

TP-00560

TP-00560

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00560	Edition No. 1
Job No. CM-7206	
Map Classification FINAL FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality ZAREMBO ISLAND	
Locality WRANGELL HARBOR	
19 72 TO 19	
REGISTERED IN ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY TP. 00560

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH. CM-7206

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Division, Norfolk, VA

OFFICER-IN-CHARGE

Jeffrey G. Carlen

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 Sept. 19, 1972
Compilation Feb. 22, 1973

2. FIELD

Field Jan. 26, 1972

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)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE

Alaska

ZONE

1

5. SCALE

1:10,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	D. Norman	Feb. 1973
METHOD: Analytic-Block	LANDMARKS AND AIDS BY	J. Perrow	Feb. 1973
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	R. Robertson	Feb. 1974
METHOD: Calcomp	CHECKED BY	R. Robertson	Feb. 1974
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	C. Blood	June 1975
COMPILATION	CHECKED BY	Rauck, Minton, & Neterer, Jr.	June 1975
INSTRUMENT: Wild B-8	CONTOURS BY	None	
SCALE: 1:15,000	CHECKED BY	None	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	C. Blood	June 1975
	CHECKED BY	F. Margiotta	July 1975
METHOD: Smooth draft	CONTOURS BY	None	
	CHECKED BY	None	
	HYDRO SUPPORT DATA BY	C. Blood	July 1975
SCALE: 1:10,000	CHECKED BY	F. Margiotta	July 1975
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	F. Margiotta	July 1975
	BY	J. Roderick	Apr. 1977
6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	L. Neterer, Jr.	May 1977
	BY	L. Neterer, Jr.	May 1977
7. COMPILATION SECTION REVIEW	BY	C. Blood	Aug. 1987
8. FINAL REVIEW	BY	J. Byrd	July 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Dec. 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY		

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

TP-00560

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" FL= 152.71mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		X (C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific MERIDIAN 120th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*72 E(C) 3771-3773	6-22-72	11:25	1:30,000	11.1 ft. above MLLW	
*72 E(C) 4094-4096	6-23-72	11:05	1:30,000	10.9 ft. above MLLW	
72 E(C) 3727, 3728	6-22-72	11:05	1:30,000	11.0 ft. above MLLW	
*72 E(C) 4073, 4074	6-23-72	10:45	1:30,000	10.3 ft. above MLLW	
*72 E(C) 3818, 3819	6-22-72	12:09	1:30,000	10.8 ft. above MLLW	

REMARKS

*Compilation photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was delineated from the photographs listed above.

3. SOURCE OF MEAN LOWER LOW-WATER LINE:

None delineated, the mean lower low-water photography was not available for compilation.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00555	No Survey	TP-00563	TP-00559

REMARKS

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

TP-00560

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G. Saladin	Sept. 1972
2. HORIZONTAL CONTROL	RECOVERED BY G. Saladin	Sept. 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY H. Milburn	Sept. 1972
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 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	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72 M 1224	WRANGELL B.M. 6, 1954		
3. PHOTO NUMBERS (Clarification of details)			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <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)			

NOAA FORM 76-36C
(3-72)

TP-00560

HISTORY OF FIELD OPERATIONS

1. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. Andreasen	Oct. 1976
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A.
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	C. Greenawalt C. Greenawalt C. Greenawalt
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	C. Greenawalt
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

72 E(C) 4094-4095, 72 E(C) 3727-3728

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
72 E(C) 3728	WORONKOFSKI POINT DYBCN (WRANGELL BREAKWATER LIGHT, 1954) (OIL DOCK REEF DYBCN, 1954) WRANGELL HARBOR DYBCN 2 WRANGELL HARBOR DYBCN 3		WRANGELL HARBOR DYBCN 4 WRANGELL HARBOR DYBCN 5 WRANGELL HARBOR DYBCN 6 STANDPIPE AERO TOWER TOWER

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

7. SUPPLEMENTAL MAPS AND PLANS

Wrangell Port Facility Plan dated September 23, 1976.

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

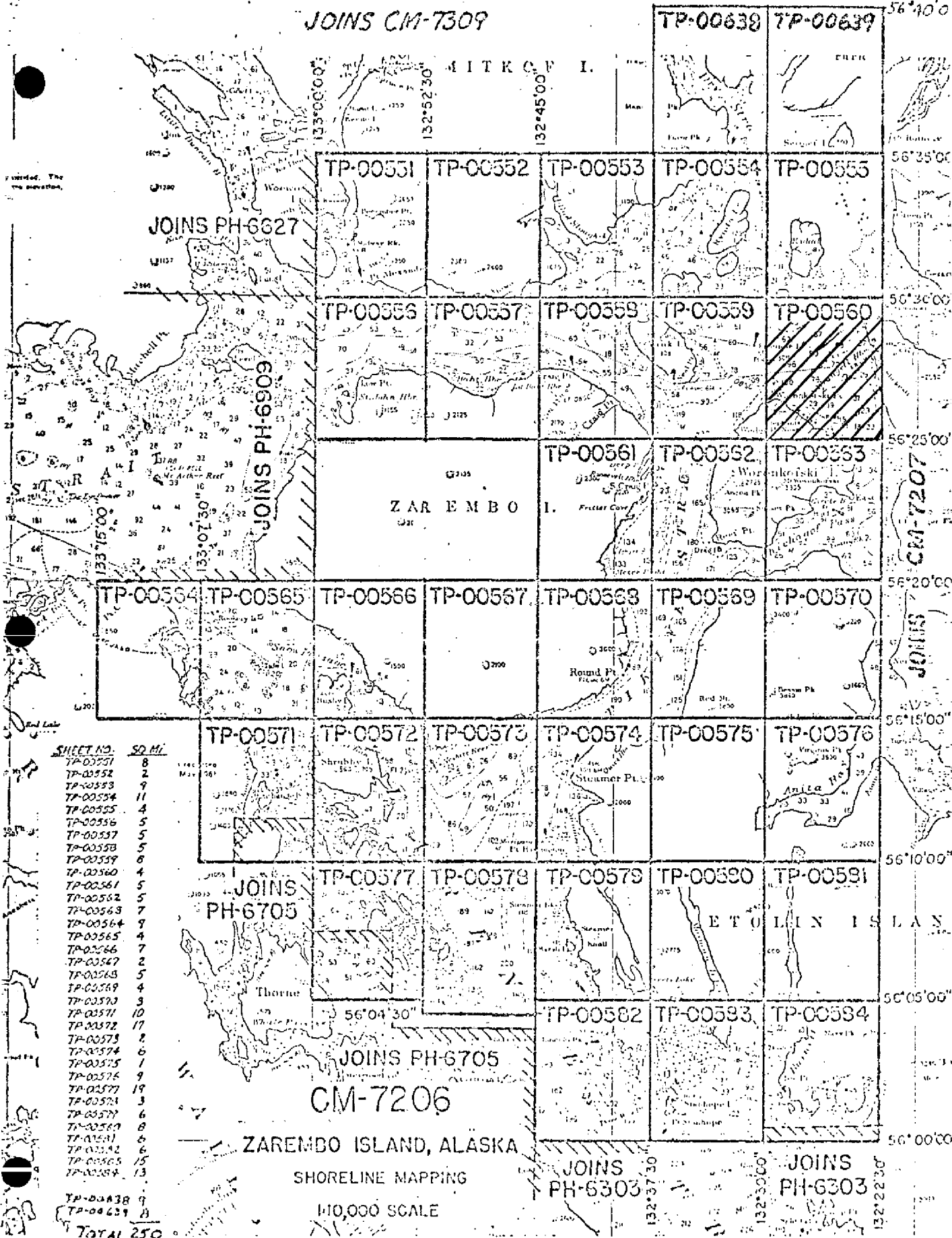
Film Field Edit Ozalid

Field Edit Report OPR-448-DA-76

Airport Obstruction Chart OC 5874, 2nd ed., July 1975

NOAA FORM 76-36D (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TP-00560 RECORD OF SURVEY USE		
I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	July 1975	Class III Map	July 29, 1975	July 24, 1975
Field edit applied compilation complete	Apr. 1975	Class I Map	Mar. 24, 1977	Mar. 24, 1977
Final Review	Aug. 1987	Class I Map	Dec. 1987	
II. LANDMARKS AND AIDS TO NAVIGATION				
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS	
1		July 1, 1977	8 aids to be charted	
1		July 1, 1977	3 landmarks to be charted	
1		July 1, 1977	4 landmarks to be deleted	
			Sept. 1987: The Aids on Chart 17384 appear to supersede the Form 76-40 forwarded July 1, 1977.	
2. <input checked="" type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: <u>July 1, 1977</u>				
3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____				
III. FEDERAL RECORDS CENTER DATA				
1. <input checked="" type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS.				
2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input checked="" type="checkbox"/> FORM NOS ⁷⁶⁻⁴⁰ 567 SUBMITTED BY FIELD PARTIES.				
3. <input type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:				
4. <input type="checkbox"/> 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 TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	

JOINS CM-7309



REVISED 5/18/70 R.W.W.
REVISED 4/23/73 R.W.W.

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00560

This final Class III shoreline map is one of thirty-six 1:10,000 scale maps designated as CM-7206, Zarembo Island, Alaska.

The purpose of this map was to provide contemporary shoreline in support of hydrographic operations and to aid in chart revision.

Field work prior to compilation during the 1972 field season consisted of recovery and premarking of horizontal control for aerotriangulation.

This map area was photographed in June 1972 with the RC-9 "M" camera at 1:60,000 scale using panchromatic film. The map area was also photographed in June 1972 with the RC-8 "E" camera at 1:30,000 scale using color film.

Aerotriangulation was completed at the Washington Office in February 1973 and revised in January 1974.

This map was compiled at the Norfolk Office in July 1975.

Field edit was acquired for TP-00560 during the 1976 field season. Field edit was applied at AMC in May 1977.

Final review was accomplished at the Atlantic Marine Center in August 1987. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

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

FIELD INSPECTION

TP-00560

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

Photogrammetric Plot Report
Zarembo Island, Alaska
CM-7206
February 1973

21. Area Covered

This report pertains to 34 sheets in the vicinity of Zarembo Island, Alaska. The sheets covered are TP-00551 through TP-00584. All are 1:10,000 scale.

22. Method

Six strips of RC-9 photography at 1:60,000 scale and three strips of RC-8 photography at 1:30,000 scale were bridged by analytic aerotriangulation methods and adjusted to ground with the block adjustment program. Points were established for determining ratios of 1:30,000 scale support photography. Sufficient points were also established for setting 1:30,000 scale compilation photography. These points were plotted by the Coradomat.

23. Adequacy of Control

The control was adequate. Ten horizontal control stations were used in the block adjustment. Shoreline points with approximately 0 elevation were used as vertical control.

The horizontal positions of several light structures were determined in the block adjustment. The positions of these structures are to be verified by field methods as a check on the block adjustment.

24. Supplemental Data

USGS topographic quadrangles were used in determining elevations for strip adjustments.

25. Photography

The photography was adequate, however, on sheet TP-00565, there is no coverage with 1:30,000 scale photography of Rookery and Tide Islands.

On sheet TP-00559 it was impossible to establish points for the compilation of Five Mile Island. It is recommended that a field party establish points for the graphic compilation. A ratio photograph was ordered and sent to the compilation office.

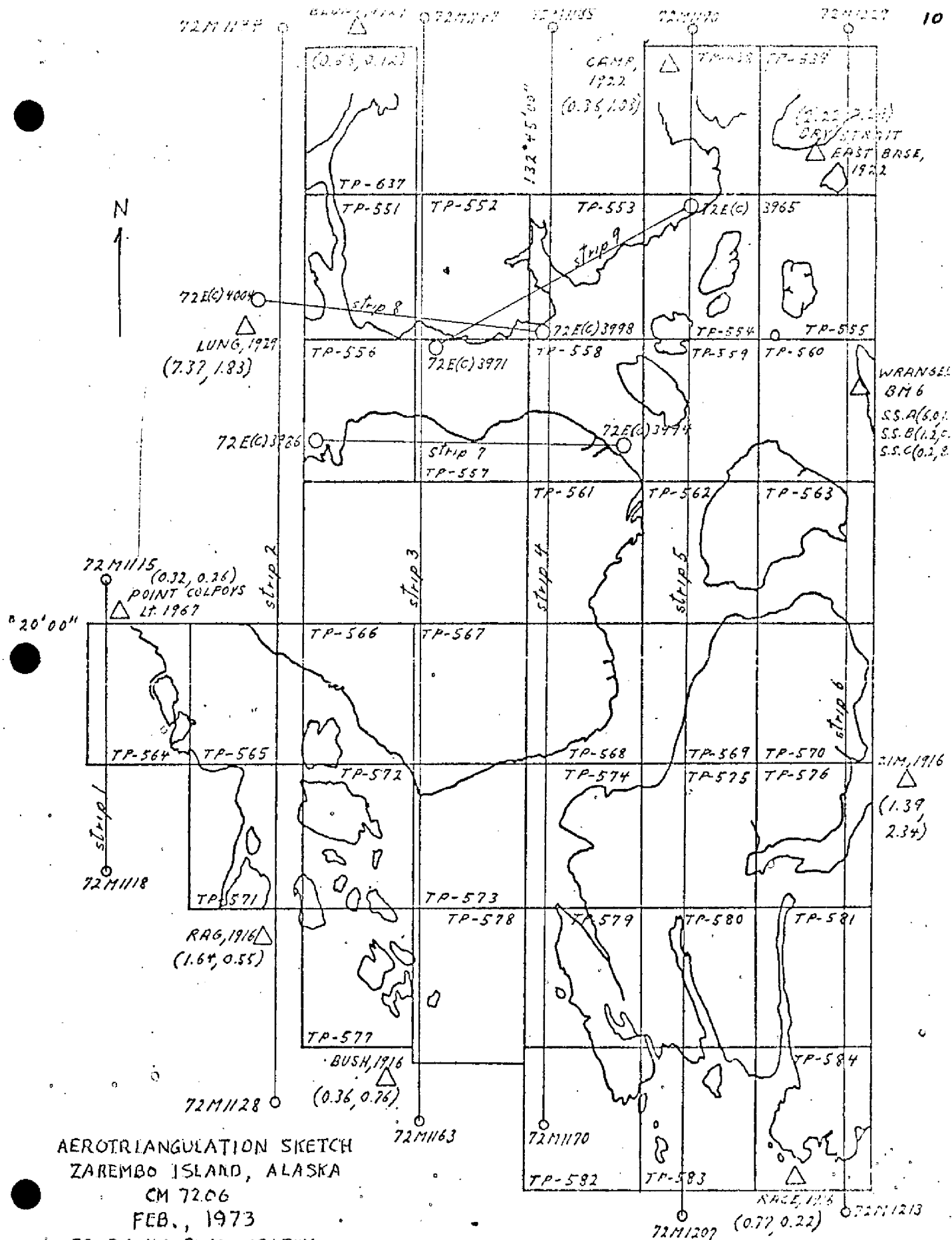
submitted by,

Don O. Norman

Don O. Norman

Approved by

John D. Perrow
John D. Perrow, Chief, Aerotriangulation Section



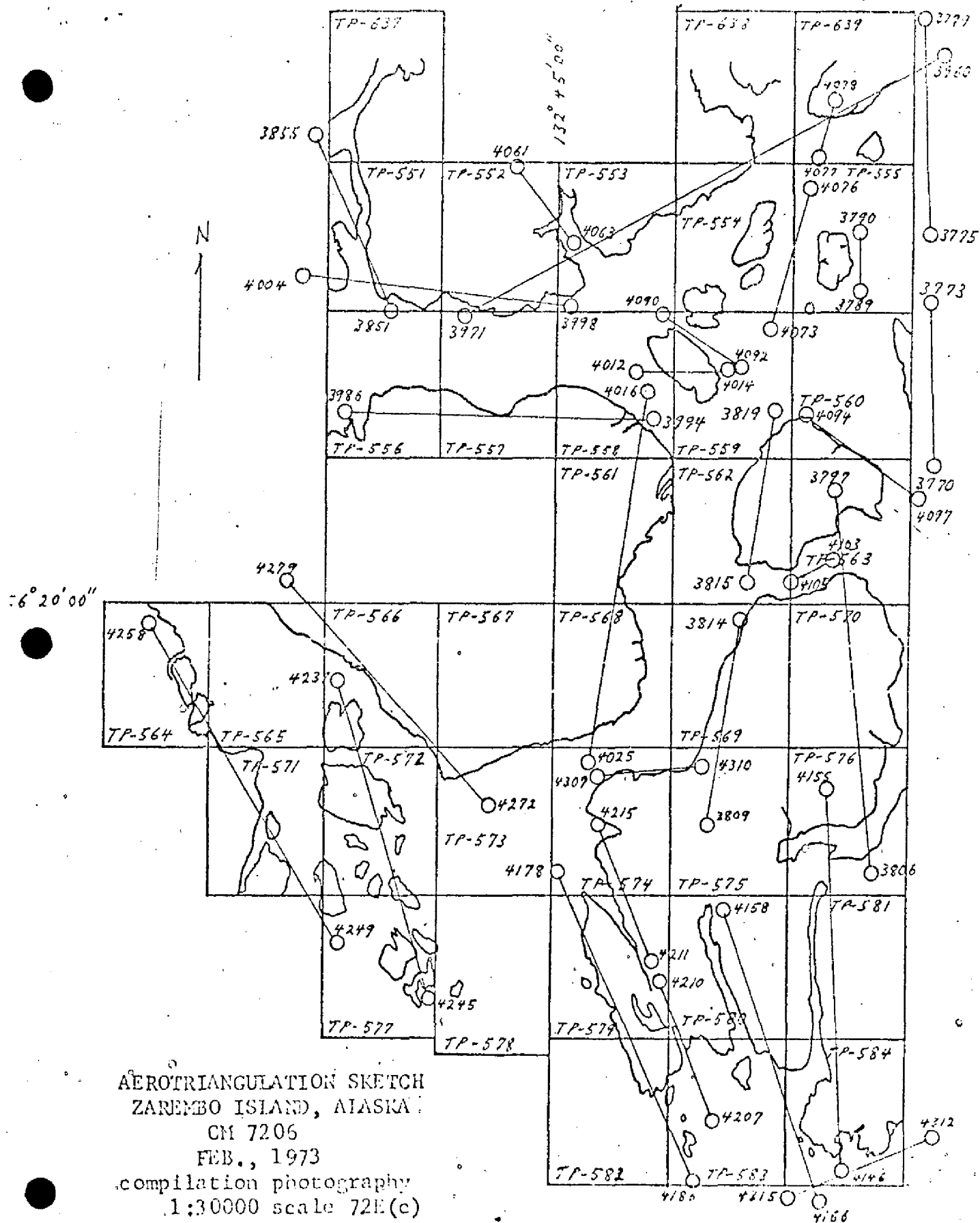
AEROTRIANGULATION SKETCH
ZAREMBO ISLAND, ALASKA
CM 7206

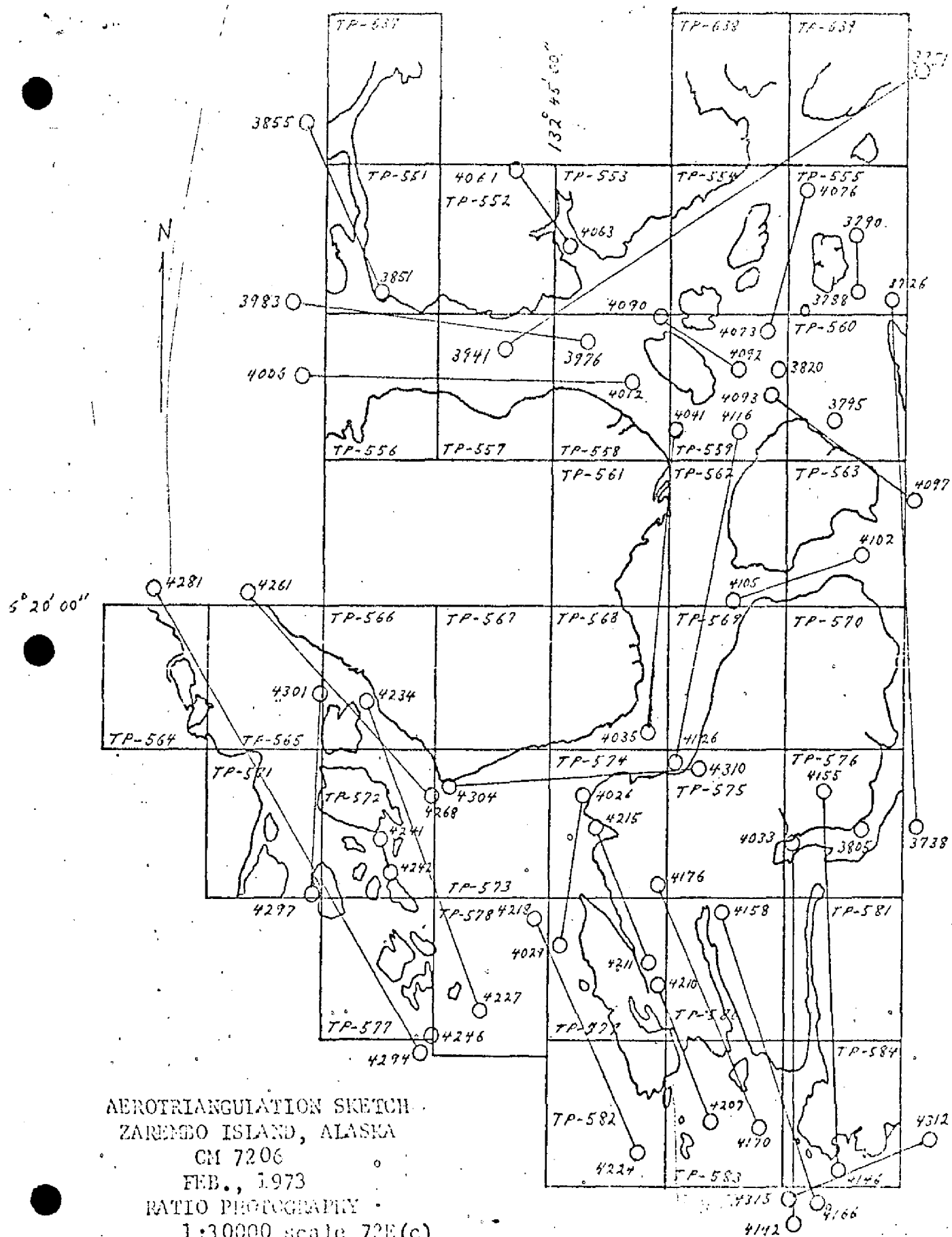
FEB., 1973

BRIDGING PHOTOGRAPHY

01:60000 scale

01:30000 scale





ADDENDUM
ZARENBO ISLAND, ALASKA
CM-7206
January 1974

In the compilation office at the Atlantic Marine Center, it was noticed that when a model in the vicinity of Wrangell Narrows (TP-00551) was set by holding the compilation points, the navigation lights would not plot in their proper positions. In this vicinity the horizontal control station LUNG, 1929, was weighted in the block and would not hold within 7 feet.

It was decided to remeasure several models to determine refined coordinates for MIDWAY ROCK LIGHT, 1929, and PORT ALEXANDER LIGHT, 1929. Plate 72E(C)4004 was also remeasured for another refined coordinate for LUNG, 1929. At this time it was noticed that the refined coordinate for point 004320 was not correct. Corrections were made and all these refined coordinates were placed in their proper place in the block.

Another block adjustment was run just as before, except MIDWAY ROCK LIGHT and PORT ALEXANDER LIGHT were also weighted. This produced satisfactory results. LUNG fit within 0.8 feet, MIDWAY ROCK LIGHT within 2.2 feet and PORT ALEXANDER LIGHT within 3.1 feet. In this same vicinity compilation points changed by as much as 16.7 feet.

It is believed that this block is now properly adjusted and will meet national map accuracy standards. New T-sheets will be ruled and forwarded to AMC for compilation.

Submitted by,

Don O. Norman

Don O. Norman

Approved by:

John D. Perrow, Jr.
John D. Perrow, Jr.

Chief, Aerotriangulation Section

Note: After thorough research it was determined that the name PORT ALEXANDER LIGHT was used incorrectly in this report for POINT ALEXANDER LIGHT 1929. POINT ALEXANDER LIGHT 1929 is adjacent to LUNG 1929 and MIDWAY ROCK LIGHT 1929. PORT ALEXANDER LIGHT is located approximately 2° west of the project area.

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	CM-7206	GEODETIC DATUM	ORIGINATING ACTIVITY	REMARKS
TP-00560			N.A. 1927	Division, AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
FIELD, 1922	Vol. 3 P. 989	31	X=	φ 56° 29' 18.922"	
			Y=	λ 132° 23' 19.268"	
OIL DOCK REEF DAYBEACON, 1954	Vol. 3 P. 931	32	X=	φ 56° 28' 58.253"	
			Y=	λ 132° 23' 38.949"	
			X=	φ 56° 28' 20.766"	
WRANGELL B.M.6., 1954	Vol. 3 P. 930	225100	Y=	λ 132° 23' 09.556"	
			X=	φ 56° 29' 55.820"	
ROUND, 1954	Vol. 3 P. 930	60	Y=	λ 132° 28' 35.942"	
			X=	φ 56° 28' 02.408"	
WRANGELL BREAKWATER LIGHT, 1954	Vol. 3 P. 931	33	Y=	λ 132° 23' 02.524"	
			X=	φ 56° 27' 21.486"	
FORT WRANGELL, NORTH BASE 2, 1916	Vol. 1 P. 103	34	Y=	λ 132° 23' 03.544"	
			X=	φ 56° 26' 21.862"	
LARGE 2, 1922	Vol. 3 P. 989	30	Y=	λ 132° 28' 44.777"	
			X=	φ	
			Y=	λ	
			X=	φ	
			Y=	λ	
			X=	φ	
			Y=	λ	
COMPUTED BY A. C. Rauck, Jr.		DATE 3/14/73	COMPUTATION CHECKED BY F. Margiotta		DATE 3/20/73
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

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

COMPILATION REPORT

TP-00560

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 scale color photographs. The stage of tide was above mean lower low-water at the time of photography, therefore, detail which covers by tide is only partially compiled.

The quality and coverage of the photography is adequate for shoreline compilation.

32. CONTROL:

Refer to the Photogrammetric Plot Report, dated February 1973.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from the compiler's interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high-water line and alongshore details were delineated from the compiler's interpretation of the photographs.

36. OFFSHORE DETAILS:

Offshore detail was delineated from the compiler's interpretation of the photographs. Details which were covered by the tide at the time of photography were not compiled.

37. LANDMARKS AND AIDS:

Forms 76-40 concerning these items were submitted to the field for verification.

38. CONTROL FOR FUTURE SURVEY:

None.

TP-00560

39. JUNCTIONS:

A satisfactory junction was made with the adjoining contemporary maps. Refer to the Data Record Form 76-36B, item 5.

40. HORIZONTAL AND VERTICAL ACCURACY:

No Statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the U.S. Geological Survey quadrangle PETERSBURG (B-2) Alaska, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following U.S. Coast and Geodetic Survey charts:

Chart 8160, 1:80,000 scale, dated July 4, 1970

Chart 8165, 1:20,000 scale, with 1:10,000 scale inset of Wrangell Harbor, dated August 5, 1972.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Charles E. Blood

Charles Blood
Cartographic Technician
July 1, 1975

Approved and forwarded:

J. Byrd for

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7206 (Clarence and Sumner Straits, Alaska)

TP-00560

Cemetery Point

Eastern Passage

Highfield Anchorage

Highfield, Point

Liesnoi Island

Shakes Island

Shekesti, Point

Woronkofski Island

Woronkofski Point

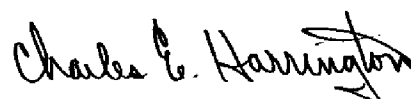
Wrangell

Wrangell Harbor

Wrangell Island

Zimovia Strait

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

FIELD EDIT REPORT

TP-00560

Sumner Strait, Alaska

OPR-448-DA-76

NOAA Ship DAVIDSON

1976

51 METHODS

Field edit on TP-00560 was accomplished in accordance with project instructions OPR-448-DA-76, Sumner Strait, Alaska, dated 10 June 1976, and as per Change No. 4-75 of the PMC OPORDER.

A Field Print and the following field photographs (matte ratio photographs 72E4094, 72E4095, 72E3727 and 72E3728) were taken into the field to investigate and identify features.

Field edit investigations were made on 6, 7, 12, 18 and 19 October 1976. These investigations were made from skiffs at times near low tide. Three-point sextant fixes with check fixes were taken to locate features not visible on the photographs. Data for these fixes are recorded in the hydrographic records accompanying survey H-9651 (DA-10-4-76). Detached positions which have been recorded for processing with hydrographic data are indexed on the Field Edit Sheet.

Weather was generally overcast, raining, with winds up to 15 knots. Vertical water visibility was limited from 0 to 5 feet by the turbidity from the outflow of the Stikine River.

Tide gages were located at Point Howe, Vank Island and Greys Island. (See Field Tide Note.)

Greenwich Mean Time was recorded on all field records.

Ink colors used to process field edit data were as follows:

FIELD PHOTOGRAPHS:	Violet
FIELD EDIT SHEET:	Red - Additions Green - Deletions Violet - References to photos
FINAL FIELD SHEET:	Black - Manuscript, no change Red - Additions

52 ADEQUACY OF COMPILATION

The photogrammetric compilation was considered adequate.

53 MAP ACCURACY

In most cases, the mean high water line depicted on the map

was accurate. Revision was made wherever discrepancies were found.

54 RECOMMENDATIONS

This manuscript should be considered complete with the corrections compiled during this field edit.

The photography should be done at a lower tide if possible. The photographs should be more up-to-date in areas around cities and harbors.

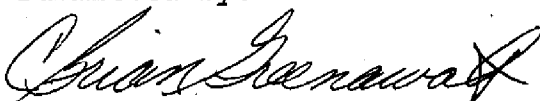
56 MISCELLANEOUS

NOAA Forms 76-40, "Non-floating Aids or Landmarks for Charts", have been completed for this manuscript, and are appended.

Also appended is the blueprint of the new Wrangell Port Facility and a brief summary of the U. S. Army Corps of Engineers' Wrangell Harbor Project.

For a complete survey of the improvements to Wrangell Airport (runway extension and fill operation), see Airport Obstruction Chart OC 5874 (2nd ed., December 1975).

Submitted by:



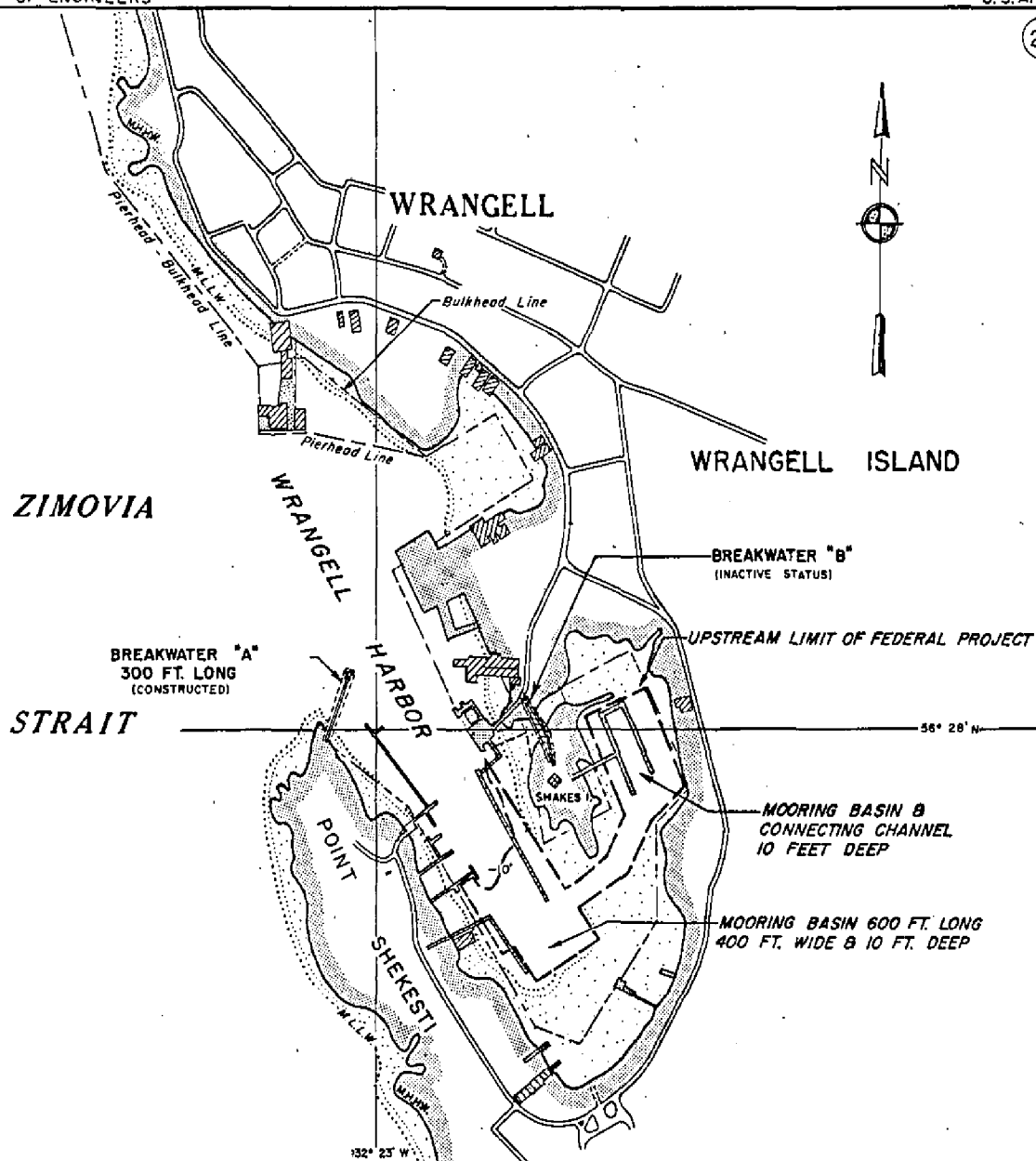
C. Brian Greenawalt
ENS, NOAA

Approved and Forwarded by:



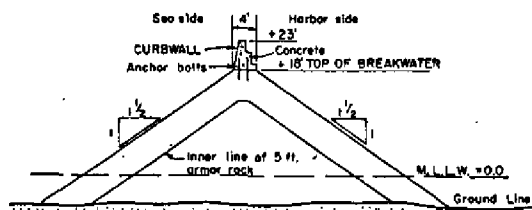
Christian Andreasen
CDR, NOAA
Commanding Officer

(29)



NOTES: THIS LOCALITY SHOWN ON U.S.C.G.S. CHARTS
NO. 8140, 8141, & 8142.

ELEVATIONS & DEPTHS ARE BASED ON
M.L.L.W. O.D.



TYPICAL SECTION OF BREAKWATER

Scale in feet
0 5 10 15 20 25

NAVIGATION WRANGELL HARBOR ALASKA

Revised 1972

SCALE IN FEET

500 0 500 1000 1500

WRANGELL HARBOR, ALASKA

Condition of Improvement 30 June 1973

EXISTING PROJECT: Adopted 22 September 1922, modified 30 August 1935 and 2 March 1945, provides for construction of a rubble mound breakwater 300 feet long to protect the southern portion of the harbor and dredging a mooring basin 600 feet long, 400 feet wide, and 10 feet deep below mean lower low water within the protected area; and an inner basin in the tide-flat area east of Shakes Island 325 feet wide and about 550 feet long with a connecting channel 120 feet wide and approximately 530 feet long from the outer mooring basin; all at a depth of 10 feet at mean lower low water; and construction of a rock mound breakwater 320 feet long on the reef north of Shakes Island.

PROGRESS OF WORK: The rubble mound breakwater was completed in 1926, and the original mooring basin was completed September 1936. Dredging of the inner basin east of Shakes Island and the connecting channel was completed in 1957. Construction of the rock mound breakwater north of Shakes Island was placed on inactive status as material to be used from the inner basin was unsuitable and the breakwater is considered unnecessary for safe moorage of vessels. Maintenance dredging in the northern portion of the inner basin, connecting channel and along the easterly side of the outer basin was accomplished September and October 1968.

COST TO DATE:	New Work	Maintenance	Total
	\$537,020	\$140,814	\$677,834
RANGE OF TIDE:	Mean Range	Diurnal Range	Extreme Range
	13.7'	16.1'	26.0'

CONTROLLING DEPTH: Project depths available, October 1968.

The small boat basins have a capacity of 300 vessels and are used as an operating base for commercial fishing.

REVIEW REPORT
SHORELINE

TP-00560

61. GENERAL STATEMENT:

See the summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with Hydrographic Survey H-9651, 1:10,000 scale, dated August 9, 1978.

A contemporary survey for east of longitude 132° 28.0' was not available for comparison at the time of final review.

There were no conflicts.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS chart 17384, 1:20,000 scale with Wrangell Harbor 1:10,000 scale inset, dated December 24, 1983.

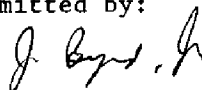
The chart compared well with this manuscript, with the exception of the nonfloating aids. The Wrangell Harbor Day beacon positions and numbers are not as listed on this manuscript and the Form 76-40 dated February 16, 1977, forwarded to the Marine Chart division. The charted information appears to have superseded this 1977 data.

TP-00560

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

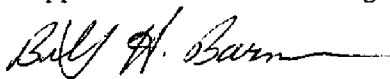
This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:



James L. Byrd, Jr.
Final Reviewer

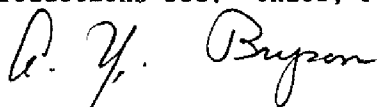
Approved for forwarding:



Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Chief, Photogrammetric Productions Sec. Chief, Photogrammetry Branch



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]