

TP-00744

TP-00744

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-00744

Classification No. III Edition No. 1

LOCALITY

State New York - New Jersey

General Locality . Kings Co. & Richmond Co. . N.Y.

Locality The Narrows

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. 00744 MAP EDITION NO. (1) MAP CLASS III JOB CM-7301	
DESCRIPTIVE REPORT - DATA RECORD PHOTOGRAMMETRIC OFFICE Coastal Mapping Division (Rockville) OFFICER-IN-CHARGE Commander James Collins				LAST PRECEDING MAP EDITION			
				TYPE OF SURVEY ☐ ORIGINAL ☐ RESURVEY ☐ REVISED		JOB PH- MAP CLASS SURVEY DATES: 19 TO 19	
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-2/27/74 Instructions-FIELD-Amendment II-8/12/74 Instructions-FIELD-Supplement I-4/16/75 Instructions-FIELD-Supplement II-10/6/75			
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 Transverse 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 BY METHOD: Analytic LANDMARKS AND AIDS BY				I. Raborn		8/75	
				N/A			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				S. Solbeck		9/75	
				N/A			
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				Karin Baker		6/76	
INSTRUMENT: B-8				Greg Fromm		6/76	
SCALE: 1:15,000				N/A			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				Karin Baker		6/76	
				Greg Fromm		8/3/76	
METHOD: Smooth Drafting				N/A			
				N/A			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				N/A			
				N/A			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				Greg Fromm		10/14/76	
				N/A			
6. APPLICATION OF FIELD EDIT DATA CHECKED BY				N/A			
7. COMPILATION SECTION REVIEW BY				Greg 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	

TP-00744

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8(E) RC-10(B) 152.7mm focal lengths		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED B&W		ZONE Eastern	☒ STANDARD
☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☒ TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 75th	☐ DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
74E(C)7186-7190	10/19/74	1317-1324	1:30,000	* -1.56 Ft. MHW	
74E(C)7076-7077	10/19/74	1141-1145	1:30,000	* -.06 Ft. MHW	
74E(C)7136-7138	10/19/74	1215-1222	1:30,000	* -.36 Ft. MHW	
75B(I)5921R-5924R	10/3/75	1106-1108	1:30,000	Refer to following page for tide information.	
75B(I)5950R-5951R	10/3/75	1142-1148	1:30,000		
75B(I)5961R-5963R	10/3/75	1152-1156	1:30,000		

REMARKS * Computation from Predicted Tide Tables.
All of 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 natural color photography listed under item 1.

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

The source of the mean-low water line is ratioed prints of the black-and white 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-00740	TP-00745	TP-00752	TP-00743

REMARKS

TIDE - COORDINATED PHOTOGRAPHY

TP -00744

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE in feet	MEAN RANGE in feet
75B5921R-5924R (The Narrows)	SANDY HOOK (Reference Station)		4.6
	Ft. Wadsworth (Sub.Sta.)	-.31MLW	4.3
	Ft. Hamilton (Sub.Sta.)	-.36MLW	4.7
	St. George (Sub.Sta.)	-.31MLW	4.5
	Bay Ridge (Sub.Sta.)	-.37MLW	4.6
75B5950-5951R (Station I-South of bridge)	Ft. Wadsworth (Sub.Sta.)	-.63MLW	4.3
75B5961R-5963R (Kill Van Kull)	BATTERY (Reference Sta.)		
	New Brighton (Sub.Sta.)	-.74MLW	4.5
	St. George (Sub.Sta.)	-.74MLW	4.5
NOTE: The reference station(s) <u>ONLY</u> were in operation at the time of photography.			

REMARKS:

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

TP-00744

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION

☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	8/74
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	
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

RECORD OF SURVEY USE

TP-00744

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 are on file in the CMO 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: _____

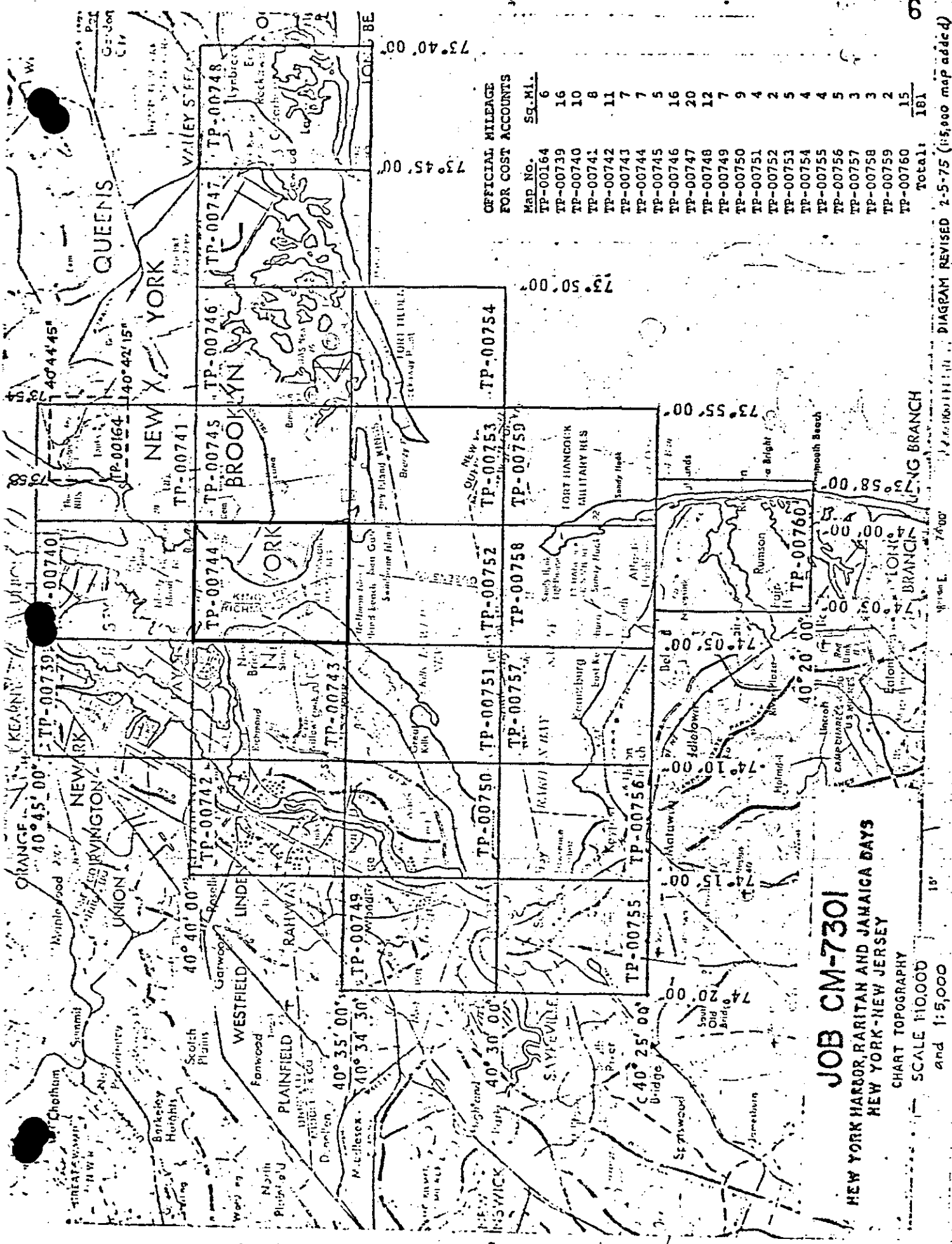
III. FEDERAL RECORDS CENTER DATA

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 BAYS
NEW YORK-NEW JERSEY
 CHART TOPOGRAPHY
 SCALE 1:10,000
 and 1:5,000

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

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.

CM-7301

July 1975

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.

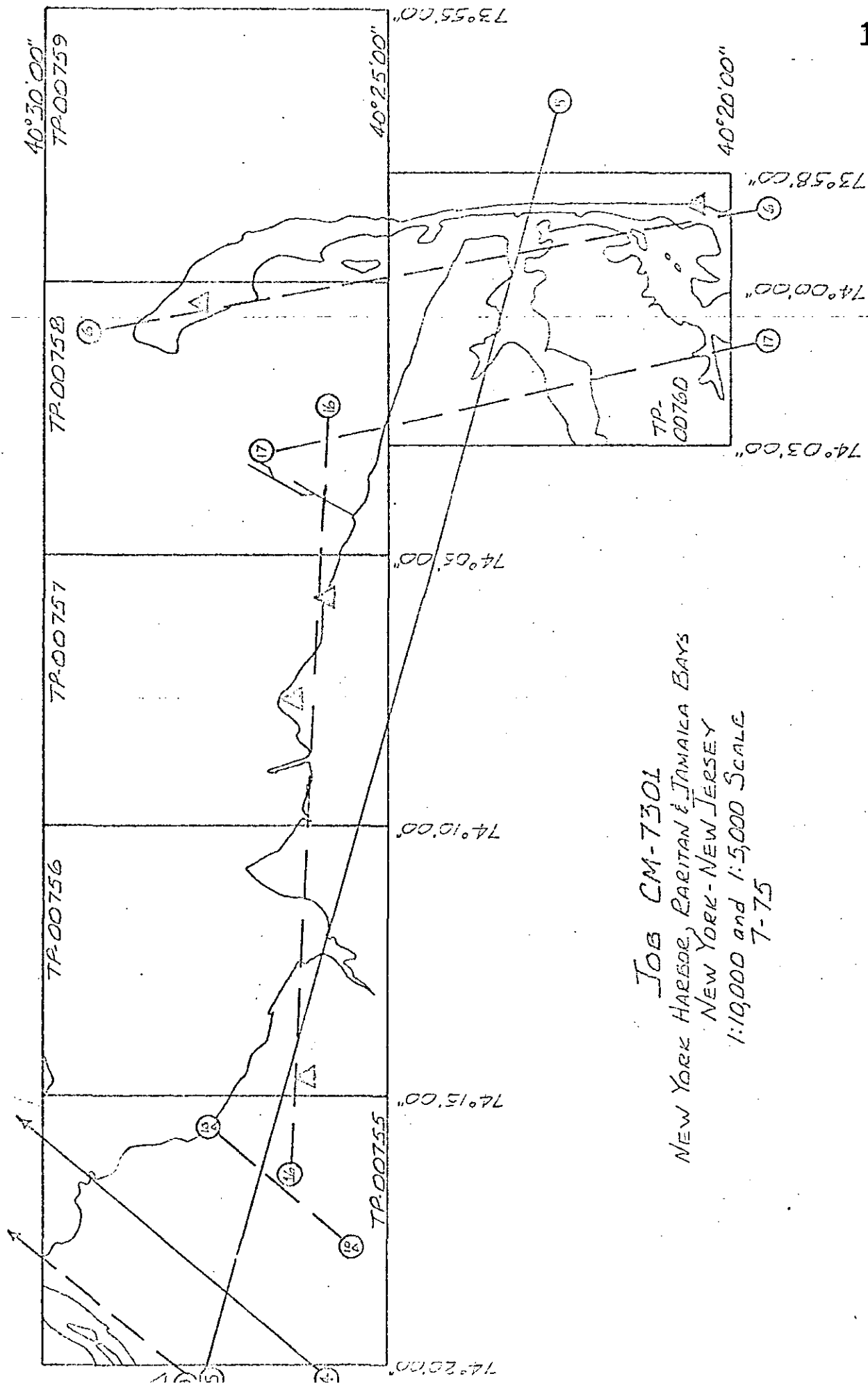
Respectfully submitted,

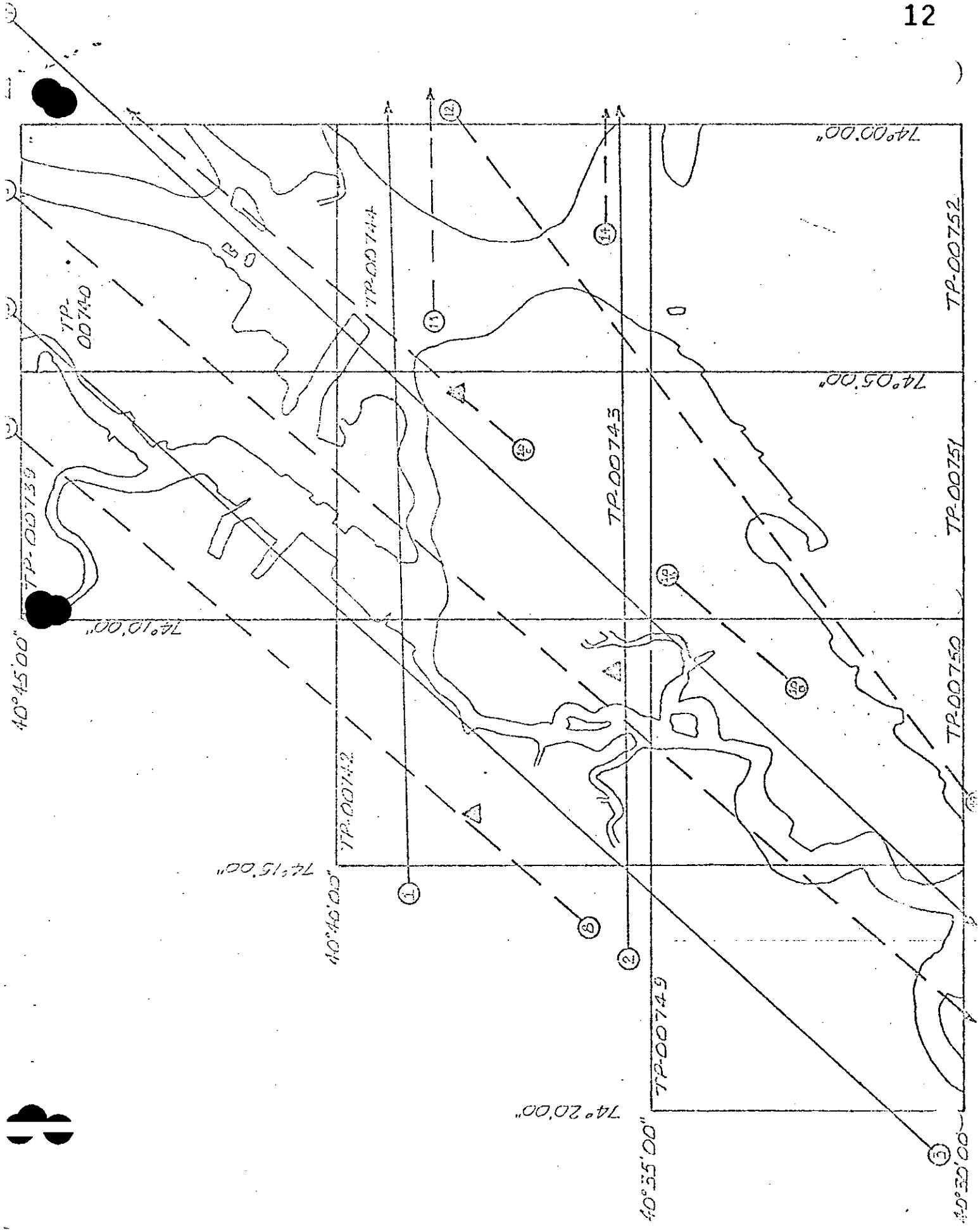
Ivey O. Raborn
Ivey O. Raborn

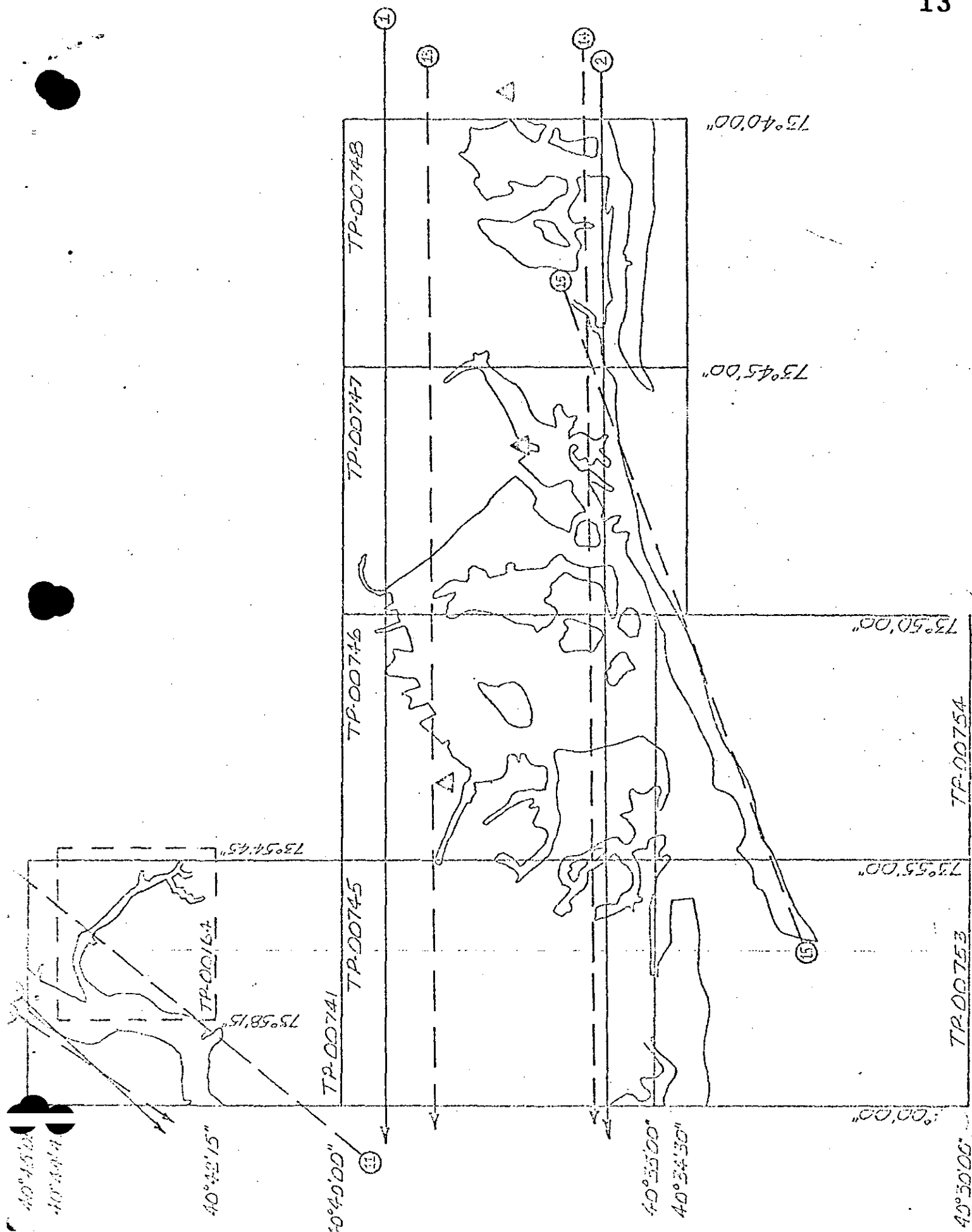
Approved and forwarded:

John D. Perrow, Jr.
John D. Perrow, Jr.

Chief, Aerotriangulation Section







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

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

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS
					COORDINATES IN FEET	GEOGRAPHIC POSITION			
					STATE	ZONE	φ LATITUDE	λ LONGITUDE	
TP-00744	FORT HAMILTON POLYTECHNIC INSTITUTE, CLOCK TOWER 1919	CH-7301	NY VOL II	870110	X=		φ 40-36-43.712		
			GP-P.129		Y=		λ 74-01-30.373		
	GRAVES END LOEWS ORIENTAL THEATRE S. TWIN TANK 1930		NY VOL II	870111	X=		φ 40-36-21.806		Not plotted on manuscript.
			GP-P.130		Y=		λ 74-00-10.212		
	GRAVES END LOEWS ORIENTAL THEATRE N. TWIN TANK 1930		NY VOL II	870112	X=		φ 40-36-21.893		Not plotted on manuscript.
			GP-P.130		Y=		λ 74-00 10.115		
	BAY RIDGE KINGS CO. LIGHTING CO. LARGEST GAS TANK 1930		NY VOL II	9	X=		φ 40-37-53.829		Not plotted on manuscript. Appears to be destroyed.
			GP-P.128		Y=		λ 74-00-44.232		
	FORT WADSWORTH LIGHTHOUSE 1903-		NY VOL II	18	X=		φ 40-36-20.550		
			GP-P.210		Y=		λ 74-03-15.718		
	FORT HAMILTON HIGH SCHOOL TOWER 1944		NY VOL II	43	X=		φ 40-37-37.52		
			GP-P.249		Y=		λ 74-02-24.04		
	BEACON 69TH STREET 1932		NY VOL II	44	X=		φ 40-38-22.569		
			GP-P.247		Y=		λ 74-02-20.691		
	BAY RIDGE BEMIS DROS DAG Co. Tail CHY 1930		NY VOL II	45	X=		φ 40-38-47.033		
			GP-P.127		Y=		λ 74-01-31.207		
	BAY RIDGE BUSH TERMINAL POWER HOUSE SOUTH TWIN BLACK STACK 1930		NY VOL II	46	X=		φ 40-39-22.839		Not plotted on sheet. Appears to be destroyed. New building in area.
			GP-P.127		Y=		λ 74-00-55.215		
	FORT HAMILTON FLAGPOLE 2. 1942		NY VOL II	62	X=		φ 40-36-31.051		
			GP-P.258		Y=		λ 74-01-58.566		
COMPUTED BY	N/A				COMPUTATION CHECKED BY		N/A		DATE
LISTED BY	G. F. TOWMAN				LISTING CHECKED BY				DATE NOV 10, 1975
HAND PLOTTING BY	N/A				HAND PLOTTING CHECKED BY		N/A		DATE

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM		ORIGINATING ACTIVITY	
					COORDINATES IN FEET STATE ZONE	φ LATITUDE λ LONGITUDE	REMARKS	
TP-00744	ROSE BANK ST JOHN PROST- EDISCAL CH SPIRE 1930	CM-7301	NY VOL II GP-P. 125	63	X=	φ 40-36-41.083	Constel Mapping Div., Rockville Md.	
	ROSE BANK ST MARYS CATH CH SPIRE 1930		NY VOL II GP-P. 124	64	Y=	λ 74-03-50.246		
	ST GEORGE. COATS HIGH SCHOOL TOWER FLAG-POLE 1930		NY VOL II GP-P. 124	67	X=	φ 40-36-57.789		
	ROBBINS REEF LIGHT (USE) 1930		NY VOL II GP-P. 505	147	Y=	λ 74-04-03.686		
	BAY RIDGE BOSH TERMINAL POWER HOUSE NORTH TWIN BLACK STACK 1930		NY VOL II GP-P. 127		X=	φ 40-38-42.542		
	BAY RIDGE E. W. BLISS CO FLAG-POLE 1930		NY VOL II GP-P. 162		Y=	λ 74-04-54.739		
	ROSEBANK WRIGHTLEY FACTORY N CHIMNEY 1930		NY VOL II GP-P. 124		X=	φ 40-39-26.145		
	ROSEBANK WRIGHTLEY FACTORY S CHIMNEY 1930		NY VOL II GP-P. 124		Y=	λ 74-03-56.777		
	STAS. HARTON SCHOOL HOUSE S. TOWER FLAG-POLE 1930		NY VOL II GP-P. 124		X=	φ 40-39-23.162	Not plotted on sheet Appears destroyed. New building in area.	
	BRIGHTON HEIGHTS REFORM CHURCH SPIRE 1930		NY VOL II GP-P. 123		Y=	λ 74-00-55.752		
					X=	φ 40-38-58.563		
					Y=	λ 74-01-23.652		
					X=	φ 40-37-04.395	237	
					Y=	λ 74-03-56.846	237	
					X=	φ 40-37-03.982		
					Y=	λ 74-03-56.236		
					X=	φ 40-37-31.046	Not plotted on manuscript	
					Y=	λ 74-04-41.332		
					X=	φ 40-38-30.459		
					Y=	λ 74-04-43.200		
COMPUTED BY	N/A				COMPUTATION CHECKED BY	N/A	DATE	
LISTED BY	G. Fromm				LISTING CHECKED BY	Obale	DATE Nov 10, 1975	
HAND PLOTTING BY	N/A				HAND PLOTTING CHECKED BY	N/A	DATE	

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETIC DATUM		ORIGINATING ACTIVITY		REMARKS
TP-00744		CM-7301		N.A. 1927		Coastal Mapping Div., Rockville, Md.		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS	
			STATE	ZONE	ϕ LATITUDE	λ LONGITUDE		
BORO HALL 1931	NY VOL II		X=		ϕ 40-38-32.156	245		
	C-P-P. 81		Y=		λ 74-04-35.585			
BAY RIDGE METROPOLITAN ENGINE CO. STUDY CHY. 1930	NY VOL II		X=		ϕ 40-38-57.977		Not plotted on manuscript - Appears destroyed on Photography	
	C-P-P. 127		Y=		λ 74-01-17.655			
FORT WADSWORTH	NY VOL II		X=		ϕ 40-36-16.843		Not plotted on manuscript.	
FLAGPOLE 1942	C-P. P. 258		Y=		λ 74-03-25.010			
			X=		ϕ			
			Y=		λ			
			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	COMPUTATION CHECKED BY		N/A	DATE		
LISTED BY	G. Fromm	DATE 11/10/75	LISTING CHECKED BY			DATE	Nov 10, 1975	
HAND PLOTTING BY	N/A	DATE	HAND PLOTTING CHECKED BY		N/A	DATE		

TP-00744
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.

Alongshore and foreshore features were delineated by office interpretation of the color photography and updated by graphic compilation from the 1975 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 may ~~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.

- * Refer to REVIEW REPORT, item 67.

37. Landmarks and Aids

Positions of landmarks and nonfloating aids will be verified or located during field edit. *Field Edit was cancelled.*

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 quadrangles:

The Narrows, N.Y.-N.J., scale 1:24,000, 1966 Edition
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:

285, scale 1:15,000, 20th Edition, dated Sept. 29, 1973.
540, scale 1:10,000, 47th Edition, dated Aug. 4, 1973.
541, scale 1:10,000, 6th Edition, dated Apr. 13, 1973.
12327 (formerly 369), scale 1:40,000, 64th Edition, dated
July 13, 1974.
12328 (formerly 369-SC), scale 1:40,000, 12th Edition, dated
Feb. 1, 1975.

Items to be applied to Nautical Charts immediately - None.

Items to be carried forward - None.

Submitted by:

Karin Baker
Karin Baker

Approved and Forwarded:

George W. Bue

COMPILATION OFFICE CHECK LIST

CLASS III MANUSCRIPT

TP - 00744

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 *J. E. Evans*14 Oct 76Supervisor *Joseph M. Bee*



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- 00744

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

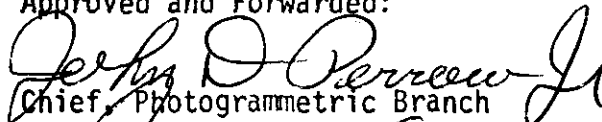
Because water penetration is apparent on the ratioed tide-coordinated infrared photography, the outermost photographic image of land, along the water-land interface line, was delineated as the approximate mean low water line. This approach was taken to add an element of boating safety for users of the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

Submitted by:

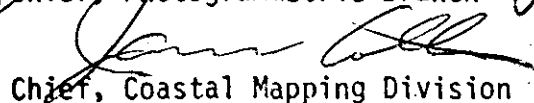
Edward L. Rolle



Approved and Forwarded:



Chief, Photogrammetric Branch



Chief, Coastal Mapping Division

March 24, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-00744

Bath Beach (locality)

Bay Ridge

Brooklyn

Clifton

Erie Basin

Fort Hamilton

Fort Wadsworth

Gravesend Bay

Gowanus Bay

Lower Bay

Military Ocean Terminal

Rosebank

St. George

South Beach (locality)

South Beach

Stapleton

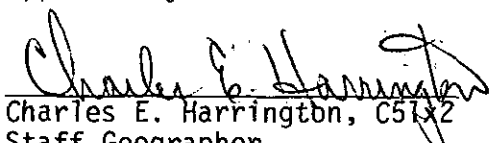
Staten Island

The Narrows

Tompkinsville

Upper Bay

Approved by:


Charles E. Harrington, C5132
Staff Geographer

* SVY TP-00744 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 1 OF 4 *
* JOB CM-7301 * NONFLOATING AIDS FOR CHARTS * STATE NEW YORK *
* PRJ N Y HARBOR* TO BE REVISED * LOCALITY THE NARROWS *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 *

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

* NEW YORK HARBOR - UPPER BAY *
* BAY RIDGE CHANNEL *

* LIGHT ✓ * BAY RIDGE AVE PIER LIGHT * 40 38 22.57 696.2 NOT *74E(C)7076* * 541 *
* (BEACON 69TH STREET 1932) * 74 02 20.69 486.2 DGTZD* 10/19/74 * * 12327 *

* LIGHT ✓ * GOWANNS BAY WHARF LIGHT * 40 39 52.66 1624.4 *74E(C)7076* * 541 *
* * 74 00 29.22 686.4 * 10/19/74 * * 12327 *

* NEW YORK HARBOR - UPPER BAY *
* BOYONNE TERMINAL CHANNEL *

* LIGHT ✓ * SEWER TERMINAL LIGHT * 40 39 29.76 918.0 *74E(C)7137* * 541 *
* PRIVATE AID * 74 03 54.51 1280.5 * 10/19/74 * * 12327 *

* NEW YORK HARBOR *
* MAIN CHANNEL *

* LIGHT ✓ * ROBBINS REEF LIGHT * 40 39 26.15 806.6 NOT *74E(C)7137* * 541 *
* (ROBBINS REEF LIGHT(USE) 1930) * 74 03 56.78 1333.9 DGTZD* 10/19/74 * * 12327 *

* * * * * 23 *

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

* SVY TP-00744 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 2 OF 4 *
* JOB CM-7301 * LANDMARKS FOR CHARTS * STATE NEW YORK *
* PRJ N Y HARBOR * TO BE REVISED * LOCALITY THE NARROWS * 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 *

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

* FLAG- ✓ * (FORT HAMILTON * 40 36 31.05 957.8 NOT *74E(C)7188* * 540 *
* POLE * FLAGPOLE 2 1942) * 74 01 58.57 1376.9 DGTZD* 10/19/74 * * 541 *
* SPIRE ✓ * (ROSEBANK ST JOHN PROS. * 40 36 41.08 1267.1 NOT *74E(C)7188* * 285 *
* * EPISCOPAL CH SPIRE 1930) * 74 03 50.25 1181.3 DGTZD* 10/19/74 * * 541 *
* SPIRE ✓ * (ROSEBANK ST MARYS CATHOLIC * 40 36 57.79 1782.6 NOT *74E(C)7188* * 285 *
* * CHURCH SPIRE 1930) * 74 04 03.69 86.7 DGTZD* 10/19/74 * * 541 *
* TOWER ✓ * ON U S PUBLIC HEALTH SERVICE * 40 37 20.35 627.7 *74E(C)7137* * 285 *
* * MARINE HOSPITAL * 74 04 32.83 771.6 * 10/19/74 * * 541 *
* CHY ✓ * (ROSEBANK WRIGLEY FACTORY * 40 37 04.40 135.7 NOT *74E(C)7188* * 285 *
* * NORTH CHIMNEY 1930) * 74 03 56.85 1336.3 DGTZD* 10/19/74 * * 541 *
* CHY ✓ * (ROSEBANK WRIGLEY FACTORY * 40 37 03.98 122.8 NOT *74E(C)7188* * 285 *
* * SOUTH CHIMNEY 1930) * 74 03 56.24 1322.0 DGTZD* 10/19/74 * * 541 *
* SPIRE ✓ * (BRIGHTON HEIGHTS REFORMED * 40 38 30.46 939.6 NOT *74E(C)7137* * 285 *
* * CHURCH SPIRE 1930) * 74 04 43.20 1015.1 DGTZD* 10/19/74 * * 541 *
* TOWER ✓ * (BORO HALL 1931) * 40 38 32.16 992.0 NOT *74E(C)7137* * 285 *
* * * 74 04 35.59 836.3 DGTZD* 10/19/74 * * 541 *
* TOWER ✓ * (ST GEORGE CURTIS HIGH SCHOOL * 40 38 42.54 1312.2 NOT *74E(C)7137* * 285 *
* * TOWER FLAGPOLE 1930) * 74 04 54.74 1286.2 DGTZD* 10/19/74 * * 541 *
* CLOCK ✓ * (FORT HAMILTON POLYTECHNIC * 40 36 43.71 1348.3 NOT *74E(C)7188* * 541 *
* TOWER * INSTITUTE CLOCK TOWER 1919) * 74 01 30.37 713.9 DGTZD* 10/19/74 * * 12327 *

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

* SVY TP-00744 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 3 OF 4 *
* JOB CM-7301 * LANDMARKS FOR CHARTS * STATE NEW YORK *
* PRJ N Y HARBOR * TO BE REVISED * LOCALITY THE NARROWS * ORIGINATING ACTIVITY *
* DTM NA 1927 * * DATE 09/08/77 * * COMPILATION *

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

* TOWER ✓ * (FORT HAMILTON HIGH SCHOOL	* 40 37 37.52	1157.3	NOT *74E(C)7188*	* 541 *
* TOWER 1944)	* 74 02 24.04	565.0	DGTZD* 10/19/74 *	* 12327 *

* RED ✓ * (BAY RIDGE E BLISS CO	* 40 38 58.56	1806.3	NOT *74E(C)7076*	* 541 *
* TOWER * FLAGPOLE 1930)	* 74 01 23.65	555.7	DGTZD* 10/19/74 *	* 12327 *

* TANK ✓ * WHITE TANK NEAR DRY DOCK ON	* 40 39 46.77	1442.7	*74E(C)7137*	* 541 *
* MILITARY OCEAN TERMINAL	* 74 04 16.11	378.4	* 10/19/74 *	* 12327 *

* TANK ✓ * WHITE TANK ON SOUTH SIDE OF	* 40 39 47.66	1470.1	*74E(C)7137*	* 285 *
* MILITARY OCEAN TERMINAL	* 74 04 33.45	785.7	* 10/19/74 *	* 541 *

* STACK * (BAY RIDGE BEMIS BROS. BAG.	* 40 38 47.03	1450.7	NOT *74E(C)7076*	* 541 *
* CO TALL CHY 1930)	* 74 01 31.21	733.3	DGTZD* 10/19/74 *	* 12327 *

* LIGHT ✓ * (FORT WADSWORTH LIGHTHOUSE	* 40 36 20.55	633.9	NOT *74E(C)7188*	* *
* HOUSE * 1930)	* 74 03 15.71	369.3	DGTZD* 10/19/74 *	* *

* CHARTED LDMK(S) NOT VISIBLE ON COMPILATION PHOTOS AND APPEAR
* DESTROYED. APPROX. POSITION(S) SCALED FROM EXISTING CHART. *

* FLAG- * POLE ✓ *	* 40 36 16.00	493.5	NOT *	* 540 *
	* 74 03 21.00	493.7	DGTZD*	* 541 *

25

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

* SVY TP-00744 * * RPT UNIT CMD ROCKVILLE, MD. * PAGE 4 OF 4 *
* JOB CM-7301 * LANDMARKS FOR CHARTS * STATE NEW YORK *
* PRJ N Y HARBOR * TO BE REVISED * LOCALITY THE NARROWS * ORIGINATING ACTIVITY *
* DTM NA 1927 * * DATE 09/08/77 * COMPILATION *

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* RECORD REASON FOR DELETION *	* LATITUDE DM *	* ALTEK *	* OF LOCATION *	* CHARTS *
* NAME * PUT TRIANGULATION NAMES IN () *	* LONGITUDE DP *	* DGTZD *	* OFFICE * FIELD *	* AFFECTED *

* CHARTED LDMK(S) NOT VISIBLE ON COMPILATION PHOTOS AND APPEAR
* DESTROYED. CONDITION OF TRIANGULATION STATION UNKNOWN. *

* STACK * (BAY RIDGE METROPOLITAN ENGINE	* 40 38 57.98	1788.4	NOT *	* 541 *
* CO STUBBY CHY 1930)	* 74 01 17.66	414.9	DGTZD*	* 12327 *

* STACK ✓ * (BAY RIDGE BUSH TERMINAL POWER	* 40 39 22.84	704.5	NOT *	* 541 *
* HOUSE S TWIN BLACK STACK 1930)	* 74 00 55.22	1297.3	DGTZD*	* 12327 *

* STACK * (BAY RIDGE BUSH TERMINAL POWER	* 40 39 23.16	714.4	NOT *	* 541 *
* HOUSE N TWIN BLACK STACK 1930)	* 74 00 55.75	1309.7	DGTZD*	* 12327 *

* GAS * (BAY RIDGE KINGS CO LIGHTING	* 40 37 53.83	1660.4	NOT *	* 541 *
* TANK * CO LARGEST GAS TANK 1930)	* 74 00 44.23	1039.5	DGTZD*	* 12327 *

* TANK * (GRAVESEND LOEWS ORIENTAL	* 40 36 21.89	675.2	NOT *	* 540 *
* THEATRE N TWIN TANK 1930)	* 74 00 10.12	237.9	DGTZD*	* 12327 *

* TANK * (GRAVESEND LOEWS ORIENTAL	* 40 36 21.81	672.7	NOT *	* 540 *
* THEATRE S TWIN TANK 1930)	* 74 00 10.21	240.0	DGTZD*	* 12327 *

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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 * K. BAKER * OFFICE COMPILER *

* FIELD AND OFFICE * NOT DIGITIZED * DIGITIZER *

* ACTIVITIES * G. FROMM * DATA PROCESSER *

TP-00744

National Archives Data

None

