor were they noted by the field inspector. The southerly one, just east of Cayo Zancudo is on the boat sheet.

The islet, Cayo Ahogado, lat. $18^{\circ} 19' .47$, long. $65^{\circ} 37' .17$, is not shown on the charts. It was noted on photo 59S-3918 by the 1961 field inspection, and a hydro signal, LEO, was located on it, per the boat sheet.

An island just east of Isla de Ramos, lat. $18^{\circ} 18' .8$, long. $65^{\circ} 36' .48$, is not on the charts. The 1961 field inspection delineated the M.H.W. line and noted "co. and rk. deposits 2' above M.H.W."

The stream through the mangrove on Cabo San Juan is misplaced on the chart.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements and the National Standards for Map Accuracy. No accuracy tests were made in the field.

Reviewed by:

M. M. Slavney
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Approved by:

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NOTES TO VERIFIER
T-12148 Project PH-6106
BOAT SHEET NO. EX-5-1-64 (H-8813)

See the note pertaining to the revised shoreline of Isla de Ramos on the Comparison Print. Also note Items 64 and 65 of the Descriptive Report.

