

TP-00259

TP-00259

NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00259	Edition No. 1
Job No. CM-7904	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State Wisconsin	
General Locality Lake Michigan	
Locality Sturgeon Bay and Canal	
1979 TO 1981	
REGISTRY IN ARCHIVES	
DATE	

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

## DESCRIPTIVE REPORT - DATA RECORD

## TYPE OF SURVEY

- ☒ ORIGINAL
- ☐ RESURVEY
- ☐ REVISED

SURVEY TP.00259

MAP EDITION NO. ( 1 )

MAP CLASS

JOB ~~PH~~ CM-7904

PHOTOGRAMMETRIC OFFICE  
Coastal Mapping Division  
A.M.C., Norfolk, VA

## OFFICER-IN-CHARGE

Max Ethridge, LCDR

## LAST PRECEDING MAP EDITION

## TYPE OF SURVEY

- ☐ ORIGINAL
- ☐ RESURVEY
- ☐ REVISED

JOB PH- \_\_\_\_\_

MAP CLASS \_\_\_\_\_

SURVEY DATES:

19\_\_ TO 19\_\_

## I. INSTRUCTIONS DATED

## 1. OFFICE

Aerotriangulation September 30, 1980  
Compilation June 2, 1981

## 2. FIELD

Horizontal Control February 15, 1980  
(Photo-identification)

## 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)

International Great Lakes Datum (1955),  
Lake Michigan Low Water Datum

## 3. MAP PROJECTION

Lambert Conformal Conic

## 4. GRID(S)

STATE  
WisconsinZONE  
Central

## 5. SCALE

1:30,000

STATE

ZONE

## III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	S. Solbeck	Jan. 1981
	LANDMARKS AND AIDS BY	S. Solbeck	Jan. 1981
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	S. Solbeck	Jan. 1981
	CHECKED BY	S. Solbeck	Jan. 1981
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. Kravitz	March 1981
	CHECKED BY	F. Mauldin	March 1981
INSTRUMENT: Wild B-8	CONTOURS BY	NA	
SCALE: 1:30,000	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	May 1981
	CHECKED BY	F. Margiotta	July 1981
METHOD: Smooth Drafted	CONTOURS BY	NA	
	CHECKED BY	NA	
SCALE: 1:30,000	HYDRO SUPPORT DATA BY	R. Kravitz	May 1981
	CHECKED BY	F. Margiotta	July 1981
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	F. Margiotta	July 1981
6. APPLICATION OF FIELD EDIT DATA	BY	R. Kravitz	Jan. 1982
	CHECKED BY	F. Margiotta & J. Dunford	April 1982
7. COMPILATION SECTION REVIEW	BY	F. Margiotta & J. Dunford	April 1982
8. FINAL REVIEW	BY	J. Hancock	July 1982
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	July 1982
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	G. Fromm	Aug. 1982
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	H. D. Wolfe	

NOAA FORM 76-36A

SUPERSEDES FORM C&amp;GS 181 SERIES

Chief, Photo Map and  
Imagery Section

Photogrammetry Division

MAR 10 1983

U.S. G.P.O. 1972-769380/547 REG.#6

NOAA FORM 76-36B  
(3-72)

TP-00259

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild R. C. 10" B" (B = 152.74 mm)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE (See remarks below) <input type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Central MERIDIAN 90th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
79B(C) 1380-1386	July 2, 1979		1:30,000	NA (see remarks)	

REMARKS The lake level at time of photography was 580.00 feet or 3.2 feet above the International Great Lakes Datum. Water levels were taken at the Sturgeon Bay gage on July 2, 1979.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The term Mean High-Water Line is not applicable. The "shoreline" was delineated from the above listed photographs, and is defined as the visible line of contact on the photographs between land and water.

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

Not applicable

## 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	No Survey

REMARKS A 1:10,000 scale inset map (TP-01137) junctions with the shoreline detail for this map.

## HISTORY OF FIELD OPERATIONS.

I. ☒ FIELD INSPECTION OPERATION (Hor. Control) ☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	L. H. Davis	July 1980
2. HORIZONTAL CONTROL	RECOVERED BY L. H. Davis	July 1980
	ESTABLISHED BY L. H. Davis	July 1980
	PRE-MARKED OR IDENTIFIED BY L. H. Davis	July 1980
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
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 None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED 3 stations		2. VERTICAL CONTROL IDENTIFIED None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
79B(C)1382	Cherryland 2, 1964 (Sub Pts. A & B)		
79B(C)1385	Canal, 1953 (Sub Pts. A & B)		
79B(C)1380	Sherwood Point Light, 1953 (Sub Pts. A & B)		
(1:30,000 contacts)			
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: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 3 - Forms 76-53 (CSI), 2 Forms 266 (Solar Obser.), Horizontal Control (Photo identification) report			

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

TP-00259

## HISTORY OF FIELD OPERATIONS.

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. S. Tibbetts	Oct. 1981
2. HORIZONTAL CONTROL	RECOVERED BY Middleton, Butler, Koster	Oct. 1981
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY Middleton, Butler, Koster	Oct. 1981
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY Middleton, Butler, Koster	Oct. 1981
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input checked="" type="checkbox"/> SPECIFIC NAMES ONLY BY <input type="checkbox"/> NO INVESTIGATION	
	P. B. Walbolt	Oct. 1981
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY Middleton, Butler, Koster	Oct. 1981
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## 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)

1:20,000 Color ratio 79B(C)1385; 1:30,000 B &amp; W contacts 79 B(C) 1380, 1384, 1385

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

2 landmarks &amp; 1 navigational aid

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
Ratio 1:20,000			
79B(C)1385	C G NWS SIG STA		
79B(C)1384	R Relay Mast		
79B(C)1385	Sturgeon Bay Ship Canal South Side Daybeacon		

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

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

- 1 - Master Film Field edit print
- 1 - Paper Discrepancy Print
- 1 - Field edit report
- 3 - Forms 76-40

NOAA FORM 76-36C  
(3-72)

NOAA FORM 76-36D  
(3-72)TP-00259  
RECORD OF SURVEY USEU. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	July 1981	Class III Manuscript Superseded	None	None
Field edit applied, Compilation complete	April 1982	Class I Manuscript	None	None
Final Review	July 1982	Final Map	July 1982	None

## II. LANDMARKS AND AIDS TO NAVIGATION

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

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		8-2-82	Landmarks for charting
2		8-2-82	Aids for charting

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

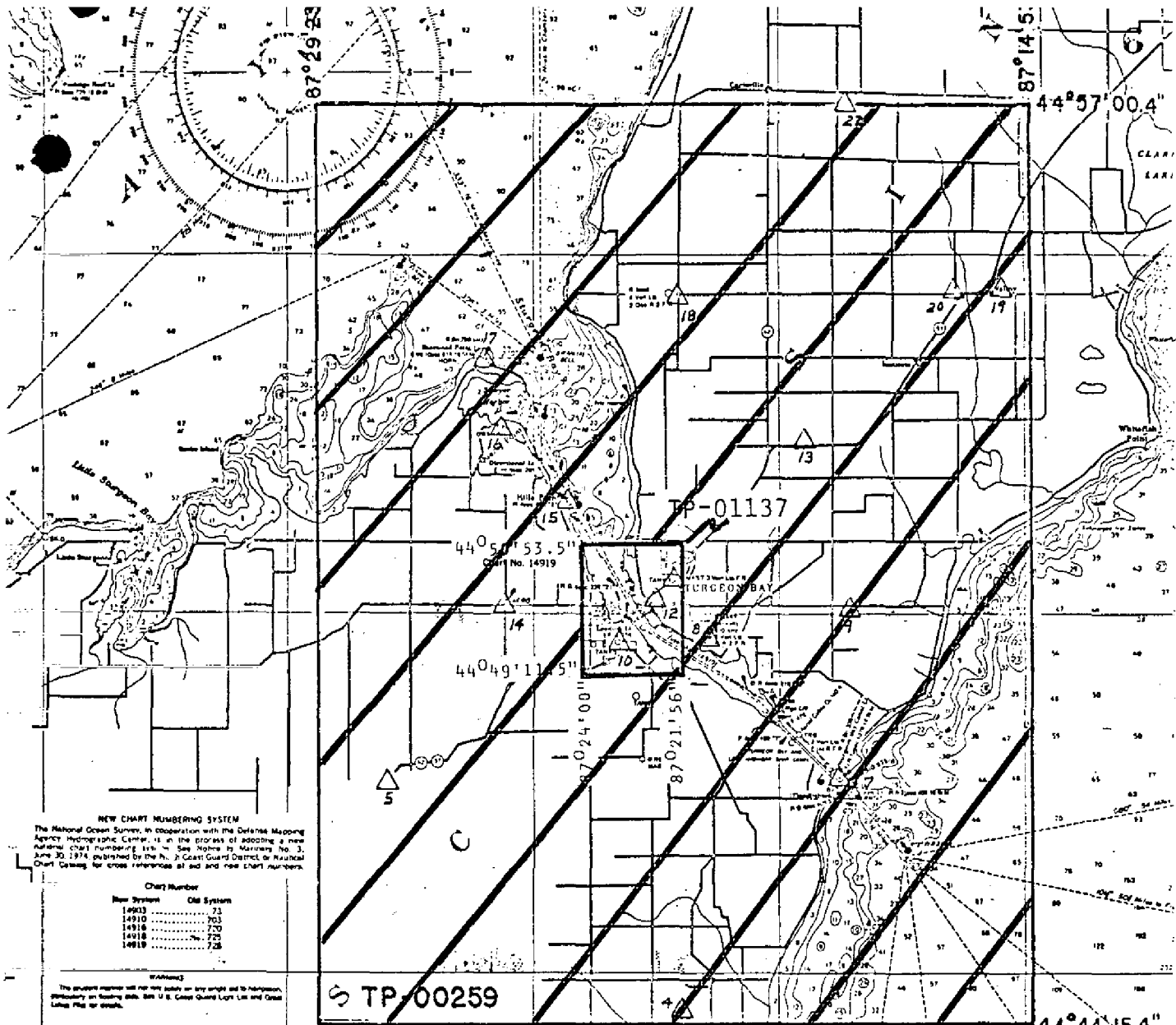
## III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. 2581 SUBMITTED BY FIELD PARTIES. (76-40)  
 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: SEPTEMBER 14, 1982

## 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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



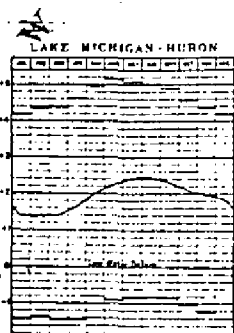
#### NEW CHART NUMBERING SYSTEM

The National Ocean Survey, in cooperation with the Defense Mapping Agency Hydrographic Center, is in the process of adopting a new Admiralty chart numbering system. See Notice to Mariners No. 3, June 30, 1974, published by the U.S. Coast Guard District of New York, for cross references to old and new chart numbers.

Chart Number	Old System	New System
14903	71	14903
14910	703	14910
14916	720	14916
14918	720	14918
14919	728	14919

#### Warnings

This chart is not to be used for any purpose other than navigation. It is not to be used for any purpose other than navigation. It is not to be used for any purpose other than navigation.



Low water datum is the average of the lowest tides for the month of January. The datum is used for the purpose of showing the depth of the water. The datum is used for the purpose of showing the depth of the water.

JOB CM-7904

STURGEON BAY & CANAL  
LAKE MICHIGAN  
WISCONSIN

SHORELINE MAPPING

SCALE 1:30,000  
1:10,000 (INSET)

REVISED 7/15/81

7

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-00529

This 1:30,000 scale final map is one of two shoreline maps that comprise project CM-7904, Sturgeon Bay and Canal, Lake Michigan, Wisconsin. An inset map, TP-01137, at 1:10,000 scale, features the industrial shoreline bordering the city of Sturgeon Bay.

The purpose of this project was to provide current charting information for nautical chart maintenance.

Excluding the area covered by inset map TP-01137, this map portrays Sturgeon Bay ship canal. This navigable waterway extends from the west side of Lake Michigan to the east side of Green Bay.

Natural color photography was obtained July 2, 1979 using the Wild RC-10 (B) camera. A single strip of 1:30,000 scale photography provided adequate coverage for both aerotriangulation and compilation.

Field work prior to compilation was accomplished in August 1980; this involved the identification of horizontal control by field photoidentification methods required for aerotriangulation.

Analytic aerotriangulation was adequately provided by the Washington Science Center in January 1981.

Compilation was performed by the Coastal Mapping Section at the Atlantic Marine Center in July 1981. Copies of the Class III map were submitted for field edit.

Field edit was performed in October 1981 by personnel from the Field Surveys Branch, AMC. This field data was returned to the original compilation office and applied in April 1982.

Final review was performed at the Atlantic Marine Center in July 1982. At this time, a final Chart Maintenance Print was prepared and submitted for the Marine Chart Division.

This Descriptive Report contains all pertinent information used to compile this Final Map. The original base manuscript and all related data was forwarded to the Washington Science Center for final registration.

## FIELD INSPECTION

TP-00529

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and establishment of horizontal control necessary for the aerotriangulation of the project.

PHOTO IDENTIFICATION REPORT  
JOBS CM-7902, CM-7903, CM-7904, CM-7905  
LAKE MICHIGAN, WISCONSIN

3. HORIZONTAL CONTROL

JOB CM-7902:

Five stations were recovered and two Sub Points were identified at each station. All are reported on Form 76-53. All are pricked on Photos 79BC-1389, 79BC-1392, 79BC-1394, 79BC-1396, 79BC-1400. TWO RIVERS E MUNICIPAL WATER TANK 1953 was substituted for TWO RIVERS 1953 because it is located in heavy woods. No sub points available.

JOB CM-7903:

Three stations were recovered and two Sub Points were identified at each station. All are reported on Form 76-53. All sub points are pricked on the following Photos 79BC-1415, 79BC-1417, 79BC-1418.

JOB CM-7904:

Four stations were recovered and two Sub Points were identified at each station. All are reported on Form 76-53. All are pricked on Photos 79BC-1380, 79BC-1382, 79BC-1383, and 79BC-1385. HILLS POINT LIGHT 25, 1953 was omitted. SHERWOOD POINT LIGHT, 1953 has a no check position. STURGEON BAY 1953 was substituted for STURGEON BAY RADIO STA WDOR MAST, 1953 because no sub point available at radio mast.

Stations REYNOLDS 1953 and MONUMENT 1953 were recovered as requested.

JOB CM-7905:

Three stations recovered and two Sub Points were identified at each station. All are reported on Form 76-53. Sub Points were pricked on the following Photos 79BC-1404, 79BC-1408, 79BC-1412. All Sub Points are reported on Form 76-53.

Respectfully submitted:

*Lawrence H. Davis*

Lawrence H. Davis  
Chief, Photo Party 61  
8/14/80

Photogrammetric Plot Report  
Sturgeon Bay and Canal, Wisconsin  
CM-7904  
January 1981

21. Area Covered

The area covered by this report is Sturgeon Bay and Canal, Wisconsin, which passes between Green Bay and Lake Michigan. The area is covered by one 1:30,000 scale manuscript and one 1:10,000 scale inset of the city of Sturgeon Bay.

22. Method

One strip of 1:30,000 scale color photography was bridged analytically using the NOSAP stereoplotter. Field identified control was provided. Aids and landmarks whose horizontal positions are known, were used as supplemental control.

Ratio prints have been ordered from the bridging photography covering both manuscripts using appropriate ratio values. The manuscripts were ruled on the Coradomat.

23. Adequacy of Control

The control proved adequate for the project according to National Map Accuracy Standards.

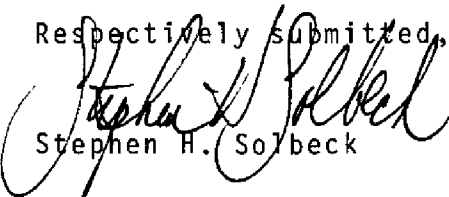
24. Supplemental Data

USGS quads were used to provide vertical control for the project. Nautical Charts were used to locate aids and landmarks.

25. Photography

The quality, coverage, and overlap of the photography proved adequate for the job.

Respectively submitted,

  
Stephen H. Solbeck

Approved and Forwarded:

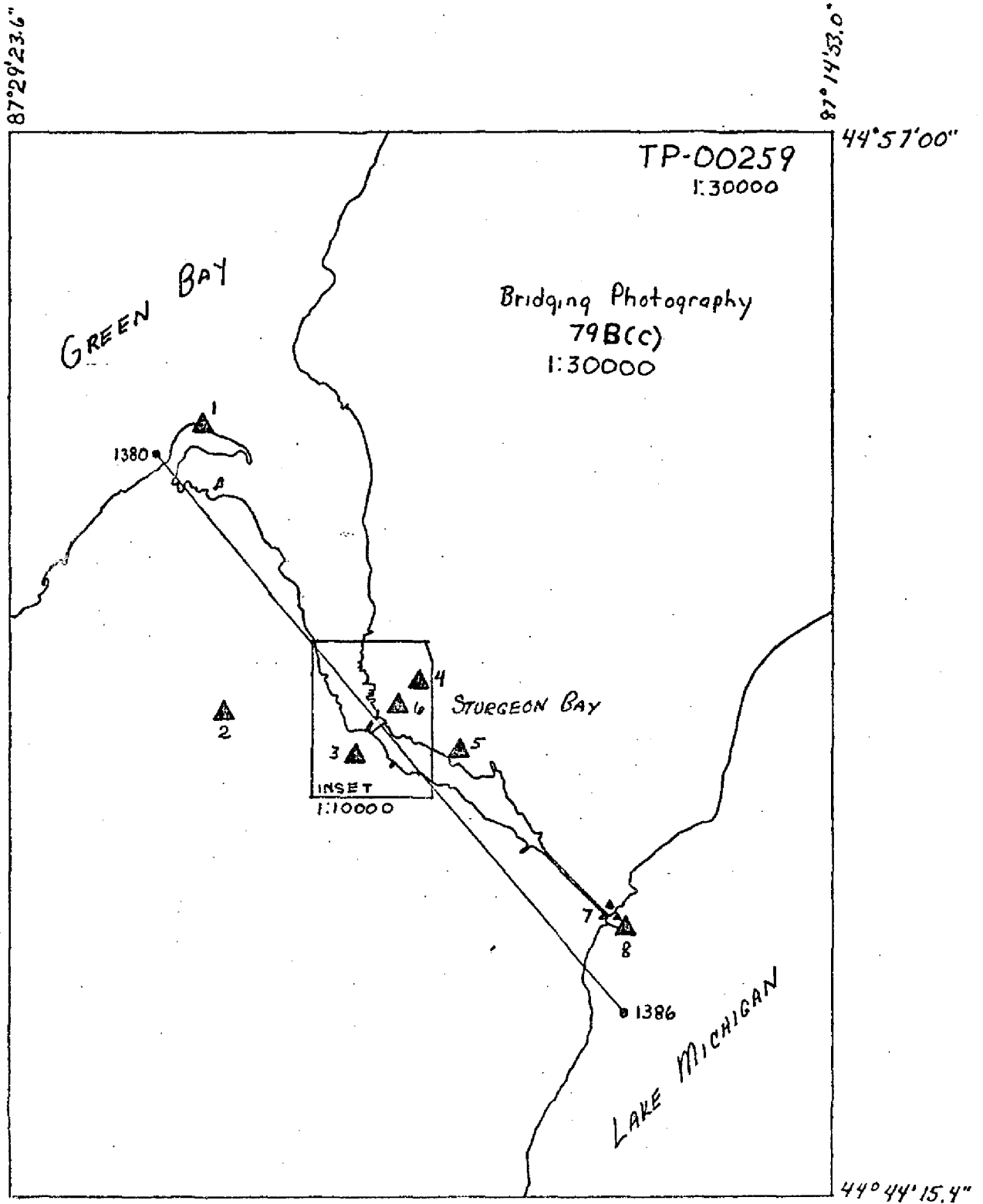


Don O. Norman  
Chief, Aerotriangulation Section

## Accuracy of Control

			<u>X</u>	<u>Y</u>
1	380100	Sherwood Point Light, 1953	-1.255,	.459
1	380101	Subpoint 1	- .866,	- .500
1	380102	Subpoint 2	.905,	-2.064
2	382101	Cherryland 2, 1964 Subpoint 1	-1.641,	1.909
2	382102	Subpoint 2	- .226,	3.090
3	383101	Sturgeon Bay, 1953 Subpoint 1	1.714,	.499
3	383102	Subpoint 2	.946	-2.143
4	383110	Sturgeon Bay, Municipal Water Tank 1953	- .254,	.853
5	383108	Sturgeon Bay, Radio Sta. WDOR, Mast, 1953	-1.605,	3.126
6	383112	Sturgeon Bay, St. Josephs Cath. Church, NW Spire, 1953	9.163,	3.581
6	383113	Sturgeon Bay, St. Josephs Cath. Church, SE Spire, 1953	-3.324,	-9.153
7	386101	Canal, 1953 Subpoint 1	3.857,	-4.311
7	386102	Subpoint 2	.401,	-1.300
7	386106	Sturgeon Bay Canal Light, 1953	-1.711,	2.182
8	386107	Sturgeon Bay Canal N Pierhead Light, 1953	-5.116,	8.824
8	386117	Sturgeon Bay Canal S Pierhead Light, 1953	- .635,	.793

STURGEON BAY AND CANAL  
LAKE MICHIGAN  
CM-7904



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-00259	JOB NO. CM-7904	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETTIC DATUM NA 1927		COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
				STATE	ZONE	STATE	ZONE	$\phi$ LATITUDE	$\lambda$ LONGITUDE	
SHERWOOD POINT LIGHT, 1953	Quad 440871 Sta 1031		380100	X=		$\phi$	44°53'34.00"			
				Y=		$\lambda$	87°26'00.36"			
CHERRYLAND 2, 1964	Sta 1005		382100	X=		$\phi$	44°50'08.849"			
				Y=		$\lambda$	87°25'38.237"			
HILLS POINT LIGHT 25, 1953	Sta 1028			X=		$\phi$	44°51'33.66"			
				Y=		$\lambda$	87°24'17.21"			
STURGEON BAY, RADIO STATION WDOR MAST, 1953	Sta 1035		383108	X=		$\phi$	44°49'37.594"			
				Y=		$\lambda$	87°21'26.337"			
STURGEON BAY CANAL, NORTH PIERHEAD LIGHT, 1953	Sta 1032		386107	X=		$\phi$	44°47'31.27"			
				Y=		$\lambda$	87°18'33.96"			
STURGEON BAY CANAL, SOUTH PIERHEAD LIGHT, 1953	Sta 1033		386117	X=		$\phi$	44°47'28.73"			
				Y=		$\lambda$	87°18'37.70"			
STURGEON BAY, CANAL LIGHT, 1953	Sta 1004		386106	X=		$\phi$	44°47'42.02"			
				Y=		$\lambda$	87°18'47.57"			
POTAWATOMI, STATE PARK LOOK- OUT TOWER, 1953	Sta 1030			X=		$\phi$	44°52'35.051"			
				Y=		$\lambda$	87°25'40.395"			
CANAL, 1953	Sta 1004			X=		$\phi$	44°47'41.999"			
				Y=		$\lambda$	87°18'47.654"			
				X=		$\phi$				
				Y=		$\lambda$				
COMPUTED BY R. Kravitz			DATE 5/12/81	COMPUTATION CHECKED BY Frank Margiotta					DATE July 7, 1981	
LISTED BY R. Kravitz			DATE 3/12/81	LISTING CHECKED BY Frank Margiotta					DATE July 7, 1981	
HAND PLOTTING BY R. Kravitz			DATE 5/22/81	HAND PLOTTING CHECKED BY Frank Margiotta					DATE July 7, 1981	

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

## COMPILATION REPORT

TP-00259

31. DELINEATION

Delineation was by instrument methods using the Wild B-8 stereo-plotter and by office interpretation of the 1:30,000 scale color photographs. The compilation photography was adequate. The limits of compilation were defined by the photo coverage.

32. CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated January 1981.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours were not applicable to this project. Refer to Item #31.

35. SHORELINE AND ALONGSHORE DETAILS

Refer to form 76-36B, Item 2 for shoreline delineation.

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

36. OFFSHORE DETAILS

No unusual problems.

37. LANDMARKS AND AIDS

Preliminary 76-40 forms consisting of 2 pages of Navigational Aids and 1 Page of Landmarks for charts were prepared for field edit.

38. CONTROL FOR FUTURE SURVEYS

None

TP-00259

39. JUNCTIONS

A 1:10,000 scale inset map (TP-01137) is contained within this map; shoreline junctions were properly made.

40. HORIZONTAL AND VERTICAL ACCURACY

See Item #32.

46. COMPARISON WITH EXISTING MAPS

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

Sturgeon Bay, Wisconsin, 1960, 1:62,500 scale

47. COMPARISON WITH NAUTICAL CHART

N.O.S. 14919, 24th edition, dated August 2, 1980, scale 1:30,000

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted by:

*Robert R. Kravitz*

Robert R. Kravitz  
Cartographic Technician

Date: May 28, 1981

Approved:

*James L. Byrd, Jr.*  
James L. Byrd, Jr.

Chief, Coastal Mapping Section

## ADDENDUM TO THE COMPILATION REPORT

TP-00259

FIELD EDIT

Positions for charted Landmarks, Radio Tower and Radio Mast at approx. Lat.  $44^{\circ}54.4'$ , Long.  $87^{\circ}22.2'$  could not be determined due to insufficient field data. The field method (two cut sextant intersection with no check) used to position these features is unacceptable for the location of landmarks. The approximate charted positions will be submitted on the 76-40 forms, indicating that these features fell beyond the photo coverage but were visually verified by the field editor as still existing.

17

FIELD EDIT REPORT  
TP-00259; TP-01137 (insert)  
CM-7904 STURGEON BAY & CANAL;  
LAKE MICHIGAN; WISCONSIN

51. METHODS

This Edit was performed in the Field by boat, by truck, and by foot. Each question on the Discrepancy Print was investigated thoroughly. Some Cuts are shown on Lists of Directions. Two sketches are attached to the Discrepancy Print.

52. ADEQUACY OF COMPILATION

The compilation appeared to be good, and it will be both complete and adequate upon the application of this Edit.

54. RECOMMENDATIONS

None.

56. GEOGRAPHIC NAMES

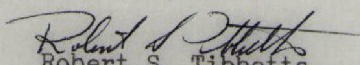
There are two Geographic Names conflicts; they are written on a sheet attached to the rear of this report.

57. LANDMARKS AND AIDS

~~One~~ <sup>Two (24)</sup> Landmarks and two Aids were photo located as requested. Forms 76-40 are completed, and all information indicated on the Discrepancy Print. Please refer to two sketches attached to the Discrepancy Print.

All Landmarks were inspected from seaward, and verified by adjoining ground detail.

16 October 1981  
Submitted by:

  
Robert S. Tibbetts  
Chief, Photo Party 62

## REVIEW REPORT TP-00259

## SHORELINE

61. GENERAL STATEMENT:

Refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with the following U.S.G.S. quadrangle:

Sturgeon Bay, Wisconsin; dated 1960; scale 1:62,500

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

No contemporary hydrographic survey was conducted in the area common to this final map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with N.O.S. chart 14919, 24th edition, 1:30,000 scale, dated August 2, 1980.

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:

*Jerry L. Hancock*  
Jerry L. Hancock  
Final Reviewer

Approved for forwarding:

*Billy H. Barnes*  
Billy H. Barnes  
Chief, Photogrammetric Branch, AMC

Approved:

*George L. Bree*  
Chief, Photogrammetric Branch, Rockville

*John D. Perraw Jr*  
Chief, Photogrammetry Division

56. SELECTED GEOGRAPHIC NAMES  
TP-00259; TP-01137 (insert)  
CM-7904 STURGEON BAY & CANAL;  
LAKE MICHIGAN; WISCONSIN

HIGH CLIFF PARK (R)  
HI-CLIFF PARK

The Charts and the Quads disagree in their usage. Everyone contacted used the recommended HIGH CLIFF PARK.

LARSON REEF (R)  
SHERWOOD POINT SHOAL

A question on the Preliminary Names Sheet asked if this was Sherwood Point Shoal. Everyone contacted called this feature LARSON REEF. Larson is a local family name; the family has resided in this area for several generations.

PERSONAL REFERENCES IN THE INVESTIGATION (all of them live in Sturgeon Bay)

Marge Paul Director of the Door County Chamber of Commerce

Bill Schaefer works for Star Reality

Duffy Schinkten is a real estate salesman

Luis Nyman tax listing Department, Door County Courthouse

Geborah DeBroux owns rental cottages

Fred Sorenson local fishing boat Captain

Art MacMillin own sporting goods shop

16 October 1981

Submitted by:

*Philip B. Walbolt*

Philip B. Walbolt  
Chief, Photo Party 63

June 18, 1982

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7904 (Sturgeon Bay and Canal, Wisconsin)

TP-00259

Bradley Lake

Cabot Point

Door Peninsula

Green Bay

High Cliff Park

Hills Point

Idlewild

Lake Michigan

Portage Park

Quarry Point

Rocky Point

Sawyer Harbor

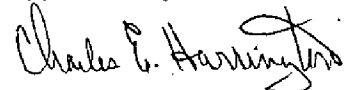
Sherwood Point

Sturgeon Bay

Sturgeon Bay (locality)

Sturgeon Bay Ship Canal

Approved by:



Charles E. Harrington  
Chief Geographer, OA/C3x5

INFORMATION ON DISSEMINATION OF PROJECT(S) MATERIAL  
CM-7903 & CM-7904

FEDERAL RECORDS CENTER

Brown Jacket:

- Control Station Identification Cards
- Identified Horizontal Control Photographs
- Field Edit Photographs
- Bridging Photographs
- Field Edit Copies (discrepancy prints)

Project Completion Report

BUREAU ARCHIVES

- Registered Copy of Each Map
- Descriptive Report of Each Map (original)

MARINE CHART DIVISION

- Chart Maintenance Print for Each Map
- Forms 76-40

OFFICE OF GEOGRAPHER

- Geographic Names Standards

REPRODUCTION DIVISION

- 8x Reduction Negative of Each Map

U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION										ORIGINATING ACTIVITY	
LANDMARKS FOR CHARTS										<input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> COMPILATION ACTIVITY <input type="checkbox"/> FINAL REVIEWER <input type="checkbox"/> QUALITY CONTROL & REVIEW GRP. <input type="checkbox"/> COAST PILOT BRANCH (See reverse for responsible personnel)	
REPORTING UNIT (Field Party, Ship or Office)		STATE		LOCALITY		DATE					
Coastal Mapping Div.		Wisconsin		Sturgeon Bay and Canal		July 1981					
AMC, Norfolk, VA											
The following objects HAVE <input checked="" type="checkbox"/> BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.		SURVEY NUMBER		DATUM							
OPR PROJECT NO.		JOB NUMBER		NA 1927							
CM-7904		TP-00259									
CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	POSITION		LONGITUDE		METHOD AND DATE OF LOCATION (See instructions on reverse side)		CHARTS AFFECTED			
		LATITUDE D.M. Meters	LONGITUDE D.P. Meters	LATITUDE D.M. Meters	LONGITUDE D.P. Meters	OFFICE	FIELD				
R MAST	Landmark does exist; No position determined; approx. charted position listed	44-54.4	87-22.3			Beyond photo coverage	No position determined		14919		
TOWER	Landmark does exist; No position determined; approx. charted position listed	44-54.4	87-22.3			Beyond photo coverage	No position determined		"		
OBS TOWER	(Potawatomi, State Park Lookout Tower, 1953)	44-52	87-25	35.051	40.395	Vis 79B(C) 1380 7/2/79	Triang Rec 8/27/81		"		
R Mast (WDOR)	(Sturgeon Bay, Radio Station WDOR Mast, 1953)	44-49	87-21	37.594	26.337	Vis 79B(C) 1383 7/2/79	Triang Rec 8/27/81		"		
TANK		44-48	87-22	51.81	52.99	Vis 79B(C) 1383 7/2/79	V-Vis 9/2/81		"		
TOWER	Northeasterly 1 of 2	44-48	87-19	18.46	39.81	Vis 79B(C) 1384 7/2/79	V-Vis 8/26/81		"		
TOWER	Southwesterly 1 of 2	44-48	87-19	13.54	46.46	Vis 79B(C) 1384 7/2/79	V-Vis 8/26/81		"		
SIGNAL STATION	CG NWS Sig Sta; atop flagpole	44-47	87-18	40.01	47.08		P-5-L-Sketch Ratio 79B(C) 1385 9/3/81		"		
R RELAY MAST		44-47	87-23	54.68	00.00		P-5-L Ratio 79B(C) 1384 10/5/81		"		
				1688	0				Sept		

RESPONSIBLE PERSONNEL		ORIGINATOR	
TYPE OF ACTION	NAME	<input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)	
OBJECTS INSPECTED FROM SEAWARD	R. S. Tibbetts	FIELD ACTIVITY REPRESENTATIVE	
POSITIONS DETERMINED AND/OR VERIFIED	R. S. Tibbetts	OFFICE ACTIVITY REPRESENTATIVE	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	R. Kravitz	<input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	
INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF LOCATION: (Consult Photogrammetric Instructions No. 64.)			
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75		<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field Identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75		<b>II. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75	
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependant entirely, or in part, upon control established by photogrammetric methods.			



RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. S. Tibbets
POSITIONS DETERMINED AND/OR VERIFIED	R. S. Tibbets
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	Robert R. Kravitz
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>8. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>



RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	R. S. Tibbets
POSITIONS DETERMINED AND/OR VERIFIED	R. S. Tibbets
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	R. Kravitz
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field                      P - Photogrammetric L - Located                    Vis - Visually V - Verified 1 - Triangulation            5 - Field identified 2 - Traverse                6 - Theodolite 3 - Intersection            7 - Planetable 4 - Resection               8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

### 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]