

T-12319

T-12319

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey ... Shoreline (Photogrammetric)...

Job No. PH-6301 Map No. T-12319

Classification No. III * Edition No.
*Refer to Final Review Report, Heading 61

LOCALITY

State Alaska

General Locality . Kamishak Bay, . Cook Inlet

Locality . Chinitna Point

19 62 TO 19 73 *

REGISTRY IN ARCHIVES

DATE

DESCRIPTIVE REPORT - DATA RECORD

T - 12319

PROJECT NO. (II): PT-6301		
FIELD OFFICE (III): None		CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Atlantic Marine Center, Norfolk, Virginia		OFFICER-IN-CHARGE J. Bull, Director
INSTRUCTIONS DATED (II) (III): March 18, 1965 - Office, Part I Feb. 10, 1966 - Office, Supplement I May 5, 1967 - Office, Supplement II Dec. 27, 1967 - Office, Supplement III		
METHOD OF COMPILATION (III): Wild B-8 Plotter		
MANUSCRIPT SCALE (III): 1:20,000	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:10,000 pantographed to 1:20,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):	
APPLIED TO CHART NO.	DATE: MAY 1976	DATE REGISTERED (IV): R. CATDR
GEOGRAPHIC DATUM (III): N.A. 1927		VERTICAL DATUM (III): MHW MEAN SEA LEVEL EXCEPT AS FOLLOWS: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum Low mean low water or mean lower low water
REFERENCE STATION (III): CHIT 2, 1967		
LAT.: 59°41'46.476" 1438.3M	LONG.: 153°02'49.323" 771.6M	<input type="checkbox"/> ADJUSTED <input checked="" type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): Y=2,082,169.08 ft. X=676,041.97 ft.		STATE Alaska
		ZONE 5
NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE. WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.		

(2)

DESCRIPTIVE REPORT - DATA RECORD

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FIELD INSPECTION BY (III): None		DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of the photography listed on the Data Record 181c.		
PROJECTION AND GRIDS RULED BY (IV): A. Bethea		DATE: 2/20/68
PROJECTION AND GRIDS CHECKED BY (IV): L.F. Van Scoy		DATE: 2/27/68
CONTROL PLOTTED BY (III): J. Steinberg		DATE: 3/1/68
CONTROL CHECKED BY (III): F. Wilson		DATE: 3/1/68
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): P. J. Dempsey		DATE: 1/22/68
STEREOSCOPIC INSTRUMENT COMPILATION (III):		PLANIMETRY A.L. Shands Reviewed by: L. Neterer DATE: 7/20/68
		CONTOURS Inapplicable DATE:
MANUSCRIPT DELINEATED BY (III): A.L. Shands		DATE: 7/28/68
SCRIBING BY (III):		DATE:
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L.L. Graves		DATE: 9/3/68
REMARKS: Partial Field edit by John Murphy in July 1973 Refer to Final Review Report, Heading 61		

DESCRIPTIVE REPORT - DATA RECORD

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CAUTION (KIND OR SOURCE) (III):

Wild RC-9 Type "M"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
67M876, 877	7/9/67	0939	1:60,000	-1.9 ft. MLLW
62W6919 - 6923	6/21/62	1352	1:15,000	9.4 ft. above MLLW
62W6927 & 6928	6/21/62	1358	1:15,000	9.4 ft. above MLLW

Predicted TIDE (III)

Diurnal

		RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Seldovia, Kachemak Bay, Alaska			15.4	17.8
SUBORDINATE STATION: Iliamna Bay, Alaska			12.3	14.5
SUBORDINATE STATION:				
WASHINGTON OFFICE REVIEW BY (IV): J.B. Phillips		DATE: February 1976		
PROOF EDIT BY (IV):		DATE:		
NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): * 2	RECOVERED: 2	IDENTIFIED: 2		
NUMBER OF BM(S) SEARCHED FOR (II): none	RECOVERED: none	IDENTIFIED none		
NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): none				
NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): none				

REMARKS:

*Barb, 1967 is north of the limits of this sheet

SUMMARY

T-12319 is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit ~~was accomplished during~~ a small portion of edit for this map was included with the edit of T-12318. There is no field edit on this sheet.
Final review was accomplished at the Rockville Office in February 1976

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.

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COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	July 1968	Superseded
Field Edit applied from Field Edit Ozalid T-12318 which covered this sheet	March 1974	

FIELD INSPECTION

TP-12319

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

Job PH-6301

Kamishak Bay, Alaska

January 22, 1968

21. Area Covered

This report covers the northern part of Kamishak Bay, Alaska, consisting of thirteen (13) 1:20,000 scale map manuscripts -- T-12315 thru T-12319, T-12326 thru T-12331, T-12334 and T-12335, and six (6) 1:10,000 scale map manuscripts -- T-12320 thru T-12325.

22. Method

Analytic aerotriangulation methods were used to bridge strips 1, 2 and 3 at 1:60,000 scale using premarked and field identified control. Numerous tie points were located to control strips 41, 42 and 43, which were bridged by stereoplanigraph.

The attached sketch of strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown on the IBM readouts along with all the bridge points.

23. Adequacy of Control

Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN, 1967, Subpoint A and Subpoint B, were too poor to read and were not used in the adjustment.

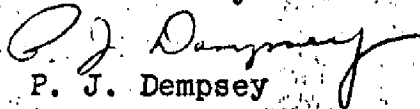
24. Supplemental Data

Vertical control needed for the adjustment was taken from USGS quadrangles.


25. Photography

The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale.

Submitted by:


P. J. Dempsey

Approved and forwarded:


H. P. Eichert, Chief
Aerotriangulation Section

Compilation Report
Map Manuscript T-12319
Project PH-6301

31. Delineation

The Wild B-8 stereoplotter was used. Photography was adequate.

32. Control *(on separate page)*

See Photogrammetric Plot Report dated January 22, 1968.

33. Supplemental Data - None

34. Contours and Drainage

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. Shoreline and Alongshore Details

The shoreline, MLLWL and ledge areas were delineated from office interpretation of the photographs.

36. Offshore Details

All foul areas were delineated from office interpretation of the photographs.

37. Landmarks and Aids - None

38. Control for Future Surveys - None

39. Junctions

Junctions have been made with T-12318 to the west. There are no contemporary surveys to the north, east, or south.

40. Horizontal and Vertical Accuracy - No statement

41. thru 45. Inapplicable

32.
CONTROL

Refer to Photogrammetric Plot Report, dated January 22, 1968.

Difficulty in holding control established by stereoplanigraph bridging of strips 41, 42, and 43 was encountered, initially. They were returned to the Bridging Section and their subsequent re-adjustment resulted in "Revisions" for strips 41 and 43.

Strip 42 had been compiled with little or no difficulty concerning the control. Although strip 41 also was compiled utilizing the original Bridge Strip, the comparison between the original and "Revised" strip #41 indicated a maximum change of approximately 0.3mm which proved to be of an insignificant effect. The compilations of these two strips were summarily considered to be of sufficient accuracy. Both of these strips were oriented in a general north-south direction.

The results of the "Revision" of strip 43 proved to be of a major change, and inasmuch as this strip was oriented in an east-west direction, intersecting both strips 41 and 42, an attempt to tie these together at their common models resulted in an error of tie-in between drilled pass points of strip 43 and shoreline pass points common to all strips.

When model 62W-7343 and 7346, of strip #43 was set, it was found that six of the seven drilled pass points would hold within tolerance, but none of the adjoining shoreline pass points from strips 41 and 42 would hold. When this model was re-scaled to all common shoreline points, the drilled points would not hold.

This same condition existed when model 62W-7334 and 7337 was set. Drilled pass points held within tolerance, but no common shoreline pass points between strip 42 and this model would hold.

It was evident at this time that no model work could be compiled from strip 43.

To further substantiate our decision, all five manuscripts were joined and a modified radial plot consisting of several processed ratio photos of each of strips 41, 42, and 43 was laid.

It was noted during this plot, that the tie points (from the stereoplanigraph bridges), and the field identified triangulation control, would hold well with the common shoreline pass points, but the drilled points would not. (A few of the drilled points at or near sea level were noticeably closer than those at the higher elevations.)

It was concluded therefore that strips 41 and 42 were tied together well and were geographically correct, and that a graphic solution and compilation of the two models in question on strip 43 could be made using the common shoreline pass points.

46. Comparison with Existing Maps

Comparison was made with USGS Quadrangle ILIAMNA (C-2), Alaska, scale 1:63,360, dated 1954.

47. Comparison with Nautical Charts

Comparison was made with USC&GS chart #8554, 9th edition (Cook Inlet, Southern Part), scale 1:200,000, dated May 10, 1965.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

A. L. Shands
Carto (Tech)
March 1969

Approved:

FIELD EDIT REPORT

MAP T-12318 *and a small portion of T-12319*

DRY BAY, ALASKA

JULY 1973

Field edit of map T-12318 was done by LT(jg) Alan Potok, LT(jg) William Wert, and ENS John Murphy during July 1973. Inspection was done from small boats, and on foot when fixes on land were required.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. Mean high water line verification was done by visual comparison of the shore and the ozalid in the field. Sextant fixes were used for verification and location of rocks and ledges in the area. Height data is written directly on the ozalid or referenced by fix number to the attached sheets. All times are based on the 135°W meridian.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic details compare well with photogrammetric locations.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the ozalid and the fix information, and then be accepted as an advance manuscript.

Respectfully submitted,

John A. Murphy
JOHN A. MURPHY, ENS NOAA

Approved and forwarded,

Charles A. Burroughs
Charles A. Burroughs
CDR, NOAA, Cmdg.

TIME ZONE 135° W = D Saving Time T-12318

(K) 1/2

TIME	DESCRIPTION		L ANGLE	R ANGLE	CHK ANGLE	L	C	R	CHK
01 0950	LEDGE LIMIT COV 3'	07/03/73	72-31	25-36	124-20	337	339	315	327- 339
02 0955	LEDGE LIMIT COV 4'	"	64-19	28-06	115-08	337	341	345	327- 339
03 1000	LEDGE LIMIT COV 3'	"	52-14	40-47	99-00	S	S	S	S
04 1005	LEDGE LIMIT COV 3'	"	40-42	52-58	71-59	S	S	S	S
05 1010	LEDGE LIMIT COV 4'	"	38-46	73-32	86-46	S	S	S	S
06 1015	LEDGE LIMIT COV 3'	"	28-06	80-20	102-22	325	341	342	343
07 1015	RK AWASH	07/02/73	40-49	37-31	82-17	331	341	342	327
08 1050	RK COV. 3'	07/02/73	52-19	35-29	95-28	337	341	342	327
09 0854	EDGE OF FOUL REEF COV 3'	07-17-73	32-54	107-15	38-50	342	343	345	341
10 0859	EDGE OF FOUL COV 2'	"	53-39	70-00	68-41	342	343	345	341
11 0920	EDGE OF FOUL COV 4'	"	07-39	66-41		341	342	343	
12 0926	EDGE OF FOUL COV 2'	"	51-45	39-05	89-00	342	343	345	341
13 0932	EDGE OF FOUL COV 4'	"	49-10	33-00	93-14	S	S	S	S
14 0948	SHOAL COV 10'	"	43-45	59-11	56-25	343	345	342	348
15 0954	SHOAL COV 5'	"	52-54	64-15	62-20	S	S	S	S
16 0958	AW RK (10M S.)	cov 14'	83-43	95-21	44-43	S	S	S	S
17 1001	COV 6'	"	91-02	29-24		343	345	348	
18 1005	COV 7'	"	24-27	72-32		341	343	345	
19 1007	COV 10'	"	23-45	55-35		S	S	S	
20 1015	COV 8'	"	35-19	90-05		342	345	348	
21 1020	COV 5'	"	18-53	129-00		342	345	348	
22 1025	EDGE OF LEDGE COV 1'	"	132-45	05-08		345	347	348	
23 1029	EDGE OF LEDGE	"	132-22	08-17		S	S	S	
24 1031	LEDGE LIMIT	"	133-28	10-43		S	S	S	
25 1039	AW RK	"	134-35	25-35		S	S	S	
26 1041	AW RK EDGE OF FOUL AREA	"	91-04	68-37		S	S	S	
27 1045	AW RK EDGE OF FOUL AREA	"	30-33	124-36		S	S	S	
28 1048	AW RK EDGE OF FOUL AREA	"	122-42	37-45		S	S	S	
29 1053	AW RK EDGE OF FOUL AREA	"	20-57	130-44		S	S	S	
30 0900	LEDGE LIMIT	"	136-39	19-15	13-24	317	348	349	345 347
31 0910	LEDGE LIMIT	"	131-53	34-11		317	348	349	
32 0922	EDGE OF FOUL	"	104-18	37-18		348	402	349	
33 0930	EDGE OF FOUL	"	90-44	69-27		348	403	349	
34 1022	REEF LINE	07/17/73	09-13	149-22		347	348	008	
35 0958	REEF LINE	07/17/73	10-31	136-54		S	S	S	
36 0956	REEF LINE	07-17-73	08-33	135-55		S	S	S	
37 0947	RK BRS 3'	07-17-73	115-52	51-23		348	008	010	

TIME ZONE 135°W

T-12318

(15) 1/2

TIME	DESCRIPTION		L ANGLE	R ANGLE	CHK ANGLE	L	C	R	CHK
38 0943	RK BR 3'	07-17-73	85-54	82-36		348	008	010	
39 0930	RK BR 3'	07-17-73	160-58	19-50		349	353	010	
40 0918	RK AWASH	07-17-73	171-35	20-19		008	353	354	
41 0906	SUB MERGED REEF	07-17-73	164-08	07-21		S	S	S	
42 0922	FOUL LIMIT	07-16-73	129-11	33-38		349	351	353	
43 0926	FOUL LIMIT	07-16-73	83-41	43-19	38-28	349	350	351	351-
44 0936	RK COV 4'	07-16-73	130-40	44-52	39-11	350	351	353	352- 353
45 0946	FOUL LIMIT, RK AWASH	07-16-73	134-38	58-81	45-52	S	S	S	S
46 0952	FOUL LIMIT, RK COV 3'	07-16-73	21-25	51-08		351	352	353	
47 0955	RK BR 3'	07-16-73	32-56	60-25		S	S	S	
49 1030	RK BR 4' ON SAND	07-16-73	13-36	11-40		351	352	353	
50 1011	RK BR 2' ON SAND	07-16-73	17-38	12-04	59-17	349	351	352	352- 353
51 1020	S. END OF RK LEDGE FOUL LIMIT	07-16-73	154-8	11-37		349	351	352	
52 1005	EDGE OF FOUL COV 5'	07/18/73	102-44	73-20	82-48	352	356	010	353
53 1010	BRS 2'	07/18/73	68-13	59-35	38-33	352	356	357	355
54 1015	BR 1'	07-18-73	111-48	58-16	93-58	352	357	010	355
55 1020	COV 1'	07-18-73	106-42	64-12	91-11	352	357	010	355
56 1025	COV 2' 2	07-18-73	62-51	110-46	85-27	352	358	010	008
57 1015	RK BR 2'	07-19-73	125-37	47-57	115-18	352	360	016	358
58 1020	W. END OF REEF COV 2'	07-19-73	128-57	44-04	119-24	S	S	S	S
59 1022	E. END OF REEF COV 1'	07-19-73	123-24	51-15	31-42	352	360	010	364
60 1027	EDGE OF FOUL RK COV 1'	07-19-73	118-41	63-07	42-59	351	360	010	364
61 1030	S.E. EDGE OF FOUL COV 2'	07-19-73	118-41	76-23	55-35	350	360	010	364
62 1102	RK BRS 5' 5'x10' (T-12319)	07-19-73	12-14	63-30	00-8	010	009		

PHOTOGRAMMETRIC OFFICE REVIEW
T-12319 ~~T-12318~~

1. PROJECTION AND GRIDS LLG	2. TITLE LLG	3. MANUSCRIPT NUMBERS LLG	4. MANUSCRIPT SIZE
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LLG	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS X	9. PLOTTING OF SEXTANT FIXES X	10. PHOTOGRAMMETRIC PLOT REPORT H.P. Eichert WSC	11. DETAIL POINTS LLG
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LLG	13. LOW-WATER LINE LLG	14. ROCKS, SHOALS, ETC. LLG	15. BRIDGES XX
16. AIDS TO NAVIGATION XX	17. LANDMARKS XX	18. OTHER ALONGSHORE PHYSICAL FEATURES LLG	19. OTHER ALONGSHORE CULTURAL FEATURES XX
PHYSICAL FEATURES			
20. WATER FEATURES LLG	21. NATURAL GROUND COVER XX		22. PLANETABLE CONTOURS XX
23. STEREOSCOPIC INSTRUMENT CONTOURS XX	24. CONTOURS IN GENERAL XX	25. SPOT ELEVATIONS XX	26. OTHER PHYSICAL FEATURES LLG
CULTURAL FEATURES			
27. ROADS XX	28. BUILDINGS XX	29. RAILROADS XX	30. OTHER CULTURAL FEATURES XX
BOUNDARIES			
31. BOUNDARY LINES XX		32. PUBLIC LAND LINES XX	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LLG	34. JUNCTIONS T-12318 LLG		35. LEGIBILITY OF THE MANUSCRIPT LLG
36. DISCREPANCY OVERLAY LLG	37. DESCRIPTIVE REPORT LLG	38. FIELD INSPECTION PHOTOGRAPHS XX	39. FORMS LLG
40. REVIEWER LL Graves		SUPERVISOR, REVIEW SECTION OR UNIT A.C. Rauck, 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 C. Blood		SUPERVISOR A.C. Rauck, Jr.	
43. REMARKS Field edit applied from field edit ozalid T-12318 which covered this sheet			

Review Report T-12319
Shoreline Survey
February 1976

61. General Statement

This is a Class III manuscript. The field edit for the sheet to the west of this manuscript (T-12318) also included information on two (2) rocks near Chinitna Point, which falls in the extreme southwest portion of this manuscript. That is the only field edit for this sheet. The Field Edit Report for T-12318 has been included as part of the Descriptive Report for this manuscript. The ledge areas have been outlined by a short dashed line and labeled accordingly.

The contemporary hydrographic survey covering this manuscript is H-9379 which is in the boat sheet stage. A copy of the final reviewed map and applicable notes will be forwarded upon completion to the PMC.

62. Comparison with Registered Topographic Surveys

T-3420, Part I, 1:40,000, 1913

This survey is superseded by the new map.

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9379 is in the boat sheet stage. Refer to item 61 of this report.

65. Comparison with Nautical Charts

Chart #8554, 1:200,000, 13th Edition, May 1974

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

J.B. Phillips
J.B. Phillips

Approved:

S. H. Blankenbaker
for A.K. Heywood
Chief, Photogrammetric Branch

James C. [Signature]
Chief, Coastal Mapping Division

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12319

Bow Creek
Chinitna Point
Cook Inlet

Approved By:

A. Joseph Wraight

A. Joseph Wraight
Chief, Geographer

Prepared BY:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12319 PROJECT NO. PH-6301 SCALE OF MAP 1:20,000 SCALE FACTOR None

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (<i>1 Ft.</i> = <i>3048006 meter</i>)	
				FORWARD	(BACK)
CHIT 2, 1967	G.P. From W.S.C.	N.A. 1927	59°41'46".476" 153°02'49".323"	1438.3 771.6	(418.5) (167.2)
BARB, 1967	" "	"	59°46'37".772" 153°00'01".740"	1168.9 27.2	(687.9) (909.1)
COMPUTED BY A.C. Rauck, Jr.	DATE July 30, 1968	CHECKED BY A.L. Shands	DATE July 30, 1968	(19)	