TP-00421

TP-00421

NOAA FORM 76-35
(3-76)

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

DESCRIPTIVE REPORT

Map No. TP-00421	*Edition No.* 1
Job No. CM-7309	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	

LOCALITY

State ALASKA
General Locality WRANGELL NARROWS
Locality PETERSBURG

1974 TO 1978

REGISTRY IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE:1976-669-248

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

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP. 00421

MAP EDITION NO. (1)

MAP CLASS FINAL MAP

JOB PH~~X~~ CM7309

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, Rockville, Maryland

OFFICER-IN-CHARGE: Commander James Collins

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH- ____ MAP CLASS ____ SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Oct. 20, 1976	Aerotriangulation	May 18, 1973	Premarking
April 1, 1977	Compilation	April 15, 1974	Amendment I
May 12, 1977	Amendment I	June 4, 1975	Additional Control.

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [ ] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Oblique Mercator

4. GRID(S): STATE Alaska, ZONE 1

5. SCALE: 1:5000 — STATE, ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	R. Kelly	April 1977
	LANDMARKS AND AIDS BY	R. Kelly	April 1977
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY	S. Solbeck	April 1977
	CHECKED BY	S. Solbeck	April 1977
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	J. Taylor, J. Schad	July 1977
	CHECKED BY	J. Battley, Jr.	July 1977
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:7500	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	J. Schad	July 1977
	CHECKED BY	J. Battley, Jr.	July 1977
METHOD: Smooth drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:5000	HYDRO SUPPORT DATA BY	N.A.	
	CHECKED BY	N.A.	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	P. Dempsey	July 1977
6. APPLICATION OF FIELD EDIT DATA	BY	J. Minton	June 1979
	CHECKED BY	C. Goff	July 1979
7. COMPILATION SECTION REVIEW	BY	C. Goff	July 1979
8. FINAL REVIEW	BY	J. Hancock	April 1981
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	April 1981
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	R. Kelly	May 1981
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. D. Worrell	OCT 1981

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

TP-00421

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-10 "C" focal length = 88.47 mm

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

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

TIME REFERENCE
ZONE: Pacific — [X] STANDARD [ ] DAYLIGHT
MERIDIAN: 120°W.

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
74C(C)0538 thru 0542	07/27/74	1413	1:15,000	MLLW +4.3 Ft.

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled with a Wild B-8 plotter from the above listed photography. Modifications to the originally compiled mean high water line resulted from the application of data listed on form 76-36C, Field Edit, included with this report.

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

No mean lower low water line was compiled.

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
H-9791	June 1980	Verified smoothsheet			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00437	TP-00437	TP-00437	No Survey

REMARKS

This 1:5,000 scale manuscript lies within the northwest portion of 1:10,000 scale TP-00437.

ESSA FORM 76-36c
(2-70)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TP-00421

HISTORY OF FIELD OPERATIONS

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

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		R. B. Melby	May 1974
2. HORIZONTAL CONTROL	RECOVERED BY	R. B. Melby	May 1974
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	R. B. Melby	May 1974
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: [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME
74C(C)0595	USE 8, 1902

2. VERTICAL CONTROL IDENTIFIED

None

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

One form 152, Control Station Identification card

ESSA FORM 76-36c
(2-70)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TP-00421

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		C. W. Hayes, Cdr., NOAA	Sept. 1978
2. HORIZONTAL CONTROL	RECOVERED BY	L. F. Haas, Lt(jg), NOAA	Sept. 1978
	ESTABLISHED BY	L. F. Haas, Lt(jg), NOAA	Sept. 1978
	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	L. F. Haas, Lt(jg), NOAA	Sept. 1978
	LOCATED (*Field Methods*) BY	L. F. Haas, Lt(jg), NOAA	Sept. 1978
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	T. Peasley, Ens., NOAA	Sept. 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME

2. VERTICAL CONTROL IDENTIFIED

None.

PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

74C(C)Ø539 and 74C(C)Ø541

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

Two engineering plans concerning piers.

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

One sounding volume containing fix data and field sketches

One film Field Edit Ozalid
One Field Edit Report

NOAA FORM 76-36D
(3-72)

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

TP-00421

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 1977	Class III manuscript	None	June 1978
Field edit applied, compilation complete	July 1979	Class I manuscript	8/6/80	Dec. 1979
Final Review	April 1981	Final Map	April 1981	April 1981

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
2		8/6/80	Forms 76-40 for 14 nonfloating aids to be charted

2. [X] REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: April 1981
3. [ ] REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. [X] BRIDGING PHOTOGRAPHS; [X] DUPLICATE BRIDGING REPORT; [X] COMPUTER READOUTS.
2. [X] CONTROL STATION IDENTIFICATION CARDS; [X] FORM NOS ~~XXX~~ SUBMITTED BY FIELD PARTIES. 76-40
3. [X] 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)*

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

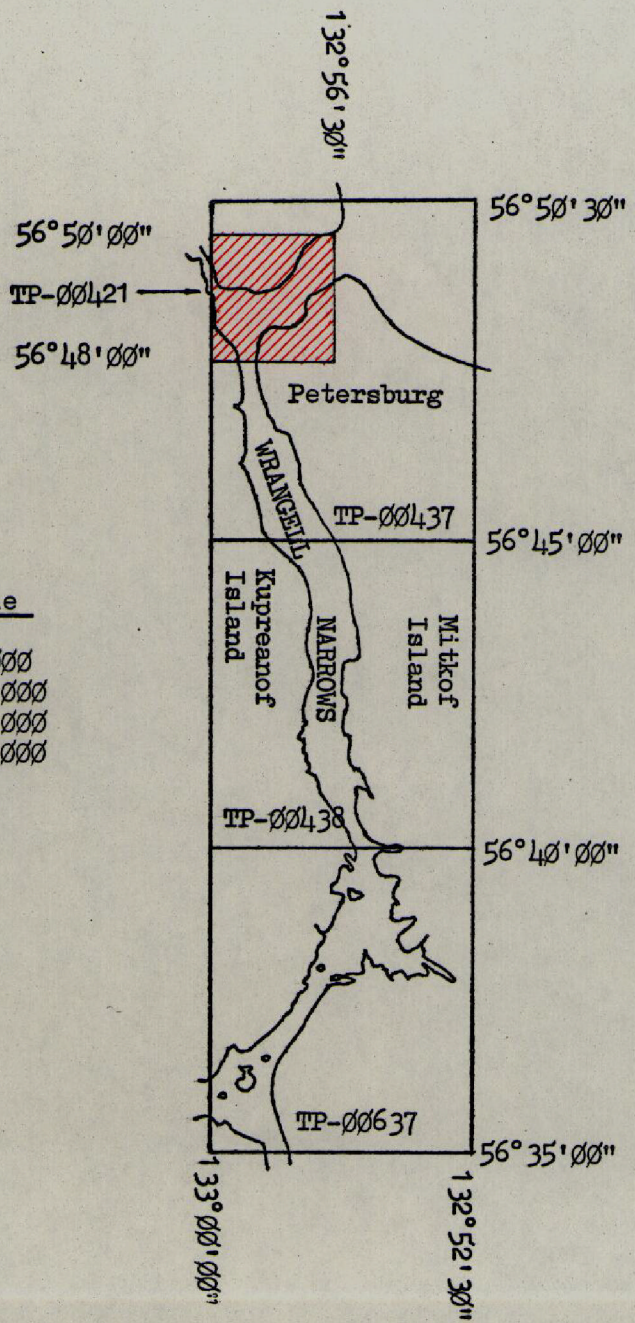
NOAA FORM 76-36D

☆U. S. GOVERNMENT PRINTING OFFICE: 1973--778075/1077 REGION NO. 6

WRANGELL NARROWS, ALASKA

CM - 7309

TP-00421



Manuscript Scale

TP-00421	1:5,000
TP-00427	1:10,000
TP-00428	1:10,000
TP-00637	1:10,000

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORTS

TP-00421

This 1:5,000 shoreline manuscript is one of four final maps that comprise Project CM-7309, Wrangell Narrows, Alaska. The project limits begin at No Thorofare Pt. on Woewodski Island and extends north through Wrangell Narrows up to Fredrick Sound. This map is the large scale inset of Petersburg Harbor which lies within the northwest portion of TP-00437.

The purpose of this map was to provide contemporary shoreline data for the support of hydrographic operations and to furnish data for nautical chart revision.

The contemporary hydrographic survey, assigned as a Navigable Area Survey, was accomplished by the NOAA Ship Davidson in accordance with OPR-325-DA-78. Verified smoothsheet H-9791 was compared with this map during final review. Refer to the Review Report in item #64.

Field work prior to compilation was accomplished in May 1974; this involved the premarking of ground stations for horizontal control. However, after the photography was flown it was discovered that aerotriangulation requirements could not be met due to insufficient data. Additional horizontal control was field determined in June 1975 by photo identification methods.

Photo coverage for compilation and aerotriangulation was flown in July 1974 with the "C" camera at scales 1:15,000, 1:30,000 and 1:40,000 with color photography. The photography was taken over a period of several days at various tide stages. Low water photography was not assigned.

Analytic aerotriangulation was adequately provided by the Washington Science Center in April 1977.

Compilation was originally assigned to the Atlantic Marine Center in April 1977. Control problems were encountered during compilation and the project was returned to aerotriangulation for further analysis. Afterwards, the project was assigned to the Coastal Mapping Section at the Washington Science Center and compilation was accomplished in July 1977.

The field edit operation was assigned to NOAA Ship Davidson and was accomplished in Sept. 1978 in accordance with OPR-325-DA-78.

Field edit was applied in July 1979 by the Photogrammetric Branch at the Pacific Marine Center.

Final review was performed at the Atlantic Marine Center in April 1981. An explanatory note concerning the mapped shallow limits was added to the legend for clarification that these photogrammetric limits were intended only to assist the hydrographer and field editor. These limits were retained on the final map because the hydrographic smoothsheets reflect the field editors terminology of specific foul areas within the shallow limits.

According to the Tides and Water Levels Division, the tide gage requirements for OPR-325-DA-78 were not met during the 1978 field edit operations. Consequently, rock height determinations were referenced from predicted tide data.

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

Field Inspection Report

TP-ØØ421

Field inspection was limited to the recovery and identification of control necessary for aerotriangulation purposes.

Photogrammetric Plot Report
Wrangell Narrows, Alaska
Job CM-7309

April 18, 1977

21. Area Covered

This report covers Wrangell Narrows from December Point to Beacon Point, Alaska.

22. Method

Six strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Alaska State Plane Coordinate System Alaska Zone 1. One strip of 1:40,000 photography was bridged to establish control for the bridging of 4 strips of 1:30,000 and 1 strip of 1:15,000 scale photography. The 1:15,000 and 1:30,000 scale photography was bridged to locate aids to navigation. Ratio points were drilled and measured on 1:15,000 and 1:30,000 scale photography. Ratio prints of the bridging photography were ordered, one each on matte paper. The bridging points will provide model points for B-8 compilation. Ruling of manuscripts and plotting of points were done on the Coradomat.

23. Adequacy of Control

All control was adequate and held within the accuracy required by National Standards of Map Accuracy at 1:5,000 and 1:10,000 scale.

24. Supplemental Data

Local shoreline and U.S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

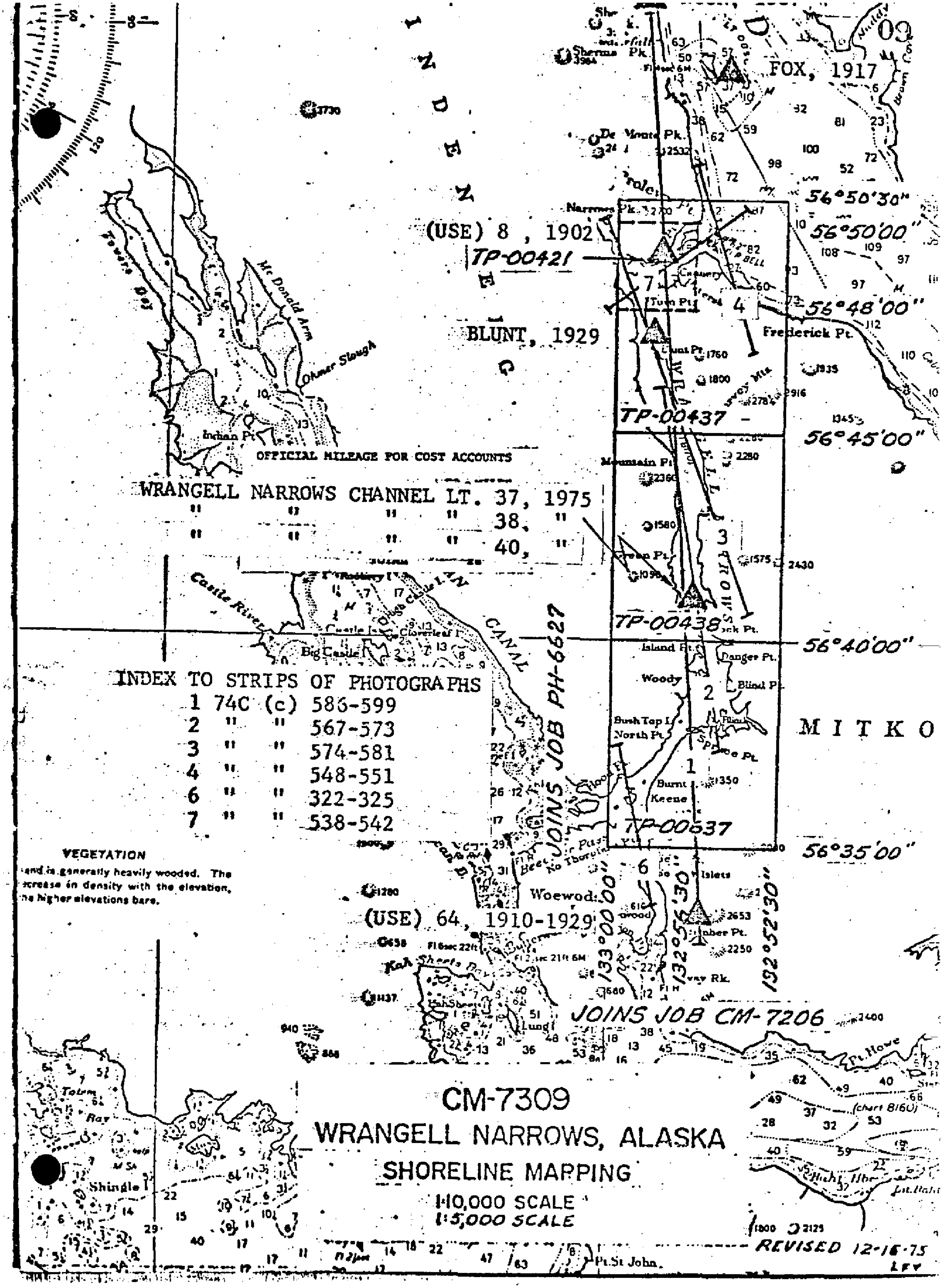
RC-8 color positives were adequate as to coverage, overlay, and definition.

Submitted by:

Robert B. Kelly

Approved and Forwarded:

John D. Perrow, Jr.
Chief, Aerotriangulation Section


FOX, 1917
(USE) 8 , 1902
TP-00421
BLUNT, 1929
TP-00437
56°50'30"
56°50'00"
56°48'00"
56°45'00"
56°40'00"
56°35'00"
OFFICIAL MILEAGE FOR COST ACCOUNTS
WRANGELL NARROWS CHANNEL LT. 37, 1975
" " " " 38, "
" " " " 40, "
TP-00438
TP-00537
INDEX TO STRIPS OF PHOTOGRAPHS
1 74C (c) 586-599
2 " " 567-573
3 " " 574-581
4 " " 548-551
6 " " 322-325
7 " " 538-542
JOINS JOB PH-6627
VEGETATION
MITKO
(USE) 64, 1910-1929
133°00'00"
132°55'30"
132°52'30"
JOINS JOB CM-7206
CM-7309
WRANGELL NARROWS, ALASKA
SHORELINE MAPPING
1:10,000 SCALE
1:5,000 SCALE
REVISED 12-16-75
McDonald Arm
Ohmer Slough
Indian Pt.
Castle River
Big Castle
CANAL
Frederick Pt.
Blunt Pt.
Mountain Pt.
Island Pt.
Danger Pt.
Woody
Bush Top I.
North Pt.
Burnt I.
Keene
Woewodski
Kah Sheets Bay
Shingle I.
Pt. St. John

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-ØØ421	CM-7309	N. A. 1927	Photogrammetric Br., PMC, Seattle

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
Nova, 1929 -1978	Unadjusted Field Pos.		x=	φ 56° 48' 13.8Ø1"	426.9m (1429.1m)
			y=	λ 132° 58' 46.61Ø"	791.Øm (227.2m)
Petersburg Bar Range Front Light, 1958	561324		x= 2,821,693.25	φ 56° 48' 23.826"	737.Øm (1119.Øm)
			y= 1,817,227.9Ø	λ 132° 59' 15.991"	271.4m (746.7m)
Petersburg Bar Range Rear Light, 1958	561324		x= 2,82Ø,42Ø.56	φ 56° 48' 15.122"	467.8m (1388.2m)
			y= 1,816,332.Ø5	λ 132° 59' 39.Ø1Ø	662.Øm (356.2m)
Petersburg Creek Range Front Light, 1958	561324		x= 2,822,Ø41.4Ø	φ 56° 48' 29.543"	913.9m (942.1m)
			y= 1,817,811.52	λ 132° 59' Ø9.633"	163.5m (854.6m)
Petersburg Creek Range Rear Light, 1958	561324		x= 2,821,9Ø9.53	φ 56° 48' 39.546"	1222.3m (632.7m)
			y= 1,818,825.33	λ 132° 59' 11.821"	2ØØ.6m (817.4m)
Petersburg Fisheries Pier North Light, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 53.471"	1654.Øm (2Ø2.Øm)
			y=	λ 132° 57' 29.18Ø"	495.1m (522.8m)
Petersburg Fisheries Pier South Light, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 52.Ø74"	161Ø.8m (245.2m)
			y=	λ 132° 57' 3Ø.696"	52Ø.8m (497.2m)
Petersburg Lutheran Church Spire, 1958	561324		x= 2,829,323.44	φ 56° 48' 48.544"	15Ø1.6m (354.4m)
			y= 1,819,814.1Ø	λ 132° 56' 58.446"	991.6m (26.4m)
Prolewy Rocks Beacon, 1929	561324		x= 2,83Ø,4Ø9.48	φ 56° 49' 32.4Ø3"	1ØØ2.3m (853.6m)
			y= 1,824,276.41	λ 132° 56' 38.Ø88"	646.Øm (371.6m)
Standard Fuel Pier North Light, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 37.371"	1156.Øm (7ØØ.Øm)
			y=	λ 132° 58' 11.1Ø4"	188.4m (829.7m)

COMPUTED BY	J. R. Minton	DATE 11/15/79	COMPUTATION CHECKED BY	C. Goff	DATE 7/79
LISTED BY	J. R. Minton	DATE 11/15/79	LISTING CHECKED BY	C. Goff	DATE 7/79
HAND PLOTTING BY	J. R. Minton	DATE 11/15/79	HAND PLOTTING CHECKED BY	C. Goff	DATE 7/79

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

10

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-ØØ421	CM-73Ø9	N. A. 1927	Photogrammetric Br., PMC, Seattle

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
Standard Fuel Pier South Light, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 36.662"	1134.1m (721.9m)
			y=	λ 132° 58' 13.146"	223.1m (795.1m)
USE 2, 1929	561324		x= 2,83Ø,388.85	φ 56° 49' 39.459"	122Ø.6m (635.4m)
			y= 1,824,992.24	λ 132° 56' 38.323"	65Ø.Øm (367.6m)
USE 4, 19Ø2	561324		x= 2,828,161.16	φ 56° 49' 15.763"	487.6m (1368.4m)
			y= 1,822,564.19	λ 132° 57' 18.814"	319.1m (698.7m)
USE 6, 19Ø2	561324		x= 2,825,716.29	φ 56° 49' Ø9.476"	293.1m (1562.8m)
			y= 1,821,9Ø1.ØØ	λ 132° 58' Ø2.869"	48.7m (969.1m)
USE 8, 19Ø2	561324		x= 2,823,297.81	φ 56° 48' 51.424"	159Ø.7m (265.3m)
			y= 1,82Ø,Ø44.58	λ 132° 58' 46.661"	791.7m (226.3m)
USE 1Ø, 19Ø2	561324		x= 2,82Ø,958.13	φ 56° 48' 11.76Ø"	363.8m (1492.2m)
			y= 1,815,996.17	λ 132° 59' 29.414"	499.2m (519.Øm)
Whitney Fidalgo Seafoods Pier North Light, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 48.414"	1497.6m (358.4m)
			y=	λ 132° 57' 42.Ø27"	713.Øm (3Ø5.Øm)
Whitney Fidalgo Seafoods Pier South Light, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 47.Ø4Ø"	1455.1m (4ØØ.9m)
			y=	λ 132° 57' 44.853"	761.Øm (257.Øm)
Wrangell Narrows Channel Light 54, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 13.826"	427.7m (1428.3m)
			y=	λ 132° 59' Ø2.382"	4Ø.4m (977.8m)
Wrangell Narrows Channel Light 56, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 22.767"	7Ø4.3m (1151.7m)
			y=	λ 132° 58' 59.6Ø2"	1Ø11.4m (6.8m)

COMPUTED BY	J. R. Minton	DATE 11/15/79	COMPUTATION CHECKED BY	C. Goff	DATE 7/79
LISTED BY	J. R. Minton	DATE 11/15/79	LISTING CHECKED BY	C. Goff	DATE 7/79
HAND PLOTTING BY	J. R. Minton	DATE 11/15/79	HAND PLOTTING CHECKED BY	C. Goff	DATE 7/79

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

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-ØØ421	CM-73Ø9	N. A. 1927	Photogrammetric Br., PMC, Seattle

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
Wrangell Narrows Channel Light 58, 1978	Unadjusted Field Pos.		x=	φ 56° 48' 3Ø.Ø57"	929.8m (926.2m)
			y=	λ 132° 58' 5Ø.721"	86Ø.6m (157.5m)
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	J. R. Minton	DATE	11/15/79	COMPUTATION CHECKED BY C. Goff	DATE 7/79
LISTED BY	J. R. Minton	DATE	11/15/79	LISTING CHECKED BY C. Goff	DATE 7/79
HAND PLOTTING BY	J. R. Minton	DATE	11/15/79	HAND PLOTTING CHECKED BY C. Goff	DATE 7/79

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

12

COMPILATION REPORT
Wrangell Narrows, Alaska
TP-00421

31. Delineation

TP-00421 is a 1:5,000 scale manuscript that falls within the limits of 1:10,000 manuscript TP-00437. The area of TP-00421 will not be duplicated on TP-00437.

Delineation was accomplished on the Wild B-8 stereoplotter, using the 1:15,000 scale color photography listed on data record 76-36B of this report. This photography was taken when the stage of tide was 4.3 above MLLW. The mean range of tide for the area was 13.4', requiring the contouring of the MHWL. Photo coverage was adequate.

32. Control

See the attached Photogrammetric Plot Report, dated: April 1977.

Lights (channel LT. 54, channel LT. 56, and channel LT. 58) were listed as control established in 1958. According to the light list and the photogrammetric plot these lights were rebuilt and moved. Therefore only the photogrammetric plot position is shown on the manuscript.

33. Supplemental Data

None.

34. Contours and Drainage

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. Shoreline and Alongshore Details

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

No mean lower low water line was delineated. Numerous features were visible in the foreshore area due to the considerable tide range. Delineation was limited to foul areas and the location of isolated awash and bare rocks. No MLLW line was compiled as there was no MLLW photography available. The area between Sasby I and Lindenberg Peninsula was delineated as mud, but not shown with the usual "dot" symbol to avoid assuming it to be MLLW.

COMPILATION REPORT (contd.)
TP-00421

36. Offshore Details

Some kelp was delineated on the eastern limits of the manuscript.

37. Landmarks and Aids

Preliminary forms 76-40 for Landmarks and/or Aids were prepared by the Compilation Office and forwarded to the Field Editor and/or Hydrographer for verification, location, or deletion in August 1977.

38. Control for Future Surveys

None

39. Junctions

See the attached form 76-36B, item 5 of the Descriptive Report concerning junctions.

40. Horizontal and Vertical Accuracy

Refer to the Photogrammetric Report, dated: April, 1977.

46. Comparison with Existing Maps

A comparison was made with the following U.S. Geological Survey Quadrangle: Petersburg (D-3), Alaska, scale 1:63,360, dated 1953 with minor revisions 1963, and Petersburg, Alaska - Canada, scale 1:250,000, dated 1960.

47. Comparison with Nautical Charts

A comparison was made with the following National Ocean Survey chart: No. 17375 (C&GS), 1:20,000 scaled, 17th Ed., dated April 1977.

Items to be Applied to Nautical Charts Immediately

None

Items to be Carried Forward

None

Approved:

Jeter P. Battley, Jr.
Chief, Coastal Mapping Section

Submitted by:

J. Schad and J. Taylor
Cartographers

ADDENDUM TO THE COMPILATION REPORT - FIELD EDIT

TP-ØØ421

The field edit data was applied in the Photogrammetric Branch of the Pacific Marine Center rather than the original compilation activity. The edit data was complete even though a problem did exist with the original horizontal control data supplied by the field unit. The positions of several aids reported on the field geographic positions list failed to agree with the position list supplied by Marine Charts Division. Consequently, the local Coast Guard District was questioned about the dates of relocation. The Coast Guard responded that the aids in question had not been moved. As a result of this correspondence, the field geographic positions were recomputed by P.M.C. Verification Branch personnel on the N.G.S. terminal using the original raw field data. Some of the original field geographic positions were determined to be valid while others were determined to be incorrect. Some of the older third order positions were determined to still be valid. All positions reported on the final forms and plotted on the manuscript are from the recomputed data and consequently may not agree with the field edit data. A copy of the recomputed geographic position abstract and explanation is included with the field edit data.

There are no remaining unanswered questions and this manuscript is advanced to Class I status.

Submitted by;

James R. Minton

James R. Minton
Cartographic Technician

Rock heights were calculated from "approved"tides infered from the reference gage at Ketchikan (approx. 90 miles away) because temporary gageswere not in operation during this segment of the field edit. According to the Tides and Water Levels Division this does not meet the requirements for approved tides. Consequently, thesrock heights are based on predicted tide data.

Jerry L. Hancock

Jerry L. Hancock
Final Review, AMC

3/25/81

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7309 (Wrangell Narrows, Alaska)

TP-00421

Bayou Point
Kupreanof
Kupreanof Island
Lindenberg Peninsula
Mitkof Island
Petersburg
Petersburg Creek
Prolewy Rocks
Sasby Island
Turn Point
Wrangell Narrows

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer, C3x5
Marine Surveys and Maps

NOAA FORM 75-74 (2-74)

TP-00421

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

1. PROJECTION AND GRIDS	2. TITLE	3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
P.D.	P.D.	P.D.	P.D.

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)*	7. PHOTO HYDRO STATIONS
P.D.	P.D.	N/A

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
N/A	N/A	P.D.	P.D.

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE	13. LOW-WATER LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
P.D.	P.D.	P.D.	P.D.

16. AIDS TO NAVIGATION	17. LANDMARKS	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
P.D.	P.D.	P.D.	P.D.

PHYSICAL FEATURES

20. WATER FEATURES	21. NATURAL GROUND COVER	22. PLANETABLE CONTOURS
P.D.	N/A	N/A

23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
N/A	N/A	N/A	P.D.

CULTURAL FEATURES

27. ROADS	28. BUILDINGS	29. RAILROADS	30. OTHER CULTURAL FEATURES
P.D.	P.D.	P.D.	P.D.

BOUNDARIES

31. BOUNDARY LINES	32. PUBLIC LAND LINES
N/A	N/A

MISCELLANEOUS

33. GEOGRAPHIC NAMES	34. JUNCTIONS	35. LEGIBILITY OF THE MANUSCRIPT
P.D.	P.D.	P.D.

36. DISCREPANCY OVERLAY	37. DESCRIPTIVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
P.D.	P.D.	N/A	P.D.

40. REVIEWER		SUPERVISOR, REVIEW SECTION OR UNIT
P. Dempsey	July 1977	J. Battley, Jr.

41. REMARKS *(See attached sheet)*

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

COMPILER		SUPERVISOR
J.R. Monton	6/7/79	
Reviewer: C.W. Goff	7/18/79	J. Massey

43. REMARKS

Field edit was applied from data sources itemized under Section II, items 3, 7 and 8, of form 76-36C, Field Edit.

FIELD EDIT REPORT
TP-00421

WRANGELL NARROWS, ALASKA
OPR-0325-DA-78
NOAA Ship DAVIDSON
September-October 1978

51. METHODS

Field Edit on Manuscript TP-00421 was accomplished by PMC personnel working with the DAVIDSON, in accordance with Project Instructions OPR-0325-DA-78, Wrangell Narrows, Alaska, dated 27 June 1978 and Chapter 11, Manual of Coastal Mapping Field Procedures. Features were located by photo identification or by three-point sextant fix with check angle.

The Field Print was taken into the field along with two matte ratio photos, numbers 74C 540 and 74C 541, which cover this T-sheet.

Field edit was conducted by skiff and on foot between 1530Z and 1900Z on 16 September (JD 259); and between 1745Z and 2020Z on 18 September (JD 261)(See appended Abstract of Times data). The data was compiled and inked on the MYLAR Field Edit Sheet. Data collected by field edit methods has not been duplicated on the hydrographic Final Field Sheet. All times are referenced to Greenwich Mean Time. Standard Ink Colors as per PMC OPORDER, Change No. 2-77, dated 23 March 1977, were used to process field edit data:

Photographs and Field Edit Sheet:

Violet - verification
Red - additions
Green - deletions

Final Field Sheet:

Black - manuscript, no change
Red - additions (hydro D P's)

Original data was recorded on the Field Print, in a fix volume and/or in a notebook. Sketches of Petersburg Boat Harbors Nos. 1 and 2 are included with the fix volume for TP-00421. Cronapaque photos #74C 539 and #74C 541 were used for clarification of detail.

Weather observations for the days of field edit were generally as follows: winds 0-20 knots; sky cloudy, with frequent rain and temperatures 40-47°F.
* Controlling tide gauges were installed at the Petersburg Fisheries Pier (56°08.9'N-132°57.4'W) and just south of Turn Point (56°48.1'N-132°58.8'W). Both gauges were operating normally during the times of field edit.

*See the addendum to the compilation report concerning tide gages.

52. ADEQUACY OF COMPILATION

The map compilation of obstructions is adequate, but compilation of shallow zones is poor. Compilation of the shallow zone of Petersburg Creek mud flats and bar was incomplete and much smaller than the photo indicated. This area was in the southwest corner of the manuscript between latitudes 56°48'15"N and 46"48'45"N. The map compilation is adequate and complete for charting with this field edit applied.

53. MAP ACCURACY

The high waterline as depicted on the map is accurate. All shallow zones compare well with the hydrographic data (MLLW line).

54. RECOMMENDATIONS

The Manuscript should be considered complete with corrections compiled from this field edit.

56. MISCELLANEOUS

NOAA Form 76-40, "Nonfloating Aids or Landmarks," for Charts has been completed for this manuscript and is appended. Two different shades of red ink were used on the manuscript; however, both shades should be considered "red" for the verification process. In some areas on the manuscript, rockswere too numerous to field identify. The unverified rocks should be carried forward just as compiled on the manuscript.

Submitted by:

Timothy Peasley

Timothy Peasley
ENS, NOAA

Approved and forwarded by:

C. William Hayes

C.W. Hayes
CDR, NOAA
Commanding Officer

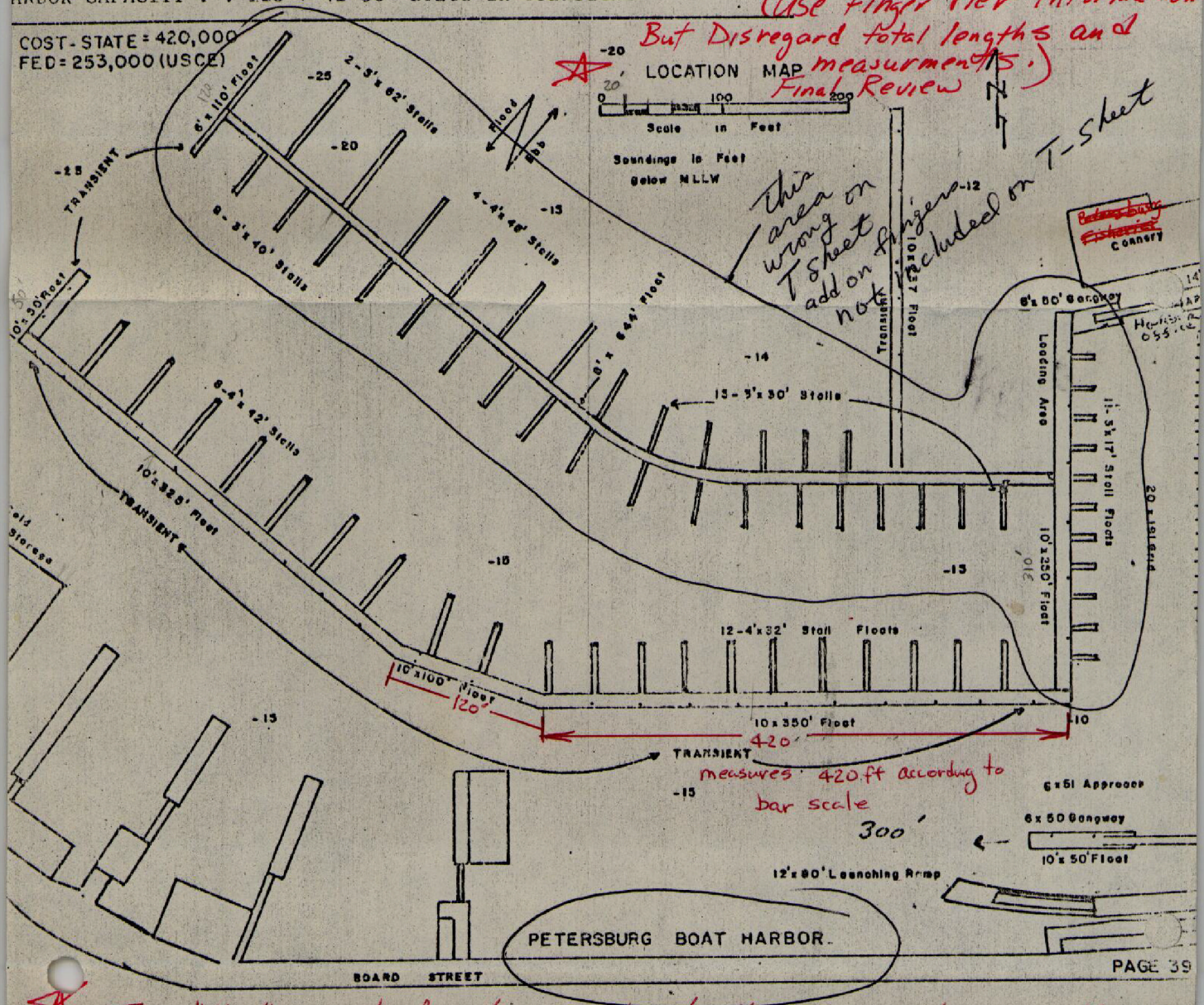
ISTANCE FROM CITY CENTER . . . At City center.
ERTHING ACCOMODATIONS & FEES . . . $5/yr per ft. up to 25 ft.
$9/yr 50 ft. and over.
RANSIENT MOORAGE . . . As shown, + See attached sheet
IGHTING ON FLOAT . . . Yes
OWER ON FLOAT . . . Yes
ATER ON FLAOT . . . Yes, head of each float.
ESTROOM FACILITIES . . At Harbormaster's office.
RID FACILITIES . . . Yes, grid in hbr. also grid for larger vessels, see vicinity map + attached sheet.
ARINE WAYS AVAILABLE . . Yes, vessels to 85' - see vicinity map
EPAIR FACILITIES-Machine shops, garages, outboard repair, etc.
ODGING AVAILABLE . . Yes, motel & Hotel in business district
ROCERY &/OR RESTAURANT FAC. . Yes both in business district
UEL AVAILABLE . . Union & Stnd. - see vicintiy map
OMMUNICATIONS FACILITIES - Phone at Harbormaster's office
EMARKS . .Laundromat 1 block, U.S. Post Office 1 block
ARBOR CAPACITY . . 128 + 41-30' Boats in transient

TP-00421

Per Dep.
2 No parking in private stalls unless Harbormaster tells you
3 Sign up at Harbor office as soon as you tie up.

20

Field Edit
1978
Plan "A"
(Use Finger Pier information But Disregard total lengths and measurments.)
Final Review



PAGE 39

This "Map" is out of scale according to the measured lines and the bar scale. The draftsman used 1" = 100ft, where the bar scale is 1" = 120ft. This threw the reconstruction of the entire pier out of position when field edit was applied.

DISTANCE FROM CITY CENTER..At City Center
BERTHING ACCOM. FEES ..$5 per foot per year 25' & under
$9 per foot per year 50' & over

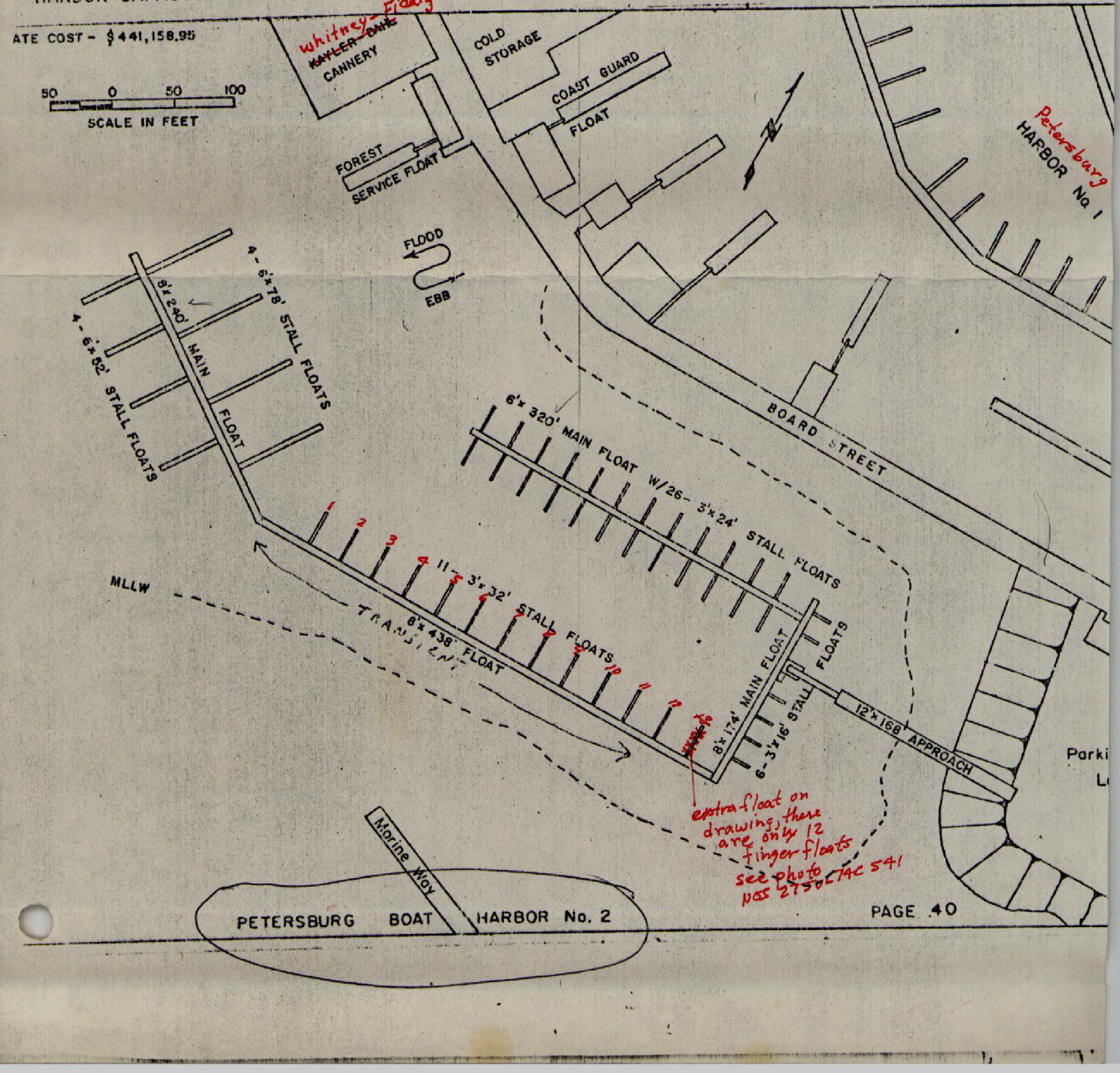
TRANSIENT MOORAGE....None
LIGHTING ON FLOAT....Yes
POWER ON FLOAT.....Yes
WATER ON FLOAT.....Yes
RESTROOM FACILITIES..Yes, at Harbormaster's Office
MARINE WAYS AVAILABLE....Yes, vessels to 85'see vicinity map
REPAIR FACILITIES...Machine shops, garages, outboard repair
LODGING AVAILABLE...Yes, motel & hotel in business district
FUEL AVAILABLE...Union & Standard - see vicinity map
COMMUNICATION FACILITIES..Telephone at Harbormstr's Office
REMARKS..Laundromat 1 block, U.S. Post Office 1 block
GRID..in Harbor, also grid for larger vessels, see vic. map. Charges - $5.00 per day for 20' and under. $10.00 per day 21' - 40'. $15.00 per day over 40'.
HARBOR CAPACITY.....136

TP-00421

SEE PAGE 34 FOR VICINITY MAP

Field Edit 1978 Plan "B"

ATE COST - $441,158.95



NOAA FORM 76-40 (8-74)

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

Replaces C&GS Form 567.

NONFLOATING AIDS [redacted] FOR CHARTS

ORIGINATING ACTIVITY
- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

☒ TO BE CHARTED ☐ TO BE REVISED ☐ TO BE DELETED	REPORTING UNIT (If field Party, Ship or Office)	STATE	LOCALITY	DATE
	Photogrammetric Branch	Alaska	Wrangell Narrows	11/15/79

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

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
Ø325-DA-78	CM-73Ø9	TP-ØØ421	N. A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE // D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
LIGHT	(PETERSBURG BAR RANGE REAR LIGHT, 1958)	56 48	15.122 467.8	132 59	39.Ø1Ø 662.Ø		Triang. Rec. 1Ø/78	17375
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 58, 1978 (Field Position))	56 48	3Ø.Ø57 929.8	132 58	5Ø.721 86Ø.6		F-1-6-L 1Ø/78	17375
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 56, 1978 (Field Position))	56 48	22.767 7Ø4.3	132 58	59.6Ø2 1Ø11.4		F-1-6-L 1Ø/78	17375
LIGHT	(WRANGELL NARROWS CHANNEL LIGHT 54, 1978 (Field Position))	56 48	13.826 427.7	132 59	Ø2.382 4Ø.4		F-1-6-L 1Ø/78	17375

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	T. Peasley, ENS, NOAA	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	L. Haas, LTjg, NOAA	FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ 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	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

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

FIELD (Cont'd)

B. 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

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

NOAA FORM 76-40 (8-74)
Replaces C&GS Form 567.

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [X] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [XX] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Photogrammetric Branch	Alaska	Wrangell Narrows	11/15/79

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

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
Ø325-DA-78	CM-73Ø9	TP-ØØ421	N. A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° /	LATITUDE // D.M. Meters	POSITION LONGITUDE ° /	LONGITUDE // D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
DAYBEACON	Wrangell Narrows Channel Daybeacon 61 (PROLEWY ROCKS BEACON, 1929)	56 49	32.4Ø3 1ØØ2.3	132 56	38.ØØ8 646.Ø		Triang Rec. 1Ø/78	17375
LIGHT	Petersburg Public Dock North Light (PETERSBURG FISHERIES PIER NORTH LIGHT, 1978 (Field Position))	56 48	53.471 1654.Ø	132 57	29.18Ø 495.1		F-1-6-L 1Ø/78	17375
LIGHT	Petersburg Public Dock South Light (PETERSBURG FISHERIES PIER SOUTH LIGHT, 1978 (Field Position))	56 48	52.Ø74 161Ø.8	132 57	3Ø.696 52Ø.8		F-1-6-L 1Ø/78	17375
LIGHT	Kayler-Dahl Pier North Light (WHITNEY FIDALGO SEAFOODS PIER NORTH LIGHT, 1978 (Field Position))	56 48	48.414 1497.6	132 57	42.Ø27 713.Ø		F-1-6-L 1Ø/78	17375
LIGHT	Kayler - Dahl Pier South Light (WHITNEY FIDALGO SEAFOODS PIER SOUTH LIGHT, 1978 (Field Position))	56 48	47.Ø4Ø 1455.1	132 57	44.853 761.Ø		F-1-6-L 1Ø/78	17375
LIGHT	Standard Oil Company Pier North Light (STANDARD FUEL PIER NORTH LIGHT, 1978 (Field Position))	56 48	37.371 1156.Ø	132 58	11.1Ø4 188.4		F-1-6-L 1Ø/78	17375
LIGHT	Standard Oil Company Pier South Light (STANDARD FUEL PIER SOUTH LIGHT, 1978 (Field Position))	56 48	36.662 1134.1	132 58	13.146 223.1		F-1-6-L 1Ø/78	17375
LIGHT	(PETERSBURG CREEK RANGE FRONT LIGHT, 1958)	56 48	29.543 913.9	132 59	Ø9.633 163.5		Triang. Rec. 1Ø/78	17375
LIGHT	(PETERSBURG CREEK RANGE REAR LIGHT, 1958)	56 48	39.546 1222.3	132 59	11.821 2ØØ.6		Triang. Rec. 1Ø/78	17375
LIGHT	(PETERSBURG BAR RANGE FRONT LIGHT, 1958)	56 48	23.826 737.Ø	132 59	15.991 271.4		Triang. Rec. 1Ø/78	17375

RESPONSIBLE PERSONNEL

TYPE OF ACTION	NAME	ORIGINATOR
OBJECTS INSPECTED FROM SEAWARD	T. Peasley, ENS, NOAA	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED	L. Haas, LTjg, NOAA	FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ 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	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

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

FIELD (Cont'd)

B. 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

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

REVIEW REPORT TP-00421

SHORELINE

61. GENERAL STATEMENT:

See the Summary included in this Descriptive Report.

Field edit was assigned to the NOAA Ship DAVIDSON in conjunction with the contemporary hydrographic survey.

At the time of field edit application, two prominent piers in the Petersburg Harbor area were revised to agree with the engineering plans submitted with the field edit data. Plan "A" was rejected during final review due to questionable measurements and scale contradictions displayed on the plan. Without reservation, these piers were redelineated to conform with the photography.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangle Petersburg (D-3), Alaska, 1:63,360 scale, 1953. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Contemporary hydrographic survey, assigned as a Navigable Area Survey, OPR-325-DA-78 was compared with this final shoreline map. The field editor for this map assumed responsibility for the foreshore and offshore features. This data was later transferred from the Class I Map to the hydrographic smoothsheet.

Verified smoothsheet H-9791 at 1:5,000 scale, dated June 1980 was compared with this final map. The revised pier delineation mentioned in Item #61 requires that corrections be made to the smoothsheet. Also a rock was discovered with conflicting heights awash. These items are addressed in the correspondance letter dated April 29, 1981 to the Chief of Hydrographic Surveys. A copy of this letter will be forwarded to Nautical Charts.

In various areas where the photogrammetric shallow limits differed with the hydrography, the limits were revised to correspond with the surveyed shallow soundings. The photogrammetric shallow limits are discussed in the Summary for this Descriptive Report.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with NOS Chart 17375, 17th ED, 1:20,000 scale, April 30/77.

Forms 76-40 were not submitted during field edit for the charted landmark SPIRE (PETERSBURG LUTHERAN CHURCH SPIRE, 1958) nor the charted Aero Light. The SPIRE was not field investigated but was photo verified during compilation. The Aero Light, located at Petersburg Airport, was positioned during final review from the attached 1975 Airport Survey Control Data From 76-69. This position was photo verified and its existence was confirmed during the field edit.

The "submerged grids", as delineated on this map, are a framework of support structures in the foreshore area. They are used as docking berths for boat repairs during the ebb tide.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Jerry L. Hancock
Final Reviewer

Approved for forwarding:

Billy H. Barnes
Chief, Photogrammetric Branch, AMC

Approved:
for John D Pereau Jr
Chief, Photogrammetric Branch, Rockville

Approved:
Walter S. Simmons
Chief, Photogrammetry Division

NOAA FORM 76-69 (8-71)

TP-00421

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

YEAR 19 75

AIRPORT SURVEY CONTROL DATA

Section I - GENERAL INFORMATION (Complete in Field)

NAME OF STATION	AIRPORT	LOCATION METHOD:
Airport Beacon	Petersburg Airport	[X] THEODOLITE
CITY: Petersburg — STATE: Alaska	CHIEF OF PARTY: Elmer Pursel, Jr.	[ ] PLANETABLE
		[ ] PHOTOGRAMMETRIC

DESCRIPTION

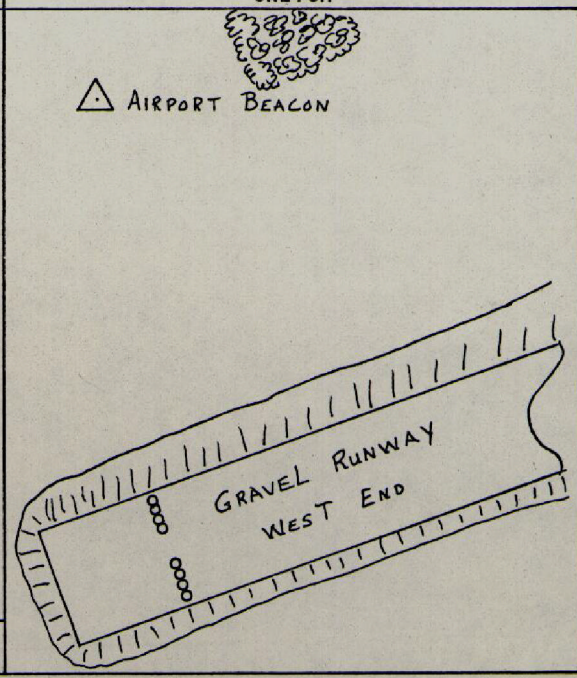
This intersection station is located in the western section of the Petersburg Airport, about 650 feet north of the north edge of the of the runway and about 330 feet east of the west end.

A standard 36-inch rotating beacon flashing green and clear and mounted on a 60-foot steel pole, painted in alternate sections of red and white. The point intersected was the spindle at the base of the light.

Charted: AERO ROT W & G

RECOVERED AS DESCRIBED 19 ____, 19 ____, 19 ____, 19 ____, 19 ____.

SKETCH



Section II - CONTROL DATA (Complete in Office)

GEODETIC POSITION	STATE COORDINATES	GRID DATA	MSL ELEVATION
LATITUDE 56° 48′ 05.1699″	X 2,827,601.99 FEET	STATE Alaska	FEET
LONGITUDE 132° 57′ 30.1949″	Y 1,815,394.52	GRID ZONE 1	
		θ (OR Δδ)	

Probable Accuracy: Position - Less than 3rd Order. 3rd Order or better.
Elevation - Less than 3rd Order. 3rd Order or better.

Section III - SURVEY DATA (Complete in Office. Not for public distribution)

OBSERVED STATION	DIRECTION	DISTANCE Ft. (Grid)	AZIMUTH (Grid)

UNADJUSTED FIELD POSITIONS

NOAA FORM 76-69 SUPERSEDES FORM C&GS 6380

DATE: April 29, 1980

TO: Ken Wellman
Hydrographic Surveys Division
OA/C35x2

FROM: Jerry L. Hancock Jerry L. Hancock
Coastal Mapping Division, Final Review AMC
CAM 52x1

SUBJECT: Amended data concerning CM-7309 Wrangell Narrows, Alaska for Contemporary Hydrographic Survey, OPR-325-DA-78.

During the final review for project CM-7309, several corrections were made to the Class I shoreline maps. These revisions affect the contemporary smoothsheets for OPR-325-DA-78.

Copies of annotated Final Maps and the following list of amended data concerning individual smoothsheets are submitted for your records. This information will also be forwarded to Nautical Charts.

TP-00637 duplicated on H-9795 (1978):
Three rock heights were amended.

ITEM NO.	LAT.	LONG.	HEIGHT
#1	56° 37.2'	132° 58.0'	*(12) revised to *(3)
#2	56° 37.4'	132° 57.9'	*(11) " *(4)
#3	56° 37.9'	132° 57.3'	*(17) " *(13)

TP-00438 duplicated on H-9795 (1978):
Two rock heights were amended.

ITEM NO.	LAT.	LONG.	HEIGHT
#4	56° 40.3'	132° 55.7'	*(17) revised to *(13)
#5	56° 41.9'	132° 56.1'	*(11) no elevation determined, *

TP-00438 duplicated on H-9795 and H-9792:
PA rock *(12) position was moved approx. 150 ft. southwest to previously mapped rock *(4).

ITEM NO.	LAT.	LONG.	HEIGHT
#6	56° 43.8'	132° 57.2'	*(4) revised to *(12)

cont.

OA/C35x2

TP-00437 duplicated on H-9792:
Rock *(11) position was moved approx. 165 Ft. east , height remains the same.

ITEM NO.	LAT.	LONG.
#7	56° 47.7'	132° 58.9'

★ TP-00421 duplicated on H-9791:
Two prominent piers in the Petersburg Harbor area were redelineated.

ITEM NO.	LAT.	LONG.	
#8 (Piers)	56° 48' 48"	132° 57' 30"	(Both piers are in this area)
#9 (Rock)	56° 49' 36"	132° 56' 34"	(Conflicting rock heights TP *(4) and H *(7)

CC:
OA/C3222
OA/C35