

TP - 01253

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NOAA FORM 76-35 (3-76)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
This map edition will not be field edited	
<i>Map No.</i> TP-01253	<i>Edition No.</i> 1st
<i>Job No.</i> CM-8310	
<i>Map Classification</i> Class III	
<i>Type of Survey</i> Shoreline	
LOCALITY	
<i>State</i> Wisconsin	
<i>General Locality</i> Lake Superior	
<i>Locality</i> Port Wing and Cornucopia Harbors	
1982 TO 19	
REGISTRY IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. <h3 style="text-align: center;">DESCRIPTIVE REPORT - DATA RECORD</h3>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED SURVEY TP. <u>01253</u> MAP EDITION NO. <u>1</u> MAP CLASS <u>III</u> JOB <u>XXX CM-8310</u>	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland OFFICER-IN-CHARGE Lawrence W. Fritz		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__	
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Referred to : "Vertical Datum References for Map Features, Photogrammetric Surveys, Great Lakes" dated July 13, 1976		None	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify) International Great Lakes Datum (IGLD) 1955	
3. MAP PROJECTION Lambert Conformal Conic		4. GRID(S) STATE Wisconsin ZONE North	
5. SCALE 1:5,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: LANDMARKS AND AIDS BY		N/A	
2. CONTROL POINTS PLOTTED BY METHOD: XXX XXXXX Calcomp CHECKED BY		Dempsey	3/83
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 SCALE: 1:5,000 CONTOURS BY CHECKED BY		F. Wright	3/83
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:5,000 HYDRO SUPPORT DATA BY CHECKED BY		F. Wright	3/83
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		N/A	
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		N/A	
7. COMPILATION SECTION REVIEW BY		P. Dempsey	3/83
8. FINAL REVIEW BY		Gregory Fromm	4/83
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		-----	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		G. Fromm	4/83
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<i>R. Thompson</i>	5/84

TP-01253

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(Z) focal length = 153.14mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY			ZONE Central	<input checked="" type="checkbox"/> STANDARD
			MERIDIAN 75th	<input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
82Z(C)2975, 2976 (Cornucopia)	5/30/82	937	1:15,000	1 Ft above Lake Superior Low Water Datum; Duluth, Minn. gage
82Z(C)2994, 2995 (Port Wing)	5/30/82	947	1:15,000	

REMARKS
The elevation of the Lake Superior Low Water Datum based on the International Great Lakes Datum(1955) is 600.0 Ft.

2. SOURCE OF ~~MEAN HIGH WATER LINE~~: Shoreline:
The source of the shoreline is the photographs listed above in Item 1.

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
None					

5. FINAL JUNCTIONS			
NORTH None	EAST None	SOUTH None	WEST None

REMARKS

TP-01253

NOAA FORM 76-36C
(3-72)

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

HISTORY OF FIELD OPERATIONS.

1. FIELD INSPECTION OPERATION FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Simmons	Sept 1982
2. HORIZONTAL CONTROL	RECOVERED BY R. Mandzi	Sept 1982
	ESTABLISHED BY R. Mandzi	Sept 1982
	PRE-MARKED OR IDENTIFIED BY R. Mandzi	Sept 1982
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 R. Mandzi	Sept 1982
	IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input type="checkbox"/> NO INVESTIGATION	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
R. Mandzi

2. VERTICAL CONTROL IDENTIFIED
None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82Z(C)2993	Photo Pts #3 & 4		
82Z(C)2994	Photo Pts #5 & 6		
82Z(C)2995	Photo Pts #1 & 2		
82Z(C)2976	Photo Pts #1 thru 10		

3. PHOTO NUMBERS (Clarification of details)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
R. Mandzi

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
82Z(C)2994	Port Wing East Pier Light (Photo Pt #6)		
82Z(C)2976	Cornucopia East Pier Light		

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~~ Two Field Notebooks - Duplicate field records/horizontal computations

TP-01253 RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Final Reviewed Map	May 1983	Class III Map	8/4/83	5/13/83

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER Page	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	NOAA Form 76-40	8/4/83	Aids for Charts

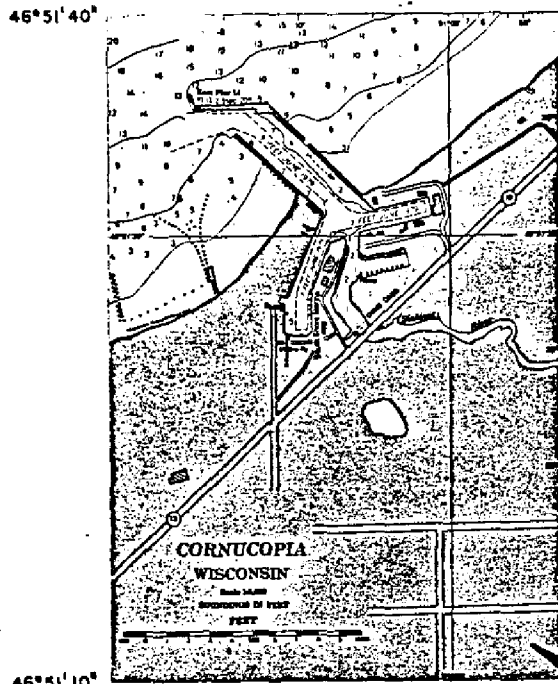
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

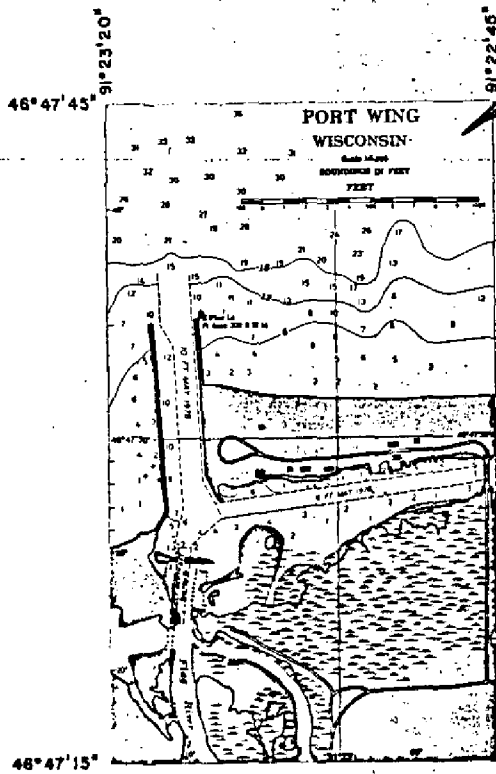
1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
 2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.
 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:
 4. DATA TO FEDERAL RECORDS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

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

SECOND EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY				
	TP - _____ (2)	PH - _____	<input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	MAP CLASS			
DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	<input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL					
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY				
	TP - _____ (3)	PH - _____	<input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	MAP CLASS			
DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	<input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL					
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY				
	TP - _____ (4)	PH - _____	<input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	MAP CLASS			
DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	<input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL					



TP-01253



JOB CM-8310
CORNUCOPIA AND PORT WING HARBORS
WISCONSIN
SHORELINE MAPPING
SCALE=1:5,000

Summary TP-01253

This map displays two insets covering the harbors and adjacent shoreline areas of Cornucopia and Port Wing, Wisconsin. The two harbor areas are widely separated and located on the southern shore of Lake Superior. This is the only map which comprises Job CM-8310.

The purpose of this survey is to provide data for use in the production and maintenance of nautical charts.

Field work consisted of aerial photography and the recovery, establishment, and identification of horizontal control required for stereo instrument compilation.

Natural color photographs were used to complete this survey. One pair of photographs covering each harbor area were required and provided sufficient photographic coverage. Photographs were taken with the Wild RC-10(Z) camera at 1:15,000 on May 30, 1982.

Compilation was performed by the Coastal Mapping Unit, Rockville. Final review was conducted by personnel of the Quality Control Unit, Rockville.

Detail depicted on this map is based on field established third-order geodetic control and an office interpretation of aerial photographs. The shoreline datum is the water level at the time of photography.

The compilation, processing, and dissemination of all data is in accordance with the C&GS Topographic Manual, Part II, and applicable amending NOS Photogrammetric Instructions. Basic line work is smooth drafted.

This Descriptive Report contains all pertinent reports and listings of all data used to complete the map and which may be required by users of this map. Because this is a one map project, a Job Completion Report is not required and will not be prepared.

Field Operations

Field work consisted of aerial photography and the recovery, establishment, and photoidentification of horizontal control required for stereo instrument compilation. Eleven geodetic control points identified in the Cornucopia area and six in the Port Wing area. Control work was performed in 1982 and conducted by personnel from the NOAA Ship Peirce. There was no field inspection performed.

Compilation Report

TP-01253

31. Delineation

All features were compiled using the Wild B-8 stereoplotter. One stereomodel over each harbor provided sufficient coverage. There was no field inspection prior to compilation and field edit will not be performed. All features shown on this map are from office interpretation of the photographs and the areas of piling may not be complete.

32. Control

Adequate horizontal control was established by the field party to control the stereomodels set to delineate this map.

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Drainage is by office interpretation of the color photographs.

35. Shoreline and Alongshore Details

All shoreline and alongshore detail is by office interpretation of the color photographs. The shoreline represents the water level at the time of photography.

36. Offshore Details

Offshore details compiled consist of piling, some of which may be submerged. The piling visible on the photographs differs from that which is charted and must be completed by the hydrographer.

37. Landmarks and Aids

There are no charted landmarks on this maps, and the two lights were located by the field party to be used as part of the control for the stereomodels.

38. thru 45. Not Applicable

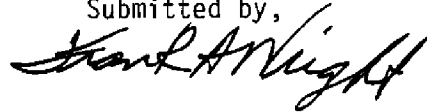
46. Comparison with Existing Maps - None

47. Comparison with Nautical Charts

NOS chart 14966, 18th Edition, December 1979

All charted features were searched for on the photographs and where they are mapped differently or not mapped at all, depended on their appearance on the photographs.

Submitted by,



Approved and Forwarded:



For: Frank Wright
Chief, Coastal Mapping Unit

REVIEW REPORT TP-01253

May 1983

61. General Statement

Refer to the summary bound with this Descriptive Report. The satisfactory review of this map was completed without encountering any major problems.

62. Comparison with Registered Topographic Surveys - None63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys - None65. Comparison with Nautical Charts

A Comparison was made to the following NOS nautical chart:

Chart 14966, 18th edition dated 12/22/79

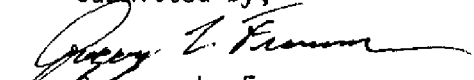
66. Adequacy of Results and Future Surveys

This map was found to be satisfactory and meets the National Standards of Map Accuracy.

67. Geographic Names

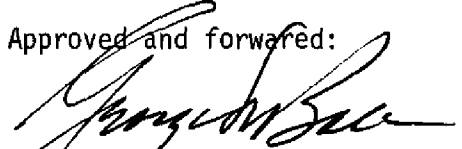
Selected geographic names have been shown on this map as points of reference. Names and their placement were taken as they appeared on the nautical chart refer to in paragraph 65. of this report.

Submitted by,

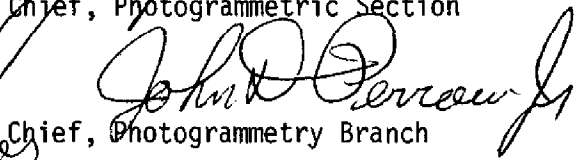


Gregory L. Fromm

Approved and forwarded:



Chief, Photogrammetric Section



Chief, Photogrammetry Branch

DISSEMINATION OF PROJECT MATERIALS

Job CM-8310

NATIONAL ARCHIVES/FEDERAL RECORD CENTER

Brown Jacket

NOAA form 76-40(duplicate copy)

Computer printout

Field photographs(control points identified)

Compilation photographs

Field notebook - containing horizontal observation/computations

BUREAU ARCHIVES

Final map

Descriptive Report

REPRODUCTION DIVISION

8X reduce negative of final map

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

TO BE CHARTED
 TO BE REVISED
 TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)

Rockville, Md.

STATE

Wisconsin

LOCALITY

Lake Superior

DATE

3/83

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ORIGINATING ACTIVITY

- HYDROGRAPHIC PARTY
- GEOGETIC PARTY
- PHOTO FIELD PARTY
- COMPILATION ACTIVITY
- FINAL REVIEWER
- QUALITY CONTROL & REVIEW GRP.
- COAST PILOT BRANCH

(See reverse for responsible personnel)

The following objects HAVE HAVE NOT been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

CM-8310

TP-01253

N. A. 1927

POSITION

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE

FIELD

CHARTS
AFFECTED

DESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)

LATITUDE LONGITUDE

° / ° /

D.M. Meters D.P. Meters

OFFICE

FIELD

CHARTS
AFFECTED

LIGHT

Cornucopia East Pier Light

46 51 91 06

35.113 16.562

F-L-2-6
Sept. 1982

14966

LIGHT

Port Wing East Pier Light

46 47 91 23

34.729 10.067

F-L-2-6
Sept. 1982

14966

RESPONSIBLE PERSONNEL

TYPE OF ACTION

NAME

ORIGINATOR

OBJECTS INSPECTED FROM SEAWARD

- PHOTO FIELD PARTY
- HYDROGRAPHIC PARTY
- GEODETIC PARTY
- OTHER (Specify)

POSITIONS DETERMINED AND/OR VERIFIED

FIELD ACTIVITY REPRESENTATIVE

FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES

OFFICE ACTIVITY REPRESENTATIVE

- REVIEWER
- QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE

INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'

(Consult Photogrammetric Instructions No. 64,

OFFICE

I. OFFICE IDENTIFIED AND LOCATED OBJECTS

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

FIELD

I. NEW POSITION DETERMINED OR VERIFIED

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

*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.

FIELD (Cont'd)

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.
EXAMPLE: P-8-V
8-12-75
74L(C)2982

II. TRIANGULATION STATION RECOVERED

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

III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH

Enter 'V-Vis.' and date.
EXAMPLE: V-Vis.
8-12-75

**PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

