

TP-00740

ORIGINAL

TP-00740

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-00740
Classification No. III	Edition No. 1
LOCALITY	
State	New York-New Jersey
General Locality	Jersey City, N.J.
Locality	Upper Bay and Hudson River
1974 TO 1975	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY ☒ ORIGINAL ☐ RESURVEY ☐ REVISED		SURVEY TP. 00740 MAP EDITION NO. 1 MAP CLASS III JOB CM-7301	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED		JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Rockville)				OFFICER-IN-CHARGE Cdr. James Collins			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Instructions-AEROTRIANGULATION- 3/27/75 Instructions-OFFICE- 8/7/75				Instructions-FIELD - 1/23/74 Instructions-FIELD-Amendment I - 8/12/74 Instructions-FIELD-Supplement I - 4/16/75 Instructions-FIELD-Supplement II - 10/6/75 Instructions-FIELD-Amendment 1 - 2/27/74			
II. DATUMS							
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: ☒ MEAN HIGH-WATER ☒ MEAN LOW-WATER ☐ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL				OTHER (Specify) National Geodetic Vertical Datum of 1929			
3. MAP PROJECTION Traverse Mercator				4. GRID(S) STATE New York ZONE East			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION METHOD: Analytic				BY I. Raborn		8/75	
LANDMARKS AND AIDS BY				N/A			
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat				PLOTTED BY S. Solbeck		9/75	
CHECKED BY				N/A			
3. STEREOSCOPIC INSTRUMENT COMPILATION				PLANIMETRY BY G. Vanderhaven		4/76	
INSTRUMENT: B-8				CHECKED BY G. Fromm		4/76	
SCALE: 1:5,000				CONTOURS BY N/A			
CHECKED BY				N/A			
4. MANUSCRIPT DELINEATION				PLANIMETRY BY G. Vanderhaven		8/76	
METHOD: Smooth Drafting				CHECKED BY G. Fromm		8/76	
SCALE: 1:10,000				CONTOURS BY N/A			
HYDRO SUPPORT DATA BY				N/A			
CHECKED BY				N/A			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT				BY G. Fromm		10/14/76	
6. APPLICATION OF FIELD EDIT DATA				BY N/A			
CHECKED BY				N/A			
7. COMPILATION SECTION REVIEW				BY G. Fromm		10/14/76	
8. FINAL REVIEW				BY E. L. Rolle		Jan. 1978	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH				BY N/A			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH				BY E. L. Rolle		Jan. 1978	
11. MAP REGISTERED - COASTAL SURVEY SECTION				BY R.T. Cator		May 1978	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00740
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8(E) RC-10(B) Focal Lengths 152.7mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☒ TIDE CONTROLLED PHOTOGRAPHY				ZONE Eastern MERIDIAN 75th	☒ STANDARD ☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74E(C) 7138-7141	10/19/74	1715-1722	1:30,000	*±0.1 MHW	
74E(C) 7084-7088	10/19/74	1656-1706	1:30,000	*-0.2 MHW	
75B(I) 5963R-5967R	10/3/75	1152-1156	1:30,000	Refer to the following page for tide information	
75B(I) 5970R & 5971R	10/3/75	1204-1212	1:30,000		

REMARKS * Computation for ^{TP-00740} Predicted Tide Tables.
All the above photography was ratioed to 1:10,000

2. SOURCE OF MEAN HIGH-WATER LINE:

The source of the mean high water line is the photography listed under Item 1.
Refer to paragraph 35 in the Compilation Report bound with this Descriptive Report.

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

The source of the mean low water line is the black-and-white ratio prints of the tide-coordinated infrared photography listed above 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 TP-00882 (Job CM-7403)	EAST TP-00741	SOUTH TP-00744	WEST TP-00739
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REMARKS

NOAA FORM 76-36B(1)
(7-75)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TIDE - COORDINATED PHOTOGRAPHY

TP -00740

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE in feet	MEAN RANGE in feet
75B5963R-5966R (Upper Bay Hudson River)	Battery (Reference Sta.)	-0.62MLW	4.5
75B5966R-5967R (Hudson River)	^H W oboken Castle Point (Sub. Sta.)	-0.47MLW	4.3
75B5970R-5971R (Hackensack River)	Kearny Point (Sub. Sta.)	-0.44MLW	5.0
NOTE: Reference station(s) <u>ONLY</u> were in operation at time of photography.			

REMARKS:

Water penetration is apparent on the infrared photography. Refer to paragraph 35 of the Compilation Report bound with this Descriptive Report.

HISTORY OF FIELD OPERATIONS

TP-00740

I. ☒ FIELD INSPECTION OPERATION

☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	9/74
2. HORIZONTAL CONTROL	RECOVERED BY N/A ESTABLISHED BY N/A PRE-MARKED OR IDENTIFIED BY N/A	
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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION BY 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

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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 ☒ NONE

6. 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)

None

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

TP-00740

RECORD OF SURVEY USE

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	

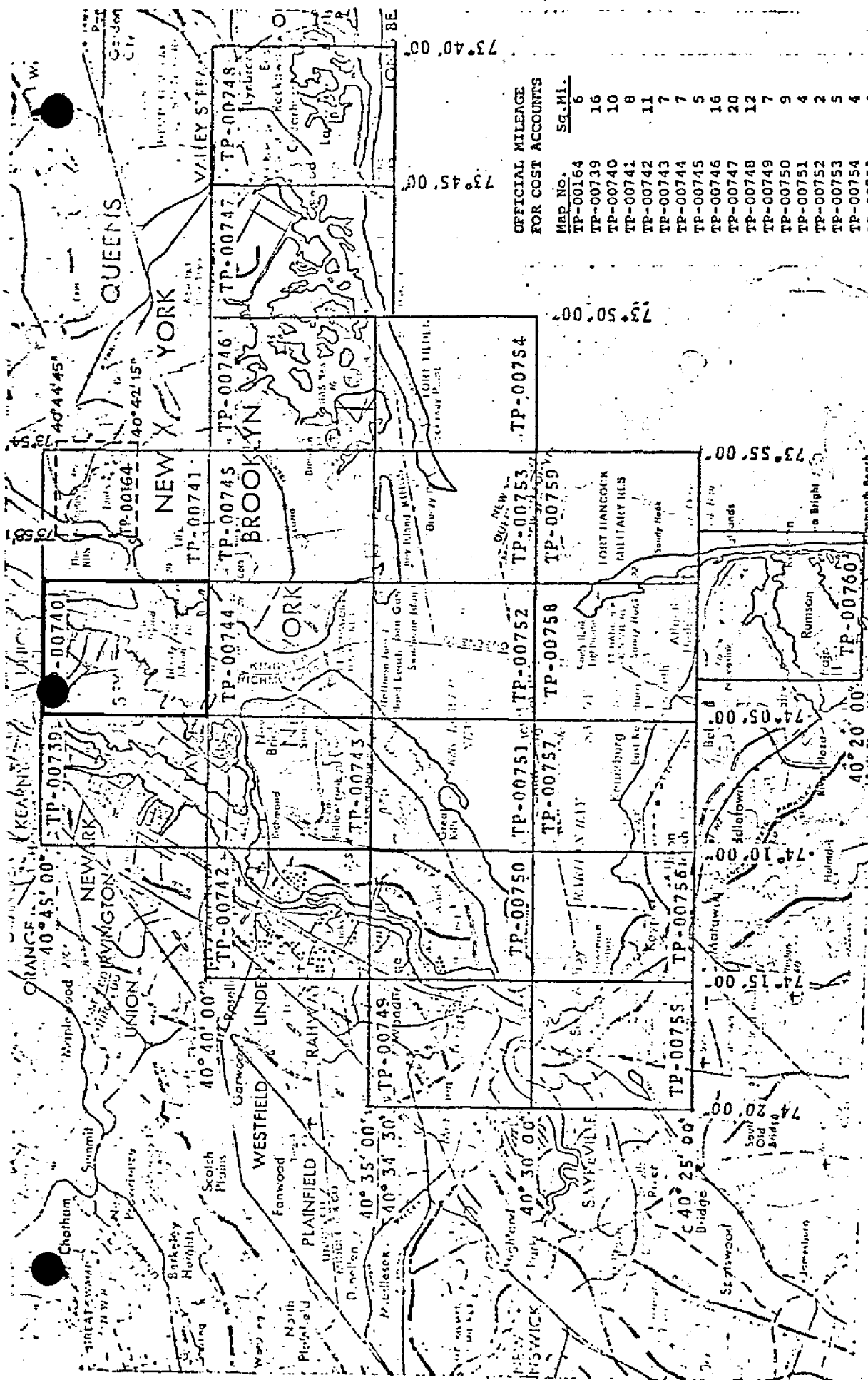
II. LANDMARKS AND AIDS TO NAVIGATION			
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
7		Oct. 1977	Digitized Forms 76-40 were submitted as a final report. The computer cards for these landmarks and aids are on file in the CMD Special 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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



JOB CM-7301
NEW YORK HARBOR, RARITAN AND JAMAICA DAYS
NEW YORK-NEW JERSEY

CHART TOPOGRAPHY
 SCALE 1:100,000
 and 1:5,000

BRANCH

OFFICIAL MILEAGE
 FOR COST ACCOUNTS

Map No.	Sq. Mi.
TP-00164	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	15
Total:	181

DIAGRAM REVISED 2-5-75 (1:5,000 map added)

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

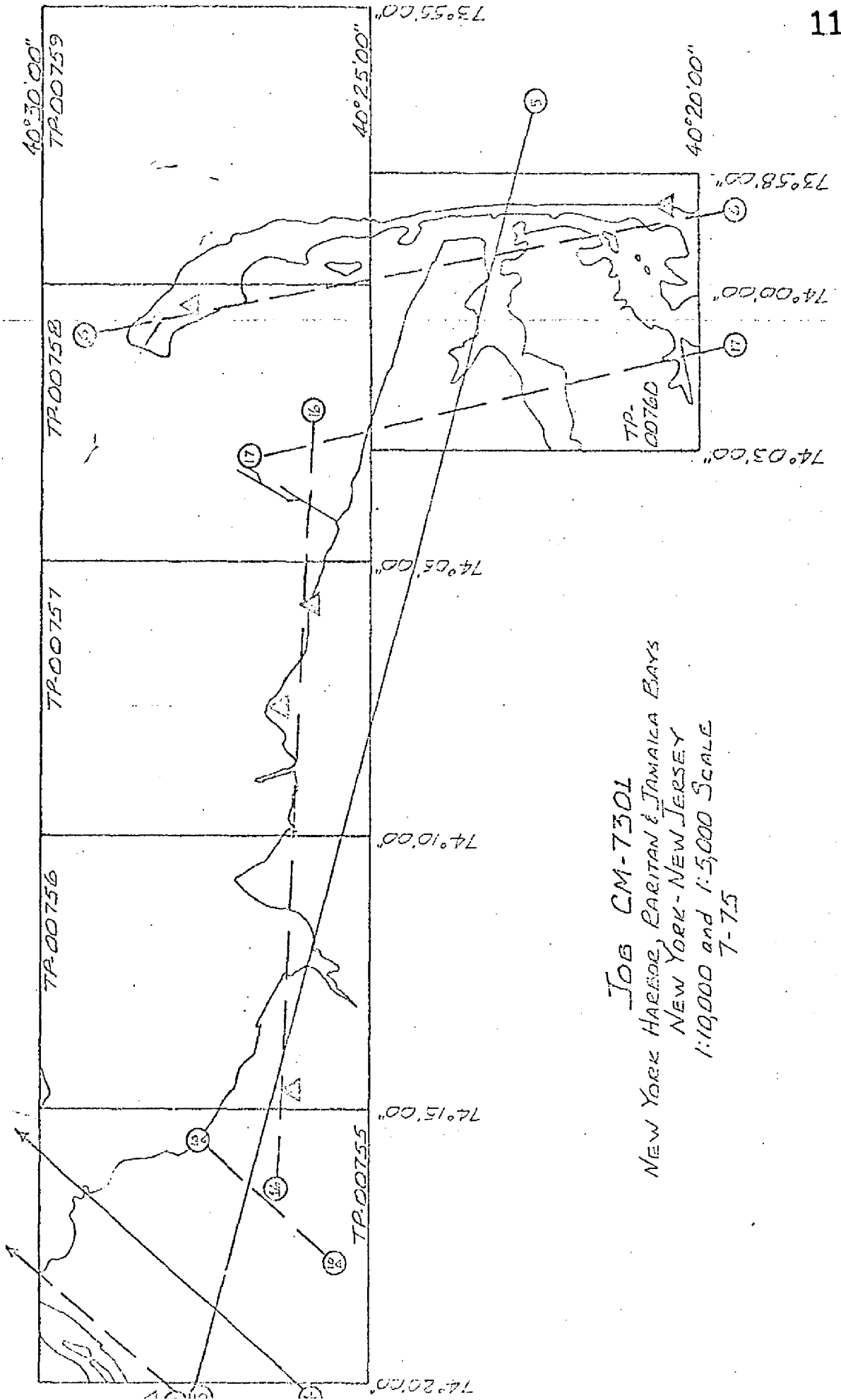
The photography was adequate as to coverage and overlap except for the 1:5,000 scale sheet, TP-00164. This photography has not been taken as of this report. Definition of the photography at all scales was very poor due to haze at time of photography.

Respectfully submitted,

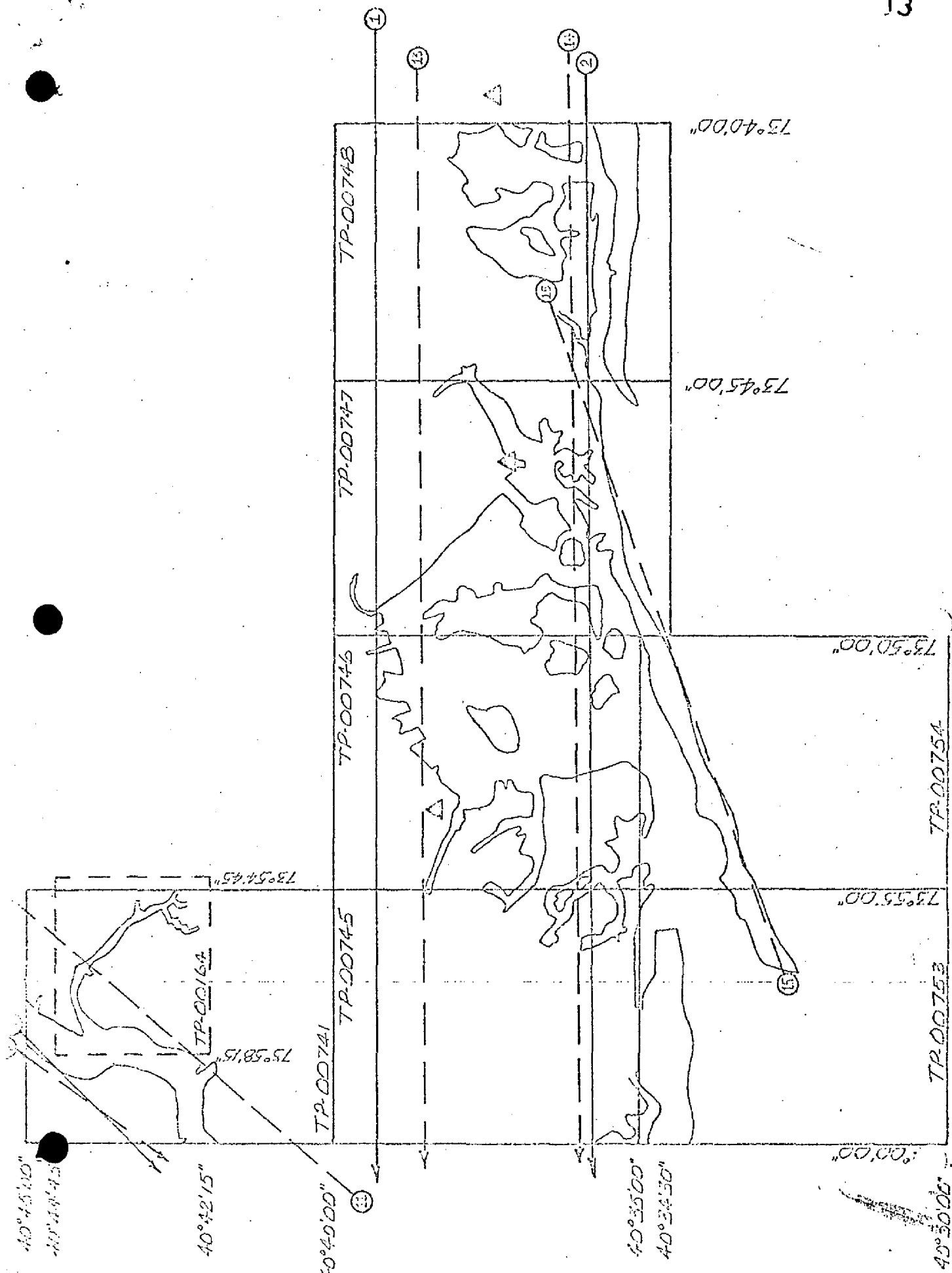
Ives O. Raborn
Ives O. Raborn

Approved and forwarded:

John D. Percow, Jr.
John D. Percow, Jr.
Chief, Aerotriangulation Section



JOB CM-7301
 NEW YORK HARBOUR, PARITAN & 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.	JOB NO.	GEODETIC DATUM	COORDINATES IN FEET		GEOGRAPHIC POSITION		ORIGINATING ACTIVITY
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	REMARKS
TP-00740	CM-7301		N/A 1927				Coastal Mapping Division Rockville, Maryland
HOBOKEN HOLLAND TUNNEL	NJ Vol. I		X=		ϕ 40-43-41.902		
BREATHER 1932	G.P.-P.527	893110	Y=		λ 74-01-38.226		
Ellis Island South	NJ Vol. II		X=		ϕ 40-41-59.680		
Twin Tank 1930	G.P.-P.110	894111	Y=		λ 74-02-25.868		
Statue of Liberty 1887	NY Vol. II		X=		ϕ 40-41-20.655		
	G.P.-P.82	895110	Y=		λ 74-02-41.863		
Red Hook N.Y. Dock Co.	NY Vol. II		X=		ϕ 40-40-28.833		
South Tank 1930	G.P.-P.109	895112	Y=		λ 74-01-03.997		
Red Hook N.Y. Dock Co.	NY Vol. II		X=		ϕ 40-40-36.733		
S. Twin Tank 1930	G.P.-P.109	10	Y=		λ 74-01-03.187		
New York Grain Elevator 1931	NY Vol. II		X=		ϕ 40-40-07.701		
	G.P.-P.164	48	Y=		λ 74-00-25.408		
Red Hook Brooklyn Brickworks Square CHY 1930	NY Vol. II		X=		ϕ 40-40-30.128		Not Plotted
	G.P.-P.109	49	Y=		λ 74-00-52.338		
Governors Island Southwest Light 1930	NY Vol. II		X=		ϕ 40-41-08.427		
	G.P.-P.109	50	Y=		λ 74-01-36.804		
Governors Island Northwest Light 1932	NY Vol. II		X=		ϕ 40-41-34.258		
	G.P.-P.246	51	Y=		λ 74-01-12.226		
Manhattan Woolworth Bldg. Tower 1932	NY Vol. II		X=		ϕ 40-42-44.224		
	G.P.-P.113	55	Y=		λ 74-00-30.886		
COMPUTED BY	N/A	DATE	COMPUTATION CHECKED BY		N/A		DATE
LISTED BY	G. Vanderhaven	DATE	LISTING CHECKED BY		G. Fromm		DATE
HAND PLOTTING BY	N/A	DATE	HAND PLOTTING CHECKED BY		N/A		DATE

NOAA FORM 76-41
(6-75)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00740	STATION NAME	JOB NO. CM-7301	GEODETTIC DATUM N/A 1927		GEOGRAPHIC POSITION		REMARKS
			SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	ϕ LATITUDE λ LONGITUDE	
Manhattan Holland Tunnel Breather 1932	NY Vol. II G.P.-P.113	56					
Hoboken Lackawanna Freight Yard WMCA Radio Tower 1932	NJ Vol. I G.P.-P.256	137					Not plotted
Jersey City Colgate Palmolive & Peet Co. N.Twin Chy 1932	NJ Vol. I G.P.-P.525	138					
Ellis Island North Twin Tank 1930	NY Vol. II G.P.-P.110	139120					Not plotted
Red Hook N.Y. Dock Co. N.Twin Tank 1930	NY Vol. II G.P.-P.109						
Ellis Island CHY 1930	NY Vol. II G.P.-P.110						
Jersey City Colgate Palmolive & Peet Co. S. Twin CHY 1932	NJ Vol. I G.P.-P.525						
Jersey City Penn R.R. Storehouse N. Flagpole 1932	NJ Vol. I G.P.-P.525						
Jersey City Penn R.R. Storehouse S. Flagpole 1932	NJ Vol. I G.P.-P.525						
C R.R. N.J. Station 4(Use) 1931	NJ Vol. I G.P.-P.457						
COMPUTED BY N/A.			COMPUTATION CHECKED BY N/A				DATE
LISTED BY G. Vanderhaven			LISTING CHECKED BY G. Fromm				DATE
HAND PLOTTING BY N/A			HAND PLOTTING CHECKED BY N/A				DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODEIC DATUM		GEOGRAPHIC POSITION		REMARKS
					COORDINATES IN FEET STATE ZONE	ϕ LATITUDE λ LONGITUDE			
TP-00740		CM-7301			N/A 1927				
	Doherty Building Tall Bldg. With Red Light 1932		NY Vol. II G.P.-P.14		X=		ϕ 40-42-22.770		
					Y=		λ 74-00-29.043		
	Brooklyn, Pier 11, Red Range Lt 1933		NY Vol. II G.P.-P.246		X=		ϕ 40-41-53.71		Not plotted
					Y=		λ 74-00-03.72		
	Manhattan N.Y. Telephone Co. Bldg. Flagpole 1932		NY Vol. II G.P.-P.113		X=		ϕ 40-42-49.223		
					Y=		λ 74-00-48.065		
	Manhattan Municipal Bldg., Tower, 1932		NY Vol. II G.P.-P.113		X=		ϕ 40-42-46.262		
					Y=		λ 74-00-14.503		
	Governors Island Cupola 1930		NY Vol. II G.P.-P.110		X=		ϕ 40-41-22.314		
					Y=		λ 74-01-08.398		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
					X=		ϕ		
					Y=		λ		
COMPUTED BY	N/A								DATE
LISTED BY	G. Vanderhaven								DATE
HAND PLOTTING BY	N/A								DATE

TP-00740
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 infrared photography was used to depict the mean low water line and to update the instrument compilation. 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 1974 color photography. Evident changes in the shoreline were noted on the 1975 infrared photography surrounding a new terminal under construction (approx. pos. - 40°40.2'N and 74°04.5'W). The MHW line in this area was compiled graphically by office interpretation of the IR photography.

Alongshore and foreshore features were delineated by office interpretation of the color photography and updated by graphic compilation from the 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. This also applies to those shoal, or portions of, depicted with the MLW line symbol.

There was no preliminary field inspection of the shoreline.

* Refer to REVIEW REPORT, item 67.

36. Offshore Details

No unusual problems were encountered in compiling details offshore.

37. Landmarks and Aids

Positions of landmarks and nonfloating 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.

38. Control for Future Surveys

No form 524 submitted.

39. Junctions

Refer to form 76-36B, 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\$:

Jersey City, N.J.-N.Y., Scale 1:24,000, 1967 Edition.

No significant changes were noted.

47. Comparison with Nautical Charts

A comparison has been made with the following nautical charts:

12327 (formerly 369), scale 1:40,000, 64th Edition, dated July 13, 1974.

12328 (formerly 369-SC), scale 1:40,000, 12th Edition, dated February 1, 1975.

541, scale 1:10,000, 47th Edition, dated April 13, 1974.

285, scale 1:15,000, 20th Edition, dated September 29, 1973.

287, scale 1:20,000, 17th Edition, dated June 3, 1972.

12335 (formerly 745), scale 1:10,000, 22nd Edition, dated July 13, 1974.

Items to be applied to Nautical Charts immediately - None.

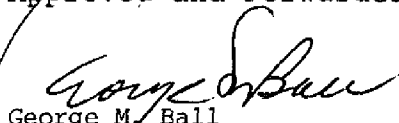
Items to be carried forward - None.

Submitted by:



G. Vanderhaven

Approved and Forwarded:



George M. Ball

Chief, Special Projects Section

COMPILATION OFFICE CHECK LIST

CLASS III MANUSCRIPT

TP - 00740

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 G. Brown
14-Oct 76Supervisor George S. Bue



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-00740

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

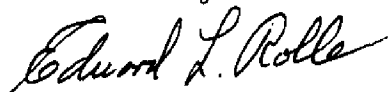
This map meets the National Standards of Map Accuracy and complies with compilation instructions and Bureau standards.

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.

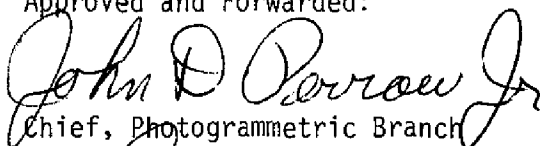
The approximate mean low water line was not compiled east of longitude $74^{\circ}01.5'$ or south of latitude $40^{\circ}40.5'$, for lack of sufficient tide coordinated photography.

Submitted by:

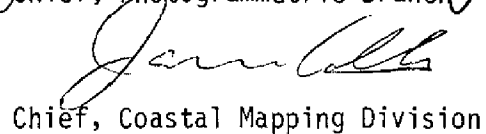


Edward L. Rolle

Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

GEOGRAPHIC NAMES

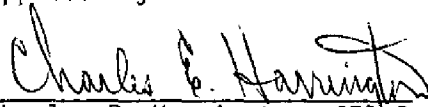
FINAL NAME SHEET

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

TP-00740

Brooklyn	Hudson River
Buttermilk Channel	Jersey City
Castle Point	Lackawanna Canal
Caven Point	Lehigh Valley (RR)
Central RR of N.J.	Liberty Island
East River	Manhattan
Ellis Island	Morris Canal Basin
Erie Basin	Penn Central (RR)
Erie Lackawanna (RR)	Red Hook (locality)
Governors Island	Red Hook (point)
Gowanna Canal	The Battery
Hackensack River	Upper Bay
Hoboken	

Approved by:


Charles E. Harrington, C51x2
Staff Geographer

SVY TP-00740 * CMD ROCKVILLE, MD. * PAGE 1 OF 7 *
JOB CM-7301 * NONFLOATING AIDS FOR CHARTS *
PRJ NY HARBOR * TO BE REVISED *
DTM NA 1927 * DATE 09/08/77 *
THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE, AS LANDMARKS *

CHARTING*	RECORD REASON FOR DELETION	POSITION	CMD	METHOD AND DATE	CHARTS
NAME	PUT TRIANGULATION NAMES IN ()	LATITUDE	DM	ALTEK* OF LOCATION	AFFECTED*
		LONGITUDE	DP	OFFICE	FIELD
EAST RIVER					
MAIN CHANNEL					
RGE F	EAST RIVER DEEPWATER RANGE	40 41 57.83	1783.8	74EC7139	745
LIGHT	FRONT LIGHT	74 00 01.16	27.2	10/19/74	541
BELL	WHITEHALL FERRY EAST FOG	00 00 00.00	0.0	NOT UNVERIFIED*	12327
	SIGNAL	00 00 00.00	0.0	DGTZD*	745
LIGHT	WHITEHALL FERRY EAST FOG	00 00 00.00	0.0	NOT UNVERIFIED*	541
	LIGHT	00 00 00.00	0.0	DGTZD*	12327
LIGHT	WHITEHALL FERRY WEST FOG	00 00 00.00	0.0	NOT UNVERIFIED*	745
	LIGHT	00 00 00.00	0.0	DGTZD*	541
BELL	WHITEHALL FERRY WEST FOG	00 00 00.00	0.0	NOT UNVERIFIED*	12327
	SIGNAL	00 00 00.00	0.0	DGTZD*	745
HORN	WHITEHALL FERRY RACK A FOG	00 00 00.00	0.0	NOT UNVERIFIED*	541
	SIGNAL	00 00 00.00	0.0	DGTZD*	12327
LIGHT	THE BATTERY LIGHT	00 00 00.00	0.0	NOT UNVERIFIED*	745
		00 00 00.00	0.0	DGTZD*	541
LIGHTS	GOVERNORS ISLAND FEERY RACK	00 00 00.00	0.0	NOT UNVERIFIED*	12327
	UPPER FOG LIGHTS	00 00 00.00	0.0	DGTZD*	745
LIGHTS	GOVERNORS ISLAND FEERY RACK	00 00 00.00	0.0	NOT UNVERIFIED*	541
	LOWER FOG LIGHTS	00 00 00.00	0.0	DGTZD*	12327

TYPE OF ACTION * NAMES OF RESPONSIBLE PERSONNEL * ORIGINATOR *

POSITIONS DETERMINED
AND/OR VERIFIED BY
FIELD AND OFFICE
ACTIVITIES

NO FIELD EDIT-CLASS III MAP
G. VANDERHAVEN
L. HARROD
G. FROMM

FIELD REPRESENTATIVE
OFFICE COMPILER
DIGITIZER
DATA PROCESSER

* SVY	TP-00740	* NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE	2 OF 7	*
* JOB	CM-7301	* TO BE REVISED	* STATE	NEW YORK NEW JERSEY			*
* PRJ	NY HARBOR		* LOCALITY	UPPER BAY-HUDSON R	* ORIGINATING	ACTIVITY	*
* DTM	NA 1927		* DATE	09/08/77	* COMPILATION		*
* THE FOLLOWING OBJECTS HAVE NOT BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS *							
* CHARTING	RECORD REASON FOR DELETION	* DESCRIPTION	* POSITION	CMD *	METHOD AND DATE	* CHARTS	*
* NAME	PUT TRIANGULATION NAMES IN ()	* LATITUDE	DM	ALTEK*	OF LOCATION	* FIELD	* AFFECTED
		* LONGITUDE	DP	DGTZD*	OFFICE		
* LIGHTS * GOVERNORS ISLAND EAST RACK * 00 00 00.00 0.0 NOT UNVERIFIED* * 745 *							
* LIGHTS * GOVERNORS ISLAND WEST RACK * 00 00 00.00 0.0 NOT UNVERIFIED* * 541 *							
* LIGHT * MANHATTAN BASE PIER LIGHT * 00 00 00.00 0.0 DGTZD* * 12327 *							
* LIGHT * GOVERNORS ISLAND CENTER RACK * 00 00 00.00 0.0 NOT UNVERIFIED* * 745 *							
* LIGHT * EAST LIGHT * 00 00 00.00 0.0 DGTZD* * 541 *							
* LIGHT * GOVERNORS ISLAND CENTER RACK * 00 00 00.00 0.0 NOT UNVERIFIED* * 12327 *							
* LIGHT * WEST LIGHT * 00 00 00.00 0.0 DGTZD* * 745 *							
* NEW YORK HARBOR * * * * * 541 *							
* MAIN CHANNEL * * * * * 12327 *							
* LIGHT * GOVERNORS ISLAND EXTENSION LT * 40 41 08.43 260.0 NOT 74EC7139 * 745 *							
* (GOVERNORS ISLAND SW LT 1930) * 74 01 36.80 864.1 DGTZD* 10/19/74 * 541 *							
* LIGHT * GOVERNORS ISLAND LIGHT * 40 41 34.26 1056.8 NOT 74EC7139 * 12327 *							
* (GOVERNORS ISLAND NW LT 1932) * 74 01 12.23 287.2 DGTZD* 10/19/74 * 541 *							
* * * * * 12327 *							
* * * * * 27 *							

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

LISTING

SVY	TP-00740	*	NONFLOATING AIDS FOR CHARTS	* RPT UNIT	CMD ROCKVILLE, MD.	* PAGE 3 OF 7
JOB	CM-7301	*	TO BE REVISED	* STATE	NEW YORK NEW JERSEY*	*
PRJ	N Y HARBOR*	*		* LOCALITY	UPPER RAY-HUDSON R	*ORIGINATING ACTIVITY*
DTM	NA 1927	*		* DATE	09/08/77	* COMPILATION *

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

[illegible]

* *	UPPER BAY BUTTERMILK CHANNEL	* *	* *	* *	* *	* *
~RGE F *						745
LIGHT *						541
						12327
~RGE R *						745
LIGHT *						541
						12327

* * * * *	UPPER BAY	* * * * *	* * * * *	* * * * *	* * * * *
* * * * *	CLAREMONT TERMINAL CHANNEL	* * * * *	* * * * *	* * * * *	* * * * *
-RGE F		* * * * *	00 00 00.00	0.0	NOT UNVERIFIED*
LIGHT		* * * * *	00 00 00.00	0.0	DGTZD*
					541
					12327
					12328

[illegible]

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

76-400
LISTING
PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

SVY	TP-00740	*		* RPT UNIT	CMD ROCKVILLE, MD.	*	PAGE	5 OF	7	*
JOB	CM-7301	*		* STATE	NEW YORK NEW JERSEY*					*
PRJ	N Y HARBOR*			* LOCALITY	UPPER BAY-HUDSON R	*	ORIGINATING	ACTIVITY*		*
DTM	NA 1927	*		* DATE	09/08/77	*	COMPILATION			*

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

[illegible][illegible]

CUPOLA	*	(GOVERNORS	ISLAND	CUPOLA	1930)	*	40	41	22.31	688.2	NOT	*	74EC7139	*	745	
	*				✓*		74	01	08.40	197.2	DGTZD*		10/19/74	*	541	
FLAG-	*				✓*		40	41	30.70	947.0		*	74EC7139	*	745	
POLE	*				✓*		74	00	58.86	1382.0		*	10/19/74	*	541	
CHRUCH	*						40	41	17.81	549.4		*	74EC7139	*	745	
TOWER	*						74	00	54.97	1290.8		*	10/19/74	*	541	
ELEV-	*	(	NEW YORK	GRAIN	ELEVATOR	1931)	*	40	40	07.70	237.5	NOT	*	74EC7139	*	745
ATOR	*						74	00	25.41	596.8	DGTZD*		10/19/74	*	541	
STACK	*				✓		40	40	26.50	817.4		*	74EC7139	*	745	
	*						74	00	54.57	1281.6		*	10/19/74	*	541	

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

TP-00740

National Archives Data

None

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP 00740

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.

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