ORIGINAL

TP-00755

TP-00755

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-00755

Classification No. III *Edition No.* 1

LOCALITY

State New York - New Jersey

General Locality Raritan Bay - Raritan River

Locality South Amboy

1974 TO 1975

REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY
- [X] ORIGINAL
- [ ] RESURVEY
- [ ] REVISED

SURVEY TP- 00755
MAP EDITION NO. (1)
MAP CLASS III
JOB CM-7301

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Division
Rockville, Maryland

OFFICER-IN-CHARGE
Commander James Collins

LAST PRECEEDING 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: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER; [X] MEAN LOW-WATER; [ ] MEAN LOWER LOW-WATER; [ ] MEAN SEA LEVEL — OTHER (Specify): National Geodetic Vertical Datam 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	I. Raborn	8/75
METHOD: Analytic	LANDMARKS AND AIDS BY	N/A	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	S. Solbeck	9/75
METHOD: Coradomat	CHECKED BY	N/A	
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	J. Schad	11/4/75
	CHECKED BY	G. Fromm	11/4/75
INSTRUMENT: Wild B-8	CONTOURS BY	N/A	
SCALE: 1:15,000	CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. Schad	11/11/75
	CHECKED BY	G. Fromm	11/19/75
	CONTOURS BY	N/A	
METHOD: Smooth Drafting	CHECKED BY	N/A	
	HYDRO SUPPORT DATA BY	N/A	
SCALE: 1:10,000	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.J. Cator	May 1978

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00755

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-8(E) & RC-10(B)
focal lengths - 152.7mm

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [X] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED B&W

TIME REFERENCE
ZONE: Eastern — [X] STANDARD
MERIDIAN: 75th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
74E(C)7097-7099	10/19/74	1156-1206	1:30,000	* -.14 Ft. MHW
74E(C)7195-7196	10/19/74	1317-1324	1:30,000	* -.42 Ft. MHW
74E(C)7126-7128	10/19/74	1215-1222	1:30,000	* -.79 Ft. MHW
7586972R-6974R (I)	11/1/75	1137-1141	1:30,000	Refer to the following page for tide information.
7585982R-5984R (I)	10/3/75	1204-1212	1:30,000	

REMARKS * Computation from 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 ~~was~~ IS the ~~natural color~~ photography listed under item 1. See paragraph 35 of the compilation report bound with this job.

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

The source of the mean low water line was the 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-00749	TP-00756	No contemporary surveys	

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 -00755

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE (in feet)	MEAN RANGE (in feet)
	SANDY HOOK (reference station)		4.6
75B6972R-6974R (Raritan River)	South Amboy (Sub. Sta.)	-0.11 MLW	5.0
75B6972R-6974R (Mouth of Arthur Kill)	Perth Amboy (Sub. Sta.)	-0.08 MLW	5.2
75B5982R-5984R (Raritan River)	South Amboy (Sub. Sta.)	-0.69 MLW	5.0
	Note: The reference Station(s) ONLY 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 ~~job~~ Descriptive Report.

NOAA FORM 76-36C
(3-72)

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

TP-00755

HISTORY OF FIELD OPERATIONS

I. [X] 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	8/25/74
	ESTABLISHED BY	N/A	
	PRE-MARKED OR IDENTIFIED BY	R. S. Tibbetts	8/25/74
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 [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [XX] 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

Premarked control

PHOTO NUMBER	STATION NAME
74C(C)1209 74E(C)6851	Sayreville, Jersey Central Power and Light Co. Tall Tank, 1932

2. VERTICAL CONTROL IDENTIFIED

None

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

C&GS form 152 (Control Station Identification)

NOAA FORM 76-36C
(3-72)

☆U.S. Government Printing Office: 1975 — 665-661/1110, Region No. 6

NOAA FORM 76-36D
(3-72)

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

TP-00755

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
3		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

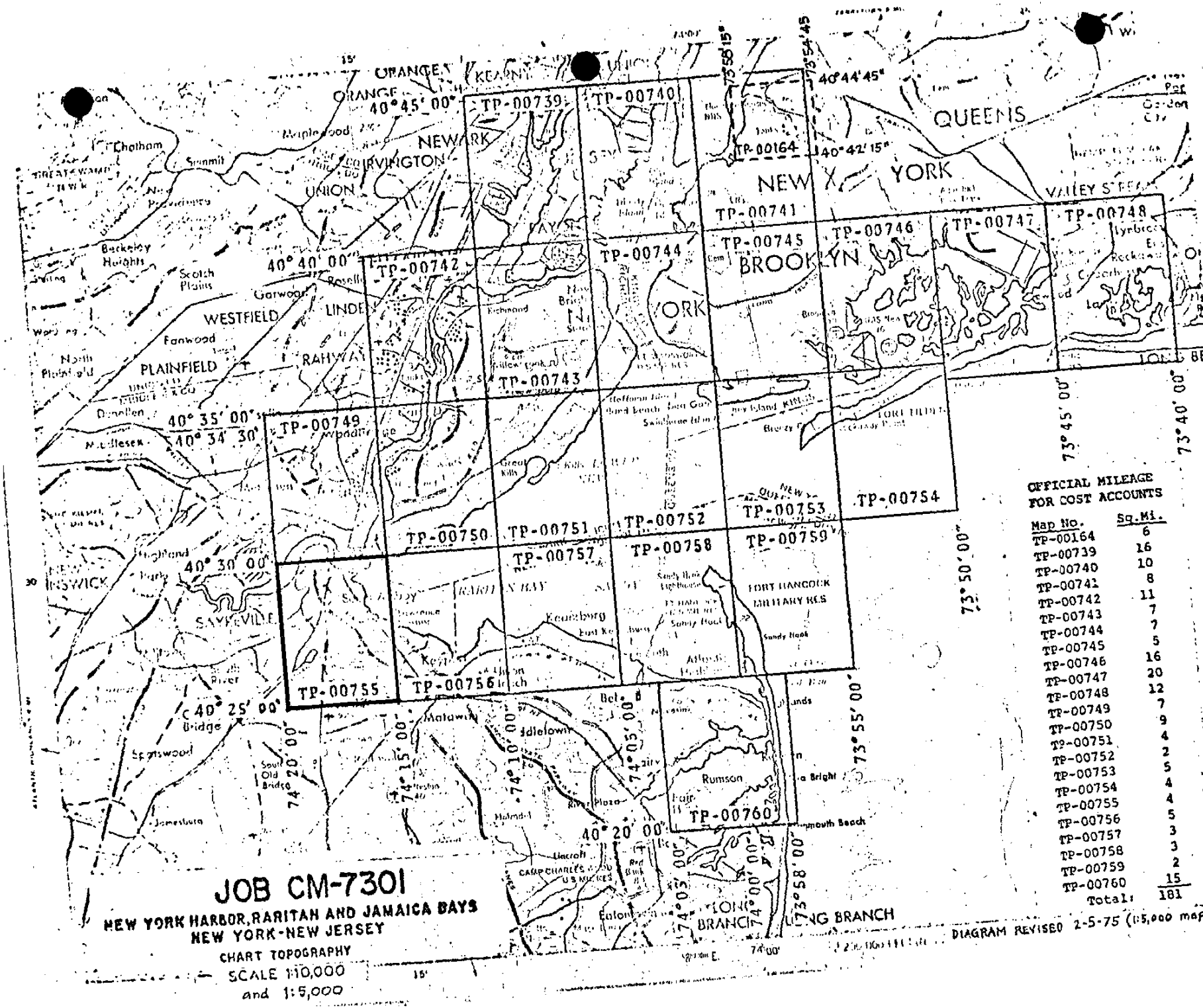
1. ☒ *BRIDGING PHOTOGRAPHS;* ☒ *DUPLICATE BRIDGING REPORT;* ☒ *COMPUTER READOUTS.*
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. ☐ DATA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

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ 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	

NOAA FORM 76-36D

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



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

DIAGRAM REVISED 2-5-75 (15,000 map adde

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 proceedures.

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-00739 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

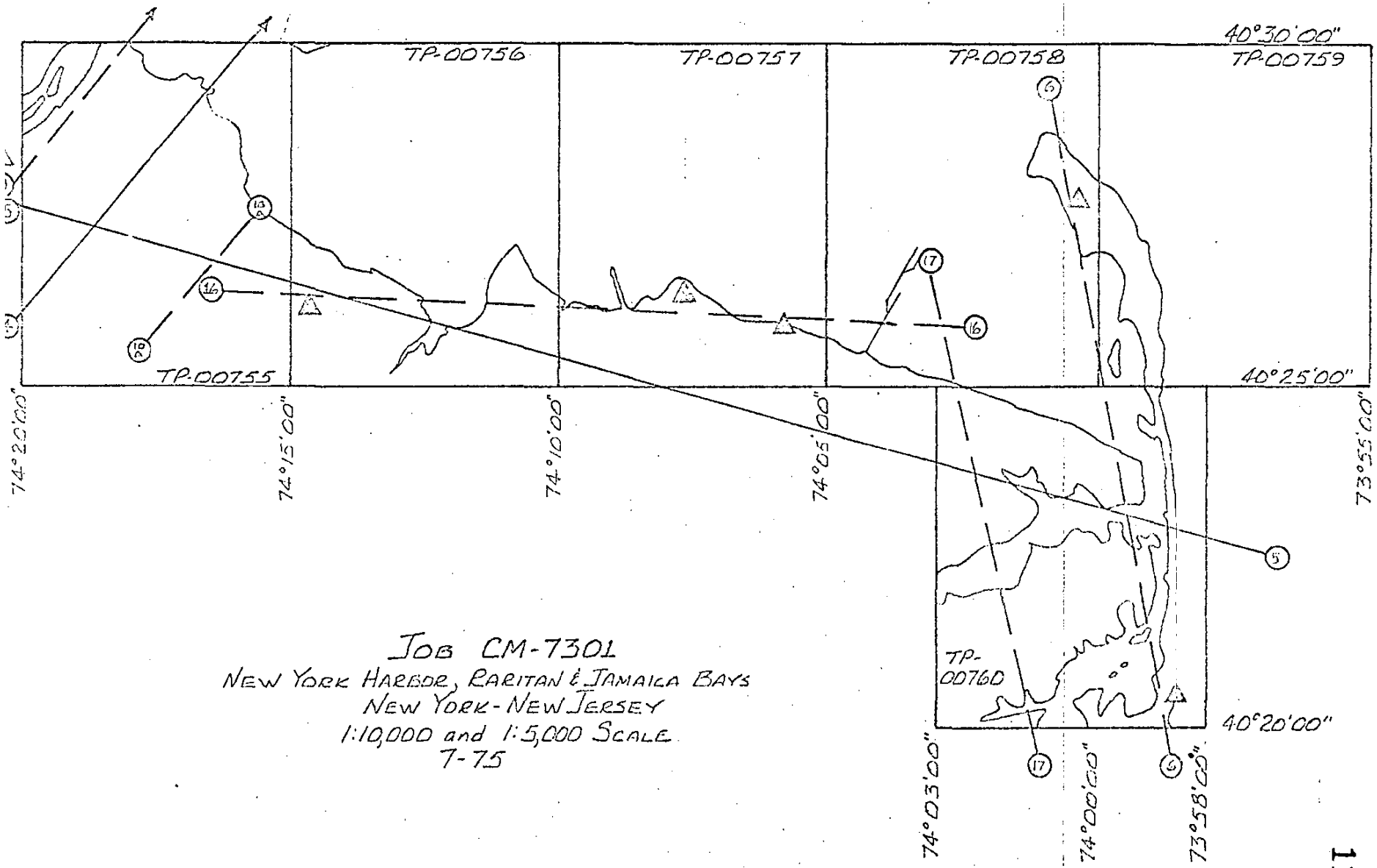
The photography was adequate as to coverage and overlap except for the 1:5,000 scale sheet, TP-00164. This photography has not been taken as of this report. Definition of the photography at all scales was very poor due to haze at time of photography.

Respectfully submitted,

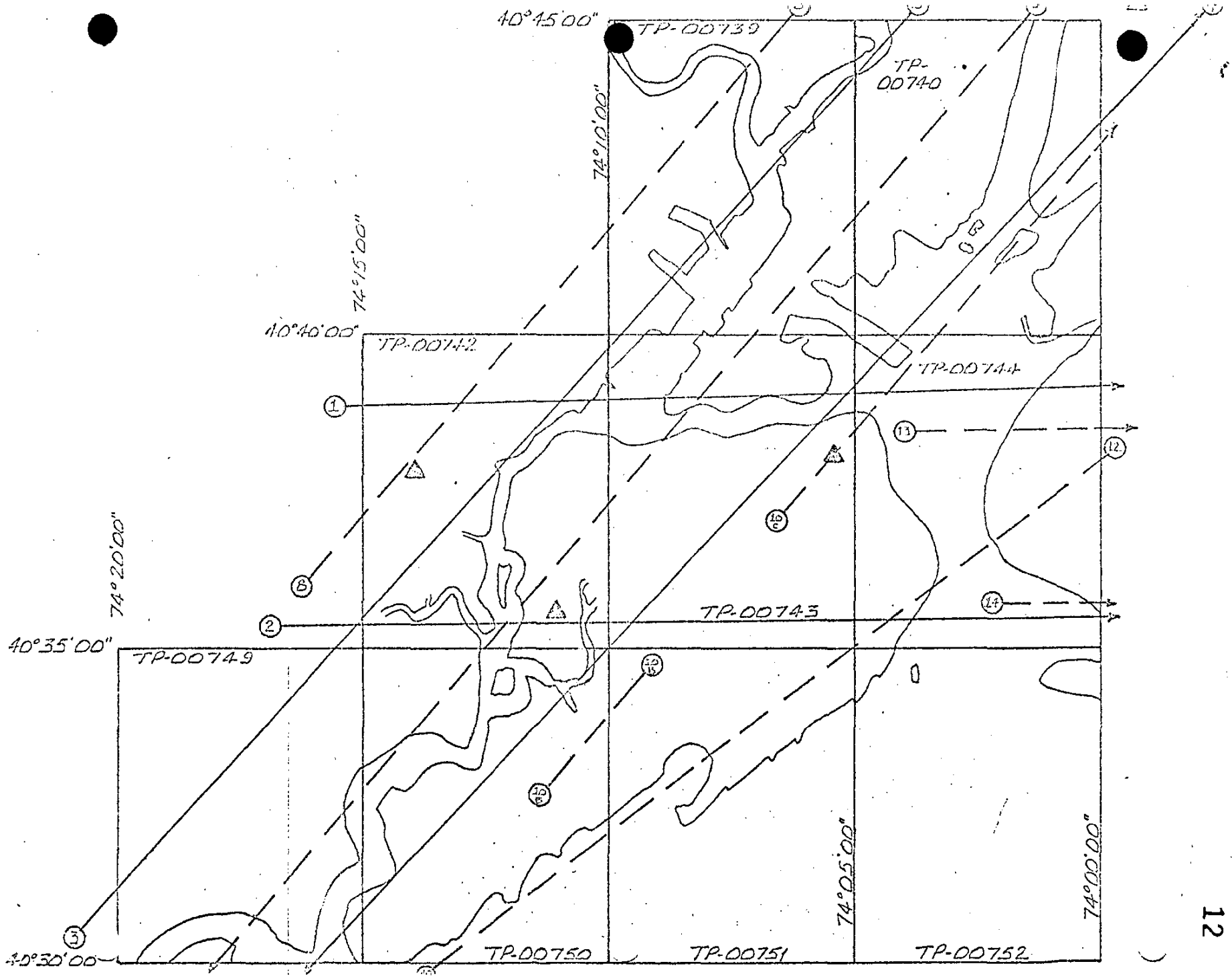
Ivey O. Raborn

Approved and forwarded:

John D. Perrow, Jr.
Chief, Aerotriangulation Section



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


40°45'00"
TP-00739
TP-00740
74°10'00"
74°15'00"
40°40'00"
TP-00742
TP-00744
1
11
12
10c
8
TP-00743
14
74°20'00"
2
40°35'00"
TP-00749
10b
10a
3
40°30'00"
TP-00750
TP-00751
TP-00752
74°05'00"
74°00'00"

TR-0074
TR-0074
TR-0074
TR-0074
TR-0074
TR-0074
73°40'00"
73°45'00"
73°50'00"
73°55'00"
40°35'00"
40°32'30"
40°42'15"
75°58'15"
73°54'45"

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

Original 1 of 2

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00755	CM-7301	N.A. 1927	Coastal Mapping Div. Rockville Md.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE _____ ZONE _____	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
RARITAN BAY NEW JERSEY CENT. P&L CO TANK 1931 ✓	NJ Vol I GP-P480	208111	x= y=	ϕ 40-29-26.242 λ 74-16-54.373	
BEACON 5A 1932 ✓	NJ Vol II GP-P246	100	x= y=	ϕ 40-29-43.788 λ 74-15-07.425	
GREAT BEDS Lighthouse 1908 ✓	NJ Vol II GP-P25	208110	x= y=	ϕ 40-29-11.587 λ 74-15-12.406	
S. AMBOY CHRIST CH. SPIRE 1930 ✓	NJ Vol I GP-P480	103	x= y=	ϕ 40-29-09.929 λ 74-17-07.751	
S AMBOY SEABOARD DOCK CO. CHY 1926	NJ Vol I GP-P.480	102	x= y=	ϕ 40-29-18.413 λ 74-16-41.480	Not plotted on manuscript
RARITAN RIVER BEACON 4 1934	NJ Vol I GP-P477	150	x= y=	ϕ 40-29-13.348 λ 74-19-59.923	
CHEESE QUAKE CREEK LT 1930	NJ Vol I GP-P481	162111	x= y=	ϕ 40-27-55.917 λ 74-15-27.458	
CHEESEQUAKE CREEK BEACON 1930 ✓	NJ Vol I GP-P481	162112	x= y=	ϕ 40-27-54.395 λ 74-15-24.803	
S. AMBOY SACRED HEART CH & CUPOLA 1916	NJ Vol I GP-P445	149	x= y=	ϕ 40-26-48.575 λ 74-26-26.106	
S. AMBOY SACRED HEART POLISH CH N. CUPOLA 1930 ✓	NJ Vol I GP-P543		x= y=	ϕ 40-28-48.833 λ 74-17-25.587	149

COMPUTED BY	N/A	DATE	COMPUTATION CHECKED BY	N/A	DATE
LISTED BY	G. Fromm	DATE	LISTING CHECKED BY	G. Ball G Ball	DATE Nov 11, 1975
HAND PLOTTING BY	N/A	DATE	HAND PLOTTING CHECKED BY	N/A	DATE

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

CT

Original 2 of 2

NOAA FORM 76-41 (6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-00755	CM-7301	N. A. 1927	Coastal Mapping Div., Rockville Md.

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE ____ ZONE ____	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
S AMBOY STANDPIPE 1931 ✓	NJ Vol I GP-P480	148	x=	φ 40-28-28.350	
			y=	λ 74-17-21.766	
RARITAN RIVER CUT OFF CHANNEL LT 2 1962 ✓	Unadjusted	93	x=	φ 40-29-34.07	
			y=	λ 74-16-16.01	
RARITAN BAY. BEACON 2 1932 ✓	NJ Vol I GP-P481	101	x=	φ 40-29-07.675	
			y=	λ 74-15-37.121	
S. AMBOY JERSEY CENT. P & L CO. MIDDLE STACK 1931 ✓	NJ Vol I GP-540		x=	φ 40-29-28.327	Not plotted on manuscript
			y=	λ 74-16-56.249	
CHEESEQUAKE CR. EAST TRANSMISSION TOWER 1930	NJ Vol I GP-P481	162113	x=	φ 40-27-45.414	Not plotted on sheet. Appears destroyed and relocated nearby.
			y=	λ 74-15-31.414	
CHEESEQUAKE CR WEST TRANSMISSION TOWER 1930	NJ Vol I GP-P481	162110	x=	φ 40-27-46.569	Not plotted on sheet. Appears destroyed and relocated nearby.
			y=	λ 74-15-34.403	
			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 Freeman	DATE	LISTING CHECKED BY	[signature]	DATE Nov 11, 1975
HAND PLOTTING BY	N/A	DATE	HAND PLOTTING CHECKED BY	N/A	DATE

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

QT

TP-00755
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 supplement instrument compilation of alongshore details.

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. The western shoreline (bkhd in ruins) of the islands in the Raritan River was compiled graphically from the later date infrared photography.

Alongshore detail was delineated by office interpretation of the color photography, supplemented by the later date infrared photography. Some additional features only identifiable from the infrared photography were compiled graphically.

* 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.

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 76-36B, 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:

Keyport, NJ-NY, 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:

12327(formerly 369) 1:40,000 scale, 65th edition, Feb. 1, 1975
12328(formerly 369-SC) 1:40,000 scale, 12th edition, Feb. 1975
12332(formerly 375) 1:20,000 scale, 16th edition, Nov.18,1972
12331(formerly 286),1:15,000 scale, 19th edition, Sept. 7, 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:

Thomas M. Pratt

COMPILATION OFFICE CHECK LIST

CLASS III MANUSCRIPT

TP - 00755

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. Cramm 14 Oct 76 Supervisor [signature]

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Rockville, Md. 20852

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-00755

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 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 of marsh," because of the dense concentration of other map detail.

Submitted by:

Edward L. Rolle

Edward L. Rolle

Approved and Forwarded:

John D. Arrow Jr.

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-00755

Cheesequake Creek

Crossway Creek

Ferry Point

Flat Creek

Melvins Creek

Morgan

Morgan Beach

N.Y. & Long Branch (RR)

Raritan Bay

Raritan River

Reed Root Creek

South Amboy

Stump Creek

Ward Point

Approved by:

Charles E. Harrington

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-00755 | RPT UNIT CMD ROCKVILLE, MD. | PAGE 1 OF 3
JOB CM-7301 | NONFLOATING AIDS FOR CHARTS | STATE NEW JERSEY
PRJ N Y HARBOR | TO BE REVISED | LOCALITY SOUTH AMBOY | 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 NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
	NEW YORK HARBOR - RARITAN BAY						
-LIGHT 58	(BEACON 5A 1932)	40 29 43.79 74 15 07.43	1350.7 175.0	NOT DGTZD	*74E(C)7196* 10/19/74		12327 12331 12332
	NEW YORK HARBOR - RARITAN BAY CHEESEQUAKE CREEK						
LIGHT	CHEESEQUAKE OUTFALL SEWER LT	40 27 58.54 74 15 27.92	1805.7 657.8		*74E(C)7196* 10/19/74		12327 12331 12332
-LIGHT	(CHEESEQUAKE CREEK LIGHT 1930)	40 27 55.92 74 15 27.46	1724.8 646.9	NOT DGTZD	*74E(C)7196* 10/19/74		12327 12331 12332
-DYBN	(CHEESEQUAKE CREEK BEACON 1930)	40 27 54.40 74 15 24.80	1678.0 584.3	NOT DGTZD	*74E(C)7196* 10/19/74		12327 12331 12332

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

76-40 LISTING

PHOTOGRAMMETRIC BRANCH
COASTAL MAPPING DIVISION

NATIONAL OCEAN SURVEY NOAA
DEPARTMENT OF COMMERCE USA

DATATAB VERSION 770818

SVY	TP-00755		RPT UNIT	CMD ROCKVILLE, MD.	PAGE 2 OF 3
JOB	CM-7301	NONFLOATING AIDS FOR CHARTS	STATE	NEW JERSEY	
PRJ	N Y HARBOR	TO BE REVISED	LOCALITY	SOUTH AMBOY	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 NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
	NEW YORK HARBOR - RARITAN BAY RARITAN RIVER						
LIGHT	(GREAT BED LIGHTHOUSE 1908)	40 29 11.59 74 15 12.41	357.5 292.3	NOT DGTZD	74E(C)7196 10/19/74		12327 12331 12332
-LIGHT 4	(RARITAN BAY BEACON 1, 1932)	40 29 07.68 74 15 37.12	236.9 874.3	NOT DGTZD	74E(C)7196 10/19/74		12327 12331 12332
LIGHT	WRECK LIGHT WR23A	40 29 30.06 74 19 42.33	927.2 996.9		74E(C)7098 10/19/74		12332
-LIGHT 27	(RARITAN RIVER BEACON 4, 1932)	40 29 13.35 74 19 59.92	411.8 1411.2	NOT DGTZD	74E(C)7098 10/19/74		12332
	NEW YORK HARBOR - RARITAN BAY RARITAN RIVER CUTOFF CHANNEL						
-LIGHT 1		40 29 53.78 74 15 42.29	1658.8 995.8		74E(C)7196 10/19/74		12327 12331 12332
-LIGHT 6	(RARITAN RIVER CUTOFF CHANNEL LIGHT 2, 1962)	40 29 34.07 74 16 16.01	1050.9 377.0	NOT DGTZD	74E(C)7196 10/19/74		12327 12331 12332

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

SVY TP-00755		RPT UNIT CMD ROCKVILLE, MD.	PAGE 3 OF 3
JOB CM-7301	LANDMARKS FOR CHARTS	STATE NEW JERSEY	
PRJ N Y HARBOR	TO BE REVISED	LOCALITY SOUTH AMBOY	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 NAME	DESCRIPTION RECORD REASON FOR DELETION PUT TRIANGULATION NAMES IN ( )	POSITION LATITUDE LONGITUDE	DM DP	CMD ALTEK DGTZD	METHOD AND DATE OF LOCATION OFFICE	FIELD	CHARTS AFFECTED
STACK		40 29 18.56	572.5		74E(C)7196		12327
		74 16 42.41	998.8		10/19/74		12331
							12332
STACK		40 29 29.70	916.1		74E(C)7196		12327
		74 16 55.13	1298.3		10/19/74		12328
							12332
TANK	(RARITAN BAY JERSEY CENTRAL	40 29 26.24	809.4	NOT	74E(C)7196		12332
	POWER AND LT CO TANK 1931)	74 16 54.37	1280.4	DGTZD	10/19/74		
SPIRE	(SOUTH AMBOY CHRIST CHURCH	40 29 09.93	306.3	NOT	74E(C)7098		12327
	SPIRE 1930)	74 17 07.75	182.5	DGTZD	10/19/74		12331
							12332
CUPOLA	(SOUTH AMBOY SACRED HEART	40 28 48.58	1498.5	NOT	74E(C)7098		12332
	CHURCH SOUTH CUPOLA 1918)	74 17 26.11	615.0	DGTZD	10/19/74		
CUPOLA	(SOUTH AMBAOY SACRED HEART	40 28 48.83	1506.2	NOT	74E(C)7098		12332
	POLISH CHURCH N CUPOLA 1930)	74 17 25.59	602.8	DGTZD	10/19/74		
STAND-PIPE	(SOUTH AMBOY STANDPIPE 1931)	40 28 28.35	874.5	NOT	74E(C)7098		12332
		74 17 21.77	512.8	DGTZD	10/19/74		

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

TP-00755

National Archives Data

One C&GS Form 152 (Control Station Identification)

Photography: 74-C(C) 1209 & 74-E(C) 6851

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. ____________

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 Rev.

CHART	DATE	CARTOGRAPHER	REMARKS
~~286~~	5-3-79	Josephine R. Harris	Full ~~Part Before~~ After Verification Review Inspection Signed Via
12331			Drawing No. 34
			CONSIDERED ADEQUATELY APPLIED UNTIL DIGITIZED
~~375~~	5-15-79	Josephine R. Harris	Full ~~Part Before~~ After Verification Review Inspection Signed Via
12332			Drawing No. 17
			CONSIDERED ADEQUATELY APPLIED UNTIL DIGITIZED
12327	6-20-79	Kevin Shaw	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. 88 (CONSIDERED ADEQUATELY APP'D UNTIL DIGITIZED)
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.