T-12343

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-12343

Field Edited Map Edition: 1

LOCALITY

State Alaska

General locality Kamishak Bay

Locality Shaw Island

1962 - 1965

CHIEF OF PARTY

P. A. Stark Compilation Office

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

T-12343

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12343

PROJECT NO. (II): 21[illegible]2
PH-6301

FIELD OFFICE (II):	CHIEF OF PARTY
PHOTOGRAMMETRIC OFFICE (III): Portland, Oregon	OFFICER-IN-CHARGE: P. A. Stark

INSTRUCTIONS DATED (II) (III):

Office: March 18, 1965
February 10, 1966, Supplement I
May 5, 1967, Supplement II
December 27, 1967, Supplement III
April 2, 1968, Supplement IV
April 9, 1968, Supplement V

METHOD OF COMPILATION (III):

Kelsh Instrument

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:20,000	1:10,000 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): M H W
~~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 or~~ mean lower low water

REFERENCE STATION (III):

NORTH DOUGLAS, 1908

LAT.:	LONG.:	
58° 55' 07.567"	153° 19' 50.064"	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y = 1,797, 404.82	x = 626,519,73	Alaska	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

VB (2)

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12343

FIELD INSPECTION BY (II):	DATE:
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of photography taken in 1962	
Kelsh Instrument	
PROJECTION AND GRIDS RULED BY (IV): A. E. Roundtree	DATE 1-27-65
PROJECTION AND GRIDS CHECKED BY (IV): P. Hawkins	DATE 1-27-65
CONTROL PLOTTED BY (III): R. H. Meyer	DATE 3-19-65
CONTROL CHECKED BY (III): D. N. Williams	DATE 3-19-65
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): J. P. Perrow, Jr.	DATE 2-1-65
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY D. N. Williams	DATE 3-20-65
CONTOURS Inapplicable	DATE
MANUSCRIPT DELINEATED BY (III): C. C. Harris	DATE 4-6-65
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): L. F. Beugnet	DATE 4-15-65

REMARKS:
Field edit: See letter dated Oct. 10, 1965, also see Hydrographer's Report.

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

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-12343

CAMERA (KIND OR SOURCE) (III):

C&GS Single Lens "M" and "W"

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
62M2264 thru 2274	7-3-62	1010	1:50,000	2 ft. above MLLW
2276 thru 2285	7-3-62	1020	1:50,000	2.5 ft. Above MLLW
62W6494 thru 6501	6-18-62	1410 (PST)	1: 15,000	9.4 ft. " "
6482 thru 6492	6-18-62	1400 "	1: 15,000	10.2 ft. " "
6563 thru 6580	6-18-62	1635 "	1: 30,000	14.3 ft. " "
6552 thru 6561	6-18-62	1630 "	1: 30,000	14.3 ft. " "
				From predicted tide tables.

Predicted TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Seldovia		15.4	17.8
SUBORDINATE STATION: Ushagat Island		11.4	13.7
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:

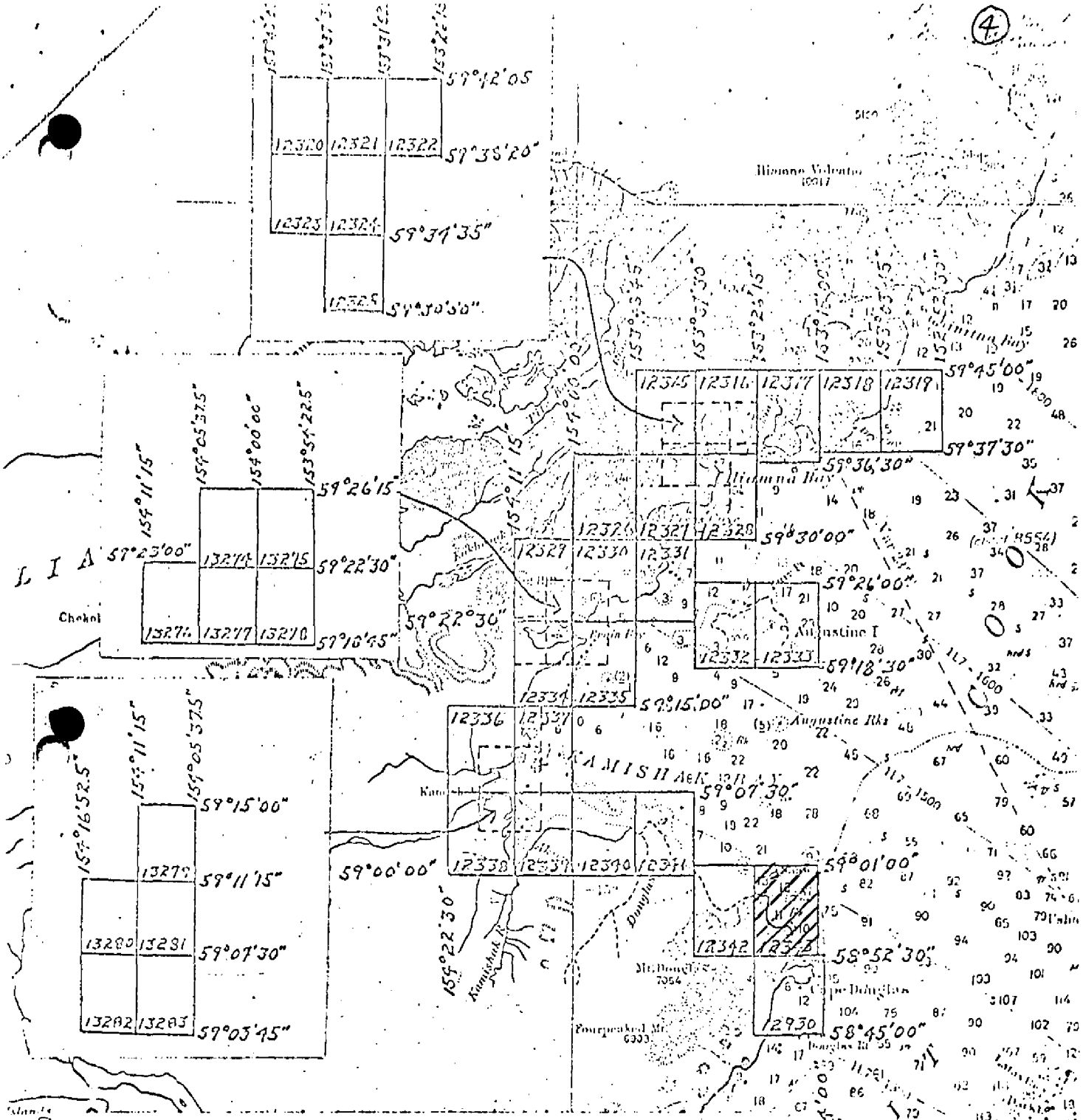
NUMBER OF BM(S) SEARCHED FOR (II): — RECOVERED: — IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

USCOMM-DC 16276-C-P61



JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

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

Revised 4-3-68 LFV

SUMMARY

T-12343 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 October 1965

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.

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T-12343

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compilation complete pending field edit		
Alongshore Area for hydro	April 1965	Superseded
No major field edit corrections required.		See letter dated 10/10/65

Photogrammetric Plot Report

Project 21062 T-12343

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

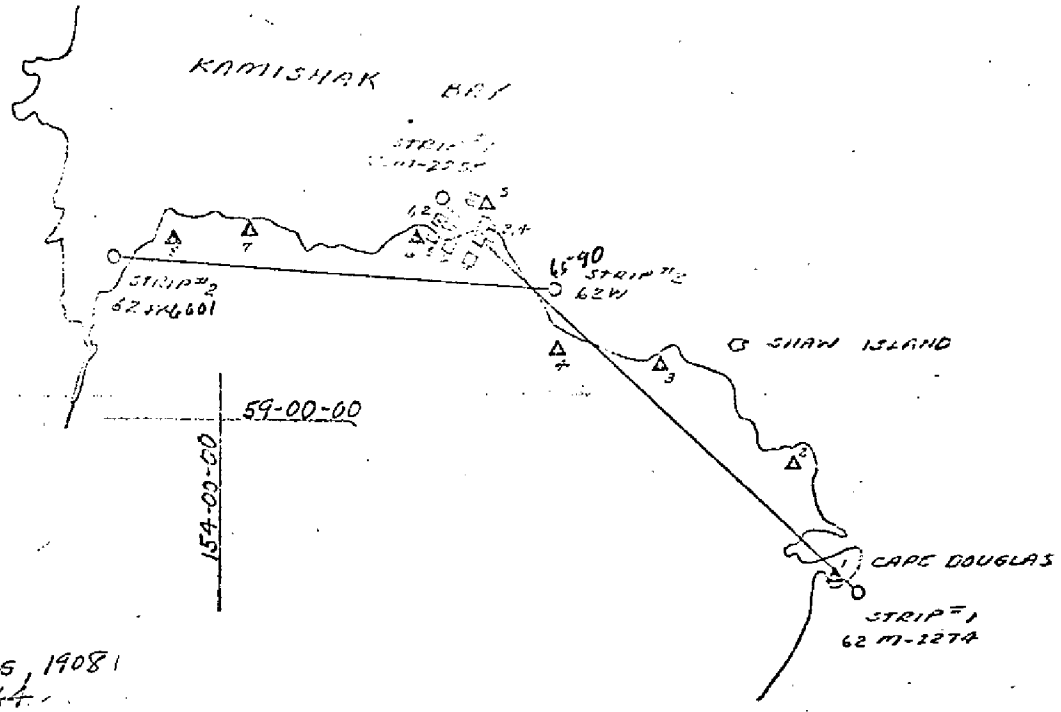
Photography was adequate with regard to coverage, overlap and definition.

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

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FIELD INSPECTION REPORT
Map Manuscript T-12343
Project 21062

There was no Field Inspection prior to compilation.

(10)

COMPILATION REPORT
Map Manuscript T-12343
Project 21062

Items 31 thru 38

Please refer to the Compilation Report found in the Descriptive Report for T-12339.

39. Junctions

Satisfactory junctions were made with manuscripts T-12342 on the west and T-12930 on the south. There are no contemporary surveys on the north or west.

40. HORIZONTAL AND VERTICAL CONTROL

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS 15 minute Afognak (A-4 and A-5) Alaska quadrangle, scale 1:63,360 edition of 1951.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with the following charts:

Chart 8554, scale 1:200,000 at Lat. 60°00' N. Revised 4-29-63
Chart 8502, scale 1:969,761 at Lat. 58°00' N. Revised 2-18-63

Items to be applied to Nautical Charts Immediately:

None

Items to be carried forward:

None

Approved:

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

Submitted:

Donnel N. Williams
Cartographer

FORM CD-131 (11-63) (PRES. BY A.O. 10-10)

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Memorandum

631P

T-12343

(11)

TO : The Director
Thru: Seattle Regional Officer

DATE: 10 October 1965

In reply refer to:
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FROM : Commanding Officer, USC&GSS PATHFINDER

SUBJECT: Field Edit Report, Project OPR-429: Kamishak Bay, Ninilchik.

No major field edit corrections for processing smooth sheets are required for the following incomplete manuscripts:

Ninilchik:
T-12640
T-12641
T-12654

Kamishak Bay:
T-12930
T-12342
T-12343

Minor corrections are contained in the hydrographic records and will be discussed in the descriptive report for the particular smooth sheet involved.

L. F. Woodcock

L. F. Woodcock
Captain, USESSA

OC 6320
Rec'd 11/3/65

COPY SENT TO N.I.C.O. FOR ACTION

H-07711,
HYDROGRAPHER'S REPORT T-12343 (12)

VESSEL	INSTRUMENT NO.(s)
ML-1	940, 935, 552
ML-2	557, 552
ML-3	140, 935
ML-4	145, 552
PATHFINDER	551, 141

E. SMOOTH SHEET

by smooth plotter

F. CONTROL

Positioning was controlled by SHORAN (~~43%~~ 32%) and by visual three-point fixes (~~57%~~ 68%) Shoran stations were established in late June on 2nd-order traverse stations CROW, 1964 and S. AUGUSTINE 2, 1964. The latter station proved to be on unsuitable terrain for erection of a mast so it was placed on the station's RM-2. Shoran receivers were then installed in ML-1, ML-2, and ML-3. The ship and launch units were calibrated just before and after each fueling trip to Kodiak throughout the season, and corrections have been derived (enclosed). Zero checks were taken hourly. For details see 1965 SHORAN REPORT. Control stations for visual hydrography were established by signal building on existing traverse marks and on photogrammetric locations. It was necessary to establish several signal locations by sextant cuts. Photo-hydro signals are plotted on Incomplete Manuscripts T-12930, 12942, and 12943. (1:20,000, April, 1965)

G. SHORELINE

Sources of shoreline details are the manuscripts mentioned in the preceeding section. No blueline copies of these compilations were furnished so that extra copies of the blackline manuscripts were treated with DRY-WRITE ink, and the shoreline burnished onto the boat sheet. The same procedure is recommended to the smooth plotter.

Principal details of the shoreline were verified in the course of hydrography. Small revisions are suggested by the hydrographers notes on the boat sheet. The inshore ends of lines define the low water line in most areas. In those areas designated "foul" penetration is often terminated offshore. (Ex. Lat. 58°54', 153°19')

H-8071

HYDRO SURVEY REVIEWER'S REPORT

(13)

2. Control and Shoreline

The origin of control is adequately covered in Part F of the Descriptive Report. The smooth plotter did not plot the on-shore-signals on the smooth sheet as visual fixes had been converted to shoran fixes for machine plotting. These signals were transferred by the reviewer from the preliminary unverified position plot of the present survey to the present survey position overlay in order to retain a graphic record of the original control.

The shoreline originates with advanced photogrammetric manuscripts T-12930 (1962-67), T-12342 (1962), and T-12343 (1962).

Several foreshore characteristics shown as Rky or rky on the above manuscripts were described more appropriately on the present survey smooth sheet as boulders.

The four islets on T-12343 in the vicinity of lat. 58°58.35', long. 153° 23.66' were specifically described on the boat sheet as being rocks awash and are so shown on the smooth sheet.

3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves are adequately delineated except in some inshore foul areas. In some cases, supplemental dashed and brown depth curves were added in accordance with Par. 6-64 of the Hydrographic Manual.

C. The development of the bottom configuration and the investigation of least depths are considered adequate, however, the hydrographer did not verify the least depths on hazards to navigation with a handlead as instructed by the Project Instructions.

4. Condition of the Survey

The plotting, sounding records, Descriptive Report, and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instructions Manual - Automated Hydrographic Surveys except as noted.

Inasmuch as a visual fix program was not available for automating the smooth plotting, the visual fix positions were converted to shoran values and machine plotted.

Review Report T-12343
Shoreline Survey
May 1976

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to item 46 in the Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys

H-8842 1:20,000 1965-1973

This survey was unavailable for comparison during final review. Refer to Hydrographer's Report furnished with this report for comments about minor corrections made on the smooth sheet. These corrections have been applied to the manuscript. Also, refer to accompanying letter, dated October 10, 1965, Subject, Field Edit 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

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

(15)

GEOGRAPHIC NAMES
Ph 6203 (Cook Inlet, Alaska)

T-12343

Cook Inlet

Katmai National Monument

Sukoi Bay

A. J. Wraight
A. J. Wraight
Geographic Names

FORM C&GS-[redacted]
(3-64)
USCOMM-DC
6659-P64

U.S. DEPARTMENT OF COMMERCE
COAST AND GEO[redacted] SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12343 PROJECT NO: 21062 SCALE OF MAP 1:20,000 SCALE FACTOR Zone V

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)
	Alaska 59153		1,829,816.89	
SHAW, 1946	p. 8	N.A.1927	618,033.17	
	Alaska 58153		1,797,404.82	
NORTH DOUGLAS, 1908	p. 1	"	626,519.73	
	Unadjusted field		58° 55' 06.77"	
DOUGLAS, 1964	position	N.A.1927	153° 19' 32.05"	

COMPUTED BY: D.N. Williams — DATE: 3-19-65

CHECKED BY: R.H. Meyer — DATE: 3-19-65

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