

ORIGINAL

12154

12154

12154

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (<i>Photogrammetric</i>)
Field No.	Office No. T-12154
LOCALITY	
State	PUERTO RICO
General locality	EAST COAST
Locality	ENSENADA HONDA (WEST)
1958 - 1962 1965	
CHIEF OF PARTY	
M. L. Olivier, Photo Party 708	
V. Ralph Sobleralski, Tampa District Office	
LIBRARY & ARCHIVES	
DATE	1 JUL 1968

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 12154

PROJECT NO. (II):

Ph-6106 (21042)

FIELD OFFICE (II):

Puerto Rico

CHIEF OF PARTY

M. L. Olivier

PHOTOGRAMMETRIC OFFICE (III):

Tampa, Florida

OFFICER-IN-CHARGE

V. Ralph Sobieralski

INSTRUCTIONS DATED (II) (III):

Field and Office - August 30, 1961

Amendment: " " - January 15, 1962 *

* Interior planimetry restricted to those features useful to photo hydro support ^{scg}

METHOD OF COMPILATION (III):

Kelsh plotter

MANUSCRIPT SCALE (III):

1:5,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

1:3,000

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):

Puerto Rico

VERTICAL DATUM (III): MHW

EXCEPT 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):

HONDA 1941

LAT.:

18°13'07.553" (232.2m.)

LONG.:

65°37'59.400" (1745.3 m.)

☒ ADJUSTED☐ UNADJUSTED

PLANE COORDINATES (IV):

= 140,559.30 Ft.

x = 777,679.82 Ft.

STATE

Puerto Rico

ZONE

Lambert

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.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): M. L. Olivier		DATE: Dec. 1961 Date taken from CSI card
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Air Photo Compilation Date of photography Oct. 1961 <i>Mar. 1965</i>		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		DATE Jan. 1962
PROJECTION AND GRIDS CHECKED BY (IV): I. Y. Fitzgerald		DATE Jan. 1962
CONTROL PLOTTED BY (III): V. P. Cackowski		DATE Feb. 1962
CONTROL CHECKED BY (III): I. I. Saperstein		DATE Feb. 1962
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): Washington Office		DATE Jan. 1962
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY R. J. Pate	DATE Feb. 1962
	CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): R. J. Pate " " Reviewed by W. H. Shearouse		DATE Mar. 1962 Mar. 1962
SCRIBING BY (III): P. W. Leikhim " Reviewed by W. H. Shearouse		DATE May 1963 May 1963
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): W. H. Shearouse		DATE June 1963
REMARKS: FIELD EDIT BY G. F. WIRTH, SEPT. 1962		

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Wild "W" and "S" #2

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE *
58-S-2740 thru 2742	1958	1041	1:10,000	Color Photos. *
59-S-3922	1959	?	"	Field Insp. *
59-S-3941 & 3942	1959	?	"	" "
61-W-1566 & 1567	10-19-61	1442	1:15,000	Diapositives *
61-W-1575 & 1576	"	1449	"	" "
61-W-1758 thru 1760	10-20-61	1626	1:10,000	Color photos. *
61-W-1790 thru 1792	:	1647	"	" "
65-L-1330, 1335, 1336	3/5/65		1:5000 ratio * from 1:15000	

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: *No subordinate station in area. Chart 922 gives range of tide in Ensenada Honda as 0.7 ft.			
SUBORDINATE STATION:			
SUBORDINATE STATION:			
WASHINGTON OFFICE REVIEW BY (IV): <i>FINAL</i> <i>NORFOLK</i> <i>M. M. SLAVNEY</i>	DATE:	<i>August, 1967</i>	
PROOF EDIT BY (IV):	DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 3	RECOVERED: 1	IDENTIFIED: 0	
NUMBER OF BM(S) SEARCHED FOR (II): 0	RECOVERED: 0	IDENTIFIED: 0	
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0			
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0			
REMARKS:			

6.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12154

Shoreline manuscript T-12154 is one of eight 1:5,000 scale maps in Ph-6106 (21042) Puerto Rico, which also contains sixteen 1:10,000 scale maps. The sketch on page 5 of this report shows the position of this manuscript 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 of this project are ~~in a postponed status until some future date.~~ *cancelled.*

m.m.s.

This is a stereo-instrument project in advance of hydrographic surveys of the area. Field inspection was done on 1:10,000 ratio prints from 1:30,000 panchromatic photographs made with the "S" camera April 18, 1959. Compilation was done with 1:15,000 photographs made with the "W" camera on October 19, 1961. Color prints at 1:10,000, taken with the "W" camera on October 20, 1961 were furnished for reference. 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 1:5,000 scale were processed, and provided for Photo-hydro support.

Field work preceding compilation consisted of control identification and field inspection was provided for compilation. The manuscript was field edited during 1962 in conjunction with photo-hydro support.

Revision of the Ensenada Honda area was done during Final Review using 1965 photographs, because extensive shoreline changes were made after the 1962 field edit. Please see the Addendum to the Compilation Report (page 12A)

The compilation manuscript was a vinylite sheet 1 minute, 52.5 seconds in latitude, and 1 minutes 52.5 seconds in longitude. The smooth manuscript was on cronaflex for registry and record after final review.

FIELD INSPECTION REPORT

- 7 -

2. AREAL FIELD INSPECTION

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 MNNL 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 covered 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

All buildings and roads have been classified in accordance with project instructions dated 30 August 1961.

13. GEOGRAPHIC NAMES

An investigation of geographic names was not required by the project instructions. It was noticed that the geographic names on the existing charts and quads of this area agree with one another and with the general opinion of the local people.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Contact photographs were forwarded to the Washington office by Letter of Transmittal No. PH-6106-3 dated 20 November 1961.

Submitted
5 December 1961

Michael L. Olivier
Michael L. Olivier

Chief, Photo Party 708

8.

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

21. Area Covered:

T-12146;

T-12136 through T-12139; T-12141 through 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:

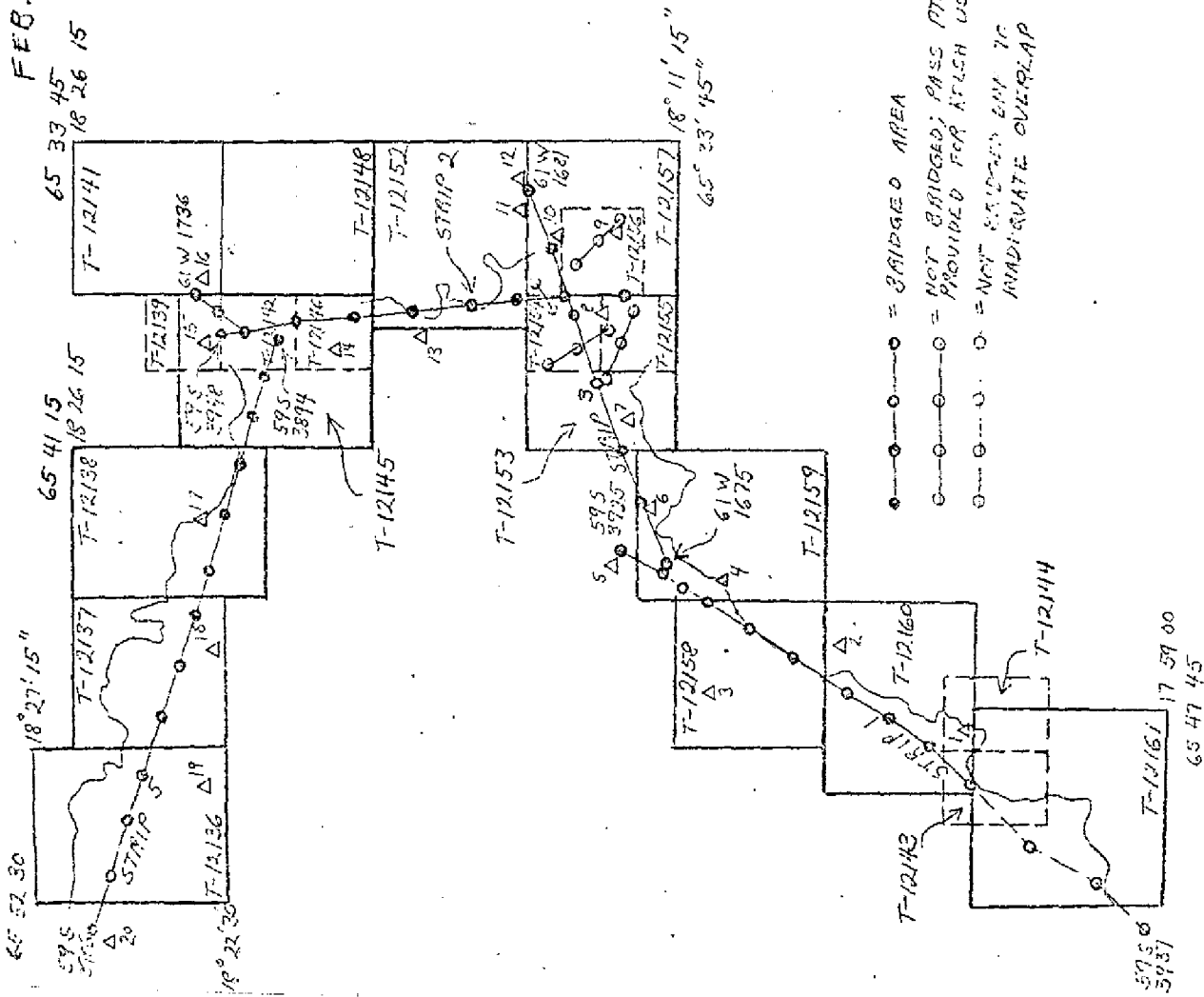
R. E. Fuechsel
R. E. Fuechsel

Approved:

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

PUERTO RICO - EAST COAST PROJECT PA-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. WA. 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. NAGUARO CH. (USGS) 1934	20. SANTA INEZ, 1902-SUB. 1+2
6. COLEH (USGS) 1941-SUB. 1+2	
7. LOMA 1941-SUB. 1+2	
8. HONDA 1941-SUB. 1+2	
9. CABRAS IS. LT., 1941	
10. MUNDO, 1926-SUB. 1+2	
11. PUERITA 2, 1941-SUB. 1+2	
12. CACELA DE FRADE LT., 1923	
13. RENEDO, 1941-SUB. 1+2	
14. CENTRAL. PARDADO NORTH STACK, 1941	
15. CAPE, 1901-SUB. 1+2	

COMPILATION REPORT

T-12154 PUERTO RICOPHOTOGRAMMETRIC PLOT REPORT

Stereo bridge was run in the Washington Office. *See pages 8 & 8A*

31. DELINEATION

This sheet was delineated at a scale of 1:5,000 by means of the Kelsh plotter from diapositives of 1:15,000 scale.

Diapositives used in delineation were 61-W-1576, 61-W-1577, 61-W-1566 and 61-W-1567. A third model using 61-W-1575 and 61-W-1576 was necessary only to locate the rear range light.

Color photographs 61-W-1758, 61-W-1759 and 61-W-1760 were studied under the stereoscope to help ascertain the limits of shoals, shoreline in questionable areas, and location of rocks.

The field inspection, which was generally adequate, was done on 1959 photographs and 1961 photographs were used for delineation.

32. CONTROL

Control points were adequate and well placed. The bridge points were run at a scale of 1:30,000 and were held within tolerable limits.

33. SUPPLEMENTAL DATA

None used.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline on field prints 59-S-3941 and 59-S-3942 is very dark along some areas of mangrove. These areas could be clearly defined on the Kelsh and in mangrove areas do not agree with the field inspection.

Shoal lines were delineated from office interpretation of the black and white and the color photography.

COMPILATION RECORD

COMPLETION DATE

REMARKS

Shoreline and shoreline pass points compiles	March 1962	Superseded
Alongshore area revised from field edit. Manuscript Complete	Nov. 1962	<i>SUPERSEDED</i>
<i>ENSENADA HONOR SHORELINE, 3 FB, RANGE LT, REVISED FROM 1965 COLOR PHOTOS DURING FINAL REVIEW. SEE ITEM 61</i>	<i>OCT. 1967</i>	

36. OFFSHORE DETAILS

None.

37. LANDMARKS AND AIDS

Forms 567 for three nonfloating aids, one of which is also an aeronautical aid to navigation, are included with this report.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

A junction was made with T-12155 on the south and T-12156 on the east. T-12154 will be reduced to 1:10,000 and become the north-east quarter of T-12153. This map joins T-12152 (1:10,000) on the north but there is no shoreline to junction.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with the U. S. Navy Hydrographic Office topographic map "Naval Station - Roosevelt Roads", P.R., scale 1:4,800, compiled May 1959 from aerial photographs dated June 1958 through February 1959. The comparison is agreeable.

U. S. Geological Survey quadrangle NAGUABO, P.R. scale 1:20,000, compiled from 1949 aerial photographs ^{and revised in 1957} also was used for comparison. Considering scale differences, the comparison is good.

12.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS nautical chart No. 940, scale 1:25,000, edition of May 1949, revised April 1959; and chart No. 922, scale 1:10,000, edition of March 6, 1944, corrected to February 4, 1961. The comparison is in agreement with the following exception:

On chart No. 922 it is noted that offshore rocks are indicated at Latitude $18^{\circ}13'36''$, Longitude $65^{\circ}38'14''$. These rocks could not be verified on the photographs.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Russell J. Pate

Russell J. Pate
Carto Photo Aid

APPROVED AND FORWARDED

V. Ralph Sobieralski

V. Ralph Sobieralski
Tampa District Officer

ADDENDUM TO COMPILATION REPORT
T-12154

The 1965 color photographs 65-L-1330, 31, 32, 34, 35, and 36 revealed extensive changes in the shoreline of Ensenada Honda since the 1962 field edit. 1:5,000 ratio black and white prints of the appropriate photographs were used to revise the shoreline during final review.

May 29, 1968

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6106 (Puerto Rico)
T-12154

Ensenada Honda

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

It is requested that the hydrographic party locate a "point on range" for the Ensenada Honda Entrance Range to provide a check. It is noted that the range as scaled from the photogrammetric location of the Front and Rear Lights checks the charted bearing.

On chart No. 922, it is noted that offshore rocks are indicated at Latitude $18^{\circ}13'36''$, Longitude $65^{\circ}38'14''$; these rocks could not be verified on the photographs.

TO BE CHARTED
TO BE REMISED
TO BE BELIEVED

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO

Tampa, Florida March 15 1962

I recommend that the following objects which have ~~(4444/4444)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(4444/4444)~~ the charts indicated.

The positions given have been checked after listing by

R. J. Pato

V. Ralph Sobleralecki *Chief of Party*

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating* aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 27126

AERONAUTICAL

NONFLOATING AIDS ~~GRANTING MARKS~~ FOR CHARTS

TO BE CHARTED
TO BE REVISED
TO BE DELETED

STRIKE OUT TWO

Tampa, Florida

March 15 1962

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~the~~ the charts indicated.

The positions given have been checked after listing by

R. J. Pato

V. Ralph Sobieralski

Chief of Party.

[illegible]

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

FORM 182 (3-61)		PHOTOGRAMMETRIC OFFICE REVIEW		U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY	
50.		T. 12154			
1. PROJECTION AND GRIDS WHS		2. TITLE WHS		3. MANUSCRIPT NUMBERS WHS	
		4a. Classification Unclassified		4. MANUSCRIPT SIZE WHS	
CONTROL STATIONS	5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY WHS		6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (TOPOGRAPHIC STATIONS) XX		
	7. PHOTO HYDRO STATIONS XX	8. BENCH MARKS XX	9. PLOTTING OF SEXTANT FIXES XX	10. PHOTOGRAMMETRIC PLOT REPORT NEW.O. ()	
	11. DETAIL POINTS IIS				
ALONGSHORE AREAS (Nautical Chart Data)	12. SHORELINE WHS		13. LOW-WATER LINE WHS		14. ROCKS, SHOALS, ETC. WHS
	15. BRIDGES XX		16. AIDS TO NAVIGATION WHS		17. LANDMARKS XX
	18. OTHER ALONGSHORE PHYSICAL FEATURES WHS		19. OTHER ALONGSHORE CULTURAL FEATURES WHS		
PHYSICAL FEATURES	20. WATER FEATURES WHS		21. NATURAL GROUND COVER XX		
	22. PLANETABLE CONTOURS XX		23. STEREOSCOPIC INSTRUMENT CONTOURS XX		
	24. CONTOURS IN GENERAL XX		25. SPOT ELEVATIONS XX		
	26. OTHER PHYSICAL FEATURES WHS				
CULTURAL FEATURES	27. ROADS XX		28. BUILDINGS XX		29. RAILROADS XX
	30. OTHER CULTURAL FEATURES WHS				
BOUNDARIES	31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX		
MISCEL- LANEOUS	33. GEOGRAPHIC NAMES WHS			34. JUNCTIONS WHS	
	35. LEGIBILITY OF THE MANUSCRIPT WHS		36. DISCREPANCY OVERLAY XX		37. DESCRIPTIVE REPORT MMS
	38. FIELD INSPECTION PHOTOGRAPHS WHS		39. FORMS WHS		
	SIGNATURE OF REVIEWER William N. Shearouse William H. Shearouse		SIGNATURE OF SUPERVISOR FOR REVIEW SECTION OR UNIT M. M. Slavney		
40. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT - Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted in remarks on reverse side.					
SIGNATURE OF COMPILER Richard E. Smith Jr.			SIGNATURE OF SUPERVISOR M. M. Slavney		

FIELD EDIT NOTES
OPR 423-1962
USC&GS Ship EXPLORER

All field edit notes have been delineated on the mylar T-Sheets. In general, the only discrepancies found were differences in the delineation of the mean high water line along sand beaches. These discrepancies were resolved with distance measurements from the hydrographic signals to the mean high water line. The azimuth used was a perpendicular line from the mean high water line to the respective signal. Each T-Sheet is discussed separately below with a listing of the necessary photos.

T-12160 - Mean high water line revision in area of "BED" appears necessary. Rock height revisions necessary in the following areas: HER, LOG, FOX, AND DIX.
Photos - 59S3933, and 3932.

T-12158 - Mean high water line revision along entire beach line appears necessary.
Photos - 59S3931, 3930, 3929, and 3928.

T-12159 (2 copies) - Mean high water line revision in area of DUN to ABT. Rock height revisions in the following areas: HUG, GEO, and WIG.
Photos - 59S3927, 3926, and 61W1676.

T-12153 - Rock height revision in area of JIM.
Photos - 61W1678 and 1679.

T-12155 - Rock height revision in area of CUT.
Photos - 61W1559 and 61W1560.

T-12156 - Rock height revisions in the following areas: EVA (2), KIN, and GRX.
Photos - 61W1584 and 1585.

T-12154 - Pier revision at OIL.
Photos - None

T-12157 - None

All T-Sheets, since they contain final locations of hydrographic signals, must be returned to this command as soon as possible as they are needed to plot hydrographic smooth sheets.

Respectfully submitted:

10 September 1962

George F. Wirth
George F. Wirth
LT, C&GS

Forwarded Approved:

Edward L. Jones
Edward L. Jones
CAFI, C&GS
Comdg., Ship EXPLORER

REVIEW REPORT T-12154
SHORELINE
November 1967

61. GENERAL STATEMENT:

See Summary accompanying Descriptive Report (page 6).

Shoreline revisions were made to the map during Final Review, using October 1965 photographs 65-L-1330, 1335, and 1336. Extensive construction, dredging and filling were responsible for the changes. A new position for Ensenada Front Range Light was arrived at from photographs 65-L-1330, 1331, 1335, and 1336.

An ozalid Comparison Print showing the differences noted in Items 62 and 65 is enclosed with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No. 6873, 1:4,800, August 1941
No. 6877b, 1:4,800, October 1941
No. 6878, 1:4,800, October 1941

The shoreline from these registered surveys is shown on the Comparison print in blue.

Construction, dredging, and filling have changed much of the shoreline since these registered surveys were made.

This survey supersedes the previous registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Naguobo, P. R., U.S.G.S. quad. 1:20,000, 1943 *revised 1957*

Detailed comparison was not made because the quadrangle would require a 4x enlargement. The general comparison seems favorable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Boat Sheet EX-5-3-65A and B (H-8862), 1:5,000, 1965

The boat sheet shoreline is too faint and smudged for comparison.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 922, 1:10,000, 6th edition, October 11, 1965

The chart differences are on the Comparison Print in red.

The chart shows several pipes in the vicinity of latitude $18^{\circ} 14'.2$, longitude $65^{\circ} 37'.65$ that are not visible on the photographs.

The chart shows a wreck at latitude $18^{\circ} 14'.13$, longitude $65^{\circ} 37'.72$ not on this map. Photograph 65-L-1330 shows something in this area, but it is not possible to say positively whether it is a "boat" or a "wreck" from office interpretation.

The photographs show no discernible object near the "rock awash" on the chart at latitude $18^{\circ} 13'.97$, longitude $65^{\circ} 37'.57$.

The chart shows 5 piers protruding from a bulkhead at latitude $18^{\circ} 14'.22$, longitude $65^{\circ} 37'.61$, whereas this map shows the 7 piers visible on photograph 65-L-1330.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the project instructions, Bureau requirements, and the National Standards of Map Accuracy.

Reviewed by

M. M. Slavney
M. M. Slavney

Approved by

J. J. Tull
Norfolk Regional Officer

Approved by

Charles L. Hemen
Chief, Cartographic Branch *Photo-grammetric* *D-38.*

John A. Brown
Chief, Nautical Chart Division

J. Ralph Sobieralski
Chief, Photogrammetry Division
JUN 28 1968

Chief, Operations Division

TO BE EXCHANGED
TO BE REVISED
TO BE EXCHANGED

Atlantic Marine Center

October 31, 1967

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on ~~(22-20722-00000)~~ the charts indicated.

The positions given have been checked after listing by

M. M. Slavney

J. Bull. RADM USESSA

Director, AMC

This form shall be prepared in accordance with Hydrographic Manual, Publication 20-2, Sec. 1-55, 2-39, 6-36, 7-18 to 2-2 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

NOTES TO VERIFIER
T-12154 Project Ph-6106 (21042)
BOAT SHEET No. EX-5-3-65

None, See Item 65.

