ORIGINAL

10399

10399

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTOGRAMMETRIC) "INCOMPLETE" SURVEY

Field No. ..... Office No. T-10399

LOCALITY

State ALASKA

General locality EL CAPITAN PASSAGE

Locality HOOT ISLAND TO SAN ISLAND

1953 - 1956

CHIEF OF PARTY

Robert A. Earle, Chief of Field Party
Wm. F. Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

FORM C&GS-181a
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

T - 10399

PROJECT NO. (II):

PH-87

FIELD OFFICE (II):	CHIEF OF PARTY
USC&GS Ship HODGSON	R.A. Earle E.W. Richards
PHOTOGRAMMETRIC OFFICE (III):	OFFICER-IN-CHARGE
Baltimore, Maryland	E.H. Kirsch W.F. Deane

INSTRUCTIONS DATED (II) (III):

Field:	Office:
25 Jan. 1955	7 Nov. 1955
21 Nov. 1956	13 Nov. 1956
	23 Nov. 1956
	30 Oct. 1957

METHOD OF COMPILATION (III):

Graphic

MANUSCRIPT SCALE (III):	STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000	
DATE RECEIVED IN WASHINGTON OFFICE (IV):	DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): MHW
N.A. 1927	XXXXXXXXXXXX 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):

BIRD 2, 1922

LAT.:	LONG.:	
55° 54' 18.478"	133° 22' 19.208"	[X] ADJUSTED [ ] UNADJUSTED

PLANE COORDINATES (IV):		STATE	ZONE
Y =	X =	Alaska	8

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 36393A-P66

FORM C&GS-181b
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II):	DATE: *See below
Control Operations (no report available) J. P. Randall, A.M. Legako (Control operations & Edit) →	1955 1956 Field season

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):

Office interpretation of 1953 and 1955 photography verified by field inspection in 1956.

PROJECTION AND GRIDS RULED BY (IV): A. Riley	DATE 02-15-56
PROJECTION AND GRIDS CHECKED BY (IV): A. Riley	DATE 02-15-56
CONTROL PLOTTED BY (III): J. E. Tolodziecki	DATE 02-25-56
CONTROL CHECKED BY (III): L. A. Senasack	DATE 03-16-56
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): E.L. Williams L.A. Senasack (final plot)	DATE 03-21-56 01-14-57
STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY	DATE
CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): J. B. Phillips J. Honick	DATE 02-18-57
SCRIBING BY (III):	DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Glaser (incomplete)	DATE 02-25-57

REMARKS:

* Refer to the Compilation Report (item 35, page 20) concerning field work accomplished in 1957. ALSO REFER TO SUMMARY PAGE 6.

FORM C&GS-181c
(3-66)

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

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

USC&GS Nine-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
41520 thru 41521	8-22-53	1104	1:10,000	7.9' above MLLW
41529 thru 41531	8-22-53	1118	1:10,000	8.2' above MLLW
52146	9-22-55	1101	1:10,000	3.9' above MLLW
52164	9-22-55	1123	1:10,000	3.8' above MLLW

TIDE (III) FROM PREDICTED TIDES

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sitka		7.7	9.9
SUBORDINATE STATION: Marble Pass		8.8	10.9
SUBORDINATE STATION:			

WASHINGTON OFFICE REVIEW BY (IV): Leo F. Beugnet, Atlantic Marine Center — DATE: Jan. 1969

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	19	RECOVERED: 13	IDENTIFIED: 6
NUMBER OF BM(S) SEARCHED FOR (II):	0	RECOVERED: 0	IDENTIFIED 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 1

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 37

REMARKS:

T-10399

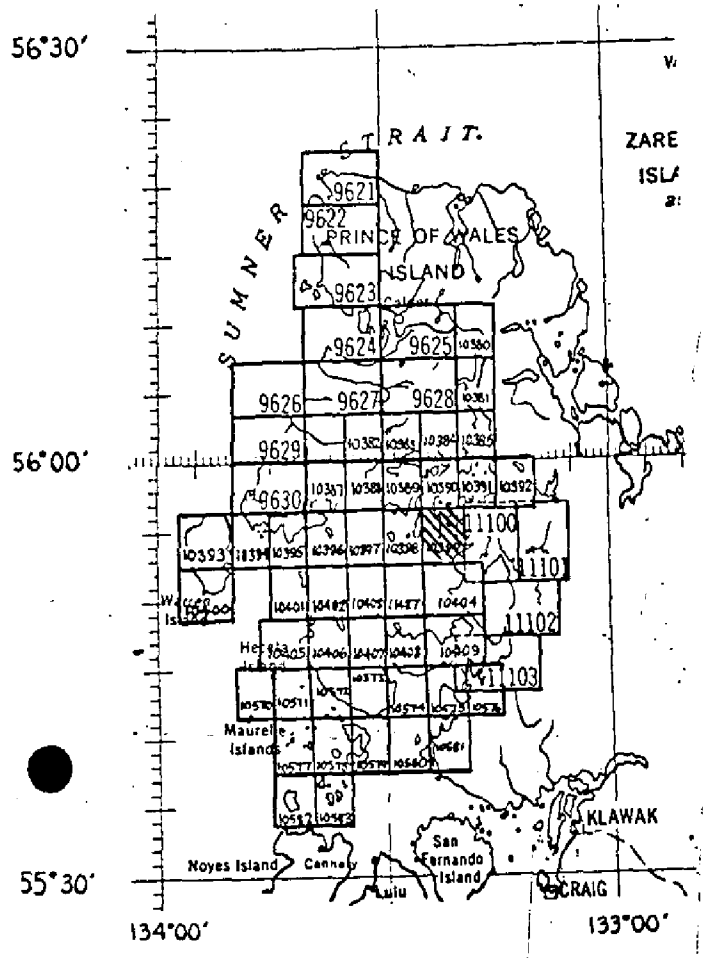
COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled (INCOMPLETE)	1956	SUPERSEDED
* Compiled (INCOMPLETE)	Feb. 1957	SUPERSEDED
Final Review	Jan. 1969	

*"ADVANCE" SOUTH OF 55°54'30" - REFER TO PAGE 6

SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska

5



Project Ph-87
Official Mileage for Cost Accounts

Sheet No.	Area Sq.Mi.	Lin. Mi. Shoreline
9621	12	10
9622	16	11
9623	15	7
9624	17	12
9625	21	11
9626	4	5
9627	15	15
9628	14	2
9629	5	6
9630	7	6
11100	32	16
11101	9	8
11102	18	10
11103	16	15
10380	6	4
10381	5	10
10382	8	2
10383	6	8
10384	7	5
10385	4	8
10386	9	1
10387	6	7
10388	3	6
10389	7	12
10390	6	16
10391	4	12
10392	8	7
10393	12	10
10394	2	4
10395	5	8
10396	2	4
10397	1	1
10398	3	5
10399	4	11
10400	6	8
10401	1	2
10402	2	3
10403	3	6
11427	1	1
10404	5	10
10405	2	2
10406	8	1
10407	8	2
10408	5	7
10409	10	10
10570	1	1
10571	1	1
10572	5	6
10573	6	2
10574	3	4
10575	2	2
10576	7	12
10577	1	1
10578	2	2
10579	4	6
10580	2	2
10581	12	9
10582	2	6
10583	2	5
TOTAL	432	378

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10399

Shoreline survey T-10399 is one of 58 similar surveys in project PH-87. It covers the area of El Capitan Passage from Hoot Island northward to San Island. See page 5 for the position of the survey within the project. The primary purpose of the survey was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

This manuscript was originally compiled as an Incomplete manuscript and was received in final review so labeled. Please refer to items 31 and 35 of the Compilation Report which is page 20 of this report. * see below In view of the data contained in the compilation report the Incomplete Manuscript classification has been retained on the manuscript and copies forwarded for record and registry.

Compilation was at 1:10,000 scale by graphic methods using the photography of August 1953 and September 1955. Photo-hydro support data consisting of a cronaflex copy, blue line tracing and ozalids of the manuscript along with specially prepared photographs were subesequently provided for preparation of the boat sheet, location of photo-hydro signals and field edit use.

The manuscript was a vinylite sheet 3 3/4 minutes in latitude by 5½ minutes in longitude which was smooth drafted and reproduced on cronaflex. One cronaflex positive and one negative are forwarded for record and registry.

* AVAILABLE RECORDS SEEM TO INDICATE THAT THE MAP IS "FINAL" SOUTH OF 55°54'30" AND "INCOMPLETE" NORTH OF THIS LATITUDE — EXCEPT FOR THE CYRUS COVE AREA (FIELD INSPECTION OR EDIT ACCOMPLISHED IN 1956 HAS BEEN APPLIED).

FIELD INSPECTION REPORT

FOR

DAVIDSON INLET, WHITE CLIFF PASSAGE,
SEA OTTER SOUND, AND EL CAPITAN PASS

1956 FIELD SEASON

MANUSCRIPTS NO'D. 10397 - 10399; 11427 - 10404; and 11100 (PART).

2. AREAL FIELD INSPECTION:

The area covered by this report lies along the northern part of Sea Otter Sound between the eastern shores of Davidson Inlet and the southern reaches of El Capitan Pass. It includes areas around White Cliff Passage, Cyprus Cove, etc..

There are no habitations within this area.

Densities and tones were not inspected on the land. In the water areas; shoals and kelp which were discernable, were noted on the photographs or boat sheets.

Photographic coverage was poor over large areas due to the elongated shadows and the varying densities of the photographic prints.

3. HORIZONTAL CONTROL:

White Cliff Passage and Hoot Island Rock navigational lights were located by triangulation. Hoot Island Light was also identified on the photographs.

4 & 5. Inapplicable.

6. WOODLAND COVER:

All land areas, with the exception of small logged off areas and muskeg, are covered with dense coniferous trees.

7. SHORELINE AND ALONGSHORE FEATURES:

(a). The shoreline was inspected from the beach at all photo-hydro stations and from the boat atlall other locations.

(b). The low water line corresponds with the offshore edge of the light color tone on alongshore and offshore shoal features.

(c). The foreshore consists of rock and boulders with a few areas of sand and gravel at the head of bights.

(d). No bluffs or cliffs are noteworthy other than White Cliff which is already noted on Chart 8171. All bluffs though unimportant to navigation have been noted on either manuscripts or photographs.

8. OFFSHORE FEATURES:

All apparent offshore features were visited and where it was possible landings were made. All visible rocks and shoals were defined on the field photographs and the heights or depths, times and dates pertaining to each feature were noted. All heights were estimated and all depths were measured.

All rocks not visible on the photographs were located by the hydrographer. All objects which were erroneously identified by the compilor were noted on the photographs and or on the manuscripts.

9. LANDMARKS AND AIDS:

The two fixed aids to navigation, which were located by triangulation are:

1. White Cliff Passage Light
2. Hoot Island Rock Light

10. INAPPLICABLE.

11. OTHER CONTROL:

Following this paragraph is the list of photo-hydro signals. The method used for their location is also given. The information necessary for the location of the signals is given on the back of the field photographs. Certain specified signals, on Manuscripts T-10399 and T-11100, must be replotted using photographs with centers that fall over the area. These

photographs were not available, thus it was necessary to locate these few signals by radial plot from distant photographs.

PHOTO HYDRO SIGNALS BY MANUSCRIPTS

NAME	METHOD LOCATED	NO. PHOTO	MANUSCRIPT NO.
AMY	Direct	41484	T-10397
ANT	"	"	"
BUS	"	"	"
CAR	"	"	"
DIX	Angle & Dist.	"	"
EMO	Direct	"	"
FRY	"	"	"
HOE	Angle & Dist.	"	"
RUT	Direct		
AHA	"	41519	T-10398
ALP	"	41520	"
ANN	Angle & Dist.	41487	"
AXE	Direct	41519	"
BAT	"	41488	"
BOX	"	"	"
BUM	"	41519	"
CRY	"	41488	"
CUR	"	41484	"
DIM	Angle & Dist.	41488	"
DON	Direct	41519	"
DOT	"	41488	"
ELM	"	"	"
ERA	Angle & Dist.	41519	"
FIL	Direct	41488	"
FAT	"	41519	"
FIX	"	"	"
FLY	Angle & Dist.	41488	"
FUN	Direct	41519	"
GAD	"	41484	"
GIG	"	41488	"
GOT	"	41519	"
GUS	"	41487	"
HAT	Angle & Dist.	41484	"
HIS	Direct	41519	"
HUB	"	41487	"
ICE	Angle & Dist.	"	"
ITS	Direct	"	"
JAR	"	41520	"
JAW	Angle & Dist.	41519	"
JIB	Direct	41488	"
JIM	"	41487	"
JOB	"	41488	"
KED	"	41488	"
LET	"	41487	"
LIP	"	41519	"
LOG	"	41488	"
LOW	"	"	"

NAME	METHOD LOCATED	NO. PHOTO	MANUSCRIPT NO.
LOU	Direct	41519	T-10398
MAW	"	"	"
MOP	"	41487	"
MUM	Angle & Dist.	"	"
NEO	Direct	41519	"
NEW	"	41520	"
NIX	Angle & Dist.	41487	"
NOW	Angle & Dist.	41488	"
OBI	"	41520	"
ODD	Direct	41487	"
OHM	Angle & Dist.	41519	"
PIT	Direct	"	"
RHO	Angle & Dist.	41488	"
RIM	Direct	41519	"
RUB	"	"	"
SAM	"	"	"
SET	"	"	"
SOW	"	"	"
THY	"	"	"
THE	Angle & Dist.	"	"
WAG	" " "	41518	"
WAR	" " "	41484	"
WAX	Direct	41518	"
WHO	"	41519	"
YAK	Angle & Dist.	41518	"
ZAM	Direct	"	"
ABE	Angle & Dist.	41520	T-10399
ACT	Direct	"	"
ART	"	52147	"
BAH	"	52164	"
BED	"	41520	"
BIB	"	"	"
BIG	Angle & Dist.	52146	"
BOB	Direct	"	"
CAT	"	41520	"
COP	"	52164	"
CUE	"	41519	"
DAW	"	52146	"
DAY	"	41520	"
DEB	Angle & Dist.	"	"
EST	" " "	"	"
FEW	" " "	"	"
GAL	Direct	"	"
GEE	"	"	"
GEL	"	52146	"
HAL	"	41519	"
HAW	"	41520	"
HID	"	41521	"
IDA	"	"	"
JOE	Angle & Dist.	"	"
KID	" " "	52147	"
KIM	" " "	41520	

NAME	METHOD LOCATED	NO. PHOTO	MANUSCRIPT NO.
LAD	Direct	41520	T-10399
LEG	"	52146	"
MAR	"	"	"
NED	"	52147	"
OWL	Angle & Dist.	"	"
REV	Direct	41521	"
SEW	"	52164	"
SLO	Angle & Dist.	52164	"
TEA	Direct	41519	"
WEN	"	41519	"
WOE	"	41520	"
ACE	"	52165	T-10404
ADO	"	52164	"
BAG	"	52078	"
BOA	"	"	"
CON	"	"	"
DIP	"	52165	"
EBB	Angle & Dist.	"	"
FEZ	Direct	52078	"
HUM	"	"	"
JAY	"	52165	"
JUT	"	52078	"
KEN	"	52165	"
LAX	"	"	"
MAL	"	"	"
NUT	Angle & Dist.	"	"
OIL	Direct	"	"
PAD	"	"	"
QUO	"	"	"
ROT	"	"	"
SIC	"	"	"
TAX	"	"	"
VIA	Angle & Dist.	"	"
WAS	Direct	"	"
YAK	Angle & Dist.	52164	"
ZOO	" " "	"	"
CAB	" " "	52147	T-11100-A
DIF	Direct	"	"
EAR	"	52164	"
EGG	"	52147	"
FAR	"	52164	"
FIT	"	"	"
GEM	"	52147	"
HER	"	"	"
JOY	"	"	"
BON	"	52035	T-11427
CLU	Angle & Dist.	"	"

12. INAPPLICABLE.

13. GEOGRAPHIC NAMES:

A special report on Geographic Names will be forwarded.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

Forwarded to the Director:

(1). Control Station Identification Cards forwarded 16 October via transmitting letter HDG-56-13.

(2). Nine Lens Office Photographs forwarded 16 October via transmitting letter HDG-56-13.

(3). Nine Lens Field Photographs forwarded 22 October via transmitting letter HDG-56-14.

(4). Blueline Tracings and Blackline Impressions forwarded via transmitting letter HDG-56-14.

(5). Tidal Data.

15. NOTES TO THE COMPILOR:

The shoreline as shown on these manuscripts was quite accurate except in the large and numerous shadowed areas. All shadowed shoreline was cut in by planetable or sextant angles and located on the photographs or manuscripts.

Numerous rocks must be inserted and a few deleted from the manuscripts. These were located on photographs and boat sheets.

No important jumps were noted in the sounding lines.

Respectfully submitted,

James P. Randall

James P. Randall,
Lt.(jg), USC&GS

Approved and forwarded:

Robert A. Earle

Robert A. Earle,
CDR, USC&GS
Comdg., Ship HODGSON

PRELIMINARY PHOTOGRAMMETRIC PLOT REPORT
Project 6087
Surveys T-10383 thru T-10385,
T-10389 thru T-10391,
T-10398, T-10399, T-11100,
and T-11427

NOTE: REFER TO PAGE 16-A FOR THE REPORT FOR THE FINAL PLOT.

21. AREA COVERED

This preliminary radial plot covers the area of the surveys listed above.

The geographic area encompassed by these shoreline surveys includes Tokeen Bay on the north, Davidson Inlet on the west, El Capitan Passage on the east, and Sea Otter Sound on the south.

22. METHOD - RADIAL PLOT

Map Manuscripts:
Vinylite sheets with polyconic projections in black and U.T.M. Alaska grid in red at a scale of 1:10,000 were furnished by the Washington Office.

All control stations and substitute stations were plotted using the meter bar and beam compass.

Base sheets were prepared in this office.

A sketch showing the layout of surveys and distribution of control and photograph centers is attached to this report.

Photographs:
There are forty-six (46) nine-lens, unmounted photographs at a scale of 1:10,000 used in this plot, numbered as follows:

41483 thru 41490
41514 thru 41521
41529 thru 41537
41594 thru 41602
41637 thru 41641
41648 thru 41652
52034 and 52035

Templets:
Vinylite templets were made for all the photographs using a master templet to correct for errors due to paper distortion and chamber displacement.

Closure and Adjustment to Control:
This radial plot is an extension to the east of the plot for surveys T-9629, T-9630, T-10328, T-10383, T-10388, T-10393 thru T-10396, T-10400, and T-10401. Although much dependence had to be placed on the office - identified control throughout the plot, it was possible to effect a

Closure and Adjustment to Control: (cont'd)

bridge from field-identified control on surveys T-10383 and T-10389 in the northwest to field-identified control on survey T-11100 in the southeast corner of the plot. This is a somewhat lengthy bridge and additional field-identified control is essential in order to ensure attaining the horizontal accuracy requirements, particularly on surveys T-10304 and T-10385.

A comparison between the radially plotted positions of the office-identified control and the geographic positions indicates that the probable horizontal error does not exceed 1.0 mm in the weakest portions of the plot.

Transfer of Points:

Each map manuscript was placed over the finished plot, oriented, and the positions of all pass points and photograph centers were then pricked on the manuscript.

Of these manuscripts, only surveys T-10383, T-10389, T-10398, and T-11427 were inked and passed on to the compilers. The pass points and photograph centers on the other surveys were not inked. Unless further instructions are received from the Washington office, these surveys numbered T-10304, T-10385, T-10386, T-10390, and T-10391 will not be inked or compiled until field identified control is available and the plot is relaid.

23. ADEQUACY OF CONTROL

This was a preliminary radial plot based for the most part on office-identified control. A layout on which is indicated the control stations which should be identified was submitted to the field party. With these stations identified, there should be adequate control for a final radial plot.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photographic coverage and definition of photographs used in this plot were good.

26. CONTROL STATION OFFICE NOTES

A cahier numbered "No. 2 of 2" containing a card for each office-identified station within the limits of this plot was submitted to the field party. These cards should aid the field man in recovering and identifying the triangulation stations. On each card is a sketch of the area near the probable location of the station, as well as photographic data and the published description.

25. CONTROL STATION OFFICE NOTES (cont'd)

The sketch on the card is generalized. A sketch made by the field man while at the station site is preferred.

Respectfully submitted
4 April 1956

E. L. Williams
Carto. (Photo.)

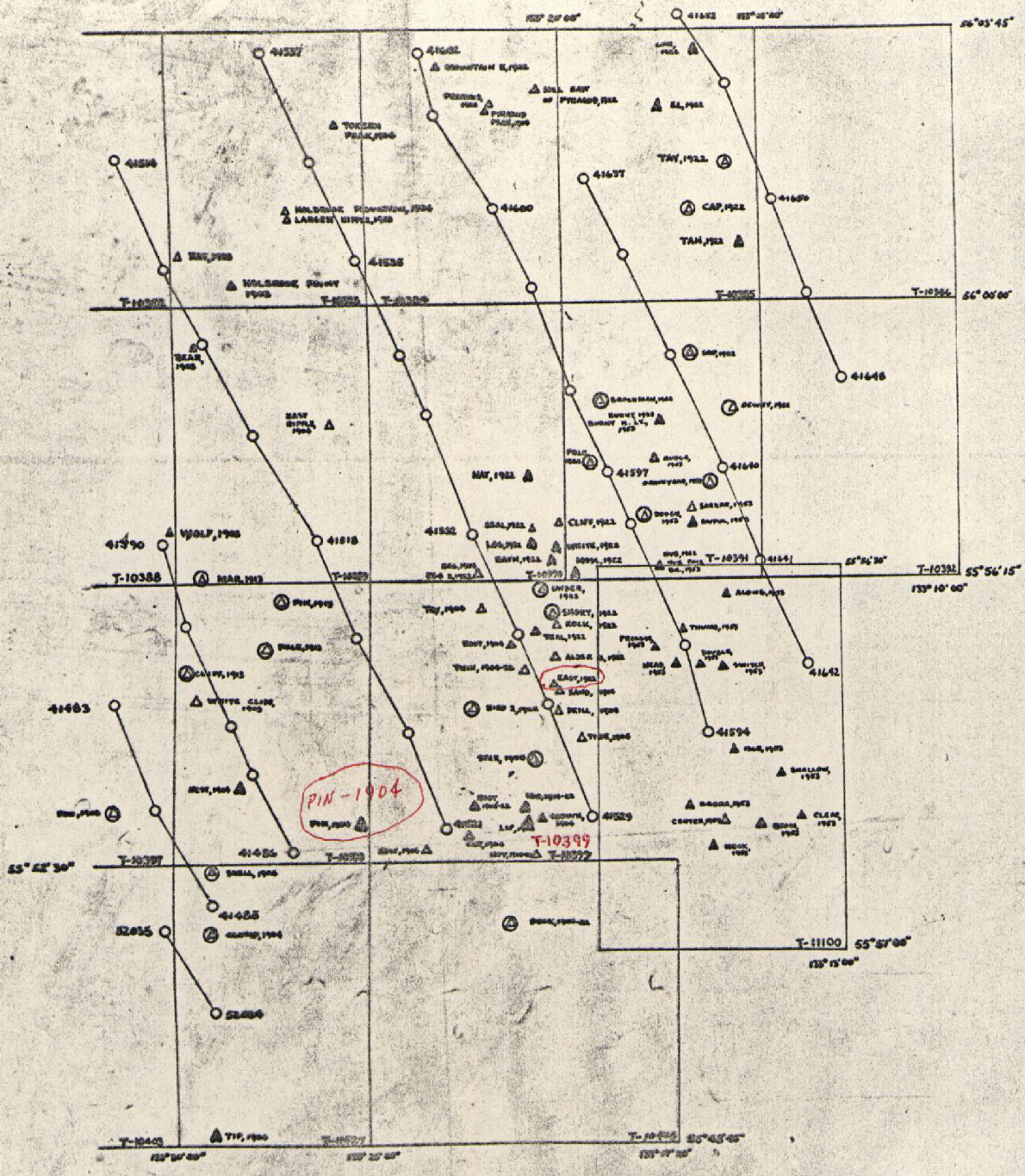
LAYOUT SKETCH

16

PROJECT 6087

SURVEYS: T-10385 thru T-10386
T-10389 thru T-10392
T-10398, T-10399, T-10404, T-11100
T-11427

the original of this sketch is included in the Descriptive Report for T-10391



16 A
- ~~15~~ -

SUPPLEMENTARY PHOTOGRAMMETRIC PLOT REPORT
PROJECT 27070
Surveys T-10397 thru T-10399
T-10404 & T-11427

This plot covers the east part of Davidson Inlet and parts of Sea Otter Sound and El Capitan Passage.

This plot was made to verify the Preliminary Radial plot.

The area between FOX, 1903 and CLUMP, 1904 moved between 0.6 and 0.7 mm to the southwest. The area between PIN, 1904 and EAST, 1922 moved between 0.5 and 0.6 mm to the southeast. * See below

Two field identified control stations could not be held in this plot. The radial plotted position for MID, 1904-22 (T-10399) falls 4.7 meters to the southwest. The radial plotted position for ROCK, 1922 (T-10399) falls 3.0 meters to the northeast. Both of these stations were identified direct in the field. No reason for this was discovered in this office due to lack of sufficient field information; so it was assumed they were misidentified.

Station FOX, 1904 caused considerable trouble. When the identification card was received from the field, the angle to the substitute point was missing. Following correspondence with the Seattle office, the information was finally located in geodetic records in the Washington office. When an attempt to hold the position of Sub. Pt. FOX, 1904 failed, a stereoscopic examination showed that the station was misidentified. The sub. pt., described as the highest point on the island, was identified on field photograph 41484 on a low rocky point. Using the description of the station and all available data on identification card and recovery note, it was decided that the original identification of the station used in the preliminary radial plot should be used. The station was held, and resulted in a good rigid plot with two other field identified stations: NEST, 1904 and SHELL, 1904.

* No sketch was found for this plot. Refer to the preliminary radial plot sketch (page 16) concerning the area affected.
JBB

Respectfully submitted
14 January 1957

Leroy A. Senasack

Leroy A. Senasack
Carto. Photo. Aid

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE — COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT — CONTROL RECORD

Ph-87

MAP T- 10399 PROJECT NO. ~~27078~~ SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
CUT, 1904	G-609 p.306	N.A. 1927	55 52 50.684				1567.6	(288.1)		
			133 22 42.095				731.8	(311.3)		
HOOT, 1904-22	G-609 p. 315	"	55 53 16.414				507.7	(1348.0)		
			133 22 27.510				478.2	(564.7)		
BIRD 2, 1922	G-609 p.315	"	55 54 18.478				571.5	(1284.2)		
			133 22 19.208				333.7	(708.8)		
TWIN 1904-22	G-609 p. 315	"	55 54 57.676				1793.8	(71.9)		
			133 21 20.501				356.1	(686.1)		
TRY, 1904	G-609 p. 308	"	55 55 48.84				1510.5	(345.2)		
			133 22 09.32				161.8	(880.0)		
UNDER, 1922	G-609 p. 314	"	55 56 09.615				297.4	(1558.3)		
			133 20 43.525				755.5	(286.1)		
ROCK, 1922	G-609 p. 314	"	55 55 44.439				1374.4	(481.3)		
			133 20 21.090				366.2	(675.7)		
SHORT, 1922	G-609 p. 314	"	55 55 56.388				1744.0	(111.7)		
			133 20 22.175				385.1	(656.6)		
ALDER 2, 1922	G-609 p. 315	"	55 55 13.560				419.4	(1436.3)		
			133 20 21.283				369.6	(672.5)		
TEAL, 1922	G-609 p. 314	"	55 55 39.660				1226.6	(629.1)		
			133 20 52.122				905.0	(136.9)		
EAST, 1922	G-609 p. 315	"	55 54 42.501				1314.5	(541.2)		
			133 20 29.192				507.2	(535.1)		
DRILL, 1904	G-609 p. 307	"	55 54 29.818				922.2	(933.5)		
			133 20 26.207				455.3	(587.1)		

1 FT. = .3048006 METER

COMPUTED BY J. E. Tolodziecki DATE 19 January 1956 CHECKED BY A. Queen DATE 20 January 1956

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10399 PROJECT NO. 27979/ Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
TIDE, 1904	G-609 p. 308	N.A. 1927	55 54 04.12			127.4 (1728.3)	
			133 20 01.52			26.4 (1016.2)	
STAR, 1904	G-609 p. 308	"	55 53 54.343			1680.7 (175.0)	
			133 21 08.386			145.7 (896.9)	
MID,1904-22	G-609 p. 315	"	55 53 18.324			566.7 (1289.0)	
			133 21 16.224			282.0 (760.9)	
MOUTH, 1904	G-609 p. 309	"	55 53 06.512			201.4 (1654.3)	
			133 20 57.542			1000.3 (42.7)	
HOT, 1904-22	G-609 p. 315	"	55 52 34.256			1059.5 (796.2)	
			133 21 00.461			8.0 (1035.2)	

1 FT. = .3048006 METER

COMPUTED BY J. E. Tolcdziecki DATE 19 January 1956 CHECKED BY A. Queen DATE 20 January 1956

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-10399 PROJECT NO. [redacted] Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Sub. Pt.		N.A. 1927	55 54			570.5 (1285.2)	
BIRD 2, 1922			133 22			338.4 (704.1)	
HOOT ISLAND	Field		55 53 36.189			1119.2 (736.5)	
ROCK LIGHT, 1956	Comp.		133 23 31.827			553.1 (490.7)	

1 FT. = .3048006 METER

COMPUTED BY: L. A. Senasack DATE 17 February 1956 CHECKED BY: A. Queen DATE 6 March 1956

COMM-DC-57843

COMPILATION REPORT
T-10399

The field inspection report is part of ~~the combined~~ this descriptive report for ~~T-10397 - 98 (1956)~~. Also see T-10385 (1957).

The photogrammetric plot reports covering this survey ~~is part of the descriptive report for T-10382 thru T-10384.~~ are included in this Descriptive Report.

31. DELINEATION

The manuscript was delineated by graphic methods. The vertical projector was used to adjust the scale of the photographs.

In areas where the shoreline was obscured by shadows or relief displacement, the HWL was shown with a broken line.

The manuscript was originally delineated by office interpretation and later corrected using field inspection obtained during the 1956 field season.

In the southern part of the survey, the shoreline was redelineated due to changes in the radial plot after new control identification was available.

32. CONTROL

The identification, density and placement of horizontal control is adequate.

33. SUPPLEMENTAL DATA

Copies of the following boat sheets were available:
H-8288 (HO 1356 and HO-1356 A)
H-8391 (HO 1357)

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

The shoreline along El Capitan Passage north of 55° 54' 30" is incomplete because photographs in this area containing 1957 field data were not received in the compilation office and are presumed lost. The shoreline in this area was delineated after careful stereoscopic examination of the office photographs and because of the lack of complete field data, the manuscript is classified INCOMPLETE.

The MHWL delineated on the black line impression by the 1956 field party fell inside the tree line in many places. The sextant fixes and office interpretation were used to delineate the shoreline in these areas.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

Form 567 has been submitted for Hoot Island Rock Light.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 have been submitted for nine recoverable topographic stations located during the 1957 season. PASS, 1922 was the only one of these for which field data was available and it is the only one shown on the manuscript.

Since hydrography in the area of this survey is reportedly completed, item 49 is omitted. However, a list of the above-mentioned stations is to be found in item 11 of the 1957 field report filed with the descriptive report for T-10385.

Thirty-seven photo-hydro signals were located in the area of this survey during the 1956 season.

These stations are listed in item 11 of the 1956 field report for T-10397 - 98.

Twenty-seven of these were relocated on the manuscript (after the 1956 season) due to changes in the radial plot. They are as follows:

ABE	DAY	KIM
ADO	DAW	LAD
ART	FEW	LEG
BAH	GAL	MAR
BED	GEL	NED
BIG	HID	OWL
BOB	IDA	REV
CAT	JOE	SEW
COP	KID	SLO

39. JUNCTIONS

Junctions have been made and are in agreement between this survey and the following:

T-10390 to the north
T-10398 to the west
T-11100-A to the east
T-10404 to the south

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

1. USGS Craig (D-5) Alaska quadrangle, scale 1:63,360, edition of 1951.

2. USGS Craig quadrangle, scale 1:250,000 edition of 1952.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8171, scale 1:40,000, edition of January 1956.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
20 February 1959

R. Glaser

R. Glaser
Carto. (Photo.)

Approved and forwarded

William F. Deane

William F. Deane,
CDR C&GS
Baltimore District Officer

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-87 (El Capitan Passage, Alaska)

T-10399

Cap Island

Cyrus Cove

Dot Island

El Capitan Island

El Capitan Passage

Fir Rock

Flat Islands

Hoot Island

Keski Island

Knob Island

Orr Island

Owl Island

San Island

Teal Island

Tuxekan Island

Twin Islands

Approved by:

A. Joseph Wraight
A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Frank W. Pickett
Cartographic Technician

FORM 182
(6-12-56)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

34

50-

PHOTOGRAMMETRIC OFFICE REVIEW

T- 10399

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

4a. Classification label ✓

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 ✓ 8. Bench marks X

9. Plotting of sextant fixes ✓ 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line X 14. Rocks, shoals, etc. ✓ 15. Bridges X 16. Aids to navigation ✓ 17. Landmarks X 18. Other alongshore physical features ✓ 19. Other alongshore cultural features X

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours X 23. Stereoscopic instrument contours X 24. Contours in general X 25. Spot elevations X 26. Other physical features X

CULTURAL FEATURES

27. Roads X 28. Buildings X 29. Railroads X 30. Other cultural features X

BOUNDARIES

31. Boundary lines X 32. Public land lines X

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay X 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓

40. P. Glaser
Reviewer

Joseph Steinberg
Supervisor, Review Section or Unit

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

43. Remarks: The field work accomplished in 1956, constituting an edit, was applied by the compiler. The 1957 field work was lost - not applied. The area north of 55°54'30" is "INCOMPLETE". JHB

COMM-DC 34529

RIEVIEW REPORT T-10399
SHORELINE
JANUARY 30, 1969

61. GENERAL STATEMENT:

See Summary which is page 6 of this report.

There is no field edit report or field edit sheet for this survey. Field edit evidently consisted only of correction to the shoreline in the area of Cap Island and Tuxekan Island in the southeast portion of the survey. REFER TO PAGE 6 (SUMMARY) AND ITEM 35, PAGE 20.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with copies of Registered Surveys No. 4052, a 1:10,000 scale survey made in 1923 and No. 2692, a 1:20,000 scale survey made in 1904. The passage of time has made survey 2692 obsolete. After correcting for the difference in datum surveys No. 4052 and T-10399 are in good agreement. The rocks shown on survey 4052 that are not visible on the photographs and are not shown on the hydrographic surveys have been indicated on the comparison print in blue.

63. COMPARISON WITH SURVEYS OF OTHER AGENCIES:

Comparison was made with USGS CRAIG (D-5) ALASKA, 1:63,360 scale 15 x 20 minute quadrangle, edition of 1951. The two surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of H-8288 and H-8391. The source of the shoreline for these surveys was T-10399 in the area covered by that survey. Therefore there are no discrepancies in the shoreline between the surveys.

Many of the rocks shown on the hydrographic surveys could not be identified on the photographs due to the high stage of the tide and large areas of kelp. The rocks, reefs and ledges not visible on the photographs have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 8171, 8th edition, June 10, 1968. The shoreline of the chart and survey T-10399 is in good agreement. The pier in Cyrus Cove near latitude 55° 54' 58" longitude 133° 24' 05" does not appear on the photographs nor is there any evidence of ruins in this area.

All rocks appearing on the chart that are not visible on the photographs because of the high stage of the tide or kelp, have been indicated on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with project instructions and meets the National Standards of Map Accuracy. (REFER TO PAGE 6, "SUMMARY".)

There were no field inspection photographs available at the time of final review. Office photographs 41519 thru 41521; 41529 thru 41531 and 52164 were used to review the survey during final review.

Approved by:

For Allen L. Powell, RADM USESSA
Director, Atlantic Marine Center

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

Chief, Photogrammetric Branch DHB

R H Houlster
Chief, Photogrammetry Division

Chief, Nautical Chart Division

Form 567
April 19

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

ALREADY CHARTED / ~~TO BE CHARTED~~ / ~~TO BE DELETED~~ — STRIKE OUT ONE

AIDS TO NAVIGATION Seattle, Wash. 28 Nov. 1956

~~I recommend that the following objects which have (not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.~~

The positions given have been checked after listing by Lt. (jg) James P. Randall

Robert A. Earle
CDR USC&GS
Chief of Party.

STATE: S. E. ALASKA

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	POSITION LATITUDE* ″ D.S. METERS	POSITION LONGITUDE* ° ′	POSITION LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	COASTAL CHART	OFFSHORE CHART	CHARTS AFFECTED
	Hoot Island Rock Light, 1956		55 53	1119.2	133 23	553.1	NA 1927	T-10399 Triang.	9/56		x		8171
	Above listed "aids to Navigation" were located by triangulation by the Ship HODGSON. No other fixed aids exist in the area surveyed.												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

Comm-DC 28356