

TP-01294

TP-01294

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. TP-01294	Edition No. 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 CONNECTICUT RIVER	
1983 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE  C. Dale North, Jr., CDR		SURVEY TP. <u>01294</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III Final</u> JOB <u>MM CM-8315</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA OFFICER-IN-CHARGE  C. Dale North, Jr., CDR		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation                      September 6, 1985 Compilation                              April 15, 1987		Control                                      February 15, 1984	
<b>II. DATUMS</b>			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify) _____	
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) _____	
3. MAP PROJECTION  <u>Lambert Conformal Projection</u>		4. GRID(S) STATE                                      ZONE <u>Connecticut</u> <u>Connecticut</u>	
5. SCALE  <u>1:20,000</u>		STATE                                      ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		B. Thornton                              Oct. 1985 D. Norman                                Oct. 1985	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Xynetics 1201</u> CHECKED BY		F. Mauldin                                Dec. 1986 F. Mauldin                                Dec. 1986	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION                              CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:20,000</u> CHECKED BY		P. Evans                                    Oct. 1987 F. Mauldin                                Oct. 1987 N.A.                                        _____ N.A.                                        _____	
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: <u>Smooth Drafted</u> CHECKED BY SCALE: <u>1:20,000</u> CONTOURS BY CHECKED BY HYDRO SUPPORT DATA BY CHECKED BY		P. Evans                                    Oct. 1987 F. Mauldin                                Nov. 1987 N.A.                                        _____ N.A.                                        _____ P. Evans                                    Oct. 1987 F. Mauldin                                Nov. 1987	
5. OFFICE INSPECTION PRIOR TO Final Review BY		F. Mauldin                                Nov. 1987	
6. APPLICATION OF FIELD EDIT DATA BY		N.A.                                        _____	
7. COMPILATION SECTION REVIEW <u>Class III</u> BY		F. Mauldin                                Nov. 1987	
8. FINAL REVIEW <u>Class III</u> BY		L. O. Neterer, Jr.                        May 1988	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr. <u>June 1988</u>	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>P. Dempsey</u> <u>Aug 1988</u>	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>J. RIKIN</u> <u>Dec. 1988</u>	

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

Tp-01294

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10(B) (B = 152.74mm) Wild RC 10(C) (C = 88.46mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Eastern	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83 C(C) 0609-0613	11-08-83	11:15	1:50,000	5.67 ft. above MLW	
84 B(I) 0663-0666	06-27-84	09:30	1:50,000	0.29 ft. below MHW	
83 C(I) 0558-0561	11-1-83	13:48	1:50,000	0.36 ft. below MLW	
83 B(I) 0643	06-27-84	09:10	1:50,000	0.39 ft. below MHW	
				Mean Tide Range = 6.7 ft.	

## REMARKS

Stage of tide for all photography 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 photographs using stereo instrument methods. The tide coordinated black and white infrared photographs taken near the time of mean high-water were used to assist in the interpretation of the MHW line.

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

The mean low-water line was compiled graphically from the above listed black and white tide coordinated infrared ratio photographs which were taken very near the time of 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	No Survey	No Survey	TP-01293

## REMARKS

TP-01294

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INVESTIGATION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Shea	Apr. 1984
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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> 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)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER

OBJECT NAME

PHOTO NUMBER

OBJECT NAME

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-01294  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

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

## II. LANDMARKS AND AIDS TO NAVIGATION

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



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01294

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 November 1983 with the "C" camera (focal length = 88.46 millimeters) using both color and infrared film at 1:50,000 scale and in June 1984 with the "B" camera (focal length = 152.74 millimeters) using 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 November 1987.

Final review was performed at the Atlantic Marine Center in May 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.



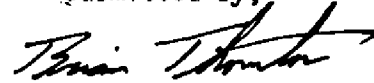
24. Supplemental Data

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  
Chief, Aerotriangulation Unit

## FIT TO CONTROL

▲ = Control point held in adjustment

■ = Tie point held in adjustment

STRIP #50-1

<u>STATION NAMES</u>	<u>POINT NO</u>	<u>VALUES IN FEET</u>	
		<u>X</u>	<u>Y</u>
▲ 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

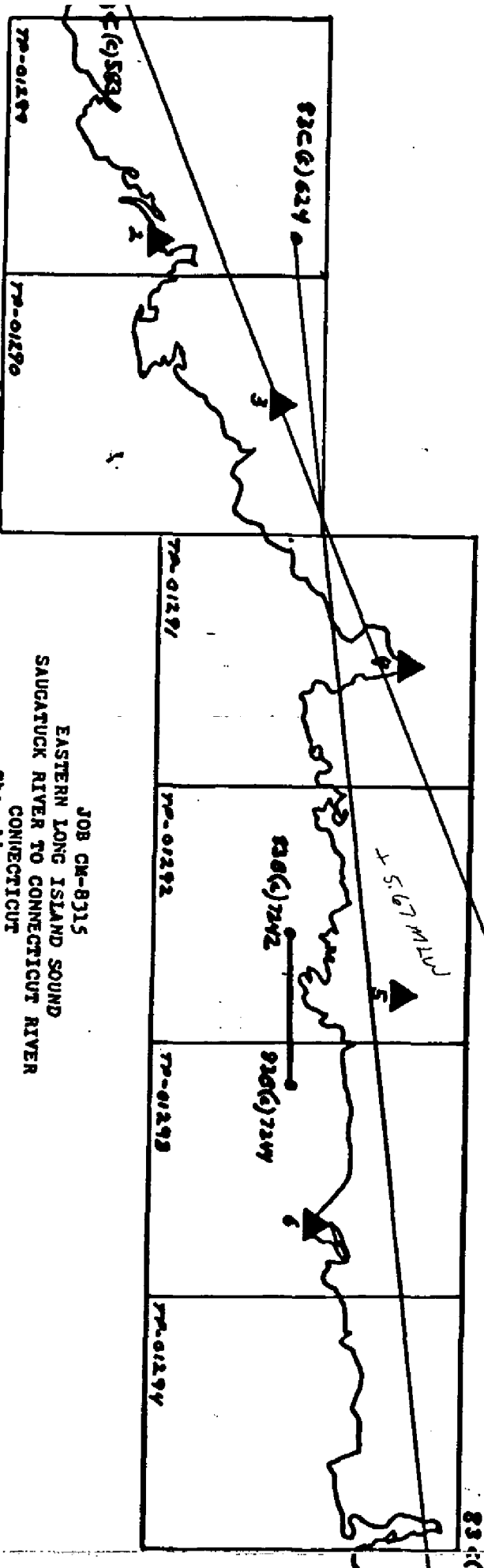
Strip #50-2

■ 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

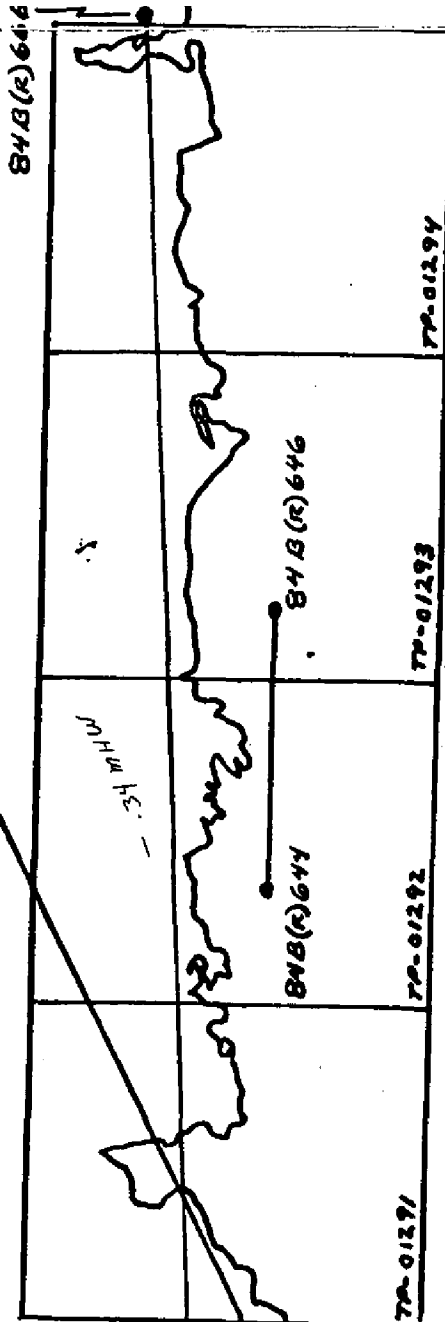
- HORIZONTAL CONTROL**
- 1. CEDAR 2, 1955
  - 2. WICC SOUTH RADIO TOWER
  - 3. MILFORD EPISCOPAL CHURCH SPIRE
  - 4. KOPPERS NEW CROSS
  - 5. GUILFORD CONG. CHURCH SPIRE, 1933
  - 6. HAMMONASSET 3, 1932
  - 7. LYME, 1934



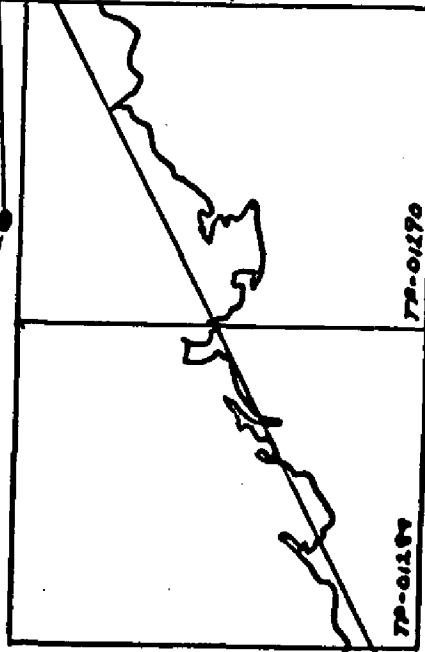
JOB CM-8315  
 EASTERN LONG ISLAND SOUND  
 SAUGATUCK RIVER TO CONNECTICUT RIVER  
 CONNECTICUT  
 Shoreline Mapping  
 Scale=1:20,000

MHW  
1:50,000

84B(R)627  
Range



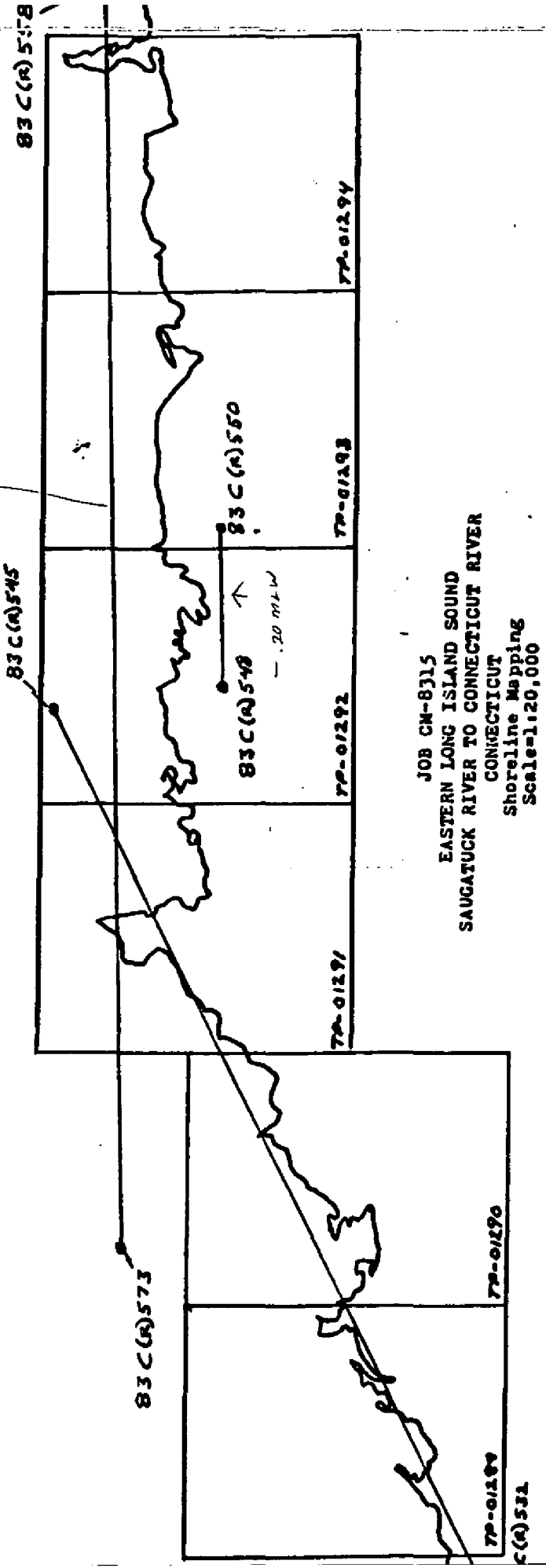
84B(R)651



84B(R)639

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

MLW  
1:50,000  
- .36 M LW



## RATIO VALUES

CM-8315

1:50,000 Bridging Photographs

	<u>Ratio Value</u>
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
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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





## COMPILATION REPORT

TP-01294

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 photography was adequate.

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.

TP-01294

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 nine charted landmarks and eight charted aids to navigation within the limits of this map. Among these, five landmarks and seven 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:

Essex, Connecticut; dated 1958, photorevised 1970; scale 1:24,000  
Old Lyme, Connecticut; dated 1958, photorevised 1970; 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  
12372; 23rd edition; dated April 5, 1986; scale 1:40,000 SC



TP-01294

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:



Paul L. Evans, Jr.  
Cartographic Technician  
November 2, 1987

Approved:



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

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01294

Amtrak (RR)

Back River (1)

Back River (2)

Long Island Sound

Long Rock

Lynde Point

Beamon Creek  
Calves Island  
Chalker Beach  
Chapman Beach (locality)  
Chapman Point  
Chapman Pond  
Clinton Beach (locality)  
Cold Spring Brook  
Connecticut River  
Cornfield Point  
Duck Island  
Duck Island Roads  
Fenwick  
Fernwood  
Gatchen Creek  
Goose Island  
Great Hammock Beach  
Great Island  
Grove Beach  
Grove Beach (locality)  
Grove Beach Point  
Guardhouse Point  
Hagar Creek  
Hawks Nest  
Indian Town  
Indian Town Harbor  
Johnson Pond  
Knollwood  
Lieutenant River

McVeagh Pond  
Menunketesuck Island  
Menunketesuck River  
Middle Beach  
Money Point  
Mud Creek  
North Cove  
Old Kelsey Point  
Old Saybrook  
Oyster River  
Patchogue River  
Plum Bank Beach  
Plum Bank Creek  
Poverty Point  
Quontonset Beach  
Ragged Rock Creek  
Salt Island  
Salt Works Bay  
Saybrook Manor  
Saybrook Point  
Saybrook Point (locality)  
South Cove  
Springdale Pond  
Stannard Beach  
West Beach  
Westbrook  
Westbrook Harbor  
Willard Point

Approved:

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

REVIEW REPORT  
SHORELINE

TP-01294

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:

Essex, Connecticut, dated 1958, photorevised 1970,  
photoinspected 1977, and  
Old Lyme, Connecticut, dated 1958, photorevised 1970,  
photoinspected 1976; both 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  
12372, 23rd edition, dated April 5, 1986, scale 1:40,000  
12374, 11th edition, dated June 23, 1984, scale 1:20,000  
12375, 17th edition, dated April 14, 1984, scale 1:20,000

TP-01294

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.*  
Lowell O. Neterer, Jr.  
Final Reviewer  
May 1988

Approved for forwarding:

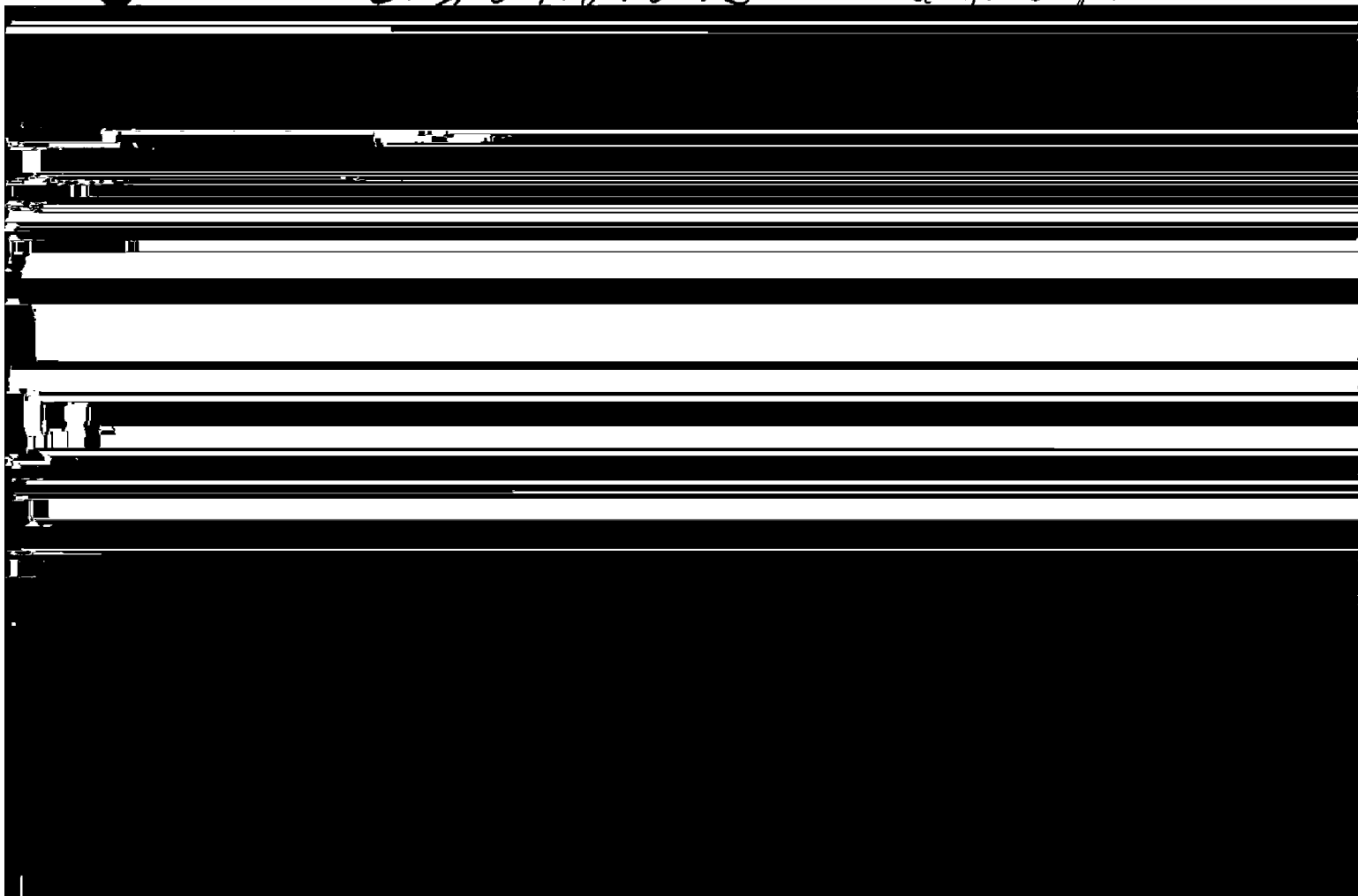
*Billy H. Barnes*

Billy H. Barnes  
Chief, Quality Assurance Group, AMC

Approved:

*Lucy O. Robinson*

*A. Y. Bynum*



## CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING

PAGE 1 OF 1

PROJECT: CM-8315

MAP NUMBER (Scale); Locality: TP-01294, 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).

<u>FEATURE DESCRIPTION</u>	<u>NCD CC</u>	<u>GEOGRAPHIC POSITION (°-'-")</u>		<u>NCD Q.C.</u>	<u>DATE OF LOCATION</u>
		<u>LATITUDE</u>	<u>LONGITUDE</u>		
Spire	86	41 17 09.80	72 27 00.60	7	11-08-83
Tank (Elev)	139	41 16 54.615	72 26 16.481	3	11-08-83
Stack	139	41 18 46.222	72 21 13.785	3	11-08-83
Tower	86	41 19 10.30	72 21 07.60	7	11-08-83
Tower	86	41 19 12.50	72 20 40.80	7	11-08-83
Duck Island					
West Breakwater Light 2D1	200	41 15 22.30	72 29 08.50	7	11-08-83
Duck Island					
North Breakwater Light	200	41 15 36.50	72 28 31.60	7	11-08-83
Patchogue River					
Breakwater Light 3A	200	41 16 06.70	72 28 24.50	7	11-08-83
Saybrook					
Breakwater Light	200	41 15 47.10	72 20 35.90	7	11-08-83
Saybrook Daybeacon	223	41 16 06.80	72 20 19.00	7	11-08-83
Lynde Point Light	200	41 16 16.60	72 20 37.30	7	11-08-83
Connecticut					
River Light 22	200	41 19 51.20	72 21 01.50	7	11-08-83

Listing approved by:

FINAL REVIEWER

DATE

June 27, 1988

### 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.

[illegible]