TP-01291

TP-01291

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED

Map No.	*Edition No.*
TP-01291	1

Job No.
CM-8315

Map Classification
CLASS III (FINAL)

Type of Survey
SHORELINE

LOCALITY

State
CONNECTICUT

General Locality
SAUGATUCK RIVER TO CONNECTICUT RIVER

Locality
NEW HAVEN

19 83 TO 19 84

REGISTERED IN ARCHIVES

DATE

* U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

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-01291

MAP EDITION NO. (1)

MAP CLASS III Final

JOB ~~PH~~ CM-8315

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE: C. Dale North, Jr.

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	
Aerotriangulation	September 6, 1985	Control	February 15, 1984
Compilation	April 15, 1987		

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)

3. MAP PROJECTION: Lambert Conformal Projection

4. GRID(S): STATE: Connecticut; ZONE: Connecticut

5. SCALE: 1:20,000 — STATE: ; ZONE:

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	B. Thornton	Oct. 1985
	LANDMARKS AND AIDS BY	D. Norman	Oct. 1985
2. CONTROL AND BRIDGE POINTS METHOD: Xynetics 1201	PLOTTED BY	F. Mauldin	Dec. 1986
	CHECKED BY	F. Mauldin	Dec. 1986
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:20,000	PLANIMETRY BY	R. Kravitz	Aug. 1987
	CHECKED BY	F. Mauldin	Aug. 1987
	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION METHOD: Smooth Drafted SCALE: 1:20,000	PLANIMETRY BY	R. Kravitz	Sept. 1987
	CHECKED BY	F. Mauldin	Oct. 1987
	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	R. Kravitz	Sept. 1987
	CHECKED BY	F. Mauldin	Oct. 1987
5. OFFICE INSPECTION PRIOR TO Final Review	BY	F. Mauldin	Oct. 1987
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW Class III	BY	F. Mauldin	Oct. 1987
8. FINAL REVIEW Class III	BY	L. O. Neterer, Jr.	Apr. 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. O. Neterer, Jr.	June 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Aug 1988
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	J. Rikon	Dec 1988

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-01291

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S)
Wild RC 10(B) (B = 152.74mm)
Wild RC 10(C) (C = 88.46mm)

TIDE STAGE REFERENCE
- ☐ PREDICTED TIDES
- ☒ REFERENCE STATION RECORDS
- ☐ TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Eastern — ☒ STANDARD
MERIDIAN: 75th — ☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
83 C(C) 0590-0594	11-08-83	10:50	1:50,000	4.8 ft. above MLW
83 C(C) 0619-0622	11-08-83	11:22	1:50,000	5.67 ft. above MLW
83 C(I) 0539-0542	11-01-83	13:13	1:50,000	0.03 ft. above MLW
84 B(I) 0635-0638	06-27-84	08:56	1:50,000	0.39 ft. below MHW
84 B(I) 0653-0656	06-27-84	09:25	1:50,000	0.29 ft. below MHW
83 C(I) 0568-0570	11-01-83	13:49	1:50,000	0.36 ft. below MLW
83 C(C) 7420-7421	10-31-83	11:12	1:30,000	1.4 ft. above MLW
				Mean Tide Range = 6.7 ft.

REMARKS

Stage of tide for all photographs was based on reference station records for the staff at Bridgeport.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from office interpretation of the above listed compilation/bridging color photographs using stereo instrument methods. The tide coordinated black and white infrared photographs taken near mean high-water were used to assist in the interpretation of the MHW line.

3. SOURCE OF MEAN LOW-WATER LINE:

The mean low-water line was compiled graphically from the black and white tide coordinated infrared ratio photographs that were taken near mean low-water.

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
No Survey	TP-01292	No Survey	TP-01290

REMARKS

NOAA FORM 76-36B
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

TP-01291

HISTORY OF FIELD OPERATIONS

I. [X] FIELD [redacted] OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Shea	Apr. 1984
2. HORIZONTAL CONTROL	RECOVERED BY	C. Middleton	Apr. 1984
	ESTABLISHED BY	C. Middleton	Apr. 1984
	PRE-MARKED OR IDENTIFIED BY	C. Middleton	Apr. 1984
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 [X] NO INVESTIGATION — BY		
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

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
83C(C)0593	KOPPERS NEW CROSS, 1984 (Station established and 2 subpoints identified)		

3. PHOTO NUMBERS *(Clarification of details)*

None

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)*

1 Form 76-53
2 Forms 76-86
2 Forms 76-19
1 Form 76-135
11 Forms 75-82A

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)

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

TP-01291

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	Oct. 1987	Class III Manuscript		
Final Review	Apr. 1988	Final Class III Map		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
3			Charted landmarks and aids to navigation forms

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. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] 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:

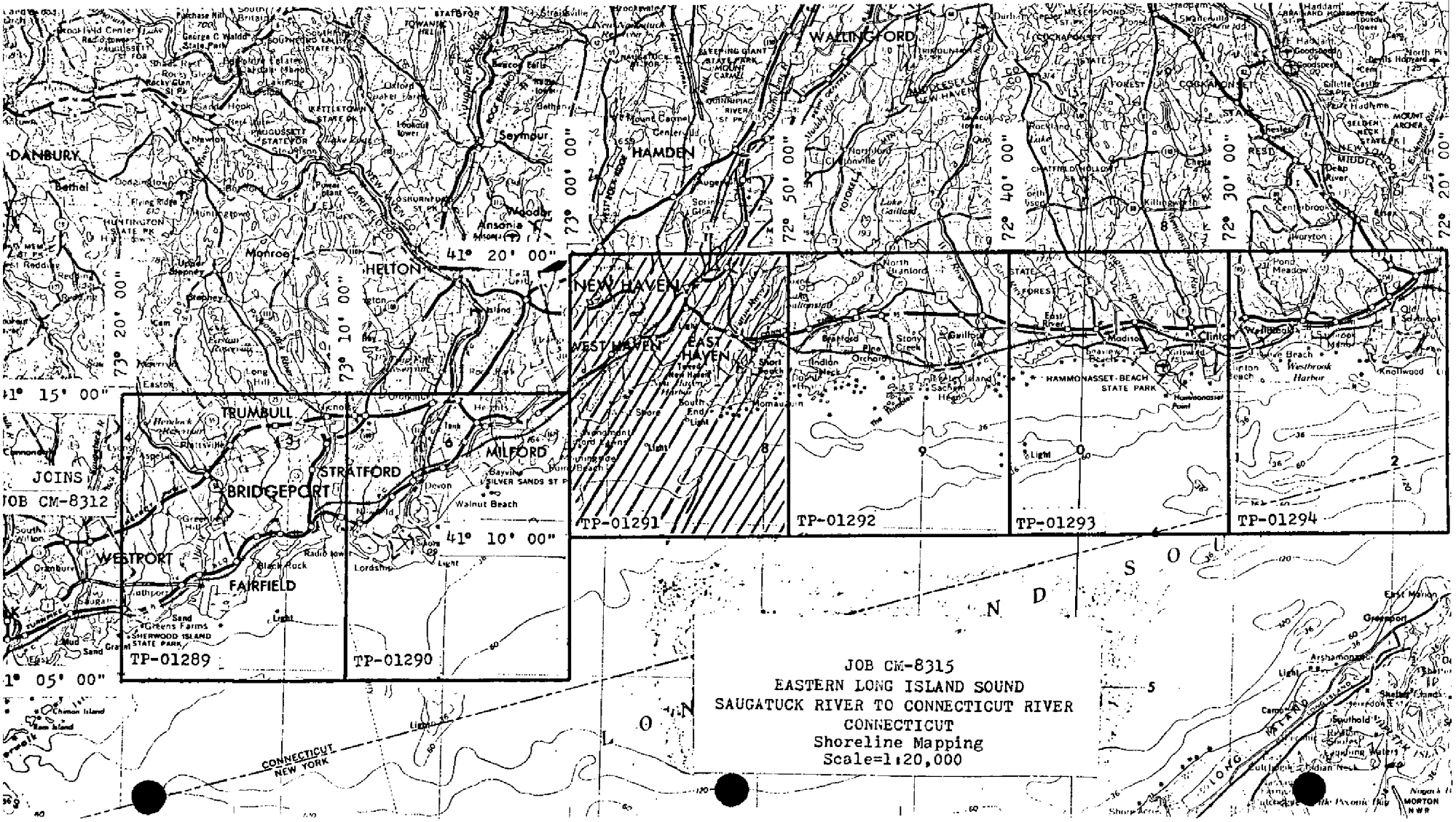
76-40

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
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH- _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL

☆ U.S. GPO: 1977-765-092/1106 Region 6


JOB CM-8315
EASTERN LONG ISLAND SOUND
SAUGATUCK RIVER TO CONNECTICUT RIVER
CONNECTICUT
Shoreline Mapping
Scale=1:20,000
TP-01289
TP-01290
TP-01291
TP-01292
TP-01293
TP-01294
DANBURY
WALLINGFORD
HAMDEN
NEW HAVEN
WEST HAVEN
EAST HAVEN
HELTON
TRUMBULL
BRIDGEPORT
STRATFORD
MILFORD
WESTPORT
FAIRFIELD
HAMMONASSET BEACH STATE PARK
CONNECTICUT
NEW YORK
LONG ISLAND SOUND
41° 20' 00"
41° 15' 00"
41° 10' 00"
41° 05' 00"
73° 20' 00"
73° 10' 00"
73° 00' 00"
72° 50' 00"
72° 40' 00"
72° 30' 00"
72° 20' 00"

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01291

This 1:20,000 scale map is one of six maps at 1:20,000 scale in project CM-8315, Eastern Long Island Sound, Saugatuck River to Connecticut River, Connecticut. The project extends from longitude 72° 20' 00" west to longitude 73° 20' 00".

Photographic coverage was provided in October and November 1983 with the "C" camera (focal length = 88.46 millimeters) using color film at both 1:30,000 and 1:50,000 scale and infrared film (November only) at 1:50,000 scale and in June 1984 using the "B" camera (focal length = 152.74 millimeters) with infrared film at 1:50,000 scale. The infrared photography was tide coordinated at both mean high and mean low water.

Field work prior to compilation was accomplished during April 1984. This consisted of photoidentification of horizontal control to satisfy aerotriangulation requirements.

Analytic aerotriangulation was adequately performed at the Washington Science Center in October 1985. The manuscripts were ruled at the Atlantic Marine Center from the data furnished by the aerotriangulation process.

Compilation was performed at the Atlantic Marine Center, from office interpretation of the 1:50,000 scale color and infrared photography, in October 1987.

Final review was performed at the Atlantic Marine Center in April 1988. A Chart Maintenance Print, for Marine Charts Branch, and Notes to Hydrographer Print, for the Hydrographic Branch were forwarded. This map is to be registered as a Final Class III Map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.

AEROTRIANGULATION REPORT
CM-8315
Eastern Long Island Sound
Saugatuck River to Connecticut River, Connecticut
October 1985

21. Area Covered

This report covers the Long Island Sound, Connecticut area from Saugatuck River to Connecticut River. The project consists of six 1:20,000-scale sheets; TP-01289 through TP-01294.

22. Method

Three strips of 1:50,000-scale color photographs were bridged by analytic aerotriangulation methods and adjusted to ground using field identified control and office identified intersection stations.

Strip 50-1 was measured using the National Ocean Service Analytic Plotter (NOSAP) under control of the Integrated Digital Photogrammetric Facility Software (IDPF). Strip 50-2 and Strip 50-3 were measured using the Wild STK Comparator.

Tie points were used to ensure adequate junction of all strips, and in addition, were used as supplemental control for strips 50-2 and 50-3.

Common image points were established between the 1:50,000-scale color bridging photographs and two 1:30,000-scale color supplemental photographs (1983 B(C) 7420 and 7421) which will be used to compile a section of TP-01291 which is not covered by the bridging photographs.

Ratio values were determined for the 1:50,000-scale color bridging photographs, the 1:30,000-scale color supplemental photographs, and the 1:50,000-scale MLW and MHW infrared photographs. A copy of these values and sketches of the photo coverage are attached to this report.

A magnetic plotting tape for ruling the base manuscripts depicting the Lambert Conformal Conic Projection with grid ticks based on the Connecticut State Plane Coordinate System has been prepared.

23. Adequacy of Control

The control was adequate and meets the National Ocean Service requirements. A listing of closures to control is attached.

24. Supplemental Data

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS Nautical Charts were used to locate aids and landmarks.

25. Photography

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by,

Brian Thornton

Approved and Forwarded:

Don O. Norman

Don O. Norman
Chief, Aerotriangulation Unit

FIT TO CONTROL

▲ = Control point held in adjustment

■ = Tie point held in adjustment

STRIP #50-1

	STATION NAMES		POINT NO	VALUES IN FEET X	Y
▲	Westbrook Tank 1934		208100	-1.7	-0.3
	Milford Episcopal Church Spire 1884,	Sub Pt 3A	590101	-1.0	+0.8
	" " " " " ,	Sub Pt 3B	590102	+1.3	-0.2
▲	" " " " " ,	Sub Pt 3C	590103	+0.7	-0.2
	Koppers New Cross,	Sub Pt 4A	593101	-2.1	+1.0
	" " " ,	Sub Pt 4B	593102	0.0	-0.4
▲	Lyme 1934,	Sub Pt 7A	608101	+0.1	+0.6
	" " ,	Sub Pt 7B	608102	+0.2	+0.1
	Hammonasset 3 1932,	Sub Pt 6A	613101	-1.9	-2.1
	" " " ,	Sub Pt 6B	613102	+0.7	+1.4
▲	Guilford Cong Church Spire 1933,	Sub Pt 5A	616101	-0.1	-0.6
	" " " " "	Sub Pt 5B	616102	+1.9	-0.7

Strip #50-2

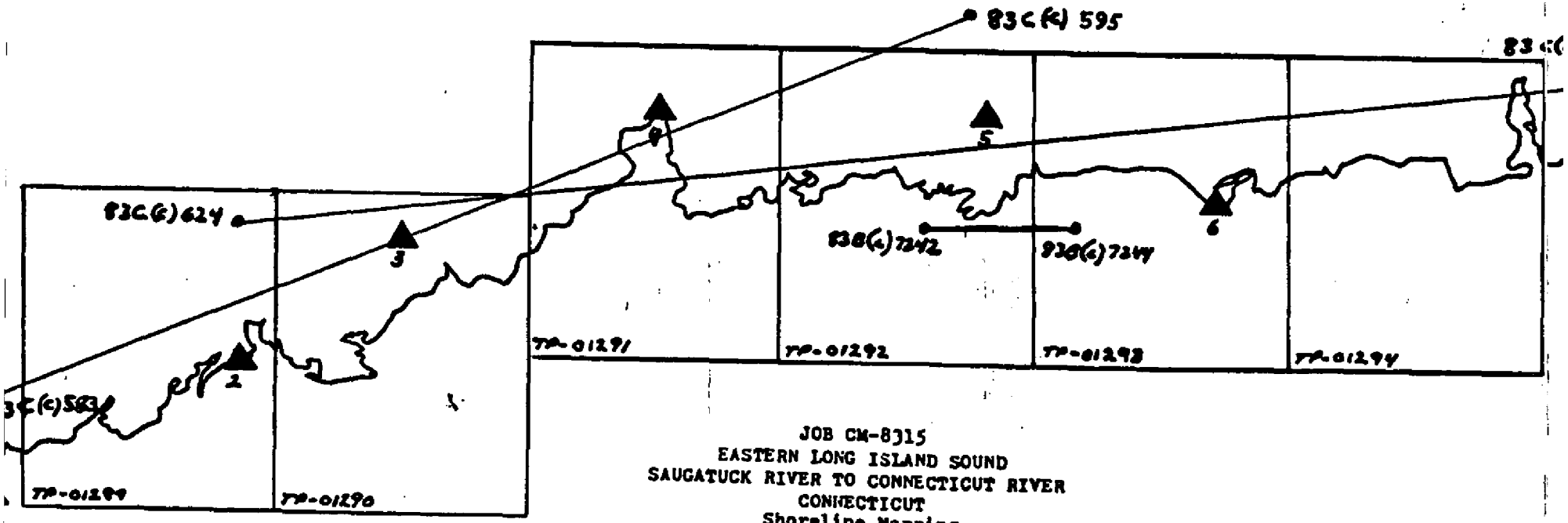
■	Tie from Strip #50-1		242801	-0.1	-0.7
	" " " "		242802	-1.7	+0.6
	" " " "		242803	-1.8	+0.5
■	" " " "		243801	+0.5	+1.5
	" " " "		243802	-0.5	+1.5
	" " " "		243803	+0.7	+3.0
	Guilford Cong Church Spire 1933		616100	-0.8	+1.2
	" " " " "	Sub Pt 5A	616101	-0.7	+2.3
	" " " " "	Sub Pt 5B	616102	+0.4	+1.4
	Hogshead Point Boulder 1934		180100	-0.2	-1.4
	Falkner Island Lighthouse 1882		182100	+0.8	-0.2
	Guilford Standpipe 1933		185100	+1.1	+1.7
■	Tie from Strip #50-1		244801	-0.4	-0.8
	" " " "		244802	-1.6	+1.2
	" " " "		244803	-0.1	+1.1

Strip #50-3

▲ Cedar 2 1955,	Sub Pt 1A	583101	+2.1	+1.6
▲ " " " ,	Sub Pt 1B	583102	-0.4	-0.7
▲ WICC South Radio Tower,	Sub Pt 2A	587101	-0.6	+1.2
" "	Sub Pt 2B	587102	-1.2	+1.8
▲ " " " " ,	Base 2 C	587103	-1.3	+2.1
Tie from Strip #50-1		589801	-2.8	-2.9
" " " "		589802	-5.1	-2.5
■ " " " "		589803	-2.2	-1.9
" " " "		589804	-0.9	+1.8
" " " "		589805	+2.1	-2.5
■ " " " "		589806	-0.2	-2.7
▲ Milford Episcopal Church Spire 1884,	Sub Pt 3A	590101	+3.8	+2.3
" " " " "	Sub Pt 3B	590102	+7.3	+2.2
▲ " " " " "	Sub Pt 3C	590103	-0.5	+3.7
▲ Koppers New Cross,	Sub Pt 4A	593101	+1.4	-1.9
▲ " " "	Sub Pt 4B	593102	+3.5	+1.3
Tie from Strip #50-1		593801	+2.4	+4.7
" " " "		593802	+4.2	+6.2
" " " "		593803	+3.4	+5.6
" " " "		593804	-1.1	-0.8
" " " "		593805	-1.0	+1.2
" " " "		593806	-0.7	+0.6
■ " " " "		594801	-0.8	+2.0
" " " "		594802	-1.4	+1.7
" " " "		594803	-1.3	+4.1
" " " "		594804	-4.3	-2.7
" " " "		594805	-1.8	-2.8
■ " " " "		594806	-2.6	-1.9

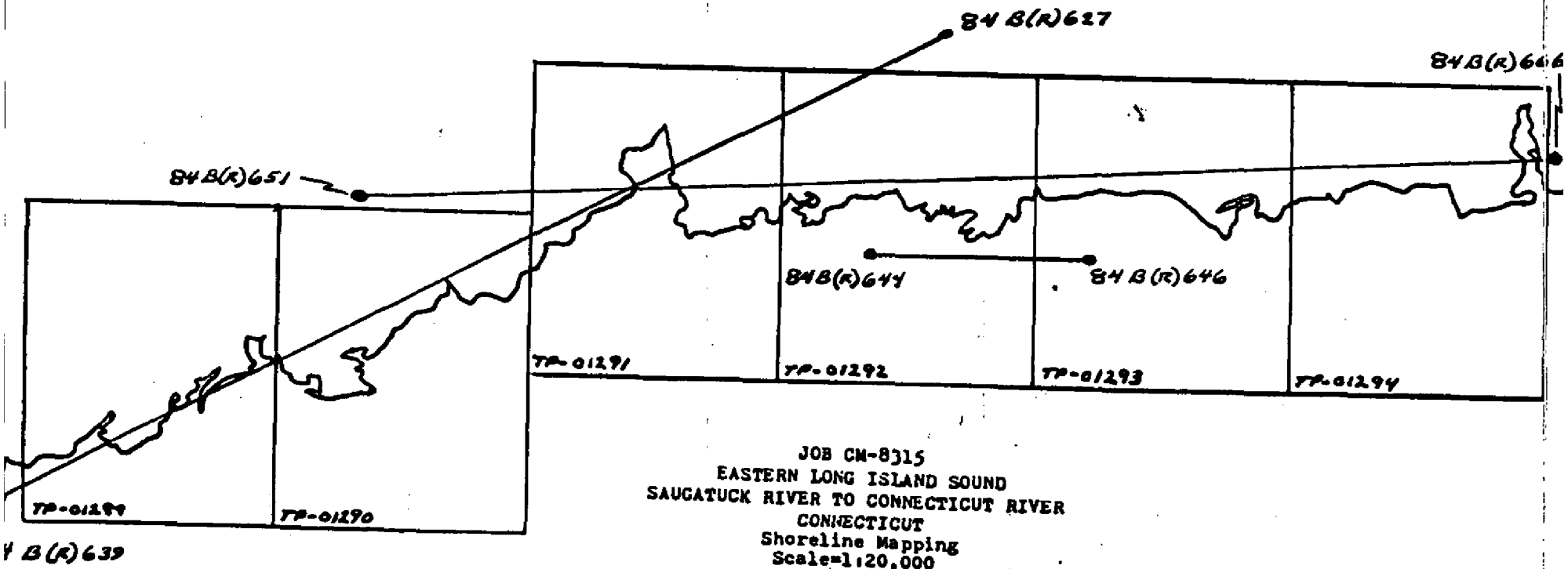
HORIZONTAL CONTROL

1. CEDAR 2, 1955
2. WICC SOUTH RADIO TOWER
3. MILFORD EPISCOPAL CHURCH SPIRE
4. KOPPERS NEW CROSS
5. GUILFORD CONG. CHURCH SPIRE, 1933
6. HAMMONASSET 3, 1932
7. LYME, 1934

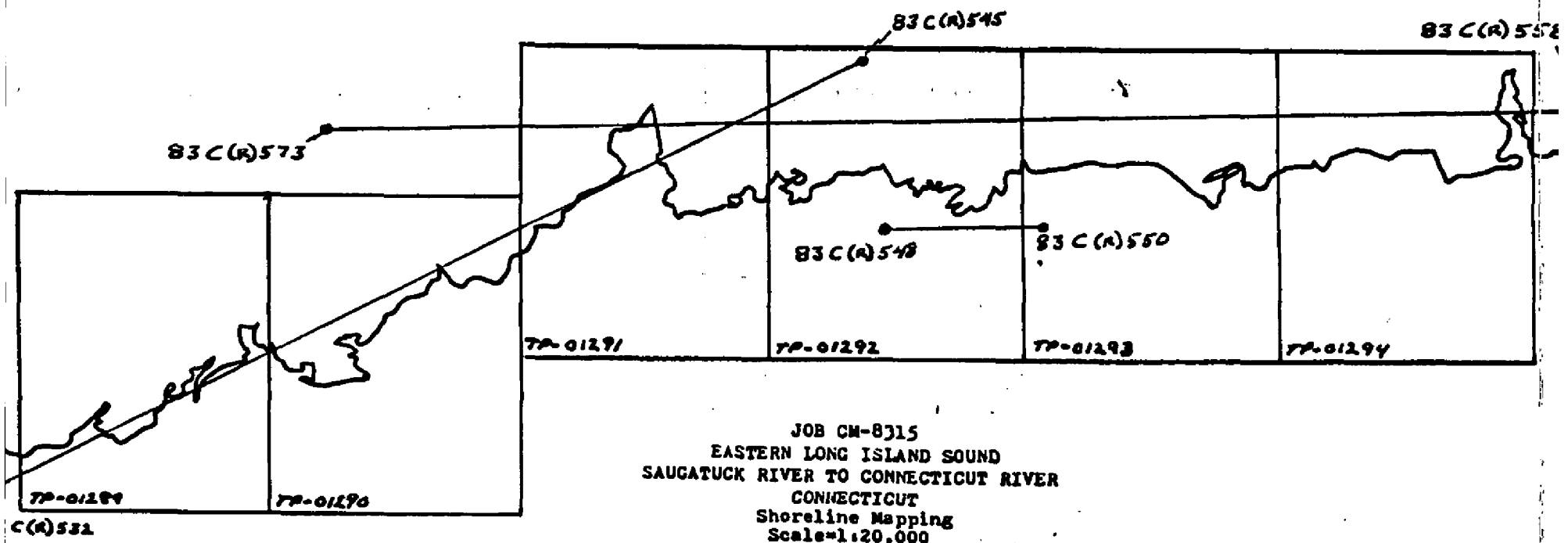


JOB CM-8315
EASTERN LONG ISLAND SOUND
SAUGATUCK RIVER TO CONNECTICUT RIVER
CONNECTICUT
Shoreline Mapping
Scale=1:20,000

MHW
1:50,000



JOB CM-8315
EASTERN LONG ISLAND SOUND
SAUGATUCK RIVER TO CONNECTICUT RIVER
CONNECTICUT
Shoreline Mapping
Scale=1:20,000



JOB CM-8315
EASTERN LONG ISLAND SOUND
SAUGATUCK RIVER TO CONNECTICUT RIVER
CONNECTICUT
Shoreline Mapping
Scale=1:20,000

RATIO VALUES

CM-8315

1:50,000 Bridging Photographs

	Ratio Value
83 C(C) 0608-0624	2.535
83 C(C) 0583-0595	2.520
83 B(C) 7242-7244	2.447

1:30,000 Supplemental Photographs

83 B(C) 7420-7421	1.499

MLW 1:50,000 Black-and-White Infrared

83 C(R) 0532-0545	2.525
83 C(R) 0548-0550	2.524
83 C(R) 0558-0573	2.525

MHW 1:50,000 Black-and-White Infrared

84 B(R) 0627-0639	2.506
84 B(R) 0644-0646	2.495
84 B(R) 0651-0666	2.510

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-01291	CM-8315	N.A. 1927	Coastal Mapping Unit, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Connecticut ZONE Connecticut	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
SOUTHWEST LEDGE LIGHTHOUSE, 1882	QUAD 410723 STA 1200	93	x= y=	φ 41° 14' 03.681" λ 72° 54' 45.178"	
NEW HAVEN LIGHTHOUSE OLD TOWER, 1833	QUAD 410723 STA 1148	134	x= y=	φ 41° 14' 55.931" λ 72° 54' 15.238"	
KOPPERS NEW CROSS, 1984 (FIELD POS.)	FIELD NOTE-BOOK W/CSI CARDS AND RECOVERY NOTES	593100	x= y=	φ 41° 16' 59.555" λ 72° 54' 29.982"	
SEAMLESS RUBBER CO. ELEV TANK, 1933	QUAD 410723 STA 1192	113	x= y=	φ 41° 17' 20.287" λ 72° 55' 46.655"	
EAST PEARL ST METH CH SPIRE, 1933	QUAD 410723 STA 1056	119	x= y=	φ 41° 18' 27.677" λ 72° 53' 30.613"	
NEW HAVEN FIRST CONG CH SPIRE, 1931	QUAD 410723 STA 1145	119B	x= y=	φ 41° 18' 34.041" λ 72° 53' 37.827"	
ST FRANCIS CHURCH SPIRE, 1933	QUAD 410723 STA 1182	119C	x= y=	φ 41° 18' 39.401" λ 72° 53' 46.144"	
			x= y=	φ λ	
			x= y=	φ λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. R. Kravitz	DATE 8/10/87	LISTING CHECKED BY F. Mauldin	DATE 9/16/87
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

COMPILATION REPORT

TP-01291

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs. Tide coordinated mean high water infrared photographs were used to assist in interpretation of the shoreline. Tide coordinated mean low water infrared ratio photographs were used to graphically compile the approximate mean low water line. Control for graphic delineation was provided by the instrument compilation of coastal detail and common image points.

All photographs used to compile this map are listed on NOAA form 76-36B. The Quinnipiac River was delineated to the limit of available stereo photograph coverage.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated October 1985.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line was compiled from office interpretation of the bridging/compilation photographs and was complimented by the tide coordinated mean high water infrared contact photographs. There were no mean high water infrared ratio photographs available.

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:50,000 scale bridging/compilation color photographs as described in item #31.

The mean low water infrared photographs were ratioed in order to graphically compile the approximate mean low water line as described in item #31.

37. LANDMARKS AND AIDS:

There are thirty-one charted landmarks and seventeen charted aids to navigation within the limits of this map. Among these, twenty-four landmarks and thirteen aids were located/verified photogrammetrically.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S. Geological Survey Quadrangles:

New Haven, Connecticut; dated 1967, photorevised 1972; scale 1:24,000
Branford, Connecticut; dated 1967, photorevised 1972; scale 1:24,000
Woodmont, Connecticut; dated 1960, photorevised 1971, photo-inspected 1976; scale 1:24,000

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

12354; 28th edition; dated October 4, 1986; scale 1:80,000
12364; 25th edition; dated January 10, 1987; scale 1:40,000 SC
12371; 20th edition; dated April 6, 1985; scale 1:20,000
12372; 23rd edition; dated April 5, 1986; scale 1:40,000 SC
12373; 12th edition; dated May 23, 1981; scale 1:20,000

TP-01291

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Robert R. Kravitz
Cartographic Technician
September 15, 1987

Approved:

James L. Byrd, Jr.
Chief, Coastal Mapping Unit

DEC 2 1987
19

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8315 (Saugatuck River to Connecticut River, Connecticut)

TP-01291

Amtrak (RR)
Bradford Cove
Bradley Point
Bradley Rocks
Brightview
City Point (locality)
Conrail (RR)
Cove River
Cow and Calf
Darrow Rocks
Democrat Rock
East Haven
East Indies Rocks
Fair Haven
Fair Haven East
Farm River
Farm River Gut
Forbes Bluff
Green Island
Gull Rocks
Horseshoe Lagoon
Horton Point
Johnson Point
Kelsey Island
Lighthouse Point
Long Island Sound
Mansfield Point
Merwin Point
Mill River
Momauguin
Momauguin Beach
Morgan Point
Morris Cove
Morris Cove (locality)
Morris Creek
New Haven
New Haven Harbor
Old Clump
Old Field Creek
Oyster River
Oyster River Beach
Oyster River Point
Pages Cove
Prospect Beach
Prospect Beach (locality)
Quinnipiac River
Rayham
Rocky Beach
Sandy Point
Savin Rock (locality)
Sea Bluff
Shell Beach
Short Beach (locality)
Silver Sands Beach
South End Point
Stanley Point
Stony Island
Tweed-New Haven Airport
Twin Rocks
Umbrella Island
West Haven
West River
West Shore
West Silver Sands Beach
Woodmont

Approved:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
SHORELINE

TP-01291

61. GENERAL STATEMENT:

See Summary included with this descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with U.S.G.S. quadrangles:

Branford, Connecticut, dated 1967, photorevised 1972
New Haven, Connecticut, dated 1967, photorevised 1972,
Woodmont, Connecticut, dated 1960, photorevised 1971,
photoinspected 1976; all three are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

There is no contemporary hydrographic survey within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS Charts:

12354, 28th edition, dated October 4, 1986, scale 1:80,000
12364, 25th edition, dated January 10, 1987, scale 1:40,000 S.C.
12371, 20th edition, dated April 6, 1985, scale 1:20,000.
12372, 23rd edition, dated April 5, 1986, scale 1:40,000 S.C.
12373, 12th edition, dated May 23, 1981, scale 1:20,000.

TP-01291

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

Lowell O. Neterer, Jr.
Final Reviewer
April 1988

Approved for forwarding:

Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Production Sec.

Chief, Photogrammetry Branch

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING

PROJECT: CM-8315

MAP NUMBER (Scale); Locality: TP-01291, 1:20,000; Saugatuck River to Connecticut River, Connecticut

GEODETIC DATUM: N.A. 1927

The following charted landmarks and nonfloating aids to navigation have been measured and or confirmed during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION (°-'-") LATITUDE	LONGITUDE	NCD Q.C.	DATE OF LOCATION
New Haven West Breakwater West End Light 2	200	41 13 31.90	72 57 23.80	7	11-08-83
New Haven Light	200	41 13 15.40	72 56 33.40	7	11-08-83
New Haven Middle Breakwater West End Light	200	41 13 27.20	72 56 11.30	7	11-08-83
New Haven Middle Breakwater East End Light 5	200	41 13 52.70	72 55 24.90	7	11-08-83
Southwest Ledge Light	139	41 14 03.681	72 54 45.178	3	11-08-83
Sandy Point Breakwater Light	200	41 15 44.00	72 55 06.00	7	11-08-83
New Haven Long Wharf Light	200	41 17 33.30	72 54 56.10	7	11-08-83
New Haven Oil Dock South Light	200	41 17 30.80	72 54 28.60	7	11-08-83
New Haven Oil Dock North Light	200	41 17 33.10	72 54 28.20	7	11-08-83
New Haven Wharf Light "A"	200	41 17 41.80	72 54 22.60	7	11-08-83
New Haven Wharf Light "B"	200	41 17 42.60	72 54 22.60	7	11-08-83
New Haven Wharf Light "C"	200	41 17 45.00	72 54 20.40	7	11-08-83
New Haven Wharf Light "D"	200	41 17 45.90	72 54 18.60	7	11-08-83
Old Tower On Lighthouse Point	139	41 14 55.931	72 54 15.238	3	11-08-83
Tank	86	41 15 33.30	72 58 19.20	7	11-08-83

Listing approved by: Lowell C. Whitney
FINAL REVIEWER

June 27, 1988
DATE

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING
CM-8312

TP-01291

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION (°-'-") LATITUDE	LONGITUDE	NCD Q.C.	DATE OF LOCATION
Spire	86	41 16 41.30	72 52 19.80	7	11-08-83
Stack	86	41 17 01.70	72 54 14.30	7	11-08-83
Stack	86	41 17 00.70	72 57 42.80	7	11-08-83
Radio Tower	86	41 17 13.50	72 56 51.40	7	11-08-83
Radio Tower	86	41 17 15.30	72 56 47.90	7	11-08-83
Stack	86	41 17 20.70	72 56 57.50	7	11-08-83
Stack	86	41 17 00.70	72 55 36.80	7	11-08-83
Stack	86	41 17 19.20	72 55 46.80	7	11-08-83
Tank	139	41 17 20.287	72 55 46.655	3	11-08-83
Stack	86	41 17 34.40	72 54 15.50	7	11-08-83
Tower	86	41 17 47.00	72 54 09.20	7	11-08-83
Tower	86	41 17 54.30	72 54 10.20	7	11-08-83
Stack	86	41 17 45.40	72 55 34.80	7	11-08-83
Stack	86	41 17 45.80	72 55 34.40	7	11-08-83
Tower	86	41 18 02.10	72 54 21.80	7	11-08-83
Cupola	86	41 18 09.50	72 56 07.40	7	11-08-83
Tower	86	41 18 11.60	72 54 23.50	7	11-08-83
Gas Tank	86	41 18 13.90	72 54 25.80	7	11-08-83
Tower	86	41 18 20.90	72 54 23.60	7	11-08-83
Tower	86	41 18 25.70	72 54 24.50	7	11-08-83

Listing approved by: Lowell A. Peterson
FINAL REVIEWER

June 28, 1988
DATE

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING
CM-8312

TP-01291

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION (°-'-") LATITUDE	LONGITUDE	NCD Q.C.	DATE OF LOCATION
Tower	86	41 18 29.70	72 55 27.20	7	11-08-83
Movie Screen	86	41 16 44.40	72 51 00.40	7	11-08-83
Radio Tower at New Haven	993	41 17 32.60	72 57 11.30	7	11-08-83

Listing approved by: Lowell A. Petersen
FINAL REVIEWER

June 28, 1988
DATE

FORM C&GS-8352
(3-28-63)

NAUTICAL CHART DIVISION

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 Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			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.
			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.