T-12341

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (Photogrammetric)

Classification: FINAL

~~Field No.~~ Office No. T-12341

Field edited map Edition: 1

LOCALITY

State ALASKA

General locality KAMISHAK BAY

Locality DOUGLAS RIVER

1962 - 1970

CHIEF OF PARTY

P.A. Stark Compilation Office

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

T-12341

FORM C&GS-181a
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12341

PROJECT NO. (II):

PH-6301

FIELD OFFICE (II):

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
Portland, Field Office
Portland, Oregon

OFFICER-IN-CHARGE
P.A. Stark

INSTRUCTIONS DATED (II) (III):

March 18, 1965 Office
Feb. 10, 1966, Office, Supplement I
May 5, 1967, Office, Supplement II
Dec. 27, 1967, Office, Supplement III
April 2, 1968, Office, Supplement IV
April 9, 1968, Office, Supplement V

METHOD OF COMPILATION (III):

Kelsh Instrument

MANUSCRIPT SCALE (III):

1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III): 1:6,000

Pantograph scale 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):
R. T. CATOR
JUN 1976

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
i.e., ~~mean low water~~ mean lower low water

REFERENCE STATION (III):

CROW, 1964

LAT.:
59° 05' 04.93" N

LONG.:
153° 42' 20.18" W

☐ ADJUSTED
☒ UNADJUSTED

PLANE COORDINATES (IV): -

Y =

X =

STATE
Alaska

ZONE
5

ROMAN 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.

USCOMM-DC 16276A-P61

FORM C&GS-181b
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12341

FIELD INSPECTION BY (II):	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of the photography taken in June, 1962 and July 1962. Kelsh Instrument	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE 1-26-65
PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins	DATE 1-26-65
CONTROL PLOTTED BY (III): J. S. Place	DATE 3-16-65
CONTROL CHECKED BY (III): R. H. Meyer	DATE 3-16-65
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): J. E. Perrow, Jr.	DATE 2-1-65
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY W. Masular	DATE 4-7-65
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C. C. Harris	DATE 4-16-65
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L. F. Beugnet	DATE 4-19-65

REMARKS: Field edit by L.J. Oliver, September 1970
Field edit applied by: A. Shands 10/28/71
Checked by: S. Kumer 11/9/72

(3)

FORM C&GS-181c
(12-61)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

C&GS "W" and "S"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62W 6586 thru 6594	6-18-62	1645 (PST)	1:30,000	14.2 ft. above MLLW
62W 6530 thru 6539	6-18-62	1630 "	1:30,000	14.3 ft. above MLLW
62W 6468 thru 6476	6-18-62	1400 "	1:15,000	9.4 ft. above MLLW
62M 2256 thru 2259	7-3-62	1006 "	1:50,000	1.6 ft. above MLLW
				From tide table predictions

TIDE (III)

	RATIO OF RANGES	MEAN RANGE	Diurnal ~~XXXXXXX~~ RANGE
REFERENCE STATION: ~~Seldovia~~		~~15.4 ft.~~	~~17.8 ft.~~
SUBORDINATE STATION: Iliamna Bay		~~12.3 ft.~~	~~14.5 ft.~~
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): J. B. Phillips — DATE: May 1976

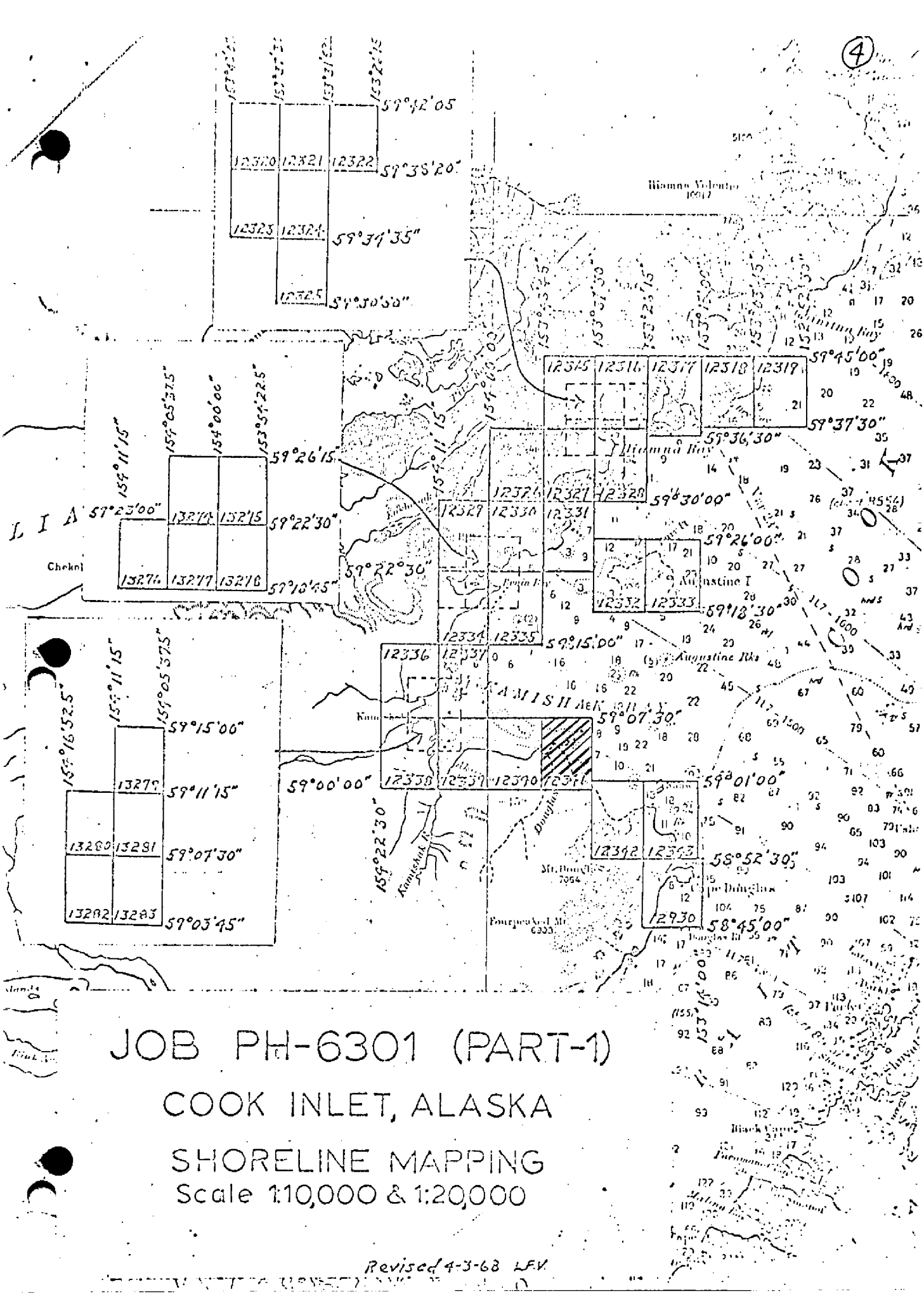
PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIED:
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

Scale 1:10,000 & 1:20,000

Revised 4-3-68 LFV

SUMMARY

T-12341 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 September 1979

Final review was accomplished at the Rockville Office in May 1976

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

T-12341

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore area for hydro	April 1965	Superseded
Field edit applied Compilation complete	Oct. 1971	

Photogrammetric Plot Report

Project 21062 T-12391

Kamishak Bay, Alaska

21. Area Covered

This report covers the southern portion of Cook Inlet, in the vicinity of Kamishak Bay to Cape Douglas, Alaska.

22. Method

Analytic aerotriangulation methods were used to bridge Strip #1 at the scale of 1:50,000.

Stereoplanigraph methods used to bridge Strip #2 at the scale of 1:30,000. Both strips were adjusted by the IBM 1620.

Points were dropped from Strip #1 to control one model needed to compile an offshore island. Tie points were also dropped from Strip #1 to provide control on the eastern end of Strip #2.

23. Adequacy of Control

Horizontal control was adequate and complied with project instructions. Ties between strips were averaged. Bridging results meet National Map Accuracy Standards with the exception of station WARVIK, SS "B". No reason could be determined for its not being within standards.

WARVIK, SS "A" is marked ("doubtful") on Form 152 but seems to fit into a good adjustment pattern with small residuals.

24. Supplemental Data

Local quads were used to obtain vertical control for bridging purposes. Vertical points expressed on the readout are only as good as these quads and are not to be used as "Tight vertical control".

25. Photography

Photography was adequate with regard to coverage, overlap and definition.

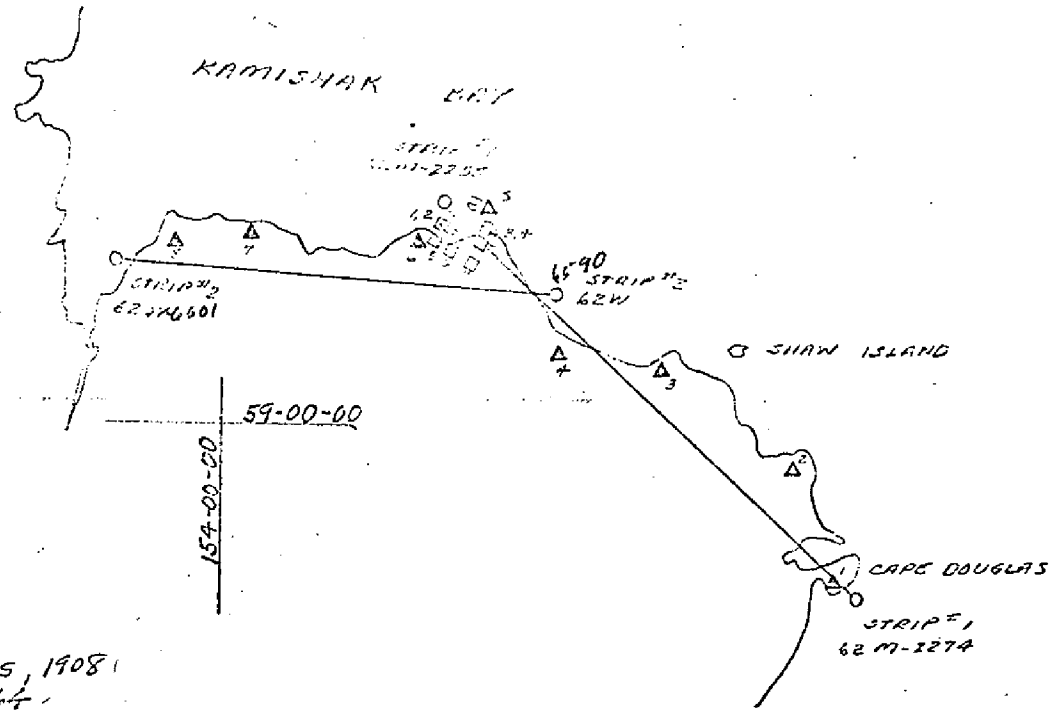
Submitted by,

John D. Perrow, Jr.

Approved by:

KAMISHAK BAY, ALASKA

2106E



1 South Douglas, 1908
2 Douglas, 1964
3 Beaver, 1964
4 Baby, 1964
5 Crow, 1964
6 Shale, 1964
7 Echo, 1964
8 Wave, 1964

(9)

FIELD INSPECTION REPORT
Map Manuscript T-12341
Project 21062

There was no Field Inspection prior to compilation.

(10)

COMPILATION REPORT
Map Manuscript T-12341
Project 21062

For Items 31 thru 38 please refer to the Compilation Report found in the Descriptive Report for Map Manuscript T-12339.

39. JUNCTIONS

Satisfactory junctions were made with Manuscripts T-12340 on the west and T-12342 on the east. There is no contemporary survey on the north or south.

40. HORIZONTAL AND VERTICAL ACCURACY

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS 15 minute ILIAMNA (A-1 thru A-3) Alaska Quadrangles, scale 1:63,360, Edition of 1951.

For Item 47 please refer to the Compilation Report found in the Descriptive Report for T-12339.

Approved:

(for) P.A.Stark, CDR
Portland Field Officer

Submitted:

Donnel N. Williams
Cartographer

(11)

FIELD EDIT REPORT

SHEET T-1234

DOUGLAS RIVER

PH-6301

SEPTEMBER 1970

NOAA SHIP PATHFINDER

CAPT H. R. LIPPOLD JR., COMDG.

51 Methods

The field edit of this map was done in accordance with Photogrammetric instructions and project instructions to the Commanding Officer, Ship PATHFINDER, dated March 19, 1970. Sextant fixes were used to verify and locate objects that could not be seen or positively verified on the photographs.

All deletions, additions, and corrections to be applied to the manuscript appear on the Field Edit Ozalid. This ozalid is an index and inventory of all field edit work performed. All features marked in green on the ozalid are to be deleted. Red circles on the ozalid indicate the approximate locations of the signals used in the field edit work.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete for all areas within the boundaries indicated on the Field Edit Ozalid.

Recommendations

None

56 Additional Information

Alaska Daylight Time, time meridian 135W, was used for the entire survey.

Hydrographic signals used for field edit fixes are listed on a sheet attached to the Field Edit Ozalid and also included in this report. The method of location and the geographic positions are given for each signal.

All fixes taken during the field edit are identified by number on the Field Edit Ozalid. A running tabulation of this data is supplied with the ozalid and is also part of this report.

Larry Joe Oliver
Larry Joe Oliver
Ensign, NOAA
Photo Officer

Approved:

H. R. Lippold Jr.
CAPT. NOAA
Commanding Officer

HORIZONTAL CONTROL

SIGNAL NAME	LATITUDE o ' meters	LONGITUDE o ' meters	ORIGIN OF POSITION
#44	59 04 0952	154 00 0604	T-12340
#45	59 04 0407	153 58 0433	T-12340
#46	59 03 1384	153 55 0610	T-12340
#47	59 03 1149	153 52 0734	T-12340
#48	59 03 1658	153 49 0463	T-12340
#49	59 04 ~~1373~~ 1379	153 47 ~~0270~~ 0117	T-12341
ROCK	59 06 ~~1146~~ 0043	153 51 ~~0561~~ 0555	T-12340
#51	59 05 0152	153 42 0322	T-12341
JUMA	59 10 1246	154 05 0345	JUMA 1967
TINE	59 19 0804	153 31 0265	TINE 2 RM 3 1964
MOUSE	59 10 0460	154 04 0667	TOPO. MOUSE 1970
NORD	59 10 1698	154 04 0787	TOPO. NORD 1970
CAL TOWER	59 11 1065	154 04 0470	TOPO. CAL TOWER 1968
CAL TOWER (70-1)	59 07 1734	153 55 0072	TOPO. CAL TOWER 1970

LOCATION OF SIGNALS

ROCK
JUMA
TINE
MOUSE
NORD
CAL TOWER
CAL TOWER-70-1

ROCK was located by plotting the following angles as a three point fix.

	SOUTH END		NORTH END
49	75° 02' 30''	49	74° 52' 40''
47	48° 46' 00''	47	57° 50' 20''
45		44	

JUMA was RED Raydist station located over triangulation station JUMA 1967 (Nordyke Is.)

TINE was GREEN Raydist station located over triangulation station TINE 2 RM 3 1964 (Augustine Is.)

MOUSE was located by resection. (See MOUSE RESECTION)

NORD was located by resection. (See NORD RESECTION)

CAL TOWER was based on topographic position used in 1968 field season.

CAL TOWER 1970-1 was established by Raydist control from CAL TOWER. Raydist lanes agreed to within .1 by hydro-launch 1 and hydro-launch 4. Location was determined by meter bar from Raydist position on boat sheet.

FIELD SHEET DATA

T-12341

FIX NO.	TIME / DATE	OBJECT	HEIGHT (DEPTH)	DATUM	LOCATION SIGNALS	LOCATION ANGLES
001	1030 / 9/17/70	edge of reef	0'	water	51 49 Rock	36° 04' 23° 35'
002	1045 / 9/17/70	edge of reef	0'	water	51 49 Rock	39° 06' 24° 43'
003	1035 / 9/17/70	edge of reef	0'	water	51 49 Rock	35° 50' 23° 50'
004	1040 / 9/17/70	edge of reef	0'	water	51 49 Rock	38° 05' 24° 25'
005	1050 / 9/17/70	edge of reef	0'	water	51 49 Rock	43° 37' 25° 33'

49. NOTES TO THE HYDROGRAPHER

Photography was inadequate to cover the offshore reefs that bare at low water within the limits of this manuscript. The outer limits of all reefs should be verified during the course of hydrography.

Review Report T-12341
Shoreline Survey
May 1976

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies - Refer to Compilation Report, Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-8962 1:20,000 1975
H-8842 1:20,000 1965-1973

(Hydrographic survey H-8842 was not available for comparison during final photogrammetric review.)

Comparison was made with the survey H-8962. Most of the ledge limits at and north of 59°06' latitude and 153°44' to 153°45'30" longitude were removed from the Class I manuscript since the soundings on the hydrographic survey disproved the compiled position. The mean lower low water line was removed where it differed from the location as determined by hydrography.

The limits of ledge north of latitude 59°06' and longitude 153°41' to 153°41'30" may differ from the hydro survey (H-8842, unavailable), due to inadequacies in the field fixes in that area.

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

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

48. GEOGRAPHIC NAME LIST

The Geographic names listed below were furnished by the Washington Office on USGS ILIAMNA (A-1 thru A-3) Alaska Quadrangle maps, scale 1:63,360, Edition of 1951.

Douglas River
Kamishak Bay

FORM C&GS-164
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12341 PROJECT NO. 21062 SCALE OF MAP 1:20,000 SCALE FACTOR

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 (1 Ft. = 3048006 meter) FORWARD (BACK)
			59° 05' 04.93"	
CROW, 1964	Unadjusted field positions	N.A.1927	153 42 20.18	
			59 00 49.68	
BABY, 1964	"	"	153 37 38.73	

COMPUTED BY	DATE	CHECKED BY	DATE
DNW	4-1-65	WM.	4-7-65

(21)