13147

Form 504

U. S. DEPARTMENT OF COMMERCE
CDAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of SurveyS	horeline (Photogrammetric)
Field No.	Office No. T-13147
	LOCALITY
State	New Jersey
General locality	Barnegat Bay
Locality	Toms River (Pelican Island)
	1967
(CHIEF OF PARTY
J.Bull,RADM,Dir	ector Atlantic Marine Center
LIBR	ARY & ARCHIVES
DATE	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T _ 13147

<u></u>			
PROJECT NO. (II):			
PH-6713			
FIELD OFFICE (II):		CHIEF OF PARTY	
Ipswich, Massachusetts		J. K. Wilson	
PHOTOGRAMMETRIC OFFICE (III):		OFFICER-IN-CHARGE	
Atlantic Marine Center, Norfolk, Virgini	.a	J. Bull, RADM, I	Director, AMC
INSTRUCTIONS DATED (II) (III):		<u> </u>	
May 26, 1967 (FIELD)			
July 17, 1967 (OFFICE)			
August 10, 1967 (SPECIAL)			
METHOD OF COMPILATION (III):			
Wild B-8 Stereo-Plotter			
MANUSCRIPT SCALE (III):	STEREOSCO	OPIC PLOTTING INSTRUMEN	T SCALE (III):
	1.500	20	1 10 000
1:10,000 DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPO	00 pantographed to present to nautical chart	BRANCH (IV):
MAY 29, 1968			
APPLIED TO CHART NO.	DATE:	DATER	EGISTERED (IV):
GEOGRAPHIC DATUM (III):		VERTICAL DATUM (III):	MHW
		Elevations shown as (25) re	
N.A. 1927		Elevations shown as (5) refe	
		i.e., mean low water or acast	•
	·		
REFERENCE STATION (III):		<u> </u>	
_			
SEASIDE HEIGHTS, 1932		7	
LAT.: LONG.:	×	X ADJUSTED	
39° 56' 36.4004"(1122.7m) 74° 04' 42.2219"	(1002.4m)	UNADJUSTED	
PLANE COORDINATES (IV):		STATE	ZONE
Y= 0			*
×= 2,164,948.58 f	t. /	New Jersey	
ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTER	RED BY (11) F	TELD PARTY, (III) PHOTOGR	AMMETRIC OFFICE,
OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE T	HE SURNAME	AND INITIALS, NOT INITIAL	5 ONLY.

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): E. W. Hartford DATE:

June 28, 1967 July 5, 1967

P. B. Walbolt

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Air Photo Compilation
Date of Photography - April 1957 1967

FIELD INSPECTION - 1967

PROJECTION AND GRIDS RULED BY (IV):		DATE
A. E. Roundtree		May 5, 1967
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
L. F. Van Scoy		May 10, 1967
CONTROL PLOTTED BY (III):		DATE
A. Shands		
L. Neterer, Jr.		Aug. 7, 1967
CONTROL CHECKED BY (III):		DATE
L. Neterer, Jr. A. Shands		Aug. 8, 1967
A. Shands		Aug. 0, 1907
RADIAL PLOT OR STEREOSCOPIC CONTROL EXT	ENSION BY (III):	DATE
		Aug. 2, 1967
R. B. Kelly		
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	A. Shands	Aug. 7, 1967
	CONTOURS	DATE
	Inapplicable	
MANUSCRIPT DELINEATED BY (III):		DATE
A. L. Shands		Aug. 14, 1967
SCRIBING BY (III):		DATE
F. P. Margiotta		Sept. 1, 1967
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE
D P Cmith & C H Bishen		November 1967
R. E. Smith & C. H. Bishop		HOVEMBEL 1907

REMARKS:

Some "Field Completion Notes" on an ozalid and on a film print, were submitted by Hydro Pathy 745, G.M. Ward; and me Oct. 1867 see pages 21:22

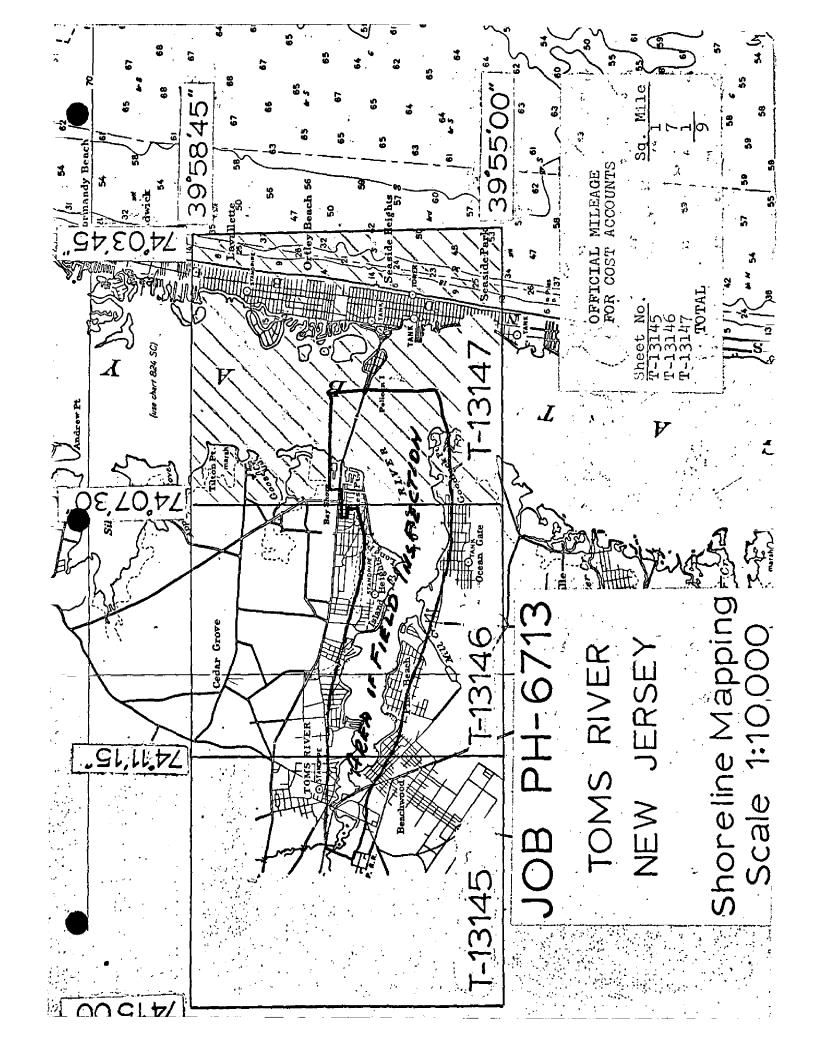
DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

WILD USCAGS TYPE "L"

	РНОТ	OGRAPHS (III)				
NUMBER	DATE	TIME	SCALE	S'	TAGE OF TI	DE *
67L-1749R thru 1751R	April 25,1967	1159	1:30,000	0 571	above MI	T.7 4 4
57L(c)-1490 thru 1493	April 21,1967	0952			Control of the last of the las	
		District Land of the Control of the	1:15,000		above M	
7L(c)-1733 thru 1735	April 25,1967	1144	1:30,000	Section 19 Section 2 Section 19 Section 2	above M	
7L(c)-1482	April 21,1967	0944	1:15,000	0.54	above M	_W
		**	ATMLW on	OCEAN.	SHOREL	INE
		1 1	THE ABOU	E ARE E	OR BAR	VEGAT !
						,
		***	- 0.5 ABOVE N	DYW, 01	OCEA	WZ.
	* PREDICTED	TIDE (III)	1			
	/ FREDICIED	TIDE (III)			65	
				RATIO OF RANGES	MEAN RANGE	SPRING
REFERENCE STATION:	SANDY HOOK, 1	NEW TERSEY		0.11	4.5	5.6
	Distribe moone, a	MIN OBROBE		0.11	7.5	3.0
SUBORDINATE STATION:	COATES POINT	CHICHWAY B	RIDGE)	0.11	0.5	0.6
	COMING LOAM	(III OII WILL D	22001)	0.11	0.5	0.0
SUBORDINATE STATION:					4.2	5.1
Atlantic Marine Center	91.5.	01		DATE:		-
WASHINGTON OFFICE REVIEW BY	IV): M. M	Slave	14	700	ey 19	68
PROOF EDIT BY (IV):			1	DATE:	1	
A CONTRACTOR OF THE STATE OF TH						
			RECOVERED:	IDENTIFIE	D:	
NUMBER OF TRIANGULATION STAT	TIONS SEARCHED FOR (I	6	6		3	
NUMBER OF BM(S) SEARCHED FOR	(m) e		RECOVERED:	IDENTIFIE	D	
TOMBER OF BM(3) SEARCHED FOR	1117.	0	0		0	
NUMBER OF RECOVERABLE PHOTO	O STATIONS ESTABLISHE					
NOMBER OF RECOVERABLE PROT	O STATIONS ESTABLISHE	-D (III).	none			
NUMBER OF TEMPORARY PHOTO H	VDDO STATIONS ESTAD	LIEUED (III)				

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation Complete pending Field Edit	August 1967	Superseded
Corrections made from Hydro. Party	November 1967	Superseded
Final Keview	May 1968	
	P	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-13147

Shoreline manuscript T-13147 is one of three 1:10,000 scale maps that comprise Ph-6713, Toms River, New Jersey. The sketch on page 5 of this report shows the position of this manuscript in the project.

Ph-6713 is a stereo-instrument project in advance of hydrographic surveys of the area. Compilation was by Kelsh Plotter using the same 1:30,000 scale diapositives (67-L-1749 through 1751) of the April 25, 1967 infra-red photographs that were used for the stereoplanigraph bridge. Ratio black and white prints of the April 25, 1967 1:30,000 scale color photographs, 67-L(c)-1733 and 1735 were used for reference during compilation, and were processed for hydrographic support. It is noted that the centers of only these processed photographs, 67-L(c)-1733 and 1734, appear on the manuscript; the centers of 67-L-1749 through 1751 are not shown. Color ratio prints of the 1:15,000 scale photography of April 21, 1967, (67-L(c)-1481, 1482, and 1490 through 1494 were also furnished the compiler, and later proved very useful in final review.

Field work before compilation consisted of control identification on 1:30,000 scale contact color transparencies, (flight 67-L(c)-1733 through 1738), during June 1967, and field inspection in June and July of 1967 on 1:15,000 scale contact color prints 67-L(c)-1492 and 1493. The Washington Office set the eastern limits of field inspection at about longitude 74° 05.8°.

In accordance with AMENDED INSTRUCTIONS - SPECIAL PROJECT AMC-12-67 of August 18, 1967, see pages 21 and 22 of this report, field edit was not done. The hydrographer did fully answer the compiler's questions on the ozalid and the cronaflex "Field Information Prints" during August and September 1967. Three point fixes were furnished for the aids to navigation, and landmarks were identified east of the original field inspection limits.

Final review was done in May 1968 at the Atlantic Marine Center.

* WILD B-8

FIELD INSPECTION REPORT JOB PH-6713 MAPS T-13145, T-13146, T-13147

This report is submitted for three maps, since there are no areas requireing special treatment.

2. AREAL FIELD INSPECTION

The area lies along the North and South shores of Toms River, extending to the East across Barnegat Bay to Ortley Beach and Seaside Heights, and to the West to the Garden State Parkway.

The area of field inspection is the immediate shore line of Toms River from the mouth westward to the Garden State Parkway (Instructions dated 26 May 1956). 1967

This area is extensively developed, and is accessible by truck.

Field inspection is complete; no part being ommitted or left for field edit.

Photographic quality is very good. Photographs were taken in April 1967.

Photographs used for field inspection are listed below Maps:

T-13145	T-13146		T-13147
67-L-1476	67-L-1477		67-L-1492
	1494	4. F	1493
	1495 1496		
	1497		

3. HORIZONTAL CONTROL

Horizontal control recovery has been completed in accordance with project instructions.

The identification of horizontal control was accomplished during period June 22, 1967, through June 28, 1967.

The control was identified on color transparencies of 1:30,000 scale.

4. VERTICAL CONTROL

None.

5. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage is composed of small streams, and drains with a very few swamp and marsh areas.

6. WOODLAND COVER

Woodland cover was classed in accordance with the Topographic Manual.

7. SHORELINE AND ALONGSHORE FEATURES

The high-water and apparent shoreline have been indicated on the photographs by symbol.

The field inspection was accomplished by visual inspection from skiff.

The high-water line is clearly visible on the photographs by bulkheads and the change in color tone on the sand beaches, which is from a redish color to a white color, and is shown by the inspector in several places on the photographs.

Special attention is invited to a small area just West of Island Heights; this shore line has been filled for a new beach since photography. Measurements were taken at this area to the high-water line, and are shown on Photograph 67-L-1496.

8. OFFSHORE FEATURES

This phase was checked, and adequate field inspection noteswere made on the photographs.

9. LANDMARKS AND AIDS

Non-floating aids to navigation were verified as to existence and correct number. These aids are identified on photograph 67-L-1492, and located in Map T-13147.

There are six private aids in Toms River; these are single pile structures about 10 feet above the water with a light at the top, and are maintained by the state. The channel is also marked by bouys. These and the lights are seasonal (Junel to September 1). Five aids are identified on Photographs 67-L-1476, 1477, and 1494. One was located by sextant fix, and submitted on form 274.

All landmark buildings recommended for charting are circled on the photographs.

Two landmark bluffs are noted on photographs 67-L-1496 and 1497.

Nautical landmarks outside the field inspection area were visualy inspected, and are to be carried forward. Forms 567 are submitted for one deletion, and four (4) to be charted. There were no Nautical Landmarks in the area of field inspection.

- 10. BOUNDARIES, MONUMENTS AND LINES
 Inapplicable.
- 11. OTHER CONTROL

12. OTHER INTERIOR FEATURES

Three submerged cable shore ends were identified on the photographs: Two on photo 67-L-1476, and one on photo 67-L-1493.

13. GEOGRAPHIC NAMES

None.

page 10

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None.

7 July 1967 Submitted by:

P. W. Hartford

E. W. Hartford Chief, sub-unit, Photo Party 62

PHOTOGRAMMETRIC PLOT REPORT Job PH-6713 Toms River, New Jersey

August 2, 1967

21. Area Covered

The area covered extends along Toms River from the city of Toms River, New Jersey, to the city of Seaside Heights, New Jersey. Included in the area are T-sheets, T-13145 thru T-13147, all at 1:10,000 scale.

· 22. Method

One strip of infrared photography (67-L-1746R thru 1751R) was bridged on the C-8 stereoplanigraph to provide passpoints for B-8 compilation and ratio points for low-altitude, color photography. Five horizontal control stations were used in the IBM bridge adjustment with the companion points and one other station used as checks.

23. Adequacy of Control

The horizontal control provided complied with job instructions and was adequate in quality and quantity. All control held within National Map Accuracy Standards with the exception of ISLAND HEIGHTS STANDPIPE, 1932 "SS". This point was identified on color photography and could not be clearly identified on the infrared photography.

24. Supplemental Data

Local USGS quads and sea level datum were used to rough control elevation during bridging operations.

25. Photography

The infrared photography used for bridging was adequate in coverage, overlap and definition.

Approved by

John D. Perrow, J

Submitted by

Robert B. Kellv



DESCRIPTIVE REPORT CONTROL RECORD

FORM C&GS-164 (3-64) USCOMM-DC 6659-P64

MAP T. 1314/ PROJECT NO.	NO. FH-0/13	SCA	SCALE OF MAP 1:10,000 SCA	SCALE FACTOR None	
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR V.COORDUNARE LONGITUDE OR X.COORDUNATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Pt. = 3048006 meter) FORWARD (BACK)	A PECTION LINE Mefer) (BACK)
	G. P.	N. A.	39 65 45.137"		7 (4.88.4)
WRIGHTS LIGHT, CUPOLA, 1935	Vol. 1 pg. 414	1927	74 07 25,600	607.9	(816.9) ~
· II	G. P.		39 56 43,9987	1357.0 (4	(493.5)
BARNE, 1962	Vol.11 pg. 177	=	74 06 04,6606	110.6	(1313,8) ~
	G. P.		39 56 36.957	1139.8	7 57 012
SEASIDE HEIGHTS, WATER TANK, 1962	- Vol.II pg. 193	н	74 04 44,488	1056.1	(368.4)
	 		39 56 36,4004		
SEASIDE HEIGHTS, 1932	Vol. II pg. 178	н	74 04 42,2219	1002.4 /	(422.1)
	G. P.		39 58 07.114	219.4 ~ (10	7 (1,1631.)
LAVALLETTE STANDPIPE, 1926	Vol. 1 pg. 398	**	74 04 18.747	7 6.444	(1.676)
	G. P.		39 56 06,577	202.8	(1647.7)
SEASIDE PARK, NEW WATER TANK, 1962	Vol. II pg.194	:	74 04 43,169 /	`	•
			٠		
					' '
,					
					,
COMPUTED BY A. G. Rauck, Jr.	DATE August 8, 1967	25	CHECKED BY C. H. Bishop	DATE August 10, 1967	13.

COMPILATION REPORT T-13147 Job PH-6713

31. DELINEATION:

The Wild B-8 was used.

Photography and field inspection were adequate.

32. CONTROL:

See Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA:

None

34. CONTOURS AND DRAINAGE:

Contours are inapplicable.

Drainage was delineated from office interpretation of the photographs with the aid of field inspection.

35. SHORELINE AND ALONGSHORE DETAILS:

The shoreline inspection was adequate.

No low water line was shown.

36. OFFSHORE DETAILS:

No statement.

37. LANDMARKS AND AIDS:

Form 567 for seven Landmarks and fifteen Aids have been submitted to the Washington Office under date of November 16, 1967.

38. CONTROL FOR FUTURE SURVEYS:

Refer to Item 49.

39. JUNCTIONS:

There are no contemporary surveys to the north, south or east. Junction is in agreement to the west.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

Comparison has been made with USGS Quadrangle SEASIDE PARK, N.J., scale 1:24,000, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

Comparison has been made with Nautical Chart No. 824-SC, scale 1:40,000, 5th Edition, dated January 1967.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

ITEMS TO BE CARRIED FORWARD:

None

Submitted by:

R. E. Smith Cartographer

Approved and forwarded by:

Bull, RADM, USESSA

Director, Atlantic Marine Center

GEOGRAPHIC NAMES FINAL NAME SHEET PH-6713 (Toms River, N. J.)

'Atlantic Ocean

' Barnegat Bay

Bay Shore

Coates Point

Gilford Park

Goodluck Point

* Goose Creek

Intracoastal Waterway

* Lavallette

* * Ocean Gate

* Not used, feature is outside compilation limits.

T-13147

* * Not used, only a 50 meter slice of the borough falls on T-13147;

Approved by:

A. Joseph Wraight Chief Geographer

Ortley Beach

Pelican Island

Seaside Heights

/Seaside Park

* Shelter Gove

Thomas A. Mathis Bridge

* Tilton Point

Toms River

* West Point Island

Prepared by:

Cartographic Technician

49. NOTES FOR THE HYDROGRAPHER

The following is a list of office selected photo-hydro stations:

Number	Descriptio n
4701	S.E. Corner of bulkhead, N. of Slip.
4702	S.E. Corner of BRIDGE ABUTMENT.
4703	S.E. Corner of bulkhead.
4704	Corner of bulkhead.
4705	Center of westerly tower at Bridge span.
4706	N.W. Corner of pier.
4707	Corner of bulkhead.
4708	Corner of bulkhead
4709	End of North pier of 2
4710	S. Radio Mast
4711	N. Radio Mast.

Verify and submit Form 567 for the following Daybeacons: 45, 46, 47, 48, and Lights 2, 3, 43, and 51.

Locate and submit Form 567 for the following: Daybeacon - 49; and Light - 50.

There are no recoverable Topographic Stations within this survey.

Refer to ozalid for notes pertaining to Landmarks.

C&GS FORM 1002			u.	S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY
	РНО	TOGRAMMET	RIC OFFICE REVIEW	
		· T-	16366x 13147	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
·				
СНВ	CH	В	СНВ	СНВ
CONTROL STATIONS				
5. HORIZONT AL CONTROL STA THIRD-ORDER OR HIGHER A	ATIONS OF ACCURACY	6. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY c stations)	7. PHOTO HYDRO STATIONS
СНВ			RES	XX ·
8. BENCH MARKS	9. PLOTTING OF	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
XX	RE	S	Bridge (W.O.)	Wild B-8
ALONGSHORE AREAS (Nautical	Chart Data)		-	
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
снв	XX		XX	СНВ
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RES	RE	S	XX	RES
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
RES			СНВ	XX
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
XX	xx		XX	СНВ "
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS	;	29. RAILROADS	30. OTHER CULTURAL FEATURES
СНВ	CH	В	XX	RES
BOUNDARIES				
31. BOUNDARY LINES			32. PUBLIC LAND LINES	
XX			1 84	
MISCELLANEOUS AND 33. GEOGRAPHIC NAMES	, , , , , , , , , , , , , , , , , , , ,	34. JUNCTION	<u> </u>	35. LEGIBILITY OF THE
			•	MANUSCRIPT
RES			СНВ	RES
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
XX	RE	S	СНВ	RES
Charles Hisishop	DED:	tl –	Supervisor, REVIEW SECTION	Pauch. In
C. H. Bishop &	R. E. Smit	h	A. C. Rauck, J	
41. REMARKS (See attached shee	ot)			
FIELD COMPLETION ADDITION	S AND CORRECT	TIONS TO THE M	AANUSCRIPT	
42. Additions and corrections script is now complete exc			ion survey have been applied t	o the manuscript. The manu-
COMPILER			SUPERVISOR POL 1	N P. 60
J. E. Fmill			A C Panck To	C. Rauck.Jr.
43. REMARKS			A. O. Rauch, O	· ·

Hydro. Party corrections made from Field Information Ozalid, cronaflex copy of sheet, and Ratio photo. No. 67-L-1734 (Office).

U.S. DEPARTMENT OF COMMERCE IC SURVEY

COAST AND GEO

C&GS FORM

MONFEGGATING MIDS OR LANDMARKS FOR CHARTS

STRIKE OUT TWO TO BE CHARTED STOCKER SENERAL STOCKER STOCKER

Atlantic Marine Center

November 14 1967

I recommend that the following objects which have (karexistal) been inspected from seaward to determine their value as landmarks be charted on (Actored: yrom) the charts indicated.

Director, AMC

USESSA E. Smith The positions given have been checked after listing by

							Ø Dir	Director,	Director, AMC	: 1	Calef of Party.
STATE					POSITION			МЕТНОВ	<u> </u>	THA	
	NEW JERSEY		5	LATITUDE	LONG	LONGITUDE		LOCATION		H2 40	CHARTS
CHARTING	DESCRIPTION	BIGNAL	, .	D. M. METERS		D. P. METERS	DATUM	BURYEY No.	LOCATION	HYSHO HYSHO	
	LAVALLETTE										
STANDEIPE	1 1		39 58	411.70	74 04	18.747.	N.A. 1927	Triang. T-13147	Verifi. 8/30/67	×	824-SC 1216
TANK	(Seaside Heights Water Tank 1962) steel ht.= 133 (138)		39 56	39.957 / 1139.8 /	74 04	1056.1	N.A. 1927	Triang. T-13147	Verifi. 8/30/67	×	824-SC 1216
TOWER				13,48 .	74 04	411	N.A. 1927	Photo. T-13147	19/08/8	×	824-SC 1216
SPIRE	The Union Church of Seaside Heights ht.= 60 (65)			54.28 ×		27.89 V 662 A	N.A. 1927	Photo. T-13147		×	824-5C 1216
	SEASIDE PARK										,
TANK	(Seaside Park New Water Tank 1962) steel ht.= 130 (134)		39 56	06.577 × 202,8 ×	74 04	43.169 / 1025.0 /	N.A. 1927	Triang. T-13147	Verifi. 8/30/67	_ ×	824-SC 1216
	GOODLUCK POINT										-
RADIO	Ocean Gate AT&T Marine Radio N.		30 02	29.41 /	771 0.6	29.39	N.A.	Photo.	Photo.	× ×	824-SC
RADIO '	Ocean Gate AT&T Marine Radio S.		30 55	25.48	74 06	29.14	N.A. 1927	T-13147	Thoto.	×	824-SC
			1								

USCOMM.DC 16234.P61 This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted The data should be landmarks and nonticeting aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

U.S. DEPARTMENT OF COMMERCE DETIC SURVEY

Page 1 of

COAST AND

NONFLOATING AIDS XORXXXANDMAXRKS FOR CHARTS

STRIKE OUT TWO ka Bendekener TO BE CHARTED NO BEXREPISED

Atlantic Marine Center

November 14, 19.67

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

The positions given have been checked after listing by

Chief of Party. J. Bull, RADM, USESSA Director, AMC R. E. Smith

SIGNAL OF A SAME SAME SAME SAME SAME SAME SAME SA	0 1/2 / 7/1 0 1/2 / 7/1 0 1/2 0 1/2 0	LONGITUDE * DATUM 9.P. METERS 02.06 N.A.	LOCATION AND AND BURVEY No.	DATE OF THE PROPERCY CHESTON C	CHARTS
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i I i i	72 77	02.06 N.A.			
1 1	7 7 7	02.06 N.A.	-		
1	7 7 7	02.06 N.A.			
ľ	# #		Photo.	8/30/67 x	824-SC
	7	137 1927	1	8/30/67 x	824-SC
6	5	327 (1.A.		8/30/67	824-SC
1	1235 174 06	퀻		x /30/67	824-SC
79. Or	1 1	1.1.	-	×	824-SC
39 56	1 7		 	x /30/67	824-SC
	0.5	13		X /30/67	824SC
39 56	1 1	60		ļ	824-SC
1	17.	1 1		x 29/08/8	824-SC
39 55	61 . 74	27 .		x 29/06/8	824-SC 1215
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted The data should be landmarks and nonfloating alds to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. considered for the charts of the area and not by individual field survey sheers. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

9. 194-46291 DO-MMODEN

Page 2 of

U.S. DEPARTMENT OF COMMERCE SURVEY COAST AND GEODI

NONFLOATING AIDS ORNAMANDMARKS FOR CHARTS

Atlantic Maring Conter

I recommend that the following objects which have (natexnox) been inspected from seaward to determine their value as landmarks be The positions given have been checked after listing by

charted on salasted strong the charts indicated.

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KO BENDENETED TO BE CHARTED TO BE REWISED

C&GS FORM S

				P(POSITION					TH	TII 41
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USCOMM-DC 16234-P61 The lata should be This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 3-55, 6-56, 7-18 to 22 inclusive, and Fig. 79. Parising of chanted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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



U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY Atlantic Marine Center 439 West York Street Norfolk, Virginia 23510

18 August 1967

Officer in Charge Hydrographic Field Party 745

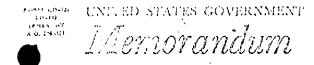
AMCENDED INSTRUCTIONS -- SPECIAL PROJECT AMC-12-67 -- INVESTI-GATIONS OF CHART DEFICIENCIES -- COAST OF NEW JERSEY

- 1. A photogrammetrist will not be assigned to provide photohydro support for hydrography in Toms River.
- 2. Office identified points have been picked to supplement existing pass points, land marks and triangulation. Each office identified point has been numbered and a description of each point will be furnished.
- 3. Field edit of the Toms River manuscripts will not be required. Notes to the hydrographer listing additional information required for compilation will be furnished.
- 4. A strong sextant fix with check angle will be acceptable for location of the fixed aids in lieu of location by triangulation.
- 5. Forward field notes and Form 567s for the Toms River manuscripus to Chief, Photogrammetric Processing Branch, Atlantic Marine Center.
- Receipt of these ammended instructions shall be acknowledged.

Bull

Director

Atlantic Marine Center



U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SURVICES ADMINISTRATION COAST AND GEOSCIEC SURVEY

In reply refer to:

TO Diroctor DATE: 30 October 1967

Atlantic Marine Center

Chief, Photogrammetric Processing Branch

FROM : Officer-In-Charge \

Hydrographic Field Party 745

SUBJECT: ST-MIC-12-57 - Investigation of Chart Deficiencies, Coast of New Jersey -- Additional Field Information for Compilation Ph-6713 - Vicinity of Toms River

> Pursuant to Ammended Instructions for SP-AMC-12-67 dated 18 August 1967, additional field information was obtained - for compilation of sheets T-13145, -6, & -7 during the period August - October 1967. The majority of the work being done on 30 & 31 August 1967.

Sextent positions with check angles using triangulation or photo points were obtained for all aids not compiled in the project area. All aids and landmarks on T-13147 were additionally checked by a planetable cut from BARKE, 1982. A two-position theodelite cut was obtained as a check for the Ocean Gate Water Tank which was located by the party with two photo cuts on T-13146.

A few of the more important details remaining to be compiled were noted, however a thorough edit was in no way undertaken.

> Gérald M. Ward LT - USESSA

Enclosures As per Form 413



REVIEW REPORT T-13147 SHORELINE May, 1968

61. GENERAL STATEMENT:

See Summary on page 6 of this Descriptive Report.

The eastern half of T-13147 was compiled from office interpretation only, although the hydrographer did provide fixes for aids to navigation, and give heights and elevations for most of the landmarks in the eastern half (on the ozalid "Field Information Print"). The "limits of field inspection and compilation" indicated by the Washington Office on a quadrangle are shown in green on the project sketch, which is page 5 of this report.

An ozalid Comparison Print (pages 27 through 30) which shows the differences noted in Items 62 and 65 is included with the original of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

T-9828ⁿ/2;1:10,000;Aug.1952;Field edit June 1953;Final Review June 1954 T-9828^s/2;1:10,000;Aug.1952;Field edit June 1953;Final Review June 1954

The registered surveys are in fairly good agreement with T-13147 with the major differences obviously from construction etc. The differences are on the Comparison Print in blue.

The landmark at Lat. 39° 56.1', Long. 74° 04.33', on T-9828^S/2 was dismantled in late Feb. 1963, see Form 567 (page 26).

The two radio masts shown as landmarks near Lat. 39° 55.45°, Long. 74° 06.48° have slightly different (about 12 meters) positions, heights, and elevations:

148 (149) on T-13147, 144 (146) on T-9828⁸/2 157 (158) on T-13147, 144 (146) on T-9828⁸/2

The eastern half of T-13147, compiled without field inspection, reveals the largest differences with the registered surveys:

The Atlantic Ocean shoreline has shifted in some areas as much as 50 meters (near Lat. 39 56.71).

Filling, bulkheading, and other types of construction are responsible for extensive changes in the eastern shoreline of Barnegat Bay.

The landmark, TOWER 1967, at Lat. 39° 56.22', Long. 74° 04.29' was corroborated by the hydrographer, but no elevation and/or height was furnished. The height was not observed during stereo-instrument compilation.

* Form 567 Page 18

There are several new aids to navigation on T-13147, and new positions

of those mapped on T-9828ⁿ/2 and ^s/2.

T-13147 supersedes the previously registered surveys for nautical chart construction.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

SEASIDE PARK, N.J.: U.S.G.S. quadrangle; 1:24,000; 1953

This quadrangle is a reduction of the U.S.C.& G.S. topographic surveys T-9828 $^{n}/2$ and $^{s}/2$, see Item 62. The same differences therefore exist with T-13147 except the quadrangle omits the height and elevations of the radio masts.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A "Chart Investigation Smooth Sheet" for Special Project AMC-12-67 (see pages 21 and 22), is being prepared by Hydrographic Party #745 for transmittal to Washington in May 1968. Hydro Party #745 is using a print of the Final Reviewed Manuscript of T-13147 for shoreline information.

65. COMPARISON WITH NAUTICAL CHARTS:

Chart 824 S.C.; 1:40,000; 6th edition, Jan. 1968, corrected through Notice to Mariners #52 of Dec. 30, 1967.

The Comparison Print shows the chart differences with T-13147 in red.

The landmark "TOWER" on the chart at Lat. 39 56.11, Long. 74 04.331 was dismantled in late Feb. 1963, see Form 567 (page 26).

Considering the 4X enlargement required, the positions of the aids to navigation check quite well with T-13147.

The chart shows differences in piers and shoreline with some rather large at:

Lat. 39° 56.55', Long. 74° 04.2'
Lat. 39° 56.95', Long. 74° 06.8'
Lat. 39° 55.85', Long. 74° 05'
Lat. 39° 55.3', Long. 74° 04.95'
Lat. 39° 56.Z', Long. 74° 04.3'

The chart shows a sunken wreck at Lat. 39° 55.22', Long. 74° 05.02', which falls outside the limits of field inspection, and is not on T-13147. It is not visible on photographs 67-L(c)-1484, 1485, or 67-L-1733, 1734.

The chart also shows a cable area in the area of Lat. 39° 55', Long. 74° 06', also outside field inspection limits, and not on T-13147. The photographs gave no sign of it.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with the Bureau requirements and the National Standards of Map Accuracy. The eastern half of the map and the area south of 39° 55.6° were compiled without field inspection, but they too meet the requirements and standards. No accuracy tests were run in the field.

Reviewed by:

M. M. Slavney

Approved by:

J./Bull, RADM, USESSA Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetry Section

Chief, Nautical Chart Division

JUN 2 7 1968

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE ENVIRONMENTAL SCIENCE

FORM C&GS-567

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COAST AND G THE SURVEY	R LANDMARKS FOR CHAR
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		٠	Ä.	M. M. Slavney	me y/		100 Bi	. Bull, rector,	For J. Bull, RADM, USESSA Director, A.M.C. O	ESSA	A Chief of Party.
STATE				N-G	POSITION			METHOD			
	NEW JERSEY		EA2	LATITUDES	LONG	LONGITUDE		LOCATION		HD 38	CHARTS
CHARTING	DESCRIPTION	BIGNAL		" D.M.METERS	-	D.P. METERS	DATUM	GURVEY No.	LOCATION	045H	AFFECTED
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USCOMM-DC 36485-PER This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted The data should be landmarks and nontionting olds to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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

NOTES TO VERIFIER T-13147, Job Ph-6713

"CHART INVESTIGATION SMOOTH SHEET for Special Project AMC-12-67"

Should be in agreement with 13147, see Item 64 (page $\mathbb{Z}4$) of the Descriptive Report.

