

TP-00758

ORIGINAL

TP-00758

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey .... Chart Compilation .....

Job No. CM-7301 ..... Map No. TP-00758 .....

Classification No. III ..... Edition No. 1 .....

### LOCALITY

State ..... New Jersey .....

General Locality .. Monmouth County .....

Locality .... Sandy Hook Bay .....

19 74 TO 19 75

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Rockville, Maryland OFFICER-IN-CHARGE Commander James Collins		SURVEY TP. <u>00758</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>CM-7301</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Rockville, Maryland OFFICER-IN-CHARGE Commander James Collins		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Instructions-AEROTRIANGULATION-3/27/75 Instructions-OFFICE-8/7/75		Instructions-FIELD-1/23/74 Instructions-FIELD-Amendment I-2/27/74 Instructions-FIELD-Amendment II-8/12/74 Instructions-FIELD-Supplement I-4/16/75 Instructions-FIELD-Supplement II-10/6/75	
<b>II. DATUMS</b>			
<b>1. HORIZONTAL:</b> <input checked="" type="checkbox"/> 1927 NORTH-AMERICAN		OTHER (Specify)	
<b>2. VERTICAL:</b> <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) National Geodetic Vertical Datum of 1929	
<b>3. MAP PROJECTION</b> Transverse Mercator		<b>4. GRID(S)</b> STATE New York ZONE East	
<b>5. SCALE</b> 1:10,000		STATE _____ ZONE _____	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
<b>OPERATIONS</b>		<b>NAME</b>	<b>DATE</b>
<b>1. AEROTRIANGULATION</b> METHOD: <u>Analytic</u>		BY <u>I. Raborn</u>	<u>8/75</u>
LANDMARKS AND AIDS BY		<u>N/A</u>	
<b>2. CONTROL AND BRIDGE POINTS</b> METHOD: <u>Coradomat</u>		PLOTTED BY <u>S. Solbeck</u>	<u>9/75</u>
CHECKED BY		<u>N/A</u>	
<b>3. STEREOSCOPIC INSTRUMENT</b> COMPILATION		PLANIMETRY BY <u>J. Schad</u>	<u>9/22/75</u>
INSTRUMENT: <u>Wild B-8</u>		CHECKED BY <u>G. Fromm</u>	<u>9/22/75</u>
SCALE: <u>1:15,000</u>		CONTOURS BY <u>N/A</u>	
CHECKED BY <u>N/A</u>			
<b>4. MANUSCRIPT DELINEATION</b>		PLANIMETRY BY <u>J. Schad</u>	<u>12/15/75</u>
METHOD: <u>Smooth Drafting</u>		CHECKED BY <u>G. Fromm</u>	<u>12/29/75</u>
SCALE: <u>1:10,000</u>		CONTOURS BY <u>N/A</u>	
HYDRO SUPPORT DATA BY <u>N/A</u>			
CHECKED BY <u>N/A</u>			
<b>5. OFFICE INSPECTION PRIOR TO FIELD EDIT</b>		BY <u>G. Fromm</u>	<u>10/14/76</u>
<b>6. APPLICATION OF FIELD EDIT DATA</b>		BY <u>N/A</u>	
CHECKED BY <u>N/A</u>			
<b>7. COMPILATION SECTION REVIEW</b>		BY <u>G. Fromm</u>	<u>10/14/76</u>
<b>8. FINAL REVIEW</b>		BY <u>E. L. Rolle</u>	<u>Jan. 1978</u>
<b>9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH</b>		BY <u>N/A</u>	
<b>10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH</b>		BY <u>E. L. Rolle</u>	<u>Jan. 1978</u>
<b>11. MAP REGISTERED - COASTAL SURVEY SECTION</b>		BY <u>R.T. Cator</u>	<u>May 1978</u>

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TP-00758

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8(E) & RC-10(B) focal lengths- 152.7mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) <u>COLOR</u> (P) PANCHROMATIC (I) <u>INFRARED B+W</u>		ZONE	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	<input type="checkbox"/> DAYLIGHT
				Eastern	75th
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74E(C)6963-6965	10/17/74	1427-1430	1:30,000	* -4.63 Ft. MHW	
74E(C)7168-7169	10/19/74	1252-1255	1:30,000	* -1.47 Ft. MHW	
74E(C)7201-7202	10/19/74	1335-1337	1:30,000	* -2.41 Ft. MHW	
75B6964R-6967R (I)	11/1/75	1121-1125	1:30,000	Refer to the following page for tide information	
75B6982R-6986R (I)	11/1/75	1148-1152	1:30,000		

## REMARKS

All the above photography was ratioed to 1:10,000

\* Computation from Predicted Tide Tables.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The source is the ~~natural color~~ photography listed under item 1. Refer to paragraph 35 of the compilation report bound with this job.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source was ratioed prints of the B&amp;W tide-coordinated infrared photography listed under item 1.

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

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

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00752	TP-00759	TP-00760	TP-00757

## REMARKS

NOAA FORM 76-36B(1)  
(7-75)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTIDE - COORDINATED PHOTOGRAPHY  
TP - 00758

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
75B6964R-6967R (Sandy Hook Bay)	SANDY HOOK (Reference Sta.)	In feet	In feet 4.6
75B6982R-6986R (Sandy Hook Bay)	Atlantic Highlands (Sub. Sta.)	-0.20 MLW	4.7
	Port Monmouth (Sub. Sta.)	-0.20 MLW	4.8
NOTE: The reference station(s) ONLY were observed at time of photography.			

## REMARKS:

Water penetration exists on the infrared photography. Refer to paragraph 35 of the compilation bound with this ~~job~~ *Descriptive Report*.

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TP-00758

## HISTORY OF FIELD OPERATIONS

1. ☒ FIELD ~~INSPECTION~~ OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	8/74
2. HORIZONTAL CONTROL	RECOVERED BY R. S. Tibbetts	8/23/74
	ESTABLISHED BY N/A	
	PRE-MARKED OR IDENTIFIED BY R. S. Tibbetts	8/23/74
3. VERTICAL CONTROL	RECOVERED BY N/A	
	ESTABLISHED BY N/A	
	PRE-MARKED OR IDENTIFIED BY N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A	
	LOCATED (Field Methods) BY N/A	
	IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	N/A
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	N/A
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N/A

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Premarked control

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
74E(C) 6839 and 74E(C) 6963	B. C. Peck (USCA) 1940		

3. PHOTO NUMBERS (Clarification of details)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 C&amp;GS form 152 (Control Station Identification)

NOAA FORM 76-36C  
(3-72)

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## RECORD OF SURVEY USE

TP-00758

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	10/14/76	Class III map Field Edit postponed	10/19/76	
Final review prior to registration.	Jan. 1978	Class III Map.	May 1978	

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
4		Oct. 1977	Digitized Forms 76-40 were submitted as a final report. The computer cards for these landmarks and aids are on file in the CMB Special Projects Section, and will be destroyed 5 years after the date of Final Review.

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
 3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS:

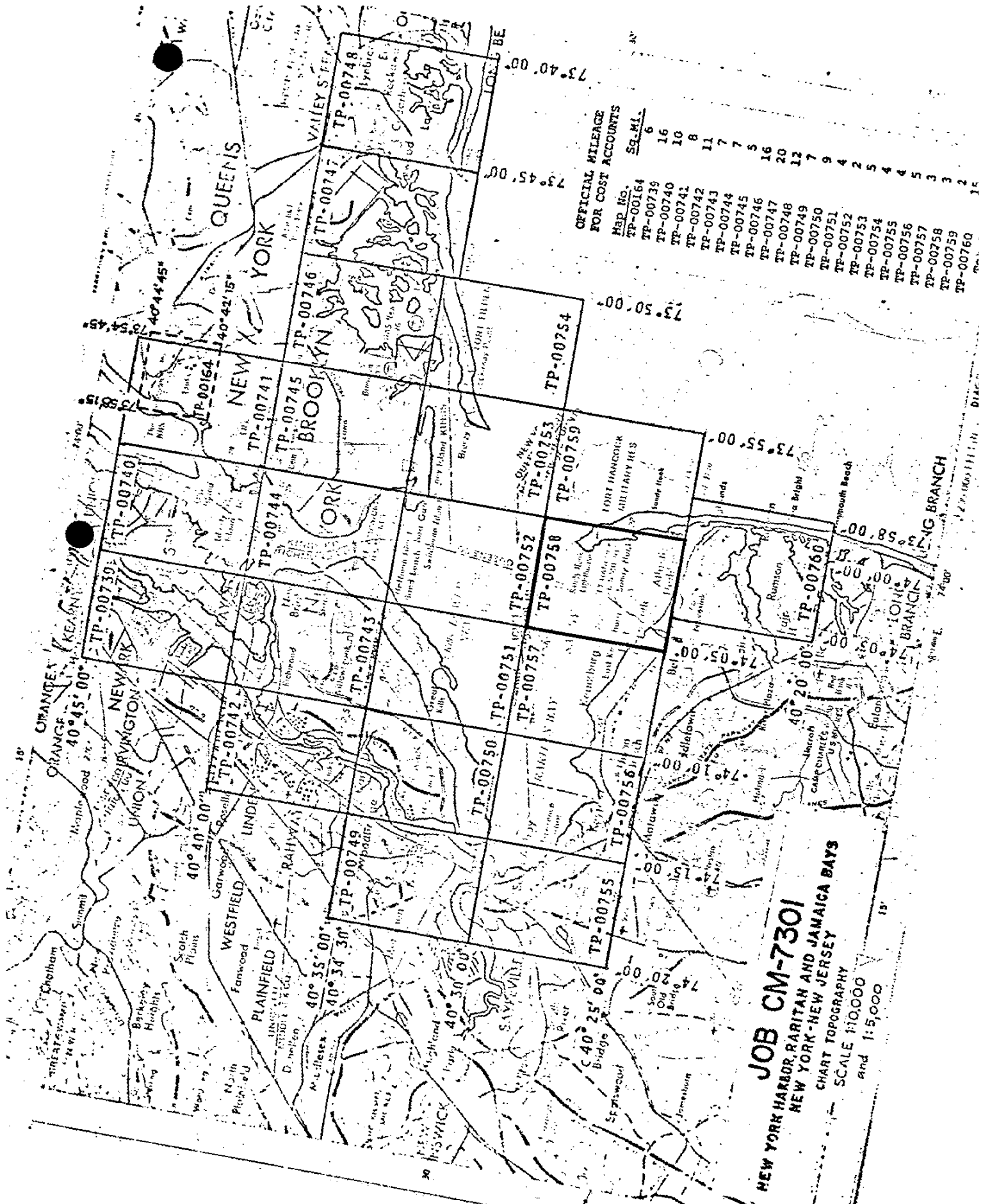
4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

## IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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

NOAA FORM 76-36D

☆ U.S. Government Printing Office: 1975 - 665-661/1108, Region No. 6



OFFICIAL MILEAGE  
FOR COST ACCOUNTS

Map No.	Sq. Mi.
TP-00184	6
TP-00739	16
TP-00740	10
TP-00741	8
TP-00742	11
TP-00743	7
TP-00744	7
TP-00745	5
TP-00746	16
TP-00747	20
TP-00748	12
TP-00749	7
TP-00750	9
TP-00751	4
TP-00752	2
TP-00753	5
TP-00754	4
TP-00755	4
TP-00756	5
TP-00757	3
TP-00758	3
TP-00759	2
TP-00760	14

**JOB CM-7301**  
**NEW YORK HARBOR, RARITAN AND JAMAICA BAYS**  
 CHART TOPOGRAPHY  
 SCALE 110,000  
 and 1:5,000

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORTS  
TP-00739 through TP-00760 and TP-00164

This map is one of twenty-three chart compilation maps that comprise Job CM-7301. Maps TP-00739 through TP-00760 were compiled at 1:10,000 scale and map TP-00164 was compiled at 1:5,000 scale.

The purpose of this job is to provide chart compilation for use in the maintenance and reconstruction of published nautical charts covering the project area.

The project area includes New York Harbor, Raritan Bay, and Jamaica Bay in the states of New Jersey and New York.

Field operations, which began in September 1974, generally consisted of the premarking of control and flying the needed aerial photography.

Aerotriangulation photography was furnished at 1:60,000 scale from natural color film taken in 1974 with the RC-10(C) camera. Color compilation photography was taken in 1974 at 1:30,000 scale and in 1975 at 1:15,000 scale, using the RC-8(E) and RC-10(B) cameras. Supplemental black-and-white infrared, tide-coordinated photography was flown in 1975 at 1:30,000 scale using the RC-10(B) camera.

Five strips of the 1:60,000 scale color photography were bridged using analytic aerotriangulation methods. Thirteen strips of the 1:30,000 scale color compilation photography and two strips of the 1:15,000 scale color compilation photography were also bridged by analytic aerotriangulation procedures.

Compilation photography was the 1:15,000 and 1:30,000 scale color photography and the 1:30,000 scale supplemental infrared photography. The maps were compiled on the Wild B-8 stereoplotter using the natural color photography. Ratioed prints of the black-and-white infrared photography were used graphically to delineate the approximate mean low water line and to supplement the B-8 instrument compilation.

All map line work is smooth compilation drafting.

Field edit data was prepared for each of the twenty-three maps. Field edit was postponed in 1977 after this preparation of data was completed.

Final review of the maps was done by the Quality Control Group of the Photogrammetric Branch. All maps were registered as Class III maps.

A Chart Maintenance Print for each map was forwarded to the Nautical Data Section of the Marine Chart Division.

The following items are registered in the National Ocean Survey Archives:

1. A plastic copy of each map
2. A Descriptive Report for each map



Two 20 cm x 30 cm negatives of each map are on file in the Photo Map and Imagery Information Section of the Photographic Operations Branch.

## FIELD INSPECTION

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

21. Area Covered

The area covered by this report pertains to the shorelines of New York Harbor, Raritan and Jamaica Bays, New York-New Jersey. This area is covered by twenty-two 1:10,000 scale sheets, TP-00735 thru TP-00760 and one 1:5,000 sheet, TP-00164. The 5,000 scale sheet (TP-00164) was not plotted at this time because of the lack of low altitude photo coverage.

22. Method

Five strips of 1:60,000 scale color photography were bridged by analytic aerotriangulation methods. The strips were controlled by field identified control paneled in 1974 with office identified control floated as checks. Thirteen strips of 1:30,000 scale color photography were also bridged by analytic aerotriangulation methods. These strips were controlled by field identified control and with common points dropped from the 1:60,000 scale photography. Normally the 1:30,000 scale strips would not be bridged, but, due to the poor definition of photography, this had to be done in order to meet the National Map Accuracy Standards. Ties were made between all bridging strips. Points were located on the 1:30,000 scale photography to determine the ratio scale. Ratios were ordered for the 1:10,000 scale sheets. Data for ruling projections were furnished to the Coradomat to be plotted in the New York East state plane coordinate system. The grids were plotted in zones as indicated per instructions in a letter from the Chief, Coastal Mapping Division, dated March 27, 1975.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

USGS Quadrangles were used to provide vertical control for the adjustment.

25. Photography

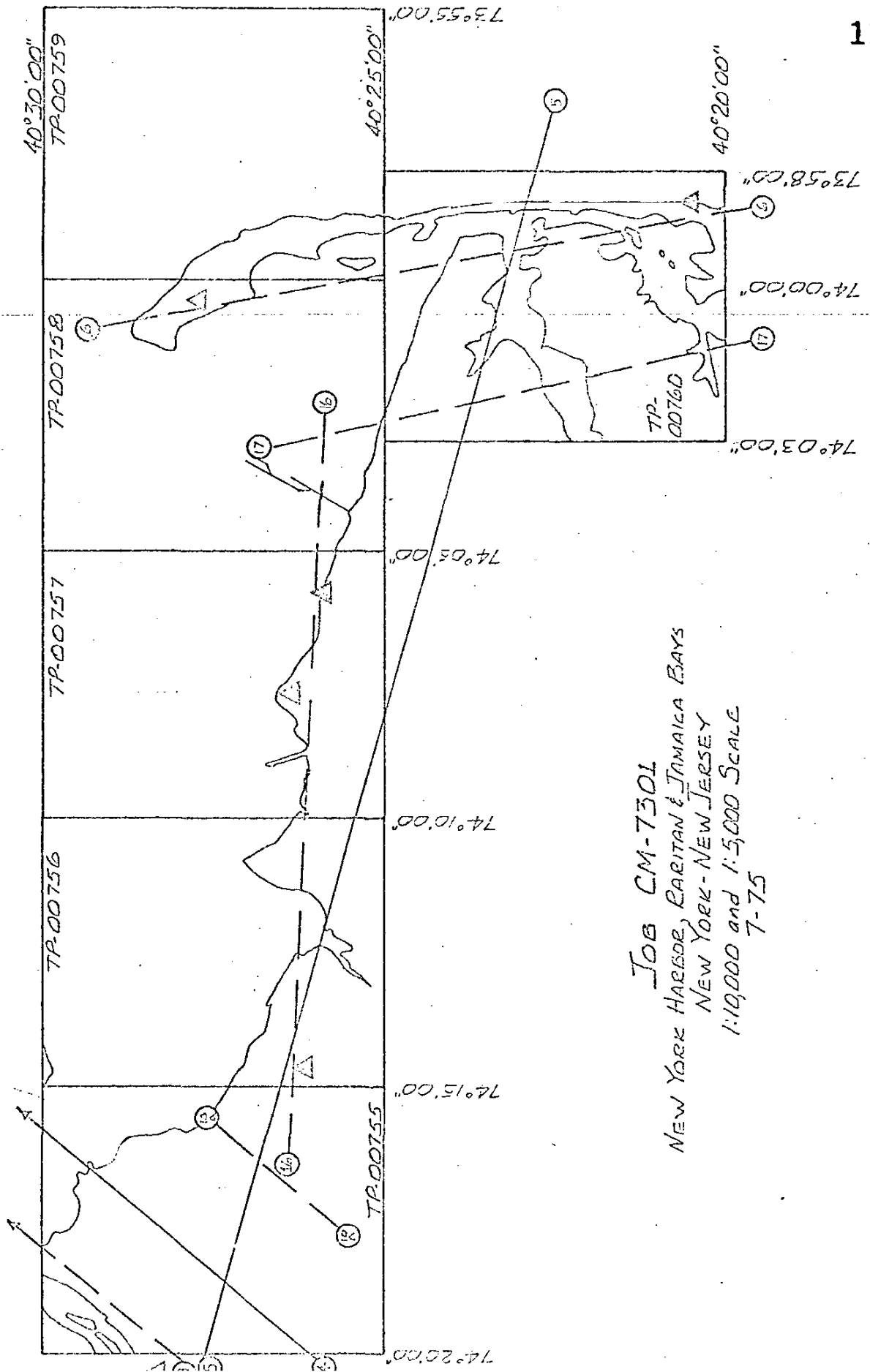
The photography was adequate as to coverage and overlap except for the 1:5,000 scale sheet, TP-00164. This photography has not been taken as of this report. Definition of the photography at all scales was very poor due to haze at time of photography.

Respectfully submitted,

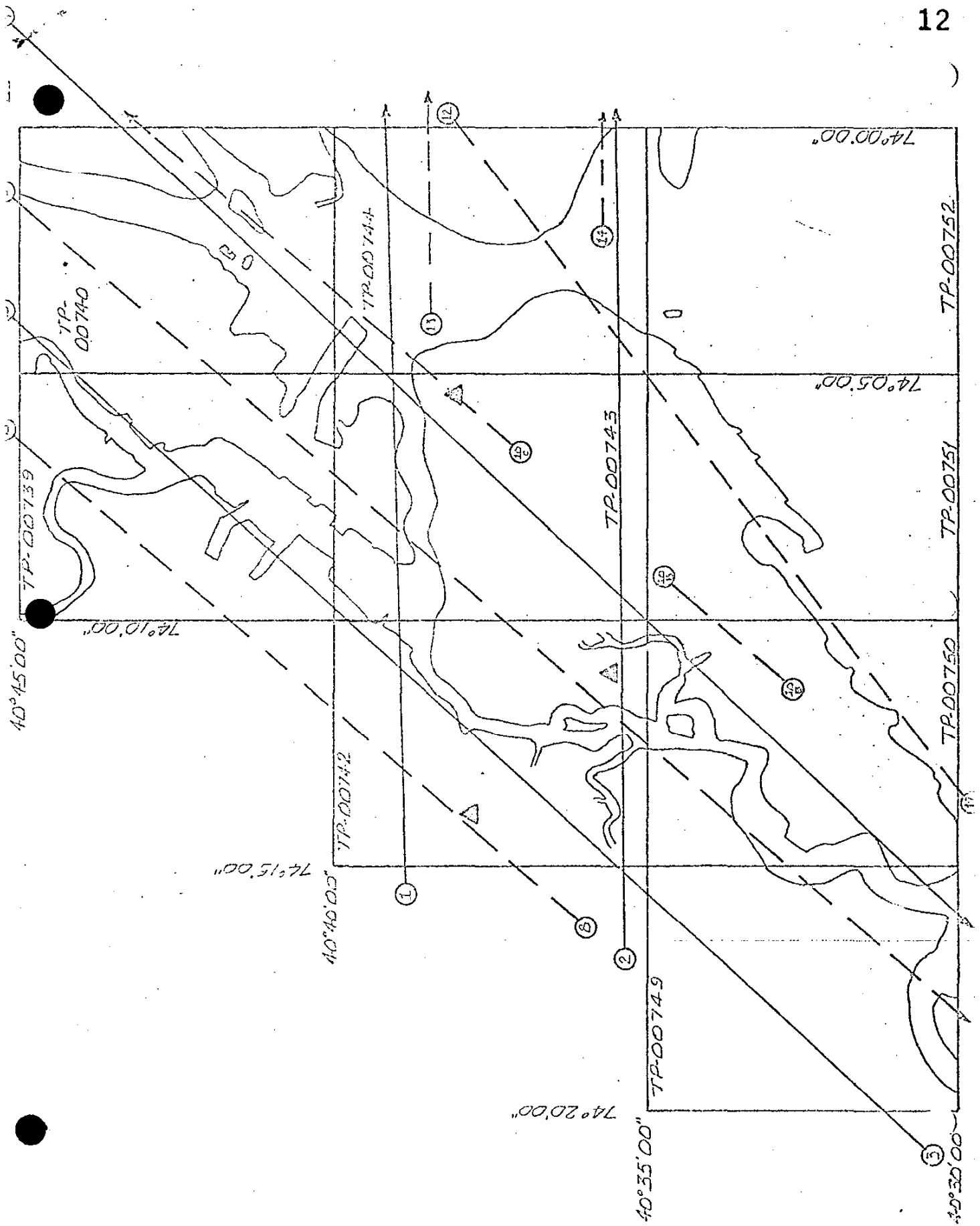
*Ivey O. Raborn*  
Ivey O. Raborn

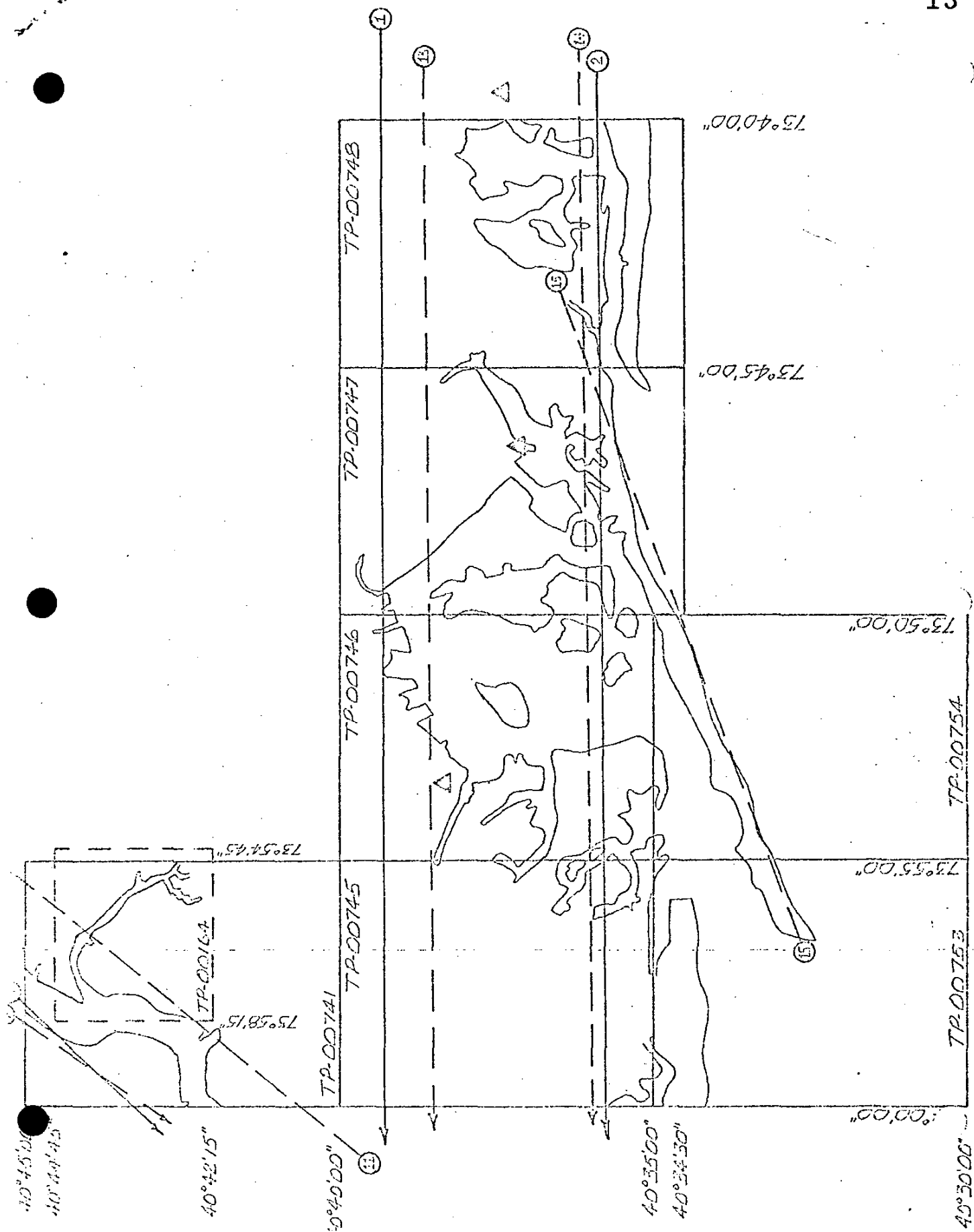
Approved and forwarded:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section



JOB CM-7301  
 NEW YORK HARBOUR, BARITAN & JAMAICA BAYS  
 NEW YORK-NEW JERSEY  
 1:10,000 and 1:5,000 SCALE  
 7-75





Strip No.	Scale	Photo Nos.
1	60,000	74C(C)864-874
2	"	851-861
3	"	74C(C)892-902
4	"	877-887
5	"	1202-1207
6	30,000	74E(C)6963-6970
No strip numbered 7		
8	30,000	74E(C)7145-7154
9	"	7083-7099
10A	"	7125-7127
10B	"	7131-7133
10C	"	7135-7143
11	"	7076-7082
12	"	7186-7196
13	"	7056-7069
14	"	7040-7052
15	"	7172-7179
16	"	7162-7170
17	"	7197-7202

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
			STATE	ZONE		$\phi$ LATITUDE	$\lambda$ LONGITUDE			
TP-00758		CM-7301		N. A. 1927						Coastal Mapping Div., Rockville Md.
ATLANTIC HIGHLANDS EAST MEASURE MILE 1970	✓	NJ 6012			114	X=		$\phi$ 40-25-07.62261		
		GP-P263				Y=		$\lambda$ 74-01-17.44480		
ATLANTIC HIGHLANDS WEST MEASURE MILE 1970	✓	NJ 6012			111	X=		$\phi$ 40-25-28.22452		
		GP-P263				Y=		$\lambda$ 74-02-31.23144		
SANDY NOOK LIGHTHOUSE FINAL 1835	✓	NJ 6012			964110	X=		$\phi$ 40-27-41.798		
		P-572				Y=		$\lambda$ 74-00-08.811		
SANDY NOOK, FORT HANCOCK PARADE GROUND FLAGPOLE 1930	✓	NJ 6012			116	X=		$\phi$ 40-27-40.169		
		GP-P489				Y=		$\lambda$ 74-00-17.324		
SANDY NOOK STANDPIPE 1930	✓	NJ 6012			963110	X=		$\phi$ 40-28-08.591		
		GP-P573				Y=		$\lambda$ 74-00-28.098		
SANDY NOOK, LORAN RECEIVING ANTENNA 1955	✓	NJ 6012			117	X=		$\phi$ 40-28-21.28		Not visible on photography
		GP-P678				Y=		$\lambda$ 74-00-48.63		
SANDY NOOK POINT LT 1940	✓	NJ 6012				X=		$\phi$ 40-28-14.463		301
		GP-P581				Y=		$\lambda$ 74-01-08.758		
B.C. PECK (USCA) 1940		G-10824			963100	X=		$\phi$ 40-28-16.716		Not plotted on manuscript.
						Y=		$\lambda$ 74-00-22.164		Recovered 1974
SIMPSON 2, 1972		G-10924			1	X=		$\phi$ 40-28-05.844		Not plotted on Manuscript
						Y=		$\lambda$ 74-00-31.2316		
						X=		$\phi$		
						Y=		$\lambda$		
COMPUTED BY	N/A					COMPUTATION CHECKED BY				DATE
LISTED BY						LISTING CHECKED BY				DATE
HAND PLOTTING BY	N/A					HAND PLOTTING CHECKED BY				DATE



TP-00758  
Compilation Report

31. Delineation

This map was compiled on the Wild B-8 stereoplotter from 1:30,000 scale natural color photography. Graphic compilation from ratioed prints of the black-and-white tide-coordinated photography was used to depict the mean low water line and to update instrument compilation of alongshore details. Refer to paragraph 35.

32. Control

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

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

33. Supplemental Data ~ None

34. Contours and Drainage

All drainage is from office interpretation of the color photography.

35. Shoreline and Alongshore Details

The MHW line was compiled from office interpretation of the color photography. Evident changes were noted on the 1975 IR photography in the delineation of the MHW line from the 1974 color photography in some areas. Graphic compilation from the infrared photography was used to update the shoreline.

Alongshore and foreshore detail was delineated by office interpretation of the color photography, and updated by graphic compilation from the more recent infrared photography.

- \* The MLWL was depicted graphically from the black-and-white tide-coordinated infrared photography. Water penetration is apparent on the infrared photography, therefore, portions of the foreshore areas depicted on this map may be covered a slight amount at MLW.

There was no preliminary field inspection of the shoreline.

36. Offshore Details

No unusual problems were encountered in compiling details offshore.

37. Landmarks and Aids

Positions of landmarks and non-floating aids will be verified or located during field edit.

Refer to the 76-40 forms prepared for those landmarks and aids identifiable on the compilation photography.

\* Refer to REVIEW REPORT, item 67.

38. Control for Future Surveys

No form 524 submitted.

39. Junctions

Refer to form 76-368, item #5, submitted with this Descriptive Report.

40. Horizontal and Vertical Accuracy

This map complies with the National Map Accuracy Standards.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

A comparison has been made with the following USGS quadrangle:

Sandy Hook, NJ, 1:24,000 scale, 1954 edition, photorevised 1970

No significant changes were noted.

47. Comparison with Nautical Charts

A comparison has been made with the following nautical charts:

Chart 12327(formerly 369) 1:40,000 scale, 65th edition, Feb. 1, 1975

Chart 12328(formerly 369-SC) 1:40,000 scale, 12th edition, Feb. 1975

Chart 12330(formerly 544) 1:10,000 scale, 6th edition, Aug. 3, 1974

Chart 12324(formerly 824-SC) 1:40,000 scale, 13th edition, July 1974

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

*James Schad*

J. Schad

Special Projects Section

Approved and forwarded:

*George W. Bace*

## COMPILATION OFFICE CHECK LIST

CLASS III MANUSCRIPT

TP - 00758

1. Shoreline and Alongshore Features ✓ 2. Projections ✓  
3. Grids ✓ 4. Title Block ✓ 5. Horizontal Control ✓  
6. Landmarks and Aids to Navigation ✓ 7. NOAA  
Form 76-36 ✓ 8. Compilation Report ✓ 9. Compilation  
Methods and Procedures ✓ 10. Junctions ✓ 11. Clarity  
of Manuscript ✓ 12. Discrepancy Print ✓

Reviewer *[Signature]*14 Oct 76Supervisor *[Signature]*



February 10, 1978

TO: Chief, Photogrammetric Branch

FROM: James Collins (signed) James Collins  
Chief, Coastal Mapping Division

SUBJECT: Registration of Job CM-7301, New York Harbor, Raritan  
and Jamaica Bays, New York - New Jersey

All manuscripts completed on the subject job shall be registered  
as Class III maps.

Field edit data developed to update these maps during 1978 and  
subsequent field seasons shall be furnished to the Marine Chart  
Division for blueprints.

cc: C3442  
C3421  
C3424



REVIEW REPORT  
TP-00758

Chart Compilation  
January 1978

61. General Statement

See Summary, which is pages 7 and 8 of this Descriptive Report. The map was reviewed in its Class III map (field edit postponed) stage by the Quality Control Group.

62. Comparison with Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to item 46 in the Compilation Report bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Refer to item 47 in the Compilation Report bound with this Descriptive Report.

66. Adequacy of Results and Future Surveys

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

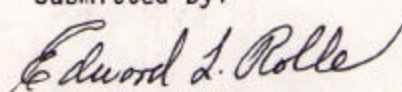
67. The Mean Low Water Line

Because water penetration is apparent on the ratioed tide-coordinated infrared photography, the outermost photographic image of land, along the water-land interface line, was delineated as the approximate mean low water line. This approach was taken to add an element of boating safety for users of the NOS nautical charts, reconstructed with details taken from this map. Refer to item 35 in the Compilation Report bound with this Descriptive Report.

68. Marsh

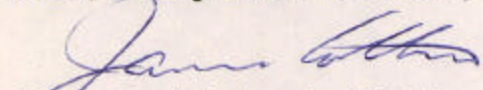
The back limits of "~~fingers~~<sup>fringes</sup> of marsh" were not compiled, where the horizontal distance to the apparent shoreline was 15 meters or less at map scale. No attempt was made to displace these limits or to label "~~finger~~<sup>fringe</sup> of marsh," because of the dense concentration of other map detail.

Submitted by:



Edward L. Rolle

Approved and Forwarded:

  
Chief, Photogrammetric Branch  
Chief, Coastal Mapping Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7301 (N.Y. Hbr., Raritan & Jamaica Bays, N.Y., N.J.)

TP-00758

Atlantic Highlands Municipal Harbor

Compton Creek

Leonardo

Leonardo Harbor

Lower Bay

Sandy Hook


Sandy Hook Bay

Sandy Hook Point

Shoal Harbor

Ware Creek

Approved by:

  
Charles E. Harrington, C51x2  
Staff Geographer

76-40  
LISTING

PHOTOGRAMMETRIC BRANCH  
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA  
DEPARTMENT OF COMMERCE USA

DATATAB  
VERSION  
770818

\* SVY TP-00758 \* \* RPT UNIT CMD ROCKVILLE, MD. \* PAGE 1 OF 4 \*  
\* JOB CM-7301 \* NONFLOATING AIDS FOR CHARTS \* STATE NEW JERSEY \*  
\* PRJ N Y HARBOR \* TO BE REVISED \* LOCALITY SANDY HOOK BAY \* ORIGINATING ACTIVITY \*  
\* DTM NA 1927 \* \* DATE 08/12/77 \* COMPILATION \*

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

DESCRIPTION	POSITION	CMD	METHOD AND DATE	CHARTS
RECORD REASON FOR DELETION	LATITUDE DM	ALTEK	OF LOCATION	
NAME PUT TRIANGULATION NAMES IN ( )	LONGITUDE DP	DGTZD	OFFICE FIELD	AFFECTED

\* NEW YORK HARBOR  
\* SWASH CHANNEL \*

* LIGHT * SANDY HOOK LIGHT (SANDY HOOK	* 40 27 41.80	1289.3	NOT *74E(C)6964*	* 12324 *
* Lighthouse FINAL 1835)	* 74 00 08.81	207.6	DGTZD* 10/17/74 *	* 12327 *
				* 12330 *

\* NEW YORK HARBOR  
\* SANDY HOOK CHANNEL \*

* -LIGHT * 15 *	* 40 28 39.30	1212.2	*74E(C)6964*	* 12327 *
	* 74 00 53.89	1269.4	* 10/17/74 *	* 12324 *
				* 12330 *

* LIGHT * (SANDY HOOK POINT LIGHT 1940)	* 40 28 14.46	446.0	NOT *74E(C)6964*	* 12324 *
	* 74 01 08.76	206.4	DGTZD* 10/17/74 *	* 12327 *
				* 12330 *

\* NEW YORK HARBOR  
\* CHAPEL HILL SOUTH CHANNEL \*

* -RANGE * F LT *	* 40 25 16.46	507.7	*74E(C)7169*	* 12324 *
	* 74 03 21.85	515.1	* 10/19/74 *	* 12327 *
				* 12330 *

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TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
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POSITIONS DETERMINED	NO FIELD EDIT-CLASS III MAP	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	G. FROMM	OFFICE COMPILER
FIELD AND OFFICE	L. HARROD	DIGITIZER
ACTIVITIES	G. FROMM	DATA PROCESSER



76-40  
LISTING

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COASTAL MAPPING DIVISION

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VERSION  
770818

\* SVY TP-00758 \* \* RPT UNIT CMD ROCKVILLE, MD. \* PAGE 2 OF 4 \*  
\* JOB CM-7301 \* NONFLOATING AIDS FOR CHARTS \* STATE NEW JERSEY \*  
\* PRJ N Y HARBOR\* TO BE REVISED \* LOCALITY SANDY HOOK BAY \*ORIGINATING ACTIVITY\*  
\* DTM NA 1927 \* \* DATE 08/12/77 \* COMPILATION \*

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

CHARTING*	DESCRIPTION	POSITION	CMD *	METHOD AND DATE	CHARTS *
NAME *	RECORD REASON FOR DELETION	LATITUDE DM	ALTEK*	OF LOCATION	AFFECTED*
PUT TRIANGULATION NAMES IN ( ) *	LONGITUDE DP	DGTZD*	OFFICE *	FIELD	

\* NEW YORK HARBOR-SANDY HOOK BAY \*

* LIGHT	* LEONARDO CHANNEL LIGHT 2	* 40 25 42.53	1311.8	* 74E(C) 7169*	* 12324 *
* 2		* 74 03 29.11	686.2	* 10/19/74 * <i>BZA Keyed</i>	* 12327 *
					* 12330 *
* LIGHT	* LEONARDO CHANNEL LIGHT 7	* 40 25 26.44	815.5	* 74E(C) 7169*	* 12324 *
* 7		* 74 03 39.27	925.7	* 10/19/74 * <i>BZA Keyed</i>	* 12327 *
					* 12330 *
* RANGE	* ATLANTIC HIGHLANDS BREAKWATER	* 40 25 06.83	210.7	* 74E(C) 7169*	* 12324 *
* LIGHT		* 74 01 12.04	283.9	* 10/19/74 * <i>BZA Keyed</i>	* 12327 *
					* 12330 *
* RANGE	* ATLANTIC HIGHLANDS RANGE	* 00 00 00.00	0.0	NOT *UNVERIFIED*	* 12324 *
* F LT	* FRONT LIGHT	* 00 00 00.00	0.0	DGTZD*	* 12327 *
					* 12330 *
* RANGE	* ATLANTIC HIGHLANDS RANGE	* 00 00 00.00	0.0	NOT *UNVERIFIED*	* 12324 *
* R LT	* REAR LIGHT	* 00 00 00.00	0.0	DGTZD*	* 12327 *
					* 12330 *

\* NEW YORK HARBOR-SANDY HOOK BAY \*

* RANGE	* DOCK RANGE FRONT LIGHT	* 40 27 02.50	77.1	* 74E(C) 7169*	* 12324 *
* F LT		* 74 03 09.25	218.0	* 10/19/74 * <i>NC.</i>	* 12327 *
					* 12330 *
* RANGE	* DOCK RANGE REAR LIGHT	* 40 26 41.48	1279.4	* 74E(C) 7169*	* 12324 *
* R LT		* 74 03 23.64	557.1	* 10/19/74 * <i>BZA Keyed</i>	* 12327 *
					* 12330 *

TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED	NO FIELD EDIT-CLASS III MAP	FIELD REPRESENTATIVE
AND/OR VERIFIED BY	G. FROMM	OFFICE COMPILER
FIELD AND OFFICE	L. HARROD	DIGITIZER
ACTIVITIES	G. FROMM	DATA PROCESSER



TYPE OF ACTION	NAMES OF RESPONSIBLE PERSONNEL	ORIGINATOR
POSITIONS DETERMINED AND/OR VERIFIED BY FIELD AND OFFICE ACTIVITIES	NO FIELD EDIT-CLASS III MAP D. NORMAN G. FROMM L. HARROD G. FROMM	FIELD REPRESENTATIVE OFFICE COMPILER DIGITIZER DATA PROCESSER

1987

76-40  
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770818

* SVY TP-00758 *	* RPT UNIT CMD ROCKVILLE, MD. *	* PAGE 4 OF 4 *
* JOB CM-7301 *	* STATE NEW JERSEY *	
* PRJ N Y HARBOR*	* LOCALITY SANDY HOOK BAY *	* ORIGINATING ACTIVITY *
* DTM NA 1927 *	* DATE 08/12/77 *	* COMPILATION *

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

* DESCRIPTION *	* POSITION *	* CMD *	* METHOD AND DATE *
* CHARTING* RECORD REASON FOR DELETION *	* LATITUDE DM *	* ALTEK* *	* OF LOCATION *
* NAME * PUT TRIANGULATION NAMES IN ( ) *	* LONGITUDE DP *	* DGTZD* *	* OFFICE * FIELD * CHARTS * *AFFECTED*

\* CHARTED LDMK(S) UNIDENTIFIABLE ON COMPILATION PHOTOGRAPHY. \*

* LORAN * (SANDY HOOK LORAN RECEIVING	* 40 28 21.28	656.4	NOT *					
* TOWER * ANTENNA 1955)	* 74 00 48.63	1145.6	DGTZD*	NE				12324
								12327
								12330

\* CHARTED LDMK(S) UNIDENTIFIABLE ON COMPILATION PHOTOGRAPHY.  
\* APPROXIMATE POSITION(S) SCALED FROM EXISTING CHART. \*

* TOWER *	* 40 28 15.00	462.7	NOT *	NE				12324
	* 74 00 39.00	918.7	DGTZD*					12327
								12330
* TOWER *	* 40 28 16.00	493.5	NOT *	NE				12324
	* 74 00 45.00	1060.1	DGTZD*					12327
								12330
* MARKER *	* 40 25 03.00	92.5	NOT *	NE				12324
	* 74 02 43.00	1013.8	DGTZD*					12327
								12330

\* 26 \*

* TYPE OF ACTION *	* NAMES OF RESPONSIBLE PERSONNEL *	* ORIGINATOR *
* POSITIONS DETERMINED	* NO FIELD EDIT-CLASS III MAP	* FIELD REPRESENTATIVE
* AND/OR VERIFIED BY	* D. NORMAN G. FROMM	* OFFICE COMPILER
* FIELD AND OFFICE	* NOT DIGITIZED	* DIGITIZER
* ACTIVITIES	* G. FROMM	* DATA PROCESSER

TP-00758

National Archives Data

One C&GS Form 152 (Control Station Identification)

Photography: 74-E(C) 6839 & 6963

### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TA-00758

## 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.

[illegible]