12166

Diag. Cht. No. 904.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-5909 *Office No.* T-12166

LOCALITY

State Puerto Rico

General locality Isla De Vieques

Locality Disembarcadera Mosquito

1959-67

CHIEF OF PARTY

J.Bull, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE April 1968

USCOMM-DC 37022-P66

12166

FORM C&GS-181a
(3-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD
T - 12166

PROJECT NO. (II):
JOB PH-5909

FIELD OFFICE (II):	CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Atlantic Marine Center	J. Bull, Director

INSTRUCTIONS DATED (II) (III):
12 November 1965

METHOD OF COMPILATION (III):
Wild B-8 and Kelsh

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:20,000	1:6,000 Pantagraph to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III):
Puerto Rico	~~XXXXXXXXXXXXXXXXXXXXXXXXXXXXX~~ MHW *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):
BOCA (USGS) 1938 ✓

LAT.:	LONG.:	
18° 06' 15".905(489.0m) ✓	65°34' 38".725 (1138.6m) ✓	[XX] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):	STATE	ZONE
Y = 99,126.94 ft. ✓ X = 797,218.12 ft. ✓	PUERTO RICO	Zone 1

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

USCOMM-DC 36393A-P66

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T - 12166

FIELD INSPECTION BY (II): None	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of photography: April 20, 1959 and February 21, 1964	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE: November 1965
PROJECTION AND GRIDS CHECKED BY (IV): R. S. Kornspan	DATE: November 1965
CONTROL PLOTTED BY (III): R. E. Smith	DATE: January 1966
CONTROL CHECKED BY (III): B. H. Barnes	DATE: January 1966
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Robert B. Kelly (WSC)	DATE: No date
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY L. Neterer and B. H. Barnes	DATE: January 1966
CONTOURS Inapplicable	DATE:
MANUSCRIPT DELINEATED BY (III): L. L. Graves	DATE: February 1966
SCRIBING BY (III):	DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. E.Smith	DATE: June 1966
REMARKS: Field Edit D. R. Rich LTjg, USESSA April 1966	

USCOMM-DC 16276B-P61

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD
T-12166

CAMERA (KIND OR SOURCE) (III):

S and W cameras

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
64 W 3499	21 Feb. 1964	10:08-[redacted]	1:30,000	0.1 above MLW
64 W 3500	"	"	"	"
64 W 3501	"	10:09	"	"
64 W 3502	"	10:10	"	"
59 S 3963	20 April 1959	09:04	1:30,000	0.2
59 S 3964	"	"	"	"
59 S 3965	"	"	"	"
59 S 3966	"	09:05	"	"

TIDE (III) Predicted

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: GALVESTON, TEXAS SAN JUAN, PUERTO RICO			
SUBORDINATE STATION: BAHIA DE MULAS, ISLA DE VIEQUES	.73	.8	1.0
SUBORDINATE STATION: PUERTO FERRO, ISLA DE VIEQUES	.60	.6	Diurnal 0.8

Atlantic Marine Center
~~WASHINGTON~~ OFFICE REVIEW BY (IV): M. M. SLAVNEY — DATE: JAN. 1967

PROOF EDIT BY (IV): — DATE:

	RECOVERED:	IDENTIFIED:
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	2	2
NUMBER OF BM(S) SEARCHED FOR (II): none	RECOVERED:	IDENTIFIED

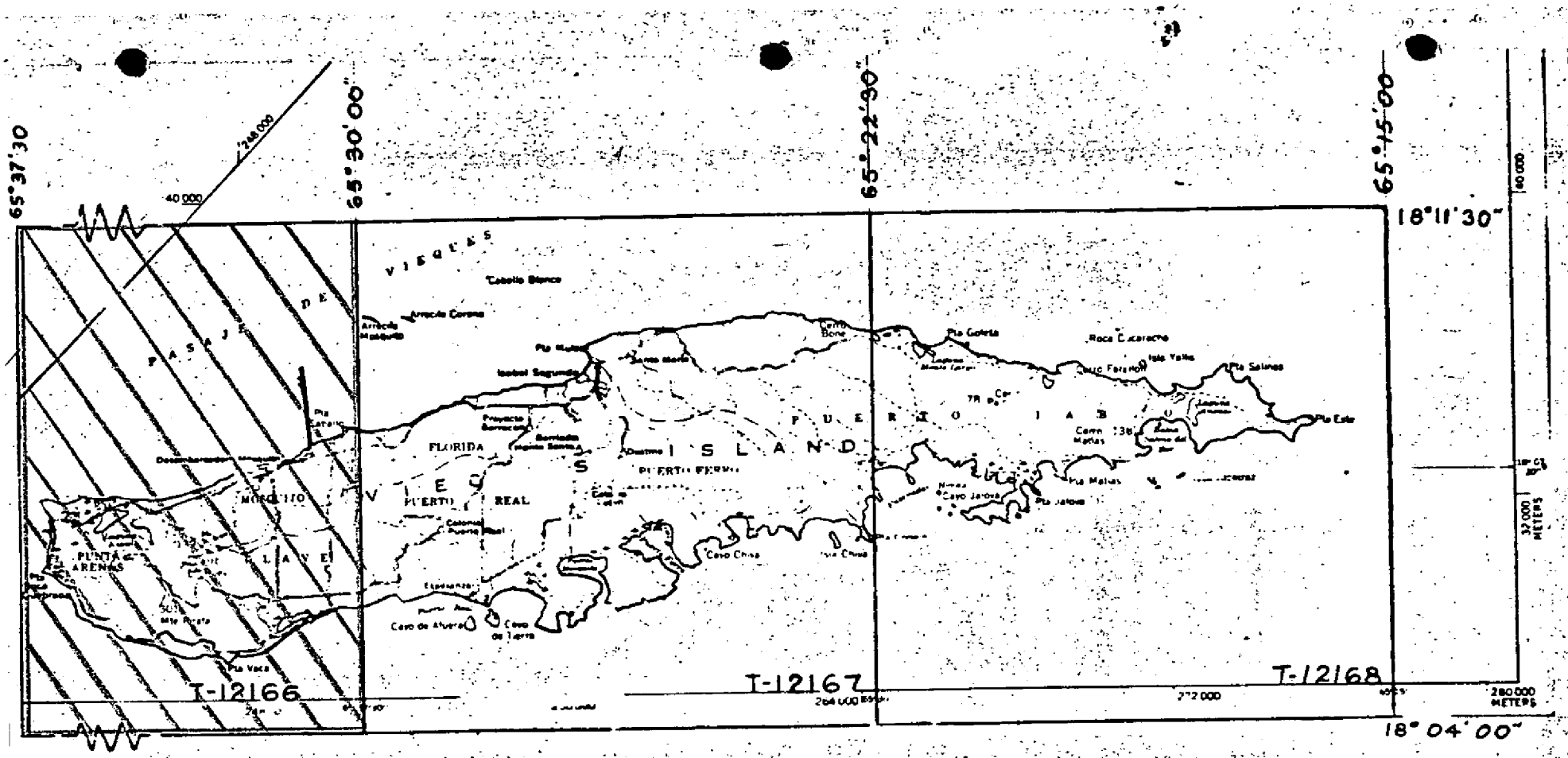
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): none

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): none

REMARKS:

T-12166

COMPILATION RECORD	COMPLETION DATE	REMARKS
Alongshore area for hydro	February 1966	Superseded
Field Edit applied Manuscript complete	June 1966	SUPERSEDED
FINAL REVIEW SOME REVISIONS	JAN., 1967	



PROJECT 21023 (PH 5909)

Shoreline Mapping 1:5000, 1:10,000, & 1:20,000 Scale Culebra, Vieques and adjoining islands

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12166

Shoreline manuscript T-12166 is one of three 1:20,000 scale manuscripts of the Vieques Island part of Ph-5909, which also contains 8 maps of Culebra Island and adjoining islands. The sketch on page 5 of this report shows the position of this manuscript in this part of the project.

This is a stereo-instrument project in advance of hydrographic surveys of the area. Two strips of 1:30,000 scale panchromatic photographs the southern one taken in 1959 with "S" camera, and the northern flight taken in 1964 with the "W" camera. 1962 color photographs at 1:10,000 scale provided added information along the shoreline.

The stereo-bridge was run and adjusted to field identified control in the Washington Office. Compilation was done with the Kelsh Plotter. Ratio prints, at 1:20,000 scale were processed, and provided for photo-hydro support.

Field work preceding compilation consisted of control identification only. The manuscript was field edited in conjunction with photo-hydro support.

The compilation manuscript was a vinylite sheet 7 minutes, 30 second in latitude, and 7 minutes 30 seconds in longitude. The smooth manuscript is on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT

There was no field inspection prior to compilation.

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

8

MAP T- 12166 PROJECT NO. 5909 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BOCA (USGS)1938-41	G.P.P. 178	P.R.	18° 06' 15.905	488.97 (1355.61) ✓			
			65° 34' 38.725	1138.55 (625.51) ✓			
EL BUEY (USGS) 1938-41	"	"	18° 06' 30.342	932.80 (911.78) ✓			
			65° 32' 29.696	873.06 (890.94) ✓			
MALDONADA (USGS) 1938-41	G.P. P. 177	"	18° 07' 04.906	150.8 (1693.8) ✓			
			65 31 39.239	1153.6 (610.3) ✓			
TIO (USGS)1938-41	G.P. P. 177	"	18 05 24.759	761.2 (1083.4) ✓			
			65 31 52.309	1538.1 (226.2) ✓			
RESOLUCION (USGS) 1938-41	G.P. P. 178	"	18 06 57.323	1762.3 (82.3) ✓			
			65 33 17.007	500.0 ✓ (1263.9) ✓			
PUNTA ARENAS No. 12 (USGS) 1938-41	G.P. P. 179	"	18 07 11.052	339.8 (1504.8) ✓			
			65 30 50.546	1486.0 (277.9) ✓			
PUNTA ARENAS No. 11 (USGS) 1938-41	G.P. P. 179	"	18 07 04.26	131.0 (1713.6) ✓			
			65 32 00.86	25.3 (1738.6) ✓			
PUNTA ARENAS No. 2 (USGS) 1938-41	G.P. P.180	"	18 06 10.134	311.5 (1533.1) ✓			
			65 33 25.429	747.6 (1016.5) ✓			
PUNTA ARENAS No. 1 (USGS) 1938-41	G.P. P.180	"	18 05 40.30	1238.9 (605.7) ✓			
			65 34 00.94	27.6 (1736.5) ✓			
MT. PIRATA 2 1941	G.P. P. 38	"	18 05 42.425	1304.3 (540.3) ✓			
			65 33 05.173	152.1 (1612.1) ✓			

1 FT. = .3048006 METER

COMPUTED BY: LLG DATE 2/8/66 CHECKED BY: RJP DATE 2/8/66

COMM-DC-57843

Aerotriangulation Report
Island of Vieques
Puerto Rico
PH-5909

21. Area Covered

This report covers T sheets 12166, 12167 and 12168 on the Island of Vieques.

22. Method

Two horizontal east-west bridges were run to provide control for compilation. Strip #1 was bridged on the C-5 and Strip #2 was bridged on the C-8. Points were drilled in the diapositives with the PUG to provide the passpoints for bridging. The adjustment on the IBM 1620 utilized eight control stations for Strip #1 and three stations for Strip #2.

23. Adequacy of Control

Horizontal control accuracy meets the standards for delineating T sheets at 20,000.

Identification of control on this project was very difficult due to the nature of the terrain. The first attempt at recovery resulted in totally inadequate identification. The second attempt resulted in good identification on some of the points; however, other substations were almost impossible to locate. This problem was further complicated by the difference in the time of photography between the two strips (Strip #1 was flown in 1964, while Strip #2 was flown in 1959).

The following stations and substations could not be held within National Map Accuracy Standards.

Strip #1

Boca, 1941, SSB
Perez, 1941, SSA
Compana, 1941, SSB
Fossil Cliff, 1900, SSA
Ensenada, 1941, SSA & B

Strip #2

Boca, 1941, SSA
Point Negro, 1941, SS
Point Ferro, LH 2, 1941
Ensenada, 1941, SSA & B
Port Diablo, 1941, SSA & B
Matias, 1941, SSA
East End, 1900

Most of the stations were not being held due to the inability to transfer the identification from 1964 photography to the 1959 photography and vice versa. The exceptions to the above are: Ensenada, 1941, SSA & B, which could not be held within fifty feet on either strip. No reason could be determined for this error. In the case of Point Ferro, LH 2, 1941, (a good identification) the point was allowed to drift out to enable the tie points between the two strips to be pulled closer together.

The final adjustments of two strips are the best results that could be obtained with the control available and will meet the requirements for 1:20,000 scale mapping.

Common points were hit between Strips #1 and #2 to augment datum tie. All tie points were averaged between the two strips.

24. Supplemental Data

USGS Quad, Island of Vieques, was used to provide vertical control for bridging.

25. Photography

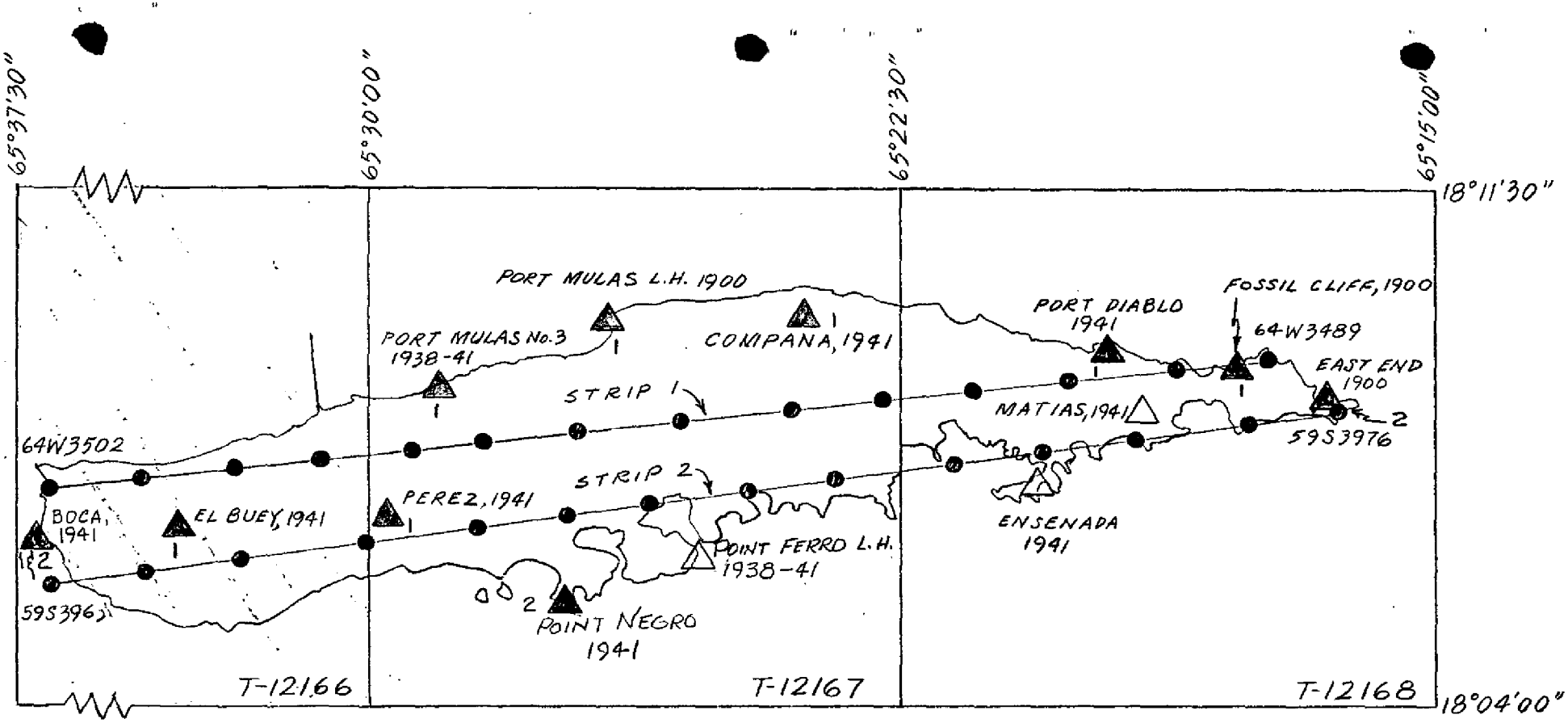
Photography was adequate as to coverage, overlap and definition.

Submitted by:

Robert B. Kelly

Approved by:

John D. Perrow, Jr.



AEROTRIANGULATION SKETCH
ISLAND OF VIEQUES
Project 21023(Ph-5909)

LEGEND

▲ Used in the adjustment

△ Used as check

COMPILATION REPORT
T-12166

Aerotriangulation Report is submitted with this report.

31. DELINEATION

The Kelsh and Wild B-8 plotters were used. There was no field inspection. Photography was satisfactory.

32. CONTROL

See Aerotriangulation Report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

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

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A satisfactory junction was made with T-12167 to the east. The Caribbean Sea is to the south and west, and the Pasaje De Vieques is to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangles, ISLAND OF VIEQUES, PUERTO RICO; scale 1:50,000 and Topographic Map of the Island of Vieques,

PUERTO RICO, scale 1:30,000.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 940, PASSAJE DE VIEQUES and RADAS ROOSEVELT, scale 1:25,000 and Chart 904, VIRGIN PASSAGE and SONDA DE VIEQUES, scale 1:100,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

L. L. Graves
Cartographic Technician

Approved and Forwarded:

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

48. GEOGRAPHIC NAME LIST

CARIBBEAN SEA

DESEMBARCADERO MOSQUITO

ESCOLLO DE ARENAS

ISLA DE VIEQUES

LAGUNA ARENAS

LAGUNA EL POBRE

LAGUNA KIANI

LAGUNA PLAYA GRANDE

MOSQUITO AIRFIELD

PASAJE RADAS ROOSEVELT

PASAJE DE VIEQUES

PTA BERMUDES *

PUNTA ARENAS

PUNTA BOCA QUEBRADA

PUNTA CABALLO

PUNTA VACA

RADAS ROOSEVELT

* From Chart No. 940

GEOGRAPHIC NAMES

FINAL NAMES LIST

PH-5909
T-12166

Caribbean Sea

* Cerro El Buey

Desembarcadero Mosquito

Escollo de Arenas

* Hacienda Arcadia

Isla de Vieques

Laguna Arenas

Laguna El Pobre

Laguna Kiani

Laguna Playa Grande

* Monte Pirata

Mosquito Airfield

Pasaje de Vieques

Pasaje Radas Roosevelt

* Playa Grande (Village)

Punta Arenas

Punta Bermudes Not on Name Quad., is on Chart 940, name used

Punta Boca Quebrada

Punta Caballo ?

Punta Vaca

Radas Roosevelt

* Resolucion Not on Name Quad.,is on Chart 940

Approved by:

A. J. Wraight

A. J. Wraight
Chief Geographer

Prepared by:

Frank Pickett

Frank Pickett
Cartographic Technician

* Feature not delineated, name not used

49. NOTES FOR THE HYDROGRAPHER

Features believed to be of landmark value have been shown, however their navigational value should be verified.

Rocks, shoals and other offshore features have been shown from office interpretation and should be verified.

Due to the time and date difference in photography, many shoreline points which appear on the 1964 photographs do not appear on the 1959 photos and vice-versa.

14

C&GS FORM 1002
(11-13-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

~~Tx10363~~ T-12166

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RES	RES	RES	RES

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
RES	XX	XX

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	XX	Bridge (WSC)	Kelsh

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RES	XX	RES	XX

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
XX	XX	RES	RES

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
RES	RES	XX

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	XX	XX	RES

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
RES	RES	XX	RES

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
XX	XX

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
RES	RES	RES

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
XX	RES	XX	RES

40. REVIEWER	SUPERVISOR, REVIEW SECTION OR UNIT
RES R. E. Smith	ACR Albert C. Rauck, Jr.

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	SUPERVISOR
LLG L L Graves	ACR Albert C. Rauck, Jr.

43. REMARKS

TIDE COMPUTATION

PROJECT NO. Ph-5909 T- 12166

Time and date of exposure 09 02 2/18/62 Reference station SAN JUAN, PUERTO RICO Mean range 0.8

Date of field inspection ________ Subordinate station BAHIA DE MULAS, Island of Vieques Ratio of ranges .73

	Time h.	Time m.
High tide	8	35
Low tide	14	53
Duration of rise or fall	6	18

	Height feet	Height x Ratio of ranges
High tide	1.1	0.73 = 0.8
Low tide	0.0	.73 0 0
Range of tide	1.1	0.8

	Time h.	Time m.
High tide at Ref. Sta.	8	57
Time difference	-	22
Corrected time at Subordinate station	9	35

	Time h.	Time m.
Low tide at Ref. Sta.	15	24
Time difference	-0	31
Corrected time at Subordinate station	14	53

	h. m.		feet		feet	Photo. No.
Time H. T. or ~~L. T.~~	8 35	Ht. H. T. or ~~L. T.~~	0.8	Feature bares		625632
Required time	9 02	Tabular correction	0.0	Stage of tide above MLW		
Interval	27	Stage of tide above MLW	0.8	Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		
Time H. T. or L. T.		Ht. H. T. or L. T.		Feature bares		
Required time		Tabular correction		Stage of tide above MLW		
Interval		Stage of tide above MLW		Feature above MLW		

M-2617-12

Computed by LLG Checked by ________

FIELD EDIT REPORT

Vieques Island

Puerto Rico

April 1966

USC&GS SHIP WHITING

LCDR JAMES P. RANDALL, USESSA, COMMANDING

- -

51: METHODS

For the most part the entire shoreline of Vieques Island was inspected from shore. Coral reefs along most of the shoreline inhibited the use of boat or skiff. Field edit was not finished in a few small areas due to the inaccessibility by boat or land.

All corrections, deletions and additions have been noted and cross referenced on the appropriate photographs and discrepancy prints. Elevations of rocks were determined by use of a hand level.

All field edit information has been shown on the following sheets and photographs.

SHEETS: T-12166, T-12167, T-12168

PHOTOS: 59S3964-3965, 59S3967

64W3489-3490, 64W3493, 64W3502

52: ADEQUACY OF COMPILATION

Compilation is, with the following corrections, considered complete and adequate.

T-12166

Deletions:

1. Row of stakes or piles..... 18°07'06"N 65°34'36"W

2. Trails..... 18°05'48" 65°30'12"

3. Tanks as landmarks..... 18°07'03" 65°34'33"

Additions: NONE

Corrections: NONE

T-12167

Deletions:

1. Rk awash symbol.....18°09'48"N 65°23'15"W

2. " " " ..... 18°09'46" 65°23'02"

3. " " " ..... 18°05'49" 65°26'27"

4. " " " ..... 18°05'54" 65°28'53"

5. Light..... 18°05'27" 65°26'45"

Additions:

1. Row of piling..... 18°08'15"N 65°29'50"W

2. Rk awash symbol..... 18°09'43" 65°22'55"

3. " " " ..... 18°05'49" 65°28'48"

Corrections: NONE

Deletions:

1. Trails..... 18°05'50"N 65°30'20"W

Additions:

1. Rk awash symbol..... 18°07'55"N 65°17'23"W

2. " " " ..... 18°07'54" 65°17'36"

Corrections: NONE

53: MAP ACCURACY

No accuracy tests were made except by the hydrographer. In all cases the plot appeared well within hydrographic needs.

54: RECOMMENDATIONS

No recommendations are offered. The office interpretation of photo images was good.

55: EXAMINATION OF PROOF COPY

No residents of Vieques Island examined the discrepancy prints for any possible errors.

56: SHORELINE

All shoreline was adequate as shown.

APPROVAL SHEET

Submitted by:

Donald R. Rich

Donald R. Rich
LTjg, USESSA

Approved:

James P. Randall

James P. Randall, LCDR, USESSA
Commanding USC&GS Ship WHITING

FIELD EDIT
REPORT

VIEQUES PASSAGE, PUERTO RICO

MAY 1967

USC&GS SHIP WHITING

LCDR Sidney C. Miller, USESSA, Commanding

- - - - - - - - - - -

51. METHODS:

For the most part the Northwest, West, and Southwest shoreline of Vieques Island was inspected from a skiff. Certain features were measured from shore.

All corrections, deletions, and additions have been noted on the discrepancy print and cross referenced on an appropriate photograph where possible.

All field edit information has been shown on the following sheets and photographs:

Sheet: T-12166
Photos: 21Feb64 W3502 & 20Apr59 S3965

52. ADEQUACY OF COMPILATION:

Compilation is, with the following corrections, considered complete and adequate:

T-12166

Deletions:

1. Broken line beginning at.....18°07'04"
65°34'33"

* See note on back of this page

2. Broken line beginning at.....18°06'59"
65°34'34"

3. Jetty ruins beginning at.....18°06'52"
65°34'34"

4. Rock awash.....18°05'06"
65°33'15"

Additions: None

Corrections:

1. Pilings beginning at 18°07'56", 65°30'54" are at right angle to shore rather than skewed as shown on T-12166.

2. Jetty at 18°06'52", 65°34'34" is shown correctly -on T-12166 and incorrectly on Chart 940. The jetty is 148 feet long from its offshore end to the High Water mark on the north side.

Verifications:

1. Navy pier beginning at 18°09'02", 65°30'51" and shown on Chart 940 extends 755 feet from center-line of rock causeway.

2. Several points of coral awash in area of 18°05'53" 65°34'23", offshore point approximately 100 meters from shore.

3. Measured nautical mile markers on southwest Coast of Vieques appear to be as shown on Chart 940.

4. Submerged rocks at 18°04'52"; 65°32'31" and 18°04'52"; 65°32'00" are as shown on Chart 940.

5. Rock awash at 18°05'34"; 65°30'24" as shown on Chart 940 projects 6 inches between seas at 1000 LMT, 3 May 1967.

54. RECOMMENDATIONS:

No recommendations are offered. The office interpretation of photo images was good.

information for mapping subject rocks was not furnished

568

Information concerning the jetty is also included on Field Edit Sheet 1 of 2 (April 1966) and Field Edit Sheet 2 of 2 (May 1967). The jetty as charted on Nautical Chart 940 was found to be in error by both field editors; however, the field information is contradictory concerning the offshore extent of the feature. For the greater part of its length the jetty forms (for mapping purposes) the north shore of a small point of land. The existence of that portion of the feature extending approximately 50 ft. offshore is uncertain.

APPROVAL SHEET

Submitted by:

David McCall

David McCall
Ensign, USESSA

Approved:

Sidney C. Miller

LCDR Sidney C. Miller, USESSA
Commanding, USC&GS Ship WHITING

DM/jrb

REVIEW REPORT T-12166
SHORELINE
June 1967

61. GENERAL STATEMENT:

See Summary accompanying Descriptive Report (page 6).

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Reg. No. 2528; 1:20,000; 1901 (datum corrected to Puerto Rican datum)
Reg. No. 2587; 1:10,000; 1902; Puerto Rican Datum
Reg. No. 2804; 1:20,000; 1906; Puerto Rican Datum
Reg. No. 4725; 1:10,000; 1927; Puerto Rican Datum

The Comparison Print shows the areas covered by these registered surveys on this map. FILED IN TUBE WITH MAP

The quay at Desembarcadero Mosquito is new since the 1902 survey. There are some minor shoreline changes; the exposed area of Punta Arenas probably changes constantly.

Registered Surveys 2804 and 4725 show numerous sunken rocks along the south shore of the Island that could not be seen on the photographs, and were not noted by the field editor. Coral reefs visible on the color photographs enclose many of these sunken rocks, and these reefs are shown on the manuscript.

Color photographs used are 62-S-571 thru 574, 62-S-632 thru 636, 62-S-576 thru 582, 62-S-641 thru 645; 62-S-9977 thru 9989. The flight lines are shown on the comparison print in brown.

The registered surveys showed no details interior from the shoreline.

T-12166 supersedes these registered topographic surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

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

Agreement is quite good. There is a difference in the position of the quay of Desembarcadero Mosquito; the quadrangle shows the quay about 20 meters east of its position on T-12166.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS: Note: SEE ADDENDUM PAGE 21

None, excepting the small (350 meter) overlap of Boat Sheet WH-20-1-66A, which is for Pasaje Radas Roosevelt east of T-12166.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 940; 1:25,000; 3rd Edition of July 25, 1966, corrected through Notice to Mariners No. 40 of October 1, 1966.

The Comparison Prints reveal these differences:

1- The chart shows a shore row of pilings at latitude 18° 07'.93, longitude 65° 30'.9, and a ledge in this area. Positive identification is not possible from the photographs, color or black and white, and the "piling", as noted on Discrepancy Print #2 of 2, is "at right angle to the shoreline", and not almost parallel to the shoreline as shown on the Chart.

2- The jetty ruins at latitude 18° 06'.85, longitude 65° 34'.6 extend about 100 meters further west on the chart than on this survey.

The 1967 Hydrographic Party on the Ship WHITING was asked to check differances #1 and #2. T-12166 is delineated to conform to their notes on Field Edit Discrepancy Print #2 and Item 52 of their Field Edit Report for May 1967, see page 18A (18B) of this report.

3- Several small ledges, and numerous sunken rocks are shown along the west and south coast on the chart, that could not be identified on the photographs, and were not noted by the field editor.

4- There are minor shoreline changes, the one at Punta Arenas is the largest. It is noted that Discrepancy Print #2 of 2 indicates that the shoreline at Punta Arenas changes frequently.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Approved by:

Director, Atlantic Marine Center

Reviewed by:

M. M. Slavney

Approved by:

Chief, ~~Cartographic~~ Branch

Chief, Photogrammetry Division

12-07-67

Chief, Chart Division

~~Chief, Operations Division~~

NOTES TO VERIFIER
T-12166 Project 21023 (Ph-5909)
BOAT SHEET NO. Projected

Please note Item 65 of the Descriptive Report for T-12166, Field Edit Print #2 of 2, and the Comparison Print for discrepancies between the T-12166 and the July 1966 edition of Chart 940.

64. ADDENDUM

Reefs were compiled from office interpreted color photography to assist the hydrographer. Outer limit lines visible on the photography were compiled. In some cases the lines will define the outer limits of sunken reef rather than the MLW Line.

S. D. Blankenbaker
9/26/61

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. T-12166

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
917	8/30/67	John A Wells	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No. Critical corrections only
940	1/5/70	Eric Frey	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No. Critical corrections only
904	1/5/70	Eric Frey	~~Full~~ Part ~~Before~~ After ~~Verification~~ Review Inspection Signed Via
			Drawing No. Critical Corrections only
917	1/5/70	Eric Frey	~~Full~~ Part ~~Before~~ After Verification ~~Review Inspection~~ Signed Via
			Drawing No. Critical Correction at Pt Areas only consider
940	1/31/74	R.A. Lillis	Full ~~Part Before~~ After ~~Verification Review Inspection~~ Signed Via
			Drawing No. Adequately Applied
940	9/27/74	Richard Kaiti	~~Full Part~~ Before After ~~Verification~~ Review ~~Inspection~~ Signed Via
			Drawing No. 940(74ed) 12 Field Edit
917	10/8/74	Richard Naito	Adequately Applied
(25663)			Full ~~Part Before~~ After Verification Review ~~Inspection~~ Signed Via
			Drawing No. 19 & Field Edit
904	11/5/74	R. Naito	Adequately Appld and Field
(25650)			~~Full Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 25
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975

USCOMM-DC 8559-P63