

10387

ORIGINAL

10387

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	SHORELINE (PHOTOGRAMMETRIC)
Field No.	Office No. T-10387
LOCALITY	
State	ALASKA
General locality	DAVIDSON INLET
Locality	EDNA BAY
1953 19-57 1956	
CHIEF OF PARTY	
Robert A. Earle, Chief of Field Party	
Wm. F. Deane, Baltimore District Officer	
LIBRARY & ARCHIVES	
DATE	

USCOMM-DC 5087

DESCRIPTIVE REPORT - DATA RECORD

T - 10387

PROJECT NO. (II): PH-87		
FIELD OFFICE (III): USC&GS Ship LESTER JONES USC&GS Ship HODGSON		CHIEF OF PARTY G.A. Nelson R.A. Earle
PHOTOGRAMMETRIC OFFICE (III): Baltimore, Maryland		OFFICER-IN-CHARGE E.H. Kirsch W.F. Deane
INSTRUCTIONS DATED (II) (III): Field: 3 June 1953 28 Dec. 1953 23 Dec. 1954 25 Jan. 1955 Office: 17 Dec. 1953 7 Nov. 1955 13 Nov. 1956 23 Nov. 1956		
METHOD OF COMPILATION (III): GRAPHIC		
MANUSCRIPT SCALE (III): 1:10,000		STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
DATE RECEIVED IN WASHINGTON OFFICE (IV):		DATE REPORTED TO NAUTICAL CHART BRANCH (IV):
APPLIED TO CHART NO.	DATE:	DATE REGISTERED (IV):
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 or mean lower low water
REFERENCE STATION (III): DARTS, 1946		
LAT.: 55° 57' 19.316"	LONG.: 133° 37' 19.345"	<input checked="" type="checkbox"/> ADJUSTED <input type="checkbox"/> UNADJUSTED
PLANE COORDINATES (IV): X =		STATE Alaska
		ZONE 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.		

DESCRIPTIVE REPORT - DATA RECORD

T-10387

FIELD INSPECTION BY (II): P.A. Stark, C.W. Clark J.P. Randall, A.M. Legako		DATE: 1955 1956
MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION): Office interpretation of 1953 photography verified by 1956 field inspection.		
PROJECTION AND GRIDS RULED BY (IV): A. Riley		DATE Nov. 29, 1955
PROJECTION AND GRIDS CHECKED BY (IV): A. Riley		DATE Nov. 29, 1955
CONTROL PLOTTED BY (III): F.M. Wisiecki		DATE Jan. 17, 1956
CONTROL CHECKED BY (III): L.A. Senasack		DATE Jan. 23, 1956
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III): E.L. Williams		DATE Feb. 16, 1956
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III): B. Wilson J.Y. Councill		DATE Jan. 18, 1957
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III): R. Glaser		DATE Jan. 23, 1957
REMARKS: NO REFERENCE TO PHOTOGRAPHY		

FORM C&GS-181c
(3-66)U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T-10387

CAMERA (KIND OR SOURCE) (III):

Nine-lens camera

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
41452 thru 41455	8-27-53	1000	1:10,000	6.1' above MLLW
41481	8-27-53	1029	1:10,000	6.9' above MLLW
41687	8-27-53	1346	//	7.5' above MLLW

TIDE (III)

FROM PREDICTED TIDES

	RATIO OF RANGES	MEAN RANGE	SPRING RANGE
REFERENCE STATION: Sitka, Alaska		7.7	9.9
COORDINATE STATION: Edna Bay	1.1	8.6	10.8
SUBORDINATE STATION:			

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

DATE: Oct. 1968

PROOF EDIT BY (IV):

DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II): 10

RECOVERED: 10

IDENTIFIED: 7

NUMBER OF BM(S) SEARCHED FOR (II): 0

RECOVERED: 0

IDENTIFIED: 0

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III): 0

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III): 0

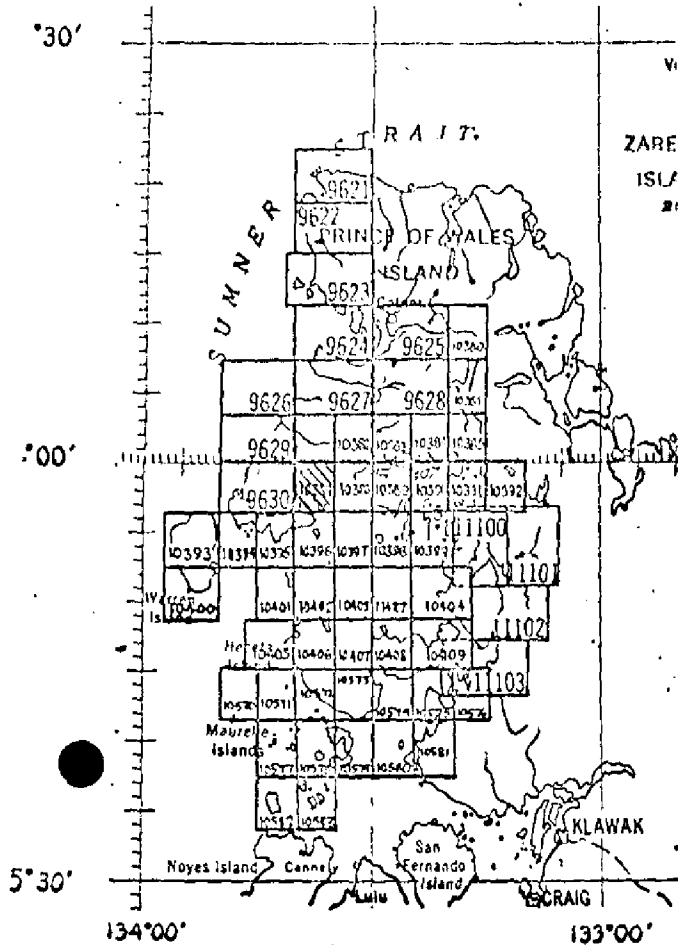
REMARKS:

T-10387

COMPILATION RECORD	COMPLETION DATE	REMARKS
COMPILED (INCOMPLETE) Compiled (ADVANCE)	1956 Jan. 1957	SUPERSEDED 1'
Final Review	Nov. 1968	

SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska



Project Ph-87 Official Mileage for Cost Accounts

Sheet No.	Area Sq. Mi.	Lin. Mi. Shoreline
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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	1
10576	7	2
10577	1	1
10578	2	2
10579	1	6
10580	2	2
10581	12	9
10582	2	6
10583	2	5

TOTAL 412 378

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10387

Shoreline survey T-10387 is one of 58 similar surveys in project PH-87. It covers the greater part of the shoreline of Edna Bay and part of the shoreline of Davidson Inlet. See page 5 of this report for the position of the survey within the project. The primary purpose of the project was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

This survey was originally compiled as an incomplete manuscript. In 1956 field inspection was accomplished, the manuscript was then corrected from the field inspection notes and classified Advance.

Compilation was at 1:10,000 scale by graphic methods using the nine-lens photography of August 1953. A cronaflex copy of the manuscript along with a blueline tracing, ozalid copies and specially prepared photographs were subsequently furnished for preparation of the boat sheet, field edit use and location of photo-hydro signals.

The manuscript is a vinylite sheet $3 \frac{3}{4}$ minutes in latitude by 5 minutes in longitude which was smooth drafted and reproduced on cronaflex. One cronaflex positive and one negative are provided for record and registry.

FIELD INSPECTION REPORT

FOR

DAVIDSON INLET, TOKEEN BAY

AND

MARBLE PASSAGE

1956 FIELD SEASON

MANUSCRIPTS 10382 to 10384 and 10387 to 10390 (Part)

2. AREAL FIELD INSPECTION:

The area covered by this report lies east and south of Kosciusko Island between Edna Bay and the east end of Tokeen Bay and includes those shore and water areas that surround Marble Island.

Rock outcroppings are in general highly metamorphised limestone and shales. The limestone outcrops are distinguished by numerous solution holes which give them a pocked appearance, while the shales have maintained their stratification.

A black scale covers all alongshore rock outcroppings and boulders, that are exposed at high water. This scale varies in width according to the slope but is remarkably consistent in vertical span, beginning, as it does, approximately at the high water line and extending to an elevation of from four to six feet above it.

The "Falls Creek Lumber Company" at Edna Bay is the only occupied settlement within the area covered by this report.

The "Alcoa Mining Company" camp on the north shore of Edna Bay has been abandoned and is in ruins.

The Tokeen and Missionary Quarries on Marble Island, are completely destroyed. Two buildings, near collapse, remain standing at Tokeen and none at Missionary. There is a small trappers cabin directly across from Missionary Quarry.

In the water areas, shoals and kelp, which were generally easily discernable, were noted on photographs.

Photographic coverage was poor over some area due to elongated shadows and to the varying density of the photographic prints.

3. HORIZONTAL CONTROL:

d. Station WOLF 1903 was not reidentified as the time required for the establishment of a new sub station in an area adequately covered by more readily identified stations, was deemed unwarranted.

4 & 5. Inapplicable.

6. WOODLAND COVER:

Large lumbering operations on Kosciusko Island have left large patches, covered with low brush, in the coniferous forest. Other open areas are muskeg.

7. SHORELINE AND ALONGSHORE FEATURES:

- a. The shoreline was inspected from the beach at all photo-hydro signals and from the boat at all 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.
- e. The floating pier and pipeline of the "Falls Creek Lumber Company" in Edna Bay was located and redrawn on the manuscript.

The inshore end of the Alcoa pier on the north side of Edna Bay has collapsed. This was noted on the manuscript.

Only onshore ^{remains} vestigial remains could be found of piles and piers around Token; Marble Passage - Preliminary, Review Number 5; and Holbrook Arm - Preliminary Review Number 6.

8. OFFSHORE FEATURES:

All apparent offshore features were visited, and where it was feasible landings were made. All foul and kelp areas were delineated on the field photographs. Visible rocks were located and their heights or depths, times and dates or reference to MLLW, were noted. All heights were estimated and depths measured.

Many rocks which were not visible on the photographs, were located by the hydrographer. A few floating kelp patches were mistakenly identified by the compilers as growing. There were also a few instances of floating debris being mistaken for rocks.

9. LANDMARKS AND AIDS:

The two fixed and one floating aid to navigation in this area are:

1. Edna Bay Entrance Light
2. Edna Bay Inner Light
3. Edna Bay Buoy Number 2

10. Inapplicable.

11. OTHER CONTROL:

Following this paragraph is a list of photo-hydro signals and marked photo-topo stations. The method used for their location is also given. The information necessary for the location of signals is shown on the back of the photographs. All marked photo-topo stations are denoted by the year (1956).

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
FOG	Photo direct	41492	T-10382
GAS	" "	41515	"
ANN	Angle & dist.	41535	T-10383
BED	Photo direct	"	"
CAR	" "	"	"
DIG	" "	"	"
HEX	" "	41515	"
INK	" "	"	"
JUT	" "	"	"

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NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
LEO	Angle & Dist.	41514	T-10383
MAL	" " "	"	"
NAG	Photo direct	41536	"
OLD	" "	"	"
PAL	" "	41514	"
ROC	" "	"	"
SID	" "	"	"
TIM	" "	41515	"
TUB	" "	"	"
UNA	" "	"	"
VAL	" "	"	"
WAX	" "	41535	"
ZAG	" "	"	"
ACE	" "	41599	T-10384
AIM	" "	41600	"
BIG	Angle & Dist.	41534	"
CAB	Photo direct	41600	"
DIP	Angle & Dist.	"	"
EBB	Photo direct	41535	"
EEL	" "	41600	"
END	" "	41599	"
FEW	" "	41600	"
GAD	" "	41535	"
GAL	" "	41600	"
HER	" "	41535	"
HUG	" "	41534	"
IVY	" "	41600	"
JAP	Angle & Dist.	"	"
JOE	Photo direct	41534	"
JOY	Angle & Dist.	"	"
KIME 1956	Photo direct	41535	"
LAM	" "	41534	"
LAY	" "	41600	"
MAG	" "	41534	"
MAN	" "	41600	"
NAT	" "	41535	"
OIL	Angle & Dist.	"	"
RAG	Photo direct	41600	"
RID	" "	41599	"
SAY	" "	41600	"
SIS	Angle & Dist.	"	"
TAN	Photo direct	"	"
TRY	" "	"	"
VEX	Angle & Dist.	"	"
WOO	" " "	"	"
ZOO	Photo direct	"	"
ANN	Photo direct	41452	T-10387
BED	" "	"	"
FAT	" "	41481	"
OWL	" "	41487	"
PYL	" "	41452	"
RAN	" "	41687	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
SAD	Photo direct	41687	T-10387
TOP	" "	"	"
VAN	" "	41451	"
WET	" "	41452	"
YES	" "	"	"
ABE	" "	41492	T-10388
AVA	" "	41482	"
BOG	" "	"	"
BUT	Angle & Dist.	41492	"
CAT	" " "	"	"
DOG	Photo direct	"	"
EGG	" "	"	"
FIE	" "	41490	"
TRI	" "	41687	"
VET	" "	"	"
VON	" "	"	"
WAS	" "	"	"
WAT 1956	" "	41482	"
ZIP	" "	41687	"
AGO	Angle & Dist.	41519	T-10389
ALL	" " "	41516	"
ARM	" " "	41518	"
BEN	Photo direct	41516	"
COO	Photo direct	"	"
CON	" "	41518	"
CUE	" "	"	"
DAY	" "	41491	"
DIF	" "	41519	"
EAR	Angle & Dist.	41490	"
EGO	Photo direct	41518	"
ELF	" "	41516	"
FEE	" "	41490	"
GAG	" "	"	"
GEL	" "	41518	"
HAM	" "	41490	"
HID	" "	41518	"
ICE	" "	41490	"
ION	" "	"	"
ISI	Angle & Dist.	41533	"
JOK	Photo direct	41490	"
JON	" "	41518	"
KEN	" "	41489	"
LAD	" "	41490	"
LEG	" "	41518	"
LUX	" "	41534	"
MAR	Angle & Dist.	"	"
MOO	" " "	41490	"
NEO	Photo direct	41518	"
NIG	" "	41489	"
NIP	" "	41534	"
NOT	Angle & Dist.	41516	"
NOV	Photo direct	41491	"
OAK	" "	41518	"
ORA	" "	41876	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
PAD	Photo direct	41518	T-10389
PIX	" "	41533	"
POT	" "	41518	"
PUP	" "	41535	"
QUO	" "	41518	"
RAT	" "	41535	"
ROC	" "	41518	"
ROT	" "	"	"
ROY	" "	"	"
RUM	" "	"	"
SAD	" "	"	"
SAL	" "	41535	"
SAX	" "	41516	"
SKY	Angle & Dist.	41489	"
SLY	Photo direct	41518	"
SUB	" "	"	"
TAP	" "	"	"
TOM	" "	"	"
TOY	" "	41535	"
VAN	Angle & Dist.	41518	"
VET	" " "	"	"
VIA	Photo direct	41516	"
WAD	" "	"	"
WAS	" "	"	"
YAM	" "	41519	"
YES	" "	41516	"
ZIG	Angle & Dist.	"	"
ADD	Photo direct	41534	T-10390
ADO	" "	41533	"
AMP	" "	"	"
BAG	" "	"	"
BAH	" "	"	"
BLU	" "	"	"
BOA	" "	"	"
BOB	" "	"	"
BRA	" "	"	"
CAM	" "	"	"
COD	Angle & Dist.	"	"
DAW	Photo direct	"	"
DIM	Angle & Dist.	"	"
DIX	Photo direct	"	"
DRY	" "	"	"
DUD	" "	41534	"
EAT	" "	41533	"
EVA	" "	"	"
FIG	" "	41599	"
FOR	" "	41533	"
GAM	" "	"	"
GEO	" "	"	"
GIN	Angle & Dist.	"	"
GUM	Photo direct	"	"
HEM	" "	"	"
HOE	" "	"	"
HON	" "	"	"
IDA	" "	"	"
IRK	" "	"	"

<u>NAME</u>	<u>METHOD LOCATED</u>	<u>PHOTO NO.</u>	<u>MANUSCRIPT NO.</u>
JAY	Photo direct	41533	T-10390
JUG	" "	"	"
KID	" "	"	"
LOP	" "	"	"
LUG	" "	"	"
MAX	Angle & Dist.	"	"
MID	Photo direct	"	"
MUG	Angle & Dist.	"	"
NIX	Photo direct	41534	"
NUT	Angle & Dist.	41533	"
ORB	" " "	"	"
OUT	Photo direct	41534	"
OWL	" "	"	"
PIE	Angle & Dist.	"	"
PIN	" " "	41599	"
RAM	Photo direct	41534	"
RIG	" "	41599	"
SHE	" "	"	"
SKI	" "	41533	"
TAX	" "	"	"
VAL	" "	"	"
WED	" "	41599	"
WEE	" "	41534	"
WET	" "	41533	"
WIT	" "	41534	"
YOU	" "	41533	"

12. Inapplicable.

13. GEOGRAPHIC NAMES:

A special report on Geographic Names will be forwarded.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

a. To be forwarded at a later date:

1. Hydrographic Sheets HO-1256; HO-1456; HO-1556.
2. Hydrographic Descriptive Reports HO-1256; HO-1456; HO-1556.

b. Forwarded to Director:

1. Control Station and Topographic station Identification Cards forwarded 16 Oct. 1956 via transmitting letter HDG-56-13.
2. Blackline and Blue-line Manuscripts - forwarded 16 Oct. via transmitting letter HDG-56-13.
3. Nine Lens Office Photographs - forwarded 16 Oct. 1956 via transmitting letter HDG-56-13.

4. Nine Lens Field Photographs - forwarded 22 Oct. 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 either cut in by planetable or by sextant angles and located on the photographs or the manuscripts.

Numerous rocks must be inserted and a few deleted from the manuscripts. These are 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

#15

PHOTOGRAMMETRIC PLOT REPORT
Project 6087
Surveys T-9629, T-9630, T-10382,
T-10387, T-10388, T-10393
thru T-10396, T-10400 and
T-10401

~~Refer to page~~
~~6087~~

21. AREA COVERED

This radial plot covers the area of the surveys listed above except for the southeast corner of Survey T-10388 for which positions of pass points will be established after this plot is extended to the south and east.

In order to insure a junction with future plots, this plot was extended to reach control on surveys T-10402, T-10383, T-10389, T-10397, and T-10398.

The geographic area covered by these shoreline surveys encompasses the western and southern shorelines of Kosciusko Island from Ruins Point at the north to Tokeen Bay to the east. The islands just off these shores as well as Warren Island are included in the area.

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 for all surveys except T-9629 and T-9630. These two surveys had only the polyconic projection in black.

Base sheets were prepared in this office.

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

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

Photographs:

All photographs used were nine-lens unmounted photographs at a scale of 1:10,000.

The sixty (60) photographs used in this plot, numbered as follows:

41298 thru 41319
41325 thru 41332
41374 thru 41377
41441 thru 41455

41480 and 41481
41687
41483 and 41484
41489 thru 41493
41514 thru 41518

Templets:

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

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control:

The radial plot was constructed on vinylite base sheets. Because no grid lines were ruled on manuscripts T-9629 and T-9630, some intersections of the polyconic projections were transferred to the base sheets. These common intersections were held in order to transfer the control. Control from the other map manuscripts was transferred to the base sheets by holding the grid lines.

The radial plot was laid starting with templets numbered 41474 thru 41477, the positions of which were already established on manuscript T-9626. No attempt was made to continue this flight of photographs from number 41477 southeasterly to photograph number 41481 at Davidson Inlet. The high elevations in the interior coupled with tilted photographs and conjugate centers lost in the thick, high trees would not lead to a rigid plot. The position for the center of photograph 41444 was not shown on the manuscript, chiefly because the photograph was not needed for compiling the necessary shoreline manuscripts and to some extent because the position might be weak.

After flight 41325 thru 41332 was laid, flights 41312 thru 41319, and 41305 thru 41311 were laid all holding to the identified control, where available. Flight 41298 thru 41304 along the west shore of Warren Island was the last flight laid on the western limits of this plot. This flight had no field identified control and was governed solely by control identified in this office from descriptions and by a few common pass points from flight 41305 thru 41311 to the east.

After the western portion of the plot was completed, the plot was extended to the east. Flight 41449 thru 41455, which was well controlled was laid first. In the next flight to the east, 41430 thru 41484, photograph 41482 was not included because of heavy clouds. Photograph 41687 was substituted. Because the substitute point for WOLF, 1903 was visible on only one photograph, the flight had to be extended south to FOX, 1903 which was office identified.

Flight 41489 thru 41492 was held to field identified control on the north end and to office identified control (MAR, 1913) on the south end of this flight.

Flight 41514 thru 41517 was laid last and held to field identified control stations PINK, 1903 and HOLBROOK PT.

A satisfactory plot was obtained and all of the shoreline on the surveys covered by this plot is well controlled, except for the western tip of Marble Island on survey T-10388, and the islands in the southern part of survey T-10395. It is felt that other plots to be laid as extensions of this plot will materially strengthen these areas.

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control: (cont'd)

Although a satisfactory plot was obtained, it should be stated, however, that pass points in the interior, where extreme elevation would almost certainly cause difficulty with the intersections due to tilt, were avoided and only a few points on lakes and other less elevated features were selected as interior pass points. To offset this departure from established procedure, many more pass points along the shoreline than normally are used to lay a radial plot were selected. In most cases the shoreline pass points are about $2\frac{1}{2}$ inches apart. This method seemed to give a tighter plot with apparently much less adjustment needed. This considerably lessened the time spent in actually laying the plot.

Transfer of Points:

The map manuscripts were placed over the finished plot, oriented, and the position of all pass points and photograph centers then pricked on the manuscript.

23. ADEQUACY OF CONTROL

There was adequate control for a satisfactory radial plot for surveys T-9629, T-9630, T-10382, T-10387, and T-10394.

Substitute point WOLF, 1903 on survey T-10388 was not satisfactory in that the point selected in the field was visible on only one photograph. It is recommended that a new substitute station at or near the pass point pricked on photograph 41490 about 200 meters south of the station be established. An additional substitute station at MAR, 1913 would strengthen the plot in the area.

Of all the control identified in the field only sub pt. QUARTZ, 1903 could not be held in the plot. The radially plotted position is 1.3 mm northwest of the plotted position of the substitute station. It is possible that a ten (10) meter error was made in the measured distance. However, the identification of the nearest stations (STRAW, 1903 and BLACK, 1903) is thought to be weak, and it is quite possible QUARTZ, 1903 should have been held and the other stations let go. This could not be done at this time because they are the last stations identified at the southern end of the plot. If possible, SLAT, 1903 just to the east of QUARTZ, 1903 should be identified.

EDNA BUOY 2, 1946 was identified in this office. The radially plotted position is 0.8 mm. SE of the plotted position. It is assumed that the buoy has been shifted in position since 1946.

Additional control is needed in the southern portions of surveys T-10395 and T-10396. This is especially important because of the questionable identification of STRAW, 1903.

23. ADEQUACY OF CONTROL

The following stations in survey T-10395, should be identified: FAKE, 1903; and SLAT, 1903. The substitute station selected for STRAW, 1903 is not a good point, and if possible, another substitute station obtained there would help in relaying the plot for surveys T-10401 thru T-10403. For the same reason station ROUND, 1903 on survey T-10396 should also be identified.

For the two manuscripts (T-10393 and T-10400) covering Warren Island, almost all of the shoreline stations should be identified. The office identification of CAY, HIGH ROCK, 1922 is felt to be adequate; however, field identification would be desirable. Identification of any of the triangulation stations located on the many peaks in the interior of Warren Island is thought to be unnecessary for these shoreline surveys.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photographic coverage and definition of photographs used in the plot were good. There were many clouds in the flight 41480 thru 41484, but photograph 41687 was used instead of 41482, to provide adequate coverage.

26. CONTROL STATION OFFICE NOTES

In order to clarify the situation in regard to control identification, "Control Station Office Note" cards are being submitted by this office for each office-identified station. On each card is a sketch of the area taken from the photograph showing the relative position of the pass point obtained in the radial plot to the apparent position on the photograph of the station. Also, a description cut from the published lists of descriptions is pasted to the card. It is felt this card should be of help to the field man in recovering and in identifying the triangulation stations. The sketch on this card is in most cases, quite generalized and a sketch made while the field man is actually at the station site showing the area in detail as it appears on the ground is much to be preferred.

Respectfully submitted
16 February 1956

E. L. Williams
E. L. Williams
Carto. (Photo.)

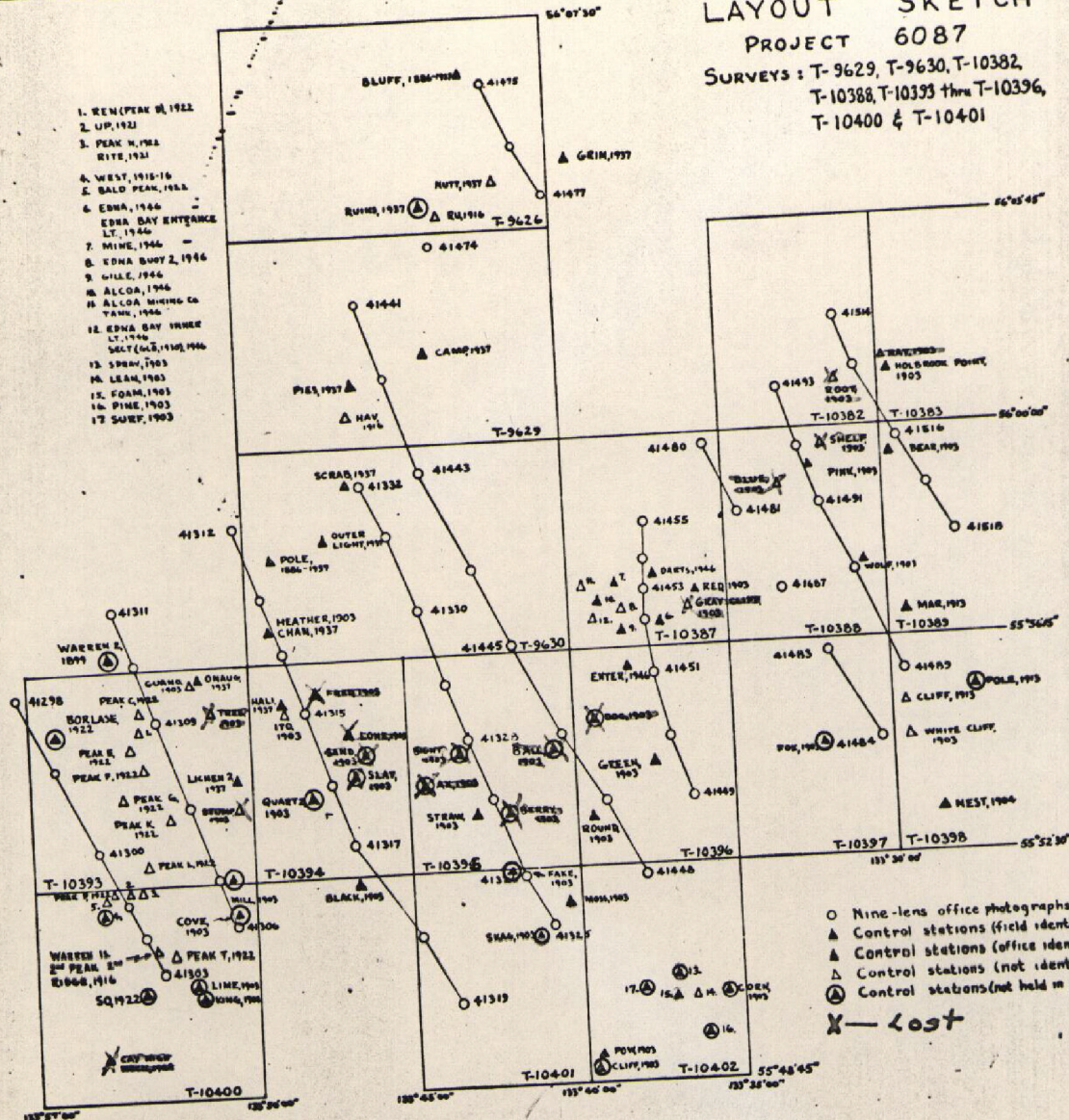
PAGE 19 WAS REMOVED - INAPPLICABLE

20
22

REFER TO THE DESCRIPTIVE REPORT
FOR T-10394 FOR A BETTER
COPY OF SKETCH

LAYOUT SKETCH PROJECT 6087

SURVEYS: T-9629, T-9630, T-10382,
T-10388, T-10393 thru T-10396,
T-10400 & T-10401



- Nine-lens office photographs
- △ Control stations (field ident)
- △ Control stations (office ident)
- △ Control stations (not ident)
- △ Control stations (not held in plot)
- X - Lost

MAP T. 10387

PROJECT NO. 27070

SCALE OF MAP..... 1:10,000

SCALE FACTOR

[illegible]

1 FT. = 3048006 MICR
COMPUTED BY: B. Kurs

DATE 11/28/55

CHECKED BY: F. M. Wisiecki

DATE 11/30/55

COMM-DC-57842

MAP T- 10387

PROJECT NO. 27070

SCALE OF MAP:

1:10,000

SCALE FACTOR

[illegible]

1 FT. = 3048006 METER
COMPUTED BY: A.

Queen

DATE 12/13/55

CHECKED BY: E. L. Williams

DATE.....12/21/55

COMAM-DC-57843

- 22 - 23

COMPILATION REPORT
Surveys T-10387 thru T-10389

Field Inspection Reports:

1. Maps T-9623 through T-9630, combined operations - USC&GS Ship LESTER JONES, Project 1347 (Ph-87), G. A. Nelson, Commanding Officer. (See Descriptive Report, Survey T-9624.)
2. Maps T-10382 to T-10384 and T-10387 to T-10390 (part). (See ~~this~~ Descriptive Report, Surveys T-10382 through T-10384.)

Photogrammetric Plot Reports:

1. See ~~4715~~ Descriptive Report, Surveys T-10394 through 10396.
 - ~~2. See Descriptive Report, Surveys T-10382 through 10384.~~
31. DELINEATION

These manuscripts were delineated by graphic methods. In areas where the shoreline was obscured by shadows or relief displacement, the shoreline was shown with a broken line where field delineation was not furnished.

32. CONTROL

Refer to the Photogrammetric Plot Reports.

33. SUPPLEMENTAL DATA

Copies of the following surveys were available for purposes of comparison:

CS-369(1946), scale 1:20,000.
T-7023 a and b (1946), scale 1:5,000.
T-7024(1946), scale 1:5,000
Boat sheet H-8287 (HO 1256)
" " H-8289 (HO 1456)
" " H-8290 (HO 1556)

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.
Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

These manuscripts were delineated by office interpretation and corrected using field inspection obtained during the 1956 season.

The stages of tide at the time of photography were computed to be near high tide. The edge of the water was delineated as the shoreline. No low water line could be delineated except where furnished by field inspection. All the ledge areas visible on the photographs were delineated.

- 15 - 24

The alongshore details at Edna Bay (T-10387) were delineated by the field party on the blackline impression.

36. OFFSHORE DETAILS

The photographs are at too high a stage of tide to show many of the offshore details in Edna Bay (T-10387) delineated on surveys T-7023 a and b (1946) and T-7024 (1946).

Field inspection of the present condition of the piles and dolphins in Edna Bay was furnished by the field party on the blackline impression for survey T-10387.

Most of the delineation of the foul lines was furnished by the field party.

37. LANDMARKS AND AIDS

Refer to paragraph 9 of the field report. No Forms 567 were available in the compilation office for these aids in Edna Bay.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are submitted for two recoverable topographic stations on survey T-10388.

Refer to item 11 of the field report for a list of the photo-hydro signals located on the blackline impressions of these manuscripts.

39. JUNCTIONS

Junctions with adjacent surveys in this project have been made.

40. HORIZONTAL AND VERTICAL ACCURACY

The horizontal accuracy of the positions of details was verified by identification of station MAR, 1913. The positions were found to be within 0.3 mm of their correct positions.

25
- 14 -
41 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the U.S.G.S. Craig quadrangle, scale 1:250,000, edition of 1952.

Surveys T-7023 a and b (1946) and T-7024 (1946), scale 1:5,000 show more offshore details in Edna Bay than are visible on the photographs.

47. COMPARISON WITH CHARTS

Comparison was made with the following charts:

Number	Scale	Edition	Corrected to:
8163	1:5,000	Nov. 1947	10/8/55
8171	1:40,000	Jan. 1956	—

Items to be applied to nautical charts immediately: None.

Items to be carried forward: No field information was furnished on the overhead cable crossing charted at Edna Bay (chart 8163). See also Notice to Mariners No. 42, 1955 - item 4743.

Respectfully submitted
14 January 1957

Joseph W. Vonasek
Joseph W. Vonasek
Cartographer (Photo.)

Approved and forwarded

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-87 (Sumner Strait, Alaska)

T-10387

Charley Creek

Davidson Inlet

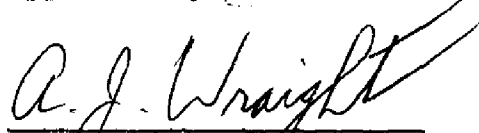
Edna Bay (Town)

Edna Bay

Kosciusko Island

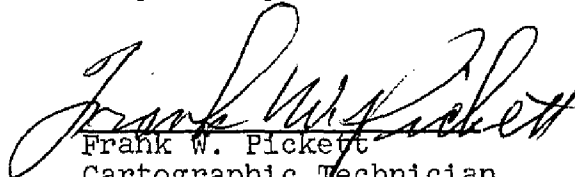
Limestone Point

Approved by:



A. Joseph Wraight
Chief Geographer

Prepared by:



Frank W. Pickett
Cartographic Technician

PHOTOGRAMMETRIC OFFICE REVIEW

T-10387, T-10388, T-10389

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

5a. 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
- ☒
9. Plotting of sextant fixes
- ☒
10. Photogrammetric plot report
- ☒
11. Detail points
- ☒

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

27. Roads
- ☒
28. Buildings
- ☒
29. Railroads
- ☒
30. Other cultural features
- ☒

BOUNDARIES

31. Boundary lines
- ☒
32. Public land lines
- ☒

MISCELLANEOUS

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

40. R. M. Masur
ReviewerFrank J. Pareja
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.

Leo F. Bugnet
Compiler_____
Supervisor

43. Remarks:

REVIEW REPORT T-10387
SHORELINE
NOVEMBER 6, 1968

61. GENERAL STATEMENT:

See Summary accompanying the Descriptive Report.

There is no field edit report or field edit print for this survey. Field inspection was accomplished after compilation; the manuscript was then corrected in accordance with field inspection notes on the field photographs.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

T-9621, a 1:20,000 scale survey made in 1904, was the only registered topographic survey available at the time of final review. The passage of time has made this obsolete; it is superseded by T-10387 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USC&GS CRAIG (D-5), ALASKA, 1:63,360 scale, 15 x 20 minute quadrangle, edition of 1951. The two surveys are in good general agreement, the quadrangle necessarily being somewhat generalized because of its scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of H-7098, a 1:5,000 scale survey made in 1946, and reviewed survey H-8287, a 1:10,000 scale survey made in 1956.

The shoreline of H-7098 and T-10387 are in good agreement. Because of the stage of the tide at the time of photography very few of the rocks and reefs shown on the hydrographic survey are visible on the photographs. Some of the piles and

dolphin were also relocated between the time of the two surveys. The differences between these surveys has been indicated on a comparison print which is bound with this report.

There are no discrepancies between surveys H-8287 and T-10387.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8171, 7th edition, June 22, 1964. As mentioned in Item 64 the photography was obtained at a high stage of the tide. Many of the rocks and reefs shown on the chart are not visible on the photographs. The difference between the chart and this survey have also been indicated on the comparison print.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with instructions and meets the National Standards of Map Accuracy.

The only field photographs available at the time of final review were 41452, 41453 and 41454. These photographs contained very little field inspection of value to the final reviewer.

Office photographs used during final review were 41445, 41452 thru 41455, 41481 and 41687.

Approved by:

Howard S. Cole
Howard S. Cole, CAPT USESSA
Director, Atlantic Marine Center

Reviewed by:

Leo F. Beugnet
Leo F. Beugnet

Approved by:

Everett D. Rainey
Chief, Photogrammetric Branch *MB*

RH Houlton
Chief, Photogrammetry Division

Chief, Nautical Chart Division