

TP-00617

TP-00617

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. TP-00617	Edition No. 1
Job No. CM-7414	
Map Classification FINAL	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality YAKUTAT BAY	
Locality SCHOONER BEACH TO GRAND WASH RIVER	
19 75 TO 19 78	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72) <div style="text-align: center; margin-top: 5px;"> U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. </div> <div style="text-align: center; margin-top: 20px; font-weight: bold;"> DESCRIPTIVE REPORT - DATA RECORD </div>		<div style="border-bottom: 1px solid black; padding-bottom: 5px;"> TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> SURVEY TP. <u>00617</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH. CM-7414</u> </div>	
PHOTOGRAMMETRIC OFFICE Rockville, Maryland		LAST PRECEDING MAP EDITION <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </div> <div style="border-bottom: 1px solid black; padding-bottom: 5px;"> JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19__ TO 19__ </div>	
OFFICER-IN-CHARGE J. Collins, CDR, NOAA			
I. INSTRUCTIONS DATED			
1. OFFICE		2. FIELD	
Aerotriangulation Nov. 19, 1975 Office Nov. 3, 1976		Horizontal Control May 23, 1974 Premarking Supplement I Apr. 29, 1975 Premarking Supplement II May 10, 1976	
II. DATUMS			
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN		OTHER (Specify)	
2. VERTICAL: <input checked="" 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)	
3. MAP PROJECTION Oblique Mercator		4. GRID(S) <div style="display: flex; justify-content: space-between;"> <div>STATE <u>Alaska</u></div> <div>ZONE <u>1</u></div> </div>	
5. SCALE 1:20,000		STATE ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		D. Norman	Oct 1976
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		S. Solbeck	Oct 1976
		J. Perrow	Oct 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		J. Taylor	Feb 1977
INSTRUMENT: Wild B-8 Stereoplotter SCALE: 1:20,000		P. Dempsey	Feb 1977
		N.A.	
		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		J. Schad	Feb 1977
		J. Battley, Jr.	Feb 1977
METHOD: B-8 Worksheet-Graphic SCALE: 1:20,000		N.A.	
		N.A.	
		J. Schad	Feb 1977
		J. Battley, Jr.	Feb 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		P. Dempsey	Feb 1977
6. APPLICATION OF FIELD EDIT DATA BY		J. Minton, G. Morris	Mar 1979
		J. Massey	Mar 1979
7. COMPILATION SECTION REVIEW BY		J. Massey	Apr 1979
8. FINAL REVIEW BY		L. O. Neterer, Jr.	Aug 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr.	Sept. 1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	Nov. 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. DAUGHERTY	Dec '86

TP-00617
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) RC-10C (focal length ==88.47 mm)		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Yukon	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 135°W	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
*75 C(C) 7314 thru 7317	Aug.4,1975	12:56	1:60,000	6.2 ft. above MLLW	
75 C(C) 7350 thru 7352	Aug.4,1975	13:46	1:60,000	5.05 ft. above MLLW	

REMARKS

*Photographs prepared for hydro support.

2. SOURCE OF MEAN HIGH-WATER LINE:

Wild B-8 stereoplotter compilation, MHWL contoured 4 feet above water level (7.8 foot range of tide).

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

No MLLW line 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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00614	TP-00618	TP-00619	TP-00616

REMARKS

TP-00617

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION

☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby	June 1975
	ESTABLISHED BY R. Melby	June 1975
	PRE-MARKED OR IDENTIFIED BY R. Melby	June 1975
3. VERTICAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

TP-00617

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	CDR C. Andreassen	June 1977
2. HORIZONTAL CONTROL	RECOVERED BY " " "	" "
	ESTABLISHED BY " " "	" "
	PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (<i>Triangulation Stations</i>) BY " " "	" "
	LOCATED (<i>Field Methods</i>) BY	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION	
	<input type="checkbox"/> COMPLETE	
	<input type="checkbox"/> SPECIFIC NAMES ONLY BY	
	<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY " " "	" "
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (*Clarification of details*)

75C7314, 75C7315, 75C7316

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

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

1 film ozalid, Field Edit Report

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	C. Hayes, CDR, NOAA	Aug 1978
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None 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	E. McDougal, ENS, NOAA
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER

STATION NAME

PHOTO NUMBER

STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER

OBJECT NAME

PHOTO NUMBER

OBJECT NAME

5. GEOGRAPHIC NAMES:

☐ REPORT☒ NONE

6. BOUNDARY AND LIMITS:

☐ REPORT☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

one Field Edit ozalid and one Field Edit Report.

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline & Alongshore area for hydro support	Feb 1977	Map Class III horizontal control adequate	Mar 1977	Mar 1977
Partial field edit applied	Mar 1978	Class III Manuscript		
Field edit applied; compilation complete	Mar 1979	Class I Manuscript	Jun 27, 1979	
Final Review	Aug 1986	Final Map	NOV. 1986	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

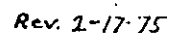
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 76-40 ~~867~~ 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 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	



6

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00617

This 1:20,000 scale shoreline maps is one of nine maps that comprise project CM-7414, Yakutat Bay, Alaska.

This project encompasses Yakutat Bay to Disenchantment Bay, latitude 59° 30' 00" north to latitude 60° 10' 00".

Field work prior to compilation, consisting of the identification of horizontal control by premarking methods to meet aerotriangulation requirements, was accomplished in June 1975.

Photographic coverage was provided in August 1975 using color film with the "C" camera (focal length = 88.47 millimeters) at 1:60,000 scale.

Analytic aerotriangulation was performed at the Washington Science Center in October 1976.

Compilation was performed at the Rockville, Maryland office in February 1977.

Field edit was accomplished during August 1978.

Application of Field Edit was completed in April 1979 at the Pacific Marine Center.

Final Review was performed at the Atlantic Marine Center in August 1986.

This Descriptive Report contains all pertinent information used to compile this final map.

The original base map and all pertinent data were forwarded to the Washington Science Center.

FIELD INSPECTION

CM-7414

TP-00617

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

Photogrammetric Plot Report
Yakutat Bay, Alaska
CM-7414

October 21, 1976

21. Area Covered

This report pertains to nine sheets in Yakutat Bay, Alaska. The sheets are TP-00613 thru TP-00620 of 1:20,000 scale and TP-00523 of 1:10,000 scale.

22. Method

Three strips were bridged by analytic aerotriangulation methods. The strips were adjusted to ground in the Alaska Zone, State Plane Coordinate System. Points were established for determining ratios of 1:60,000 scale offshore photography. Points were also established for setting models of 1:30,000 scale photography on sheet TP-00619. Ratios of 1:30,000 scale infrared, MHW photography were also determined for coverage of sheet TP-00619. Ratios have been ordered. All sheets were plotted on the Coradomat.

23. Adequacy of Control

A discrepancy exists between two horizontal control stations: CENTER RADIO TOWER, 1941 and YAKAIR, 1974. CENTER RADIO TOWER is a terminal station for strip 3 and YAKAIR is a terminal station for strip 2. In the vicinity of these stations the two strips overlap. Tie points indicate a difference of approximately 12 feet in X and 6 feet in Y.

YAKAIR is located at the Yakutat Airport. Three other points at the airport, with known positions were also measured. These points agree with CENTER RADIO TOWER, but not with Yakair. Stations at the airport were tied to datum in 1967 by triangulation and traverse from station CAVE, 1941. The azimuth station was BOLD, 1941 with CENTER RADIO TOWER used as a check. The check was 0.9 seconds.

The Geodesy Division checked the 1974 field data but could find nothing wrong. It was suggested that earthquake movement could be responsible for the discrepancy.

It was decided to complete the project even though the discrepancy has not been resolved. Strip 2 was adjusted on tie points from strip 3. YAKAIR was not used.

24. Supplemental Data

No supplemental data was used.

25. Photography

The photography was adequate.

Submitted by:

Don O. Norman

Don O. Norman

Approved by:

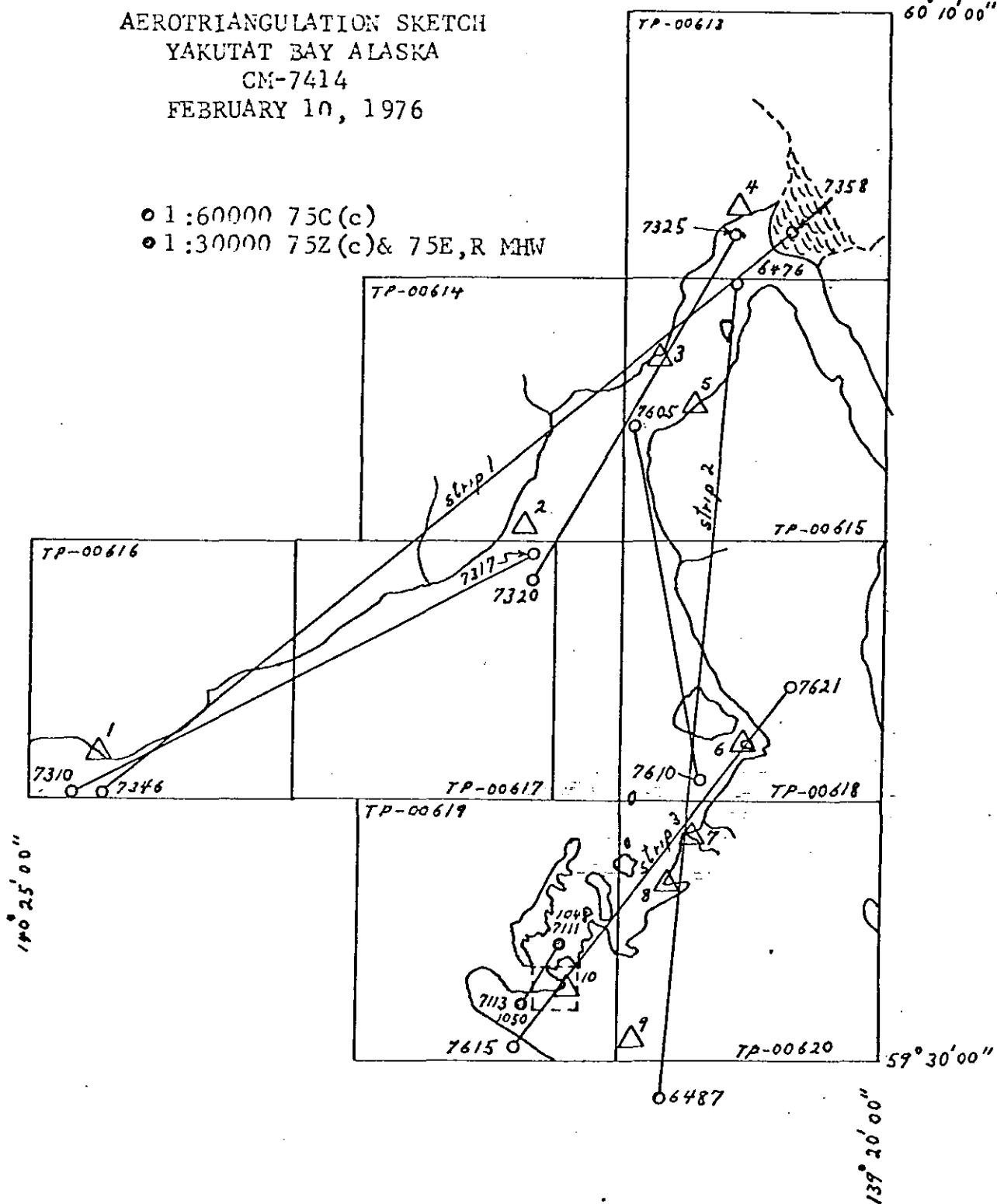
John D. Perrow Jr.

John D. Perrow, Jr.

Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH
YAKUTAT BAY ALASKA
CM-7414
FEBRUARY 10, 1976

- 1:60000 75C(c)
- 1:30000 75Z(c) & 75E,R MHW



fit to control
(feet)

strip 1

1 BEACH 7ET (USGS), 1959	(0.3, 0.1)
2 BLIZ, 1974	(1.5, 1.3)
3 BANCAS, 1974	(5.3, 3.8)
5 DOLCE, 1974	(1.1, 2.3)
4 HUB, 1974	(0.2, 1.1)

strip 2

357801	(0.7, 5.6)
357802	(2.8, 7.6)
5 DOLCE, 1974	(2.1, 4.6)
6 LEAN, 1974	(4.5, 2.1)
7 KRUTOI, 1941	(2.5, 2.9)
8 GRASS, 1941	(2.1, 0.6)
486801	(1.5, 1.8)

strip 3

10 CENTER RADIO TOWER, 1941	(0.0, 0.0)
8 GRASS, 1941	(0.0, 0.0)
7 KRUTOI, 1941	(1.5, 1.0)
6 LEAN, 1974	(0.0, 0.0)

COMPILATION REPORT
TP-00617
February 1977

31. Delineation

The MHW line, foreshore features and planimetry were compiled from 1:60,000 scale color photography. This compilation was done on the B-8 stereoplotter.

Photo-hydro support photographs, (1:60,000 scale color, ratioed to 1:20,000 scale) were prepared in the usual manner. A two-fixed resection of photograph centers, shoreline points and control points of ratio photos was obtained (75-C(C) 7313 thru 7317 and 75-C(C) 7320).

32. Horizontal Control

(See Photogrammetric Plot Report.)

33. Supplemental Data - None

34. Contours and Drainage

Contours are not applicable. Drainage was compiled from 1:60,000 scale photos on the B-8 stereoplotter.

35. Shoreline and Alongshore Detail

The 1:60,000 scale color bridging photography, taken at approximately half tide, was used to compile shallow and wash area bordering the MHWL. The shoreline bordering the Grand Wash River, (59°48'00" - 59°49'10" - 139°50'00" - 139°54'00"), was compiled as an approximate shoreline due to the gradual slope of the wash area.

36. Offshore Details

A small island was compiled, lat. 59°48'15", long. 139°52'45", which does not appear on chart No. 16761. No other problems were encountered during compilation of this manuscript.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions with TP-00619, TP-00614, and TP-00616.

40. Horizontal and Vertical Accuracy

This map complies with the National Map Accuracy Standards.

41 thru 45. Inapplicable.

46. Comparison with Existing Maps

Comparison was made with the following USGS quads:

Yakutat (D-5), Alaska, 1959; 1:63,360 scale
Yakutat, Alaska - Canada, 1959; 1:250,000 scale

47. Comparison with Existing Charts

Comparison was made with the following nautical charts:

16761 (8455) 11th Edition, August 28, 1976 - 1:80,000

Items to be applied to nautical charts immediately -

Entire shoreline compilation.

Submitted by:

James Schad

James Schad
Cartographer

Approved and Forwarded:

Jeter P. Battley Jr

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7414 (Yakutat Bay, Alaska)

TP-00617

Grand Wash River

Kame Stream

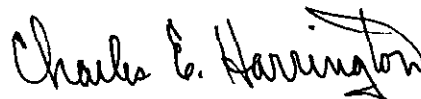
Schooner Beach

Strawberry Island

Sudden Stream

Yakutat Bay

Approved:



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

FIELD EDIT REPORT

TP-00617

OPR-525-DA-77

YAKUTAT BAY, ALASKA

NOAA SHIP DAVIDSON

1977

51 METHODS

Field edit on shoreline manuscript TP-00617 was accomplished in accordance with Project Instructions OPR-525-DA-77, Yakutat Bay, Alaska, dated 23 February 1977; Change No. 1, dated 25 March 1977; Change No. 2, dated 4 May 1977; Change No. 3, dated 13 June 1977; Change No. 4, dated 20 June 1977 and Change to Section 3.4, dated 15 April 1977.

OPORDER procedures for field edit with HYDROPLOT support in conjunction with hydrography were used.

The two notes, on the Discrepancy Print applicable to the area investigated, verify the high water line and the shallow area along the shoreline, were transferred to the Field Print. The Field Print and field photographs (B/W matte ratio photographs 75C7314, 75C7315 and 75C7316) were taken into the field to investigate and identify features. No notes were made on the field photographs.

The field edit investigation was made on 20 July 1977 from a skiff run close inshore near the time of low water. This investigation was supplemented by the hydrographic investigation (90 meter line spacing) at the inshore ends of sounding lines. No rocks, foul areas or other offshore dangers were encountered, thus the investigation results solely in the revision of the high water line (HWL) and associated shallow area. The revised HWL was determined based on the hydrography and estimated distances to the HWL resulting from the field investigation. The surf along Schooner Beach generally breaks between the shore and 50 meters offshore.

Weather on the day the skiff was used to field edit the shoreline was:

Wind	6 knots
Sky	Cloudy
Water Visibility	10 feet

It should be noted that the shoreline determined photogrammetrically for this survey differs significantly from the shoreline as presently charted. (See Change No. 1 to the Project Instructions)

The significant feature of this shoreline is its migratory nature. The hydrography run during this season, 1977, crosses the compiled shoreline in some areas and does not approach close enough in others. It is probable that the shoreline, as originally compiled, was correct for the time of photography, 1975. The problem is

considered to be solely attributable to the forces of nature.

A number of streams transport sediment to the western shore of Yakutat Bay from Malispina Glacier, a glacier approximately the size of the state of Rhode Island. Although these streams approach Yakutat Bay perpendicular to the beach, none of them enter directly into the bay. Each of them has developed a longshore bar that causes the stream to flow northeast before entering the bay, which is an indication of the longshore sediment transport.

Conversations with local fishermen, familiar with the western shore of the bay because of gillnetting for salmon inside the streams, indicate that there is considerable change in the shoreline and stream entrances from year to year, particularly after the winter storms. They indicate that changes in elevation of five to ten feet per year are common along the shore.

Thus, it is evident that the shoreline from Pt. Manby to Blizhni Pt. is ambulatory and will change from year to year. (See 54 RECOMMENDATIONS).

Field operations along this shoreline were made very difficult due to the continual heavy surf conditions. The offshore swells from the Gulf of Alaska, whether they are from the southeast or southwest, refract into the wide mouth of Yakutat Bay, and make beach landings from Pt. Manby to Blizhni Pt. very difficult. As noted in the Field Tide Note, OPR-525-DA-77, conditions dictated that the personnel make beach landings wearing survival suits while paddling ashore through the surf in a rubber raft. In general, the beach is quite steep with a strong undertow as the water from each swell recedes. As the boat is swept out from the beach, it encounters strong littoral currents and is swept parallel to the beach away from the landing site. These littoral currents cause large amounts of longshore sediment transport. The transportation of typical surveying instruments under these conditions was impossible.

Tide gages for OPR-525-DA-77 were installed at Pt. Manby, Blizhni Pt., Point Latouche, Redfield Cove and Johnstone Passage. Usable staff comparisons were never obtained at Pt. Manby or Blizhni Pt. because of the surf conditions. The Blizhni Pt. site was abandoned and the Point Latouche site established because of destruction from icebergs at the Blizhni Pt. site.

Horizontal control was also a problem since only three stations (BLIZ 1974, MALISPINA SW BASE 1892, BEACH 7 1959) were recovered along the shoreline from Blizhni Pt. to Pt. Manby. Eventually a traverse was run from BLIZ 1974 south to MALISPINA SW BASE 1892 for the purpose of obtaining a RAYDIST site on the western shore of the bay. Control is insufficient for taking sextant fixes along the beach.

Standard ink colors were used to process the field edit data.

FIELD EDIT SHEET:

Red - Additions
Green - Deletions

FINAL FIELD SHEET:

Red - Revisions of compiled items
Black - Verification of compiled items

52 ADEQUACY OF COMPILATION

TP-00617 is an incomplete Field Edit Sheet. The northern limit of field edit was latitude $59^{\circ}47.3'N$. Field edit of the map compilation south of that latitude is complete and adequate for charting purposes. See 54 RECOMMENDATIONS concerning why this is considered adequate.

54 RECOMMENDATIONS

Because of the ambulatory nature of the shoreline between Pt. Manby and Blizhni Pt., the shoreline should be considered "approximate". For this reason, the HWL as verified during this field edit is considered adequate. A cautionary note should be added to the chart to warn mariners of the potential hazards along the beach. The note should state that the western shore of Yakutat Bay from Pt. Manby to Blizhni Pt. is subjected to heavy surf conditions and longshore currents which make beach landings hazardous, and cause migration of the shoreline and nearshore sand bars. Boat landings at stream entrances should only be made with local knowledge and near times of high tide.

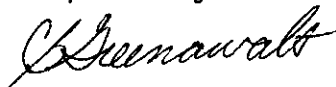
In the event that the above recommendation is unacceptable and a more exact HWL is required, a shore party should be sent instead of a hydrographic vessel. The surf conditions prevent a hydrographic vessel from being effective. A shore based party with horizontal control capabilities, helicopter support and a rubber boat and motor (for use in the rivers) would be much more effective.

Since this field edit investigation did not result in any items requiring additional compilation on this manuscript, all data relating to TP-00617 should be returned to DAVIDSON for completion of field edit north of latitude 59°47.3'N during the summer of 1978. Verification of the HWL in the Grand Wash River will be very difficult, requiring additional control and possibly helicopter support. Although the DAVIDSON was able to get a Monark skiff through the surf and into this river at high tide, it was unable to navigate further north than latitude 59°48.35'N because of shoal water. Perhaps some guidance could be given to the command as to how extensive an investigation is desired along the braided streams and into the backwater areas.


56 MISCELLANEOUS

No "Non-Floating Aids or Landmarks for Charts" forms (Form 76-40) are being submitted as there are no fixed aids to navigation within the mapped area.

Respectfully submitted,

for 
Steven S. Snyder
LTJG, NOAA

Approved and forwarded by,

for 
Christian Andreasen, CDR, NOAA
Commanding Officer

FIELD EDIT REPORT
TP-00617
Blizhni Point
Yakutat Bay, Alaska
OPR-0121-DA-78
NOAA Ship DAVIDSON, S-331
1978

51 METHODS

Field edit on manuscript TP-00617 was accomplished in accordance with project instructions OPR-0121-DA-78, Yakutat Bay, Alaska dated 13 March, 1978, and Chapter 11, Manual of Coastal Mapping Field Procedures. Foreshore features were scanned by a launch working close inshore during the hydrographic survey of H-9778 and H-9779.

Original data was recorded on the hydrographic boatsheets and later transferred to the MYLAR Field Edit Sheet. Standard ink colors as per PMC OPORDER Change No. 2-77, dated 23 March, 1977, were used to process the field edit data.

Photographs and Field edit Sheet:

Violet - verifications
Red - additions
Green - deletions

Final Field Sheet:

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

52 ADEQUACY OF COMPILATION

The map compilation is adequate and complete for charting with this field edit applied.

53 MAP ACCURACY

The high water line is accurate as depicted on the map. It should be noted however that the entire shoreline is composed of sand beach and is subject to frequent change.

54 RECOMMENDATIONS

The manuscript should be considered complete with corrections from this field edit and the hydrography on H-9778 and H-9779

Submitted by:

Ellen McDougal
Ellen McDougal
ENS, NOAA

Approved and Forwarded by:

C. William Hayes
C. William Hayes
CDR, NOAA
Commanding Officer

REVIEW REPORT
SHORELINE

TP-00617

61 - GENERAL STATEMENT

See Summary included with this report.

The shoreline on this map is subject to continual change. This is due to the sedimentary nature of the beach affected by glacial drainage and deposits.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. quadrangle: Yakutat (D-5), Alaska, scale 1:63,360, dated 1959 and Yakutat, Alaska-Canada, scale 1:250,000, dated 1959.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the advance copy of H-9778, 1:20,000, dated October 19, 1979.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with N.O.S. Charts:
Chart 16760, 7th edition, 1:300,000 scale, dated March 16, 1985
Chart 16761, 13th edition, 1:80,000 scale, dated August 18, 1984.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by
Lowell O. Neterer, Jr.
Lowell O. Neterer, Jr.
Final Reviewer
August 7, 1986

Approved for forwarding
Billy H. Barnes
Billy H. Barnes
Chief, Photogrammetric Section

Approved *J. A. McInerney*
Chief, Photogrammetric Section
Rockville

Ronald K. Brewer
Chief, Photogrammetry Branch
Rockville

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]