Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. PH-87

Office No.

T-9625

LOCALITY

State.....

ALASKA

General locality El Capitan Passage

Locality Shakan Strait and Dry Pass

1953 1955 1957

CHIEF OF PARTY

E. W. Richard, Chief of Field Party W. F. Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE

сомм- ос 61300

DESCRIPTIVE REPORT - DATA RECORD

T-9625

Project No. (II): Ph-87

Quadrangle Name (IV):

Field Office (II): Ship LESTER JONES

Ship HODGSON

Field:

Chief of Party:

G. A. Nelson

F. W. Richards

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge:

W. F. Deane

Instructions dated (II) (III):

3 June 1953

28 Dec. 1953

Office: 17 Dec. 1953 12 Nov. 1954 hotogrammetry (IV) 6 Sept. 1955

23 Dec. 1954 25 Jan. 1955

15 July 1957

21 Nov. 1955

11 Jan. 1957

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water

Elevations shown as $(\underline{\delta})$ refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III): LONE, 1922

Lat.: 56° 081 27.646 (855.1m)

Long.: 133° 29' 22.069" (381.1g)

MODERNK Unadjusted

Plane Coordinates (IV):

State: Alaska

Zone: 8

Y=

X≈

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.

-0000 6 6)

DESCRIPTIVE REPORT - DATA RECORD

RECOVERY, ESTABLISHMENT AND IDENTIFICATION OF CONTROL - 1954 Field Inspection by (II): (P. A. Stark and C. W. Clark Date: July 1955 J. P. Randall and M. D. Christensen See below April 1957

Planetable contouring by (II):

Date:

Completion Surveys by (II): * EDIT AND CONTROL OPERATIONS

Date:

Mean High Water Location (III) (State date and method of location): 1953, date of photography; Supplemented by field inspection.

SHAKEN STRAIT & PART (1953 PHOTOGRAPHY SUPPLEMENTED BY 1955 FIELD TOLT !

Projection and Grids ruled by (IV) A. Riley

Date: 1/5/54

Projection and Grids checked by (IV): J. Thuma

1/11/54 Date:

C. Hanavich

Control plotted by (III):

J. Cregan

Date: 9/21/55

Control checked by (III):

A. Queen

Date: 9/26/55

Radial Plot ox stexeosxootc

CONTROL CONTROL DE (III):

E. L. Williams

Date: 10/31/55

Planimetry

Date:

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): J. Honick

J. Councill

R. Whitson

8/9/57 Date:

Photogrammetric Office Review by (III): R. Glaser

8/14/57 Date:

Elevations on Manuscript checked by (II) (III):

Date:

FORM 181c (4-23-54)

DESCRIPTIVE REPORT - DATA RECORD

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

Camera (kind or source) (III): USC&GS

USC&GS nine-lens

PHOTOGRAPHS (III)

Number 41606 thru 41608 41630 and 41631 41655 and 41656 8/22/53

1238 1253

1:10,000

Scale

10.0 above MLLW 9.8 "

Stage of Tide

From Predicted Tables

Reference Station:

Sitka

Subordinate Station: Subordinate Station: Shakan, Kosciusko Island

Gyrus Cove, Sea Otter Sound

Ratio of Range Range Range 7.7 9.9 1.3 9.7 11.7 8.8 10.9

Washington Office Review by (IV): Leo F. Beugnet, Albantic Marine Center Date: June 1968

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

27 mi.

Shoreline (Less than 200 meters to opposite shore) (III):

3 mi.

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 12

Recovered:

Identified: 24

Number of BMs searched for (II):

Recovered:

Identified:

Number of Recoverable Photo Stations established (III) 3 Recovered: 1 (in 1957)

Number of Temporary Photo Hydro Stations established (III): 14 (on manus cript)

Remarks:

* During 1955 season: Established - 6 Identified: 3

** In addition, TAINE, RM established as recoverable topo station in 1955 after TAINE, 1922 was lost as triangulation.

3 topo Station's established in 1957

T-9625

COMPILATION RECORD	COMPLETION DATE	REMARKS
PRECIMINARY HANDSORIET COMPILED .	1954	FURNISHED FOR
Compiled	August 1957 —	ADVINCE
Final Review	June 1968	
		FURNISHED FOR HYDI
* ADVANCE MANUSCRIPT	1955	-SUPERSEDED
COMPILEO		(REFER TO PAGE

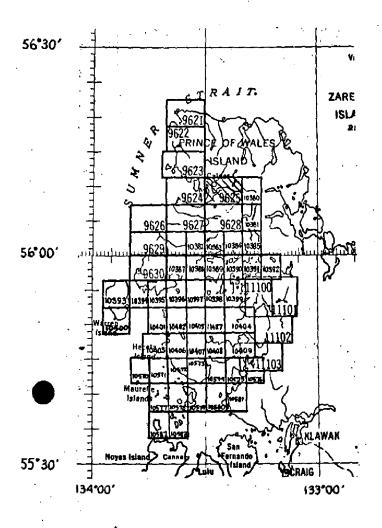
SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska

11583271212

10582 10583

OTAL



• • • • • • • • • • • • • • • • • • • •		•	•
Offici		ge for	Cost
•	Accoun		
${ t Sheet}$	Area	Lin.	M1.
No.	Sq.Mi.	Shore?	line
9621	10	30	
9021	16	10 11	
9622	10	ŦŢ	
9623 9623 9625 9626 9627 9628 9629 9630	12 16 15 17 21	72 11 155 26 66 168 10 15	
9624	17	12	•
9625	21 '	11	
9626]1		
9627	٦Ť	15	
0628	. 11.	17	
9020	14	. 4	
9629	2	ò	
9630	7	6	
11100	32	16	
11101	9	8	, •
11102	18	10	
11103	16	วีรั	
10380	- 6	1	
10281	Ş	3 14	
10380 10381 10382	3	10	
10305	ò	2	
10383	6	B	
10383	7	5	
10385 10386 10387	454572986658674963764822521	40 28 58 17 62 16 12	
10386	ģ	. 1	٠.
10387	Á	7	•
10388	ž	ż	
10388 10389	2	7 7	
10309	,	14	
10390 10391	6	16	
10391	4	12	
10392	8	7	
10393 10394 10395 10396	12	7 10	
วังจังกั	-5	- j,	•
70274	ئے	-14 8	
10393	2	Ü	
10396	2	4	
10397	1	1	•
10398	3	5	
10398 10399	4	11	
10400	6	8	
10401	ī	. 🧿	
10102	2	2	•
10402	2	2	,
10403	?	. 0	
11451	. 🕹	ī	•
10/10/1	5	10	
10405	. 2	2	
10405	8	. 1	
10007	8	2	
TOTOR	č	7	
10402 10403 11427 10405 10405 10406 10407 10408	34612315288 50	51 11 8 2 3 6 1 10 2 1 2 7 10	
Totto	A. A. V.	10	
	ة فر		

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-9625

Shoreline survey T-9625 is one of 58 similar surveys in Project PH-87. It covers a part of Shakan Strait and El Capitan Passage in S. E. Alaska. The primary purpose of the survey was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

Field work preceding compilation consisted of recovery and/or establishment and identification of horizontal control and shoreline Capitan Passage was erroneously compiled due to faulty identification inspection. In 1957 it was found that part of the shoreline in El and mis-interpretation of the photography. Two stations were reidentified and one additional station recovered and identified at this time. The survey was returned to the compilation office and the area in error was re-compiled.

Compilation was at 1:10,000 scale by graphic methods using the 1:10,000 scale nine-lens photographs of August 1953. A cronaflex copy of the manuscript, blue line tracing, ozalid prints and specially prepared photographs were provided for preparation of the hydrographer's boat sheet, locating photo-hydro signals, and field edit use.

The manuscript is a vinylite sheet 3 3/4 minutes in latitude by 10 minutes in longitude, which was smooth drafted and reproduced on cronaflex. One cronaflex positive and one cronar negative are furnished for record and registry.

* A PRELIMINARY MANUSCRIPT WAS COMPILED IN 1954. A FIELD PARTY EDITED THE PRELIMINARY MANUSCRIPT, AND RECOVERED, ESTABLISHED, AND IDENTIFIED CONTROL FOR AFINAL RADIAL PLOT IN 1955. THE PLOT WAS ASSEMBLED IN 1855 AND ADVANCE MADUSCRIPT COMPILED FOR HYDRO SUPPORT . DURING 1957 HYDROGRAPHY, THE MANUSCRIPT ERRORS, AS STATED ABOVE, WERE FOUND - IN THE AREAS OF DEVILTISH BAY AND PART OF EL CAPITAN PAS-SAGE IN ADDITION TO THE CONTROL REIDENTIFICATION (PARAGRAPH & ABOUT) THE HAP WAS REMEDITED -IN PART.

A MEW RADIAL PLOT WAS ASSEMBLED IN 1957 AND ADVANCE MANUSCRIPTS COMPILED. THE PLOT REPORT WAST) IS INCLUDED IN THE DESCRIPTIVE REPORT FOR T-10381. ONLY A PART OF THE MANUSCRIPT REQUIRED ACTUAL RECOMPILATION, AS REFLECTED IN THE COMPILATION REPORT & PAGE 27A (A PART WAS USED IN 1955 HYDROGRAPHY).

THE ADVANCE MANUSCRIPT COMPILED IN 1957 HAS BEEN APPLIED TO CONTEMPORARY HYDROGRAPHIC SURVEYS - THE TOPO AMO HYDRO SURVEYS ARE IN AGREE HENT. THE "DIFFERENCES" NOTED ON THE COMPARISON PRINT CONCERN ONLY ROCKS SHOWN ON THE HYDRO SURVEY THAT ARE NOT VISIGIE ON THE PHOTOGRAPHY JUR

FIELD INSPECTION REFORT (in part)

For

MAPS T-9623 to T-9630 (1955)

2. AREAL FIELD INSPECTION

The shoreline inspection was started from the southern limit of the 1954 work and continued southward to include all of the shoreline encompassed by the 1955 hydrography. Control Identification was further extended southward to Cape Pole and around the south end of Kosciusko Island to Holbrook Point at the head of Davidson Inlet.

The shoreline was inspected from an open skiff, and the inspection was intermittent, depending upon the weather, surf conditions and the locale of hydrographic operations.

The area inspected was heavily wooded, the tree line almost always reaching the high water line. The overall photographic coverage was good, being more than adequate for a good compilation of the shoreline. In some instances, however the foreshore was completely obliterated by excessive shadows on some of the photographs.

The locale being Alaska, a detailed inspection was not feasible and the field inspection was standard only with respect to control identification. No extra time was taken to make low tide inspection of any area to determine the low water line. Usually the foreshore was very steep, thus decreasing the relative importance of a low water line delineation. Where the gradient of the foreshore was gradual, a low water line was usually obtained by the hydrography that was done concurrently with the field inspection.

* WORK COMPRISED AN EDIT OF THE PRELIMINARY MANUSCRIPT.

REFER TO PAGE 14 FOR ADDITIONAL FIELD WORK

ACCOMPLISHED IN 1957

3. HORIZONTAL CONTROL

(a) New Stations

The following new stations were established by second-or third order triangulation:

*BILL	1938-1955	LOWER	1955		SHAKE	195	5
CALDER	1955	MARBLE	1955		*SICKI	E 193	8-1955
CENTER	1955	MIDDLE	1955		*SLEEF	Y 193	8-1955
DEAD 2	1955	MILTON	1955		SQUEE	ZE 195	5
DIVIDE	1955	≭MUD	1938-1	955 .	TURN	195	5
*FRAN	1938-1955	*PLAY	1938-1	.955	TWIST	195	5
GRAZE	1955	QUARRY	1938	•	UPPER	195	5 ·
INNER	1955	SHAKAN	STRAIT D	AYBEACON,	, 1955 .	į	

*Although stations BILL, FRAN, MUD, PLAY, SICKLE and SLEEPY were set in 1938, no observations were made then to enable a determination of geographic positions.

- (b) No datum adjustments were made in 1955. =
- (c) All control used in 1955 was established by the Coast & Geodetic Survey.
- (d) No specific stations were required by the instructions, and considerably more control was identified than required to meet the spacing requirements of Photogrammetry Instruction No. 16.
- (e) The following stations were determined lost:

ALDER,A	1922	OUT	1922
BIGHT	1922 .	SLIDE	1922
DEAD	1922	STATION ID.	LICHT 1915
TSTE	1922	TATME	1922

Station ISLE was considered lost as a triangulation station because the center mark was missing. However, its probable location, to within less than a property foot, was readily determined and the station was identified for photo control.

Two stations, BLUE 1903 and ROUND 1903 were searched for but not found. Because of unfavorable surf conditions, station BLACK 1903 was identified from offshore by description and was not recovered.

(f) The following fifty-six stations were identified for photo control and entered on Control Identification Cards

_).)(a) 37 a	The sheet are	C+-++ +	Mon Ma	734- 37-
	Station	Map No.	Photo No.	Station	Map No.	Photo. No.
	ALCOA 1946	D	41451	MINE 1946	D • • •	71776
	EEAR 1903	Ē	41492	NEW 1922	T-9624	41543
	BEND 1922	T-9627	41540		T-9626	41.176
	BILL 1938-55	T-9627	41512-13	ONAUG 1937	W. of A	41314
	BLACK 1903	S. of A		*LITTLE POLE AN		42,24
	BLUFF 1886	T-9626	111.75		1937 T-9630	Ji1 330
	BUSH 1922	• .	41541	PERK 1937	T-9627	41499
	CAMP 1937	T-9629		PHIL 1937	T-9627	41501
	CENTER 1955		41543	PIES 1937	T-9629	11142
,	CHAN 1937	T-9630	41314	PINK 1903	D	41492
	DARTS 1946				55 T-9627	111497
	DEAD 2 1955	T-9625	41.607	POLE 1886	T-9630	11312
-	DIVIDE 1955	T-9624	415bi	QUARRY 1955	T-9625	山608
	EDNA 1946	D	41451	QUARTZ 1903	A	41316
. • •	GILLE 1946	F	11151	RED 1903	D	41451 & 41687
	GRAZE 1955	T-9624	41541	REEF 1922	T-9624	41511
. i	GREEN 1903		11147	ROS (4th order)		41511
	GRIM 1937	T-9627	11500	RUINS 1937	т-9626	41476
	HALI 1937	Á	41315	SCRAB 1937	T-9630	山332
	HAMILTON ID. DAY-			SHAKAN STRAIT	•	
	BEACON, 1954	T-9624	41510	DAYBEACON, 195	55 T-9624	加2和
7	HIP (4th order)	T-9624	41511	SHAKE 1955	т-9624	11542
٧	HOLBROOK 1903	C-	41515	SICKLE 1938-19		
	INNER 1955	T-9623	41565	SLEEFY 1938-19		41512
Ÿ	ISLE 1922	T-9624	41540	STATE 1922	T-9624	41510
•	LEDGE 1922	T - 9625	41541		A	41327
	LICHEN 2 1937	W. of A	J1315	TWIST 1955	T-9624	山543
	LONE 1922	T-9625	111606	UPPER 1955	т-9625	41609
•	MIDDLE 1955	т-9624	41608	VENT 1937	T-9627	41501
	•			WOLF 1903	D i	41687

*This light is described under the name of OUTER LIGHT on Triangulation Index, Alaska No. 41, and FISHERMANS HARBOR OUTER LIGHT in the Coast Guard LIGHT LIST.

Paragraph 4, 5, & 6 Inapplicable.

7. SHORELINE & ALONGSHORE FEATURES

- (a) The mean high water line was adequately compiled on the preliminary Manuscripts and exceptions duly noted on field photos.
- (b) Inasmuch as the foreshore area was usually very steep, delineation of the low-water line was relatively unimportant, and no extra time was taken to make a low-water inspection of any area.
- (c) The foreshore was usually very steep and composed of solid bedrock.

 Exceptions were noted on field photos.

- (d) Bluffs and cliffs were noted on field photos. The only prominent cliff encountered was on the east side of Bluff Island.
- (e) The pier indicated on the west side of Fontaine Island (Shakan Strait) was deleted, and the adjoining buildings abandoned. The only other structure encountered was the site of an abandoned logging camp (clearly visible on photos) located at the head of a small bight \(\frac{1}{2} \) mile southeast of triangulation station PIES, 1937. Adequate notes were made on the field photos.

8. OFFSHORE FEATURES

Delineation of foul areas was well done on the Freliminary Manuscripts, this opinion having also been expressed by the Hydrographer. Additional notes were during the field inspection and all important offshore rocks and heavy kelp areas were located by either the field inspection or the concurrent hydrography.

9. LANDMARKS AND AIDS

Information regarding landmarks and aids was covered by the concurrent hydrographic phase of the project. A copy of Form 567 is submitted as supplemental data.

10. BOUNDRIES, ETC., INAPPLICABLE

11. OTHER CONTROL

Reference may be made to plane table survey T-6589, Bluff Island to Hard-scrabble, 1937.

One recoverable topo station, ERV, was established during the 1955 Field: Season. This station was marked in 1954 but no position determined at that time. During the 1955 Field Season, a fourth-order theodolite position was determined and the appropriate data recorded on Form 524.

All station names were inked on the field photos on which they were pricked. At no time was it necessary to refer to or use the office photos. When a direct prick was not possible, a substitute station was selected and the necessary data recorded on C.S.I. Cards.

The following photo-hydro stations were established:

Map T-962	<u>:</u>		Map T-9627	
Station	Photo. No.	•	Station	Photo. No.
Car Dum Elk Fir Got	可203 时203 时203 时203 时203		Gaf Rev Sag Tax Use	41475 41499 41499 41499
Ill Jeb Kay Let	加509 加502 加501		Map T-9629	· .
Mow (Sub pt) Nob (Sub pt) Sip			Station Air	Photo. No.
Map T-96	26		Bad Dan Doc	11333 111112 11171
Station	Photo No.		Eon Flo Gob	11172 11173 11333
Ina (Sub pt) Jit Kid) 41476 41475 41475		Hag Hut Lux	41442 41474 41441
Kip (Sub Pt) Lam Liz (Sub Pt)) 41477 41475		Ned Obi Ova (Sub pt)	41473 41333 41473
Mag Own (Sub Pt	41500 41476		Pil Rap Pub (Sub pt)	43473 41473
Pod	41475		Neo Tea (Sub pt) Wac (Sub pt)	41473 41473 41442
			Zam (Sub pt)	41332 41332

The above stations are listed under the Manuscript Numbers indicated in the new Map-Photo Index sent to this party at the beginning of the 1955 field season.

- 12. <u>Interior Features</u>. Not applicable.
- 13. Geographic Names. None recommended during the 1955 field season.

14. SPECIAL REPORTS & SUPPLEMENTAL DATA

Item	Date Trans. Ltr.	Package No.
Photo Data	30 July 1955	1, 2, 3, 4
Triangulation Data	31 July 1955	5, 6
Triangulation Data	28 September 1955	11, 12
Photo Data	30 September 1955	13, 14, 15
Field Inspection Report & Miscellaneous Data	1 October 1955	16

Reference may also be made to the following applicable data:

Plane Table Survey T-6589, 1937, Bluff Island to Point Hardscrabble.

Graphic Control Sheets, LJ-A-55 and LJ-B-55.

The 1955 Hydrographic Surveys. Boat Sheets were forwarded to the Washington Office and prints are available.

Respectfully submitted,

/s/ P. A. Stark Lt. USC&GS

Approved and Forwarded,

/s/ George A. Nelson, Comdr,,USC&GS Chief of Party

FIELD INSPECTION REPORT

EL CAPITAN PASSAGE

NO OTHER SECTION APPLICABLE.

3. HORIZONTAL CONTROL:

All triangulation stations on Manuscripts 10380, 10381, 10385, 10390, and 10391, for which photographic identification was required, were recovered and pricked on photographs; along with others that were not specified.

Stations identified were as follows:

POINT 1922		LOR 1922	SARKAR 1953
GRASS 1922	•	EL 1922	BROCKMAN 1922
LAST 1922 .	*	CAP 1922	NAT 1922
FISH 1922	•	TAN 1922:	EGG 2 1922
BAY 1922		DEWEY 1922	WHITE 1922
DEVIL 1922		BURNT IS. LIGHT 1953	

14. 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 23 October via transmitting letter HDG-56-14.

Approved and forwarded:

Robert A. Earle, CDR, USC&GS

Comdg., Ship HODGSON

Respectfully submitted,

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

DEVILFISH BAY AND PART OF ELECAPITAN PASSAGE

MANUSCRIPTS NO'D.

T-9625 T-9628

T-10380 T-10381

(1957

REFER TO PAGE 7 OF THIS
DESCRIPTIVE REPORT CONCERNING FIELD WORK ACCOMPLISHE IN 1955

2. Areal Field Inspection

This report covers the northern third of El Capitan Passage from Fontaine Island, Shakan Strait, east and south to and including Devilfish Bay.

Rock outcroppings are, in general, metamorphic limestones and shales.

A black scale covers all alongshore outcroppings, and boulders, and shows as a distinctive black line, on the photographs. The bottom of this line very closely approximates the mean high water line.

At the western entrance to El Capitan Passage, on the islet ENE of station PASS 1922, is a small building in fair condition. Its origin and use are unknown.

On the next island to the north, location of photo-hydro station "DAD", is a cemetery which was most probably used by the abandoned quarry that lies three fourths of a mile to the northeast.

In the shallow bight immediately west and south of Dry Pass, are the ruins of a former mining operation.

The ruins of a mining operation located on the northwest side of El Capitan Passage, at the "dog leg", and symbolized on Chart 8172 was denoted.

Densities and tones were not, in general, inspected inshore of the high-water line. It was noted however that alder, show as a low (10 to 15 feet) dark, globular color tone paralleling the beach in front of the lighter conifers.

3. Horizontal Control

(d - f) Station POINT 1922, listed as not positively identified in 1956 was reidentified.

Station BAY 1922-57, which was misidentified in 1956, was reidentified.

Station LAST 1922, was recovered and identified.

4 & 5 .- Inapplicable

* THE WORK COMPRISED AN EDIT OF AN "ADVANCE" COPY OF T-9625 CTHE ADVANCE COPY WAS SUPERSEDED IN PART AS THE RESULT OF THIS WORK - REFER TO PAGE G OF PHIS DESCRIPTIVE REPORT

7-8- -9-

6. Woodland Cover

All land areas not covered by storm high waters were densely wooded with conifers and underbrush with the exception of muskegs, small logged areas, and the higher mountains.

7. Shoreline and Alongshore Features

The shoreline was inspected from the beach at all photo-hydro signal locations and from the boat in all other areas.

- a. The office interpretation of the mean high water line was, in general, quite accurate, even in the heavily shadowed areas.
- b. In the extensive areas of shadow along the southern shores of El Capitan Passage and Devilfish Bay, sextant fixes were taken and recorded on the back of the photographs. A close approximation of the mean high water line was drawn on the photographs to better enable the office personnel to determine the shape of the shoreline.

In the smaller shadowed areas the shoreline was readily discernable and was delineated directly on the photographs.

The shoreline, in the deltaic flats, east of Dry Pass, was identified as called for in the Preliminary Descriptive Report.

The error in the previous field identification of the mean high water line in Shakan Straits, was noted and corrected.

- b. The low water line corresponds closely with the darker color tone at the outer edge of alongshore and offshore shoal features.
- c. The foreshore consists of rock outcrops and boulders, with the exception of the deltaic muds and gravels at the mouths of the larger streams.

There were no sandy areas of any extent.

- d. There were no cliffs or bluffs of note.
- e. The log boom symbolized on Chart 8172 was not discernable on the photographs. It was located by sextant fixes on photo-hydro signals and plotted on the manuscript T-9625. The angles were recorded on the reverse side of the photograph.

8. Offshore Features

All apparent offshore features were visited. All shoal and foul areas were indicated on the photographs.

Visible rocks were indicated and their heights or depths, times and dates were noted.

All heights were estimated and depths measured.

Within the area covered by this report, there were no kelp patches.

All rocks not visible on the photographs were located by sextant angles to photo-hydro signals. The fixes were recorded on the back of the photographs.

9. Landmarks and Aids

There were no landmarks of importance within this area.

The one fixed and five floating aids covered by this report are:

NAME		METHOD OF LOCATION
Dry Pass Buoy 1	•	Photo & Sextant
Dry Pass Buoy 2		Photo only
Dry Pass Buoy 5	•	Photo and Sextant
Dry Pass Daybeacon 7	•	Photo only (BEAK 1957)
Dry Pass Buoy 9		Photo and Sextant

At the time of this survey, Dry Pass Buoy 2 was missing. Notification has since been received that it has been replaced on station.

10. Inapplicable

11. Other Control

All photo-control was recorded on Control Station Identification Cards.

Many marked hydrographic stations from the 1922 survey were recovered and located on the photographs, thereby, exceeding the required spacing for recoverable topographic stations.

No effort was made to recover these marked stations but where the present hydrographic control requirements coincided with the previous requirements, then they were located on the photographs, and topographic recovery cards submitted.

West of Dry Pass on the northern shores of Kosciusko Island two unstamped standard Coast and Geodetic Survey bench marks were recovered. No reference to their existence could be found in the project instructions. The westernmost of the two disks was located and called PILL 1957.

The following is a list of recoverable topographic stations:

NAME	MANUSCRIPT	PHOTO
BEAK 1957	T-9625	41631
EV 1922	n	41655
PILL 1957	Ħ	41631
LIPP 1957	n	41637
SOL 1922	T-10380	41675
OFF 1922	n	i n'
WAG 1922	T	41676
BOW 1922	n ·	41674
STONE 1922	T-10381	41653

12. Inapplicable

13. Geographic Names

Geographic names will be covered in a separate report.

14. Special Reports and Supplemental Data

Forwarded to the Director:

- 1. Nine lens office and field photographs via transmitting letter 8 June 1957.
- 2. Blueline Tracings and Elackline Impressions, via transmitting letter 8 June 1957.
- 3. Hydrographic Sheet Field No. HO-1157, 6 June 1957
- 4. Tidal data via transmittal letter 11 May 1957.
- 5. Control Station Identification Cards for all control, via transmittal letter 17 June 1957.
- 6. Description of Recoverable Topographic Stations via transmittal letter 17 June 1957.

To be forwarded:

- 1. Triangulation Recovery Cards.
- 2. Geographic Names Report.
- 3. Coast Pilot Notes.

Respectfully submitted,

James P. Randall, LTJG, C&GS

Approved and forwarded:

E. W. Richards,

Lt., C&GS

Comdg., Ship HODGSON

FORM **164** (4.23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

CONTROL RECORD COAST AND GEODETIC SURVEY

MAP T- 9625		PROJE	PROJECT NO Ph-87	-87	, S	SCALE OF MAP 1:	1:10,000	SCALE	SCALE FACTOR	γ α
STATION	SOURCE OF INFORMATION (INDEX)	16	LATITUDE O LONGITUDE (LATITUDE QR y-COORDINATE LONGITUDE OR x-COORDINATE	<u> </u>	FEE	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARO (BACK)		FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
FLAT, 1922	G 609 P• 310	N.A. 1927	56	11 24,422 24 02.785	422 785			755.4 ((1100 <u>.</u> 4)	
NOR, 1922	G 609 p. 311	E	56 133]	964				(1671.3)	
MIL, 1922	g 609 p• 318	ŧ	33	29 55,382	712			980.8 (874.9)	
Ledge, 1922	£	=	133		19.020				(1267.5)	
WEST, 1922	#		56		14.117 43.826			156.9 ((1,91) (279.3)	
IONE, 1922	=	¥	56	08 27.•(29 22.•(27.•646 22.•069			381.1 ((1000.7)	
EAST A, 1922	G 609 p.319	£	56		16.549 37.691				(1343.9)	
CREEK, 1922	=		56		54.333				175.3)	
STWP, 1922	E '	=	56	08 31. 27 26.	31.684			980.0 (875.8)	
PASS, 1922	=	=	56		08.339 27.124				(1597.8)	8
Sub. Pt. LONE, 1922	Comp	=	56	29				859.2 (966.6)	
QUARRY, 1955	p2 Field Comp.	E	56 133	10 14•337 29 15·159	14.337 15.159) 14.544 ((4.2141) (7.3.7)	18.
1FT = 3048006 METER COMPUTED BY B+ Kurs	rs	₹a	DATE 9/20/55			CHECKED BY. J. Steinberg	tei nberg	DATE	DATE 9/20/55	COMM- DC-5784.

FORM 164 (4.23.54)

MAP T. 9625

DESCRIBȚIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

SCALE OF MAP 1:10,000 SCALE FACTOR PROJECT NO. Ph=87

STATION	SOURCE OF (NFORMATION (INDEX)	DATUM	LONGITUD	E OR y-CO	LATITUDE OR y-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS	DATUM	N.A. 1927 DISTA	N.A. 1927 - DATUM DISTANCE FROM GLID OR PROJECTION LINE FROM GLID OR PROJECTION LINE FROM GLID OR PROJECTION LINE	FROM GRID OR PROJECTION LINE IN METERS FROM AND
Sub. Pt.		N.A.	8	92				1,29-0	(1426.8)	
QUARRY, 1955	Comp.	1927	133	29				246.7	(788.5)	
ייס ר ממממוו	p2 51,01,4		35	10	55.467			1715.6	(140.2)	
Urrens 1755	Comp.	Ħ	133	62	28.480			1,91,3	(5)3.7)	
Sub. Pt.	,	:	56	80				1562.9	(292.9)	
UEAU 2, 1955	Comp.	=	133	27			_	671.3	(73642)	
DEAD 2, 1955	p2 Field		5,6	8	50.450			1560.4	(295.4)	
	Сощр.	=	133	27	39,106			675.2	(360.8)	
שלטנ שמשנטט	p2	2	፠	ឧ	05,713			176.7	(1679.1)	
540bbbb 1722	Comp.	:	133	78	15,465			266.9	(768.5)	
יייייייייייייייייייייייייייייייייייייי		* =	32	60	37.517		_	1160.h	(695.4)	
LUWERS 1725	:	:	133	27	59.403			1025.3	(10.3)	
MARRIE 10CC	=	F	χ,	8	24.714			765.3	(1090-5)	
ייין אין אין אין	-		133	28	33.784			582.9	(452.3)	
Sub. Pt.			33	10	ļ			1710,4	(145.4)	
UPPER, 1955	Comp.	ŧ.	133	29				ղ•o6ղ	(544.6)	
-		· ·	B	8				1813.2	(42.5)	
1922 (Topo.)	Comp	=	133	28	:			183.0	(852.9)	
	i 	i i ———	:							
										9
										19
	-								ļ	7
1 FT = 3048006 METER	Kure		/6	9/20/44			I. Steinberg			9/20/55
COMPUTED BY, LO		<u>م</u>	DATE. Z/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		CHECKED BY:	1	***************************************	DATE	

PHOTOGRAMMETRIC PLOT REPORT PROJECT 6087

Surveys T-9624 thru T-9628

ANOTHER PLOT WAS ASSEMBLED FOR T-9625 - REFER TO THE DESCRIPTIVE REPORT FOR T- 10381 FOR THE REPORT, AND TO PAGE G OF THIS DESCRIPTIVE REPORT, 21. AREA COVERED

This radial plot covers the area of surveys T-9624 thru T-9628 and the southeast corner of T-9623. They are shoreline surveys located on the Prince of Wales Island, Alaska, along Sumner Strait, and cover the areas of Shakan and Shipley Bays.

22. METHOD - RADIAL PLOT

Map Manuscripts:

Vinylite sheets with polyconic projections in black, at a scale of 1:10,000 were furnished by the Washington Office. 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 in this plot and the distribution of control and photograph centers, is attached to this report.

Photographs:

All photographs used are nine-lens unmounted photographs, at a scale of 1:10,000. Thirty-one photographs were used in the radial plot, and are numbered as follows:

41474 thru 41477 41498 thru 41502 41508 thru 41513 41537 thru 41544 41605 thru 41610 41630 and 41631

Standard symbols were used on the photographs.

Templets:

Vinylite templets were prepared for all photographs. A master templet was used to correct for paper and film distortion, and for chamber displacement.

Closure and Adjustment to Control:

Vinylite base sheets were prepared in this office. Because there were no grid lines on the manuscripts, some intersections of the manuscript projections were transferred to the base sheets. These common intersections were held in order to transfer the control.

The radial plot was laid, tying into points established in a previous plot laid in December 1954 for surveys T-9622 and T-9623 to the north. The flights beginning with photographs 41508 and 41544 were laid first, and extended southward.

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control: (cont'd).

The plot was then extended to the east and to the west. Some control stations could not be held, but a <u>satisfactory plot was obtained</u>. In Calder Bay station INNER, 1955 could not be held in the plot.

Transfer of Points:

The map manuscripts were placed over the finished plot and oriented by holding the control and intersections that had been transferred to the base sheets. All pass points and photograph centers were pricked on the map manuscripts.

23. ADEQUACY OF CONTROL

There was adequate control to obtain a satisfactory radial plot.

The following stations could not be held in the plot:

INNER, 1955. The radially plotted position is 8 meters southwest of the geographic position. This sub. pt. was a very poor image point and it is quite possible the wrong rock was identified on the office photograph.

MIDDLE; 1955. The radially plotted position is 0.2 mm southwest of the geographic position.

ISLE, 1922. The radially plotted position is 0.4 mm east of the geographic position. Station ISLE, 1922 was reported lost, but the RM was recovered. The azimuth station was listed on the control identification card as BLACK, 1922 by the field man. The orientation of the control identification card indicates that either BEND, 1922 or EUSH, 1922 probably was used.

UPPER, 1955. The control station identification card describes the sub point as a ledge, but the image pricked on the field photograph is a tree laying over. The ledge was not visible on the office photographs and this sub. station was not used to control the plot.

RUINS, 1937. The radially plotted position for Sub. Pt. No. 1 is 1.1 mm northwest of the geographic position. However, Sub. Pt. No. 2, which is a more definite image point, was held in the plot.

PHIL, 1937. The radially plotted position is 0.4 mm northwest of the geographic position. This is probably a matter of inaccurate identification, because VENT, 1937 to the north, and PERK, 1937 to the south were held in the plot.

BILL, 1938-55. The radially plotted position from Sub. Pt. No. 1 is 0.7 mm southwest of the geographic position. Sub. Pt. No. 2 was held in the plot. The distances measured to these sub stations were stadia distances of 100 meters and 228 meters.

23. ADEQUACY OF CONTROL (contid)

NIPPLE, 1922. This station was office identified, and extreme elevation and tilt made the identification very weak.

LONE, 1922. This station was office identified in 1954 measuring from the lone tree as described in the 1922 description. The 1955 identification of a Sub Pt. for LONE, 1922 was the same image point as the office identification of the station. Consequently, the pricking was not changed on the office prints. IONE, 1922 and not the position of Sub. Sta. LONE, 1922 was held in the radial plot. LEDGE, 1922 just to the south of LONE, 1922 held in the plot. This confirms the office identification of the station and tends to indicate the field identification may be in error.

H HIP, 1955. The radially plotted position is 0.3 mm northeast of the geographic position for this hydrographic signal, which was computed in the field as less than third-order.

24. SUPPLEMENTAL DATA

None.

25. PHO TO GRAFHY

The photographic coverage and definition of photographs used in the plot were good. However, the office prints were in poor condition as the result of being used in a previous plot of the same area, as well as in preliminary compilation and in two field seasons with the hydrographic party. It is believed that new office prints would have made control identification easier, because the office identification of control for the preliminary surveys interfered with pricking of field identified control. In addition, the condition of the office prints undoubtedly resulted in local distortions of the paper and emulsion, so that the resulting templets could not be adjusted as well as a new flat print. A request for new prints was not made at the start of the radial plot because the completion date for this project did not allow sufficient time.

* Refer to items 22 & 23

Respectfully submitted 22 November 1955

E. L. Williams Cartographic Aid (Photo.)

Surveys T-9623 thru T-9628 SKETCH 6087 PROJECT -AYOUT

43.61	
15. L.H.,	1000
STATION	SHAKAN
<u>-</u> -	4

A FLAY, 1922

A UPPER 1955

A CALDER, 19

TWIST A 1955 A NEW, 1912

A TURN,1955

INNER,1955 (B)

04159

A CENTER, 1955 DIVIDE

SHAKE, 1955 A CHAZE

A STUMP, 1922 & DEAD 2,1955

47

の信号で

Ç

41502

A BLACK, 1922

23 24500 5 24.4 4.24 0 4.24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	देक्त
in the second	133*40'
h	410.34
810F, 1686-1937 A:14 RUINS, 1937 MUTE: T-9626	133" 50'
\$5-25	133

O AMUR, 1938 BILL

T-9627

SICKLE 1938-55 A

٠.	
photographs	
office	
Nine-lens	
ź	•

T-962.8

stations not held in plot not held in plot





QUARRY

^{18.} CREEK, 192.

la east a

stations not identified

COMPILATION REPORT T-9625

Field Inspection Reports:

1. Preliminary Field Inspection Report, Maps T-9623 thru T-9627, No Page 1982 May-July 1955, Combined Operations - USC 200 Chir Tara T-9627, No Page 1982 Pa Project CS-347 - Ph-87, submitted by P. A. Stark.

2. Field Inspection Report, Maps T-9623 thru T-9630, Combined Operations - USC&GS Ship LESTER JONES, Project 1347 (PH-87) submitted by P. A. Stark (part of Descriptive Report, T-9624).

3. Field Inspection Report, Maps T-9625, T-9628, T-10380 and T-10381, USC&GS Ship HODGSON, submitted by E. W. Richards in 1957 (Part of Descriptive Report, T-10380 and T-10381).

Photogrammetric Plot Report for Report, T-9627.

part of Descriptive SHAKEN STRAIT

RABIAL PLOT REPORT NO. 2 IS THICLOPED IN THE DESCRIPTIVE REPORT FOR T-10381

31. DELINEATION

This manuscript was delineated by graphic methods. In Shakan Strait, parts of the shoreline was obscured by shadow and relief displacement of trees and was shown with a broken line. In El Capitan Passage, the shoreline, which had been delineated by office interpretation prior to hydrography, was corrected by field inspection on photographs during hydrography and by sextant fixes in areas where there were deep shadows.

32. CONTROL

Refer to Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

Copies of boat sheets LJ-1155 and HO-1157 were available for purposes of comparison.

Graphic control sheet LJ-A-55 became available after the Shakan Strait area was compiled. A comparison was made and indefinite shoreline was adjusted at several signals.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable. Drainage: No comment.

* ONLY USRY LIMITED AREAS ARE SHOWN WITH A BROKEN LINE. THE SHORELINE IS ADEQUATE FOR CHARTING IN THIS AREA

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate in Shakan Strait and was exceptionally complete in El Capitan Passage. The low water lines and ledge areas are based on data furnished by the field party.

No information was furnished to delineate the temporary log boom SE of Fontaine Island shown on boat sheet LJ-1155.

In the abandoned village of Shakan, only one ruinswas identified and no buildings could be interpreted in the office. Two charted buildings at Calder could not be positively identified.

There was no information to delineate the cemetery on an island at entrance to El Capitan Passage (noted in 1957 field inspection report).

The field inspector's notes "point attached at MHW" and "islet detached at MHW" in cases of questionable areas were of great assistance to the compiler.

36. OFFSHORE DETAILS

No comment.

37. LANDMARKS AND AIDS

form 567 is being submitted for one non-floating aid to navigation.

38. CONTROL FOR FUTURE SURVEYS

Forms 524 are being submitted for four recoverable topographic stations established in 1957. In accordance with the recovery note for TAINE, 1922; the reference mark was shown as a recoverable topographic station (see list under item 49).

Photo-hydro signals were plotted on a blackline impression by the hydrographic party. In the area where "jumps" in fixes were reported, all signals east of longitude 133° 22' to the east limits of the survey were replotted on the manuscript. Discrepancies are noted in item 49.

39. JUNCTIONS

Junctions have been made with survey T-9624 to the west, T-9628 to the south and T-10380 to the east. There is no contemporary survey to the north.

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report.

41 - 45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS

None available.

47. COMPARISON WITH NAUTICAL CHARTS

Chart 8172, scale 1:40,000, 3rd Edition, 19 March 1956.

Items to be applied to nautical charts immediately: None

Items to be Carried Forward: Charted buildings could not be positively identified on the photographs at Shakan and Calder. Only ruins of one building at Shakan was field identified and was shown on the manuscript.

> Respectfully submitted 15 August 1957

Frank Haraya Frank J. Tarcza

Super. Carto. (Photo.)

Approved and forwarded

CDR C&GS

Baltimore District Officer

GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-87 (Sumner Strait, Alaska)
T-9625

Calder
Dry Pass
El Capitan Passage
Fontaine Island
Hamilton Island
Kosciusko Island
Marble Creek
Prince of Wales Island
Shakan
Shakan Strait

Approved by:

A. Joseph Wraight

Chief, Geographer

Prepared/by:

Frank W. Pickett

Cartographic Technician

Project Ph-87 T-9625

49. NOTES TO HYDROGRAPHER

1955 Hydrographyr:

Refer to page E with the Graphic control sheet LJ-A-55 was compared with the manuscript. The following discrpancy requires attention:

At signal HOD, the position falls 2 mm east of the shoreline.on the manuscript.

The boat sheet indicates this signal to be on the shoreline. The cut from RUG is suspected.

1957 Hydrography:

In plotting the sextant fixes to locate the ends of a log boom (near hydro signal IDA, photograph 41655) the angles to signal DAY would not hold. Results in good agreement with the boat sheet were obtained omitting the angles to DAY.

The following recoverable topographic stations appear on the manuscript:

> TAINE RM 1922 BEAK (Dry Pass Daybn 7) 1957

LIPP 1957 PILL 1957

NIL

EV. (1922) 1957

In the area where "jumps" in hydrography were reported (Longitude 133° 22' to west limits of manuscript), thirteen signals were replotted in compilation office. The new positions of the following signals were transferred to the blackline impression and shown in green:

ACE	CAT	EAR	IDA
BAH	DAW	EBB	JAP
CAR	DAY	FLY	MAN

Discrepancies serious enough to cause "jumps" were found at four of the signals:

At BAH, the original office location of the island was in error by 1 mm. This was probably the major cause of the "jump".

ACE and NIL were in error by 0.7 mm and 0.6 mm. These appear to be improper adjustments for scale of photographs in the field.

At CAR, the distance to signal was given in feet and meters but the conversion does not check. Two positions were plotted and shown for this signal.

50 -

PHOTOGRAMMETRIC OFFICE REVIEW

T-9625

	CONTROL STATION	· !s	4a. Classification label.	V
5. Horizontal control stations of third-order or hi		- ,	verable horizontal station	s 0
than third-order accuracy (topographic stations)			,	
9. Plotting of sextant fixes				
4	ALONGSHORE ARE	AS		
	Nautical Chart Da	· '		
12. Shoreline13. Low-water line	14. Rocks, sho	oals, etc	15r-Bridges	16.
to navigation17Landmarks	_18. Other alongsh	ore physical fea	tures 19. Other	ak
shore cultural features				
	PHYSICAL FEATURE			
20. Water features 21. Natural ground	d cover /2	2. Planetable co	ntours 23. Star	00 3
Instrument contours 24_ Contours In	general	25Spot-elevat	ions26. Other	phy
features				
_				
C	ULTURAL FEATURE	: \$		
			ıltural features	
			iltural features	
,	BOUNDARIES		iltural features	
27. Road s 28. Buildings 29	BOUNDARIES		iltural features	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land lin	BOUNDARIES PRE	30. Other cu		-505
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions	BOUNDARIES Pec MISCELLANEOUS 35. Legib	30. Other cu	uscript	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land lin	BOUNDARIES Pec MISCELLANEOUS 35. Legib	30. Other cu	uscript	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions	BOUNDARIES Pec MISCELLANEOUS 35. Legib	= 30. Other cu ility of the manu tion photograph	uscript	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions 40 37. Descriptive Report	BOUNDARIES Pec MISCELLANEOUS 35. Legib	= 30. Other cu ility of the manu tion photograph	uscript <u>36. Disc</u> 1s 39. Forms _ Steinbrig	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions everlay 37. Descriptive Report 40 Reviewer	BOUNDARIES Pec MISCELLANEOUS 35. Legib	= 30. Other cu ility of the manu tion photograph	uscript <u>36 Disc</u> 1s 39. Forms _ Steinbrig	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions everlay 37. Descriptive Report 40 Reviewer 41. Remarks (see attached sheet)	BOUNDARIES BOUNDARIES BOUNDARIES BOUNDARIES AND SERVICE AND SE	30. Other cu	uscript	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions 6verlay 37. Descriptive Report 40 Reviewer 41. Remarks (see attached sheet)	BOUNDARIES BOUNDARIES MISCELLANEOUS 35. Legib 38. Field inspectors ONS AND CORRECT	= 30. Other cu	uscript	
27. Roads 28. Buildings 29 31. Boundary lines 32. Public land line 33. Geographic names 34. Junctions 37. Descriptive Report 40 Reviewer 41. Remarks (see attached sheet) FIELD COMPLETION ADDITION	BOUNDARIES BOUNDARIES BOUNDARIES BOUNDARIES AND CORRECT COMPANY CORRECT CORRECT COMPANY CORRECT CO	= 30. Other cu	uscript	
28. Buildings 29 31. Boundary lines 32. Public land lines 33. Geographic names 34. Junctions 29 40. Reviewer 41. Remarks (see attached sheet) FIELD COMPLETION ADDITION ADDITIONAL ADDI	BOUNDARIES BOUNDARIES BOUNDARIES BOUNDARIES AND CORRECT COMPANY CORRECT CORRECT COMPANY CORRECT CO	= 30. Other cu	uscript	

REVIEW REPORT T-9625 SHORELINE June 17, 1968

61. GENERAL STATEMENT:

See Summary accompanying the Descriptive Report. PAGE 6

There is no Field Edit Report or Field Edit Sheet for this survey. Field edit evidently consisted of correction notations on the photographs made by the photogrammetrist and a revision to the shoreline by the compilation office. See paragraph E of the Hydrographic Report for H-8359, which is page 36 of this report, and the Field Inspection Report submitted by James P. Randall which is page /3 of this report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with copies of Registered Survey No. 1757, 1:20,000 scale, made in 1888 and No. 4007, 1:10,000 scale, made in 1922. The passage of time along with other changes have caused these surveys to become obsolete. Survey T-9625 supersedes these prior surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS PETERSBURG (A-5), ALASKA, 1:63,360 scale quadrangle, edition of 1953. The two surveys are in good general agreement, the USGS quadrangle being somewhat generalized due to its scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of unreviewed survey H-8243 and reviewed survey H-8359. The shoreline of the hydrographic surveys and manuscript is in good agreement. All differences between the surveys have been noted on the Comparison Print which is bound with this report.

REFER TO PAGE 6

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 8172, 1:40,000 scale, 5th edition, November 23, 1964. The fixed aids to navigation in Dry Pass were evidently established subsequent to field inspection and hydrography in this area. Dry Pass Daybeacon 7, shown on this survey, has been changed to Dry Pass Daybeacon 15.

The dredging in Dry Pass was evidently also subsequent to hydrography. All differences between the chart and this survey have been noted on the Comparison Print.

ADEQUACY OF RESULTS AND FUTURE SURVEYS: .99

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

The following photographs were examined during final review:

Reviewed by:

Approved by:

J. Bull, RADM, Director, Atlantic Marine Center

Approved by:

Chief, Photogrammetric Branch HB meret I.

Form 567 April 1945

F COMMERCE DEPARTMENT

U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS ON/LANDMARKS FOR CHARTS

STRIKE			
) BE CHARTED	7/母红/女野大星打星的		

UT ONE

Baltimore, Maryland

August

.. 1957 I recommend that the following objects which have (hoverage) been inspected from seaward to determine their value as landmarks be charted on (hereal share) the charts indicated.

R. Glaser The positions given have been checked after listing by

CHARTING CHA								MITH	William F. Deane	ane	0	hief of	Chief of Party.
ING DESCRIPTION SIGNAL O 1 DESCRIPTION DELY Pass Daybeacon 7, 12 ft steel pole topped by black banner boards REAK \$6 09 11/55	STATE	S. E. ALASKA				POSITION			METHOD		[TRANS	
Dry Pass Daybeacon 7, 12 ft steel Dry Pass Daybeacon 7, 12 ft steel pole topped by black banner boards pole topped by black banner boards 1, 1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,				Y	TITUDE #	LONG	LONGITUDE *		LOCATION	DATE OF			CHARTS
Dry Pass Daybeacon 7, 12 ft steel pole topped by black banner boards REAK 56 09 1455 14.04	CHARTING	DESCRIPTION			D. M. METERS	•	D. P. METERS	DATUM	SCRVEY ONO.	LOCATION	HENI		
	Daybn	Dry Pass Daybeacon 7, 12 ft steel pole topped by black banner boards		86 09	ļL.,	133 25	53.88	1927	Radiai Flot	1957	M	-	8172
									 				
												-	
	_		ı	•							~		
													<u> </u>
	\$											_	
			•										
									 -				
											<u> </u>	\downarrow	1
												_	
			ند.									-	
			,										
												_	
												_	
				<u>.</u>									
				•									
												_	3/
												_	1

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating

Notes to Reviewer!

Project 6087 T-9625

The elevation of a rock awash about 800 meters SW of LEDGE, 1922 was field inspected on photos 41540 and 41606. Conflicting elevations for the same rock are shown. The higher of the two was noted on the manuscript.

The final reviewer computed an elevation of 6.4 ft.

from the 28 May 1955 data and 8.3 ft. from the

2 June data on the photographs. Probably an elevation

of 7 ft. (mean of the two) Would be a more

realistic elevation.

£13

33

G. SHORELINE AND TO POGRAPHY:-

Shoreline and topographic details are from manuscripts T-9623, T-9624, T-9625 and T-9627 complied by photogrammetric methods based on 1954 and 1955 field inspection data. There is a small amount of shoreline and topographic details on graphic control sheet LJ-A-55. Location of some offshore rocks were duplicated by the hydrographer and others were located which are not on the manuscripts. Kelp areas defined by the hydrographer should be given preference over those indicated on the manuscripts. Shoreline indicated by dashed line on the manuscripts is partially obscured by trees and shadows on the photographs. However it is essentially correct for charting as shown.

The low water line was not defined by soundings except in limited areas of flat bottom such as in Calder Bay. Steep foreshore prevented sounding in to the low-water line along most of the shoreline.

All stations outside the high-water line are on rocks or islets.

Shoreline on the boat sheet is from preliminary manuscripts T-9623, T-9624, T-9625 and T-9627 compiled without projections. Shoreline was transferred to the boat sheet to fit established control.

H. SOUNDINGS:-

All soundings on sounding lines were measured in fathoms with 808 fathometer No. 102-S. Soundings on some rocks and shoals were measured with a hand lead.

All sounding: was routine. No unusual methods were used and no unusual corrections were applied.

Bar checks were taken when weather conditions permitted to a depth of 10 fathoms. Bar checks to 10 fathoms were in agreement with the 2 fm. bar checks, and the correction is entered in the sounding records as part of a combined phase-draft correction. All fathometer soundings are on A scale for which the phase correction is zero.

The fathometer initial was set on zero and any variation from this setting was entered in the sounding records as an index correction.

I. CONTROL OF HYDROGRAPHY: -

All hydrography was controlled by visual sextent fixes on shore stations. No unusual methods were used.

J. ADEQUACY OF SURVEY:-

Tarist 13 B

A CUCCÉ

وود الحن

21.77.1713

The survey is considered complete and adequate to supersede all prior surveys of the area.

All parts of the survey are equally reliable and comply with the Project Instructions and the Hydrographic Manual.

Soundings of adjoining sheets transferred to the boat sheet indicate that junctions are satisfactory and depth curves can be adequately drawn.

There are no holidays.

Duce Park du

H-8243

In the pass between Frince of Wales Island and Middle Island - the line between stations FAD and RYE.

In the pass between Middle Island and Divide Island - the line between stations HOG and CAM.

In the pass between Divide Island and Hamilton Island - a north-south line along longitude 133° 31.1'.

In Shaken Strait - the line between stations CON and MIL. These lines are indicated on the boat sheet.

No time or range corrections were made on observed tides for either gage in their respective areas.

On 21, 23, 24 and 25 May Inner Shakan Bay gage was not in operation. During this period Outer Shakan Bay tides were used in the inner bay with a time difference of plus 15 minutes and a range ratio of 1.0. These values were obtained from the Washington Office (Ltr., ref. 36-161-9821, dated 14 October 1955.).

There are no current stations within the limits of this survey.

E. SMOOTH SHEET:-

Not plotted by field party.

F. CONTROL STATIONS:-

The source of control is triangulation executed by T.J.M. in 1922 supplemented in the northern part of the survey by triangulation executed by Curtis Le Fever in 1954 and by this party in 1955.

Topographic station CRY is a photo-hydro station located in 1954 on T-9624. Other topographic stations in this vicinity west of longitude 135° 34' were also located in 1954 on T-9624 and were relocated in 1955 by other means. Geographic positions were computed for stations COD and BUM from fourth-order theodolite observations. Others were located by planetable on LJ-A-55. Note that station BUM used in 1955 is not the same as photo-hydro station BUM located in 1954 on preliminary manuscript T-9624.

Geographic positions for topographic stations ROS, BOB, PRU, UNA, VAL and WEB were computed from fourth-order theodolite observations.

Topographic stations in Shakan Strait were located by sextant fixes at the station and/or by sextant cuts from other shore stations. These should be shown on the smooth sheet as topographic stations.

Station SAW was located by a short traverse from WAS, 1915-1954. See H-8151. See also LJ-A-55.

All other topographic stations were located by plane-table on graphic control sheet LJ-A-55 (Registry No.).

No positions of stations are known to be of sub-standard accuracy.

PROCESSING OFFICE NOTES H-8243

SMOOTH SHEET

The smooth sheet was hand constructed by the Seattle Wdrogrographic Processing Unit, using standard methods of construction and checking.

CONTROL STATIONS

Control comes from the same source as for the boat sheet.

ADEQUACY OF SURVEY

The survey is complete and adequate for charting.

The junction with H-8151 was compared and found satisfactory. The depth curves can be adequately drawn at the junction.

Junction soundings in El Capitan Passage are not available in the processing office.

COMPARISON WITH CHART

A comparison was made with Chart 8172 3rd Ed. Revised 9/1/58, which was made up from the boat sheet.

See the section of Chart 8172 attached to this report, for discrepancies between the chart and the smooth sheet.

DANGERS AND SHOALS

Items under this heading in the Field Report have been sheeked or corrected to the smooth sheet values.

Respectfully submitted

Approved and forwarded

WILLIAM M.-MARTIN

Supervisory Cartographer

g. Č. Mast

Captain C&GS

Seattle District Officer

CEC 8350 -4-1

E. SMOOTH SHEET:

The projection was hand-made by HODGSON personnel at the Seattle Ship's Base Processing Office.

of 1953-57

Shoreline was transferred from bluelines of T-Sheet Nos. T-9625 (advance) T-10380 (advance), and T-10381 (advance). The shoreline was verified by the photogrammetrist in accordance with standard procedures. Considerable revision was necessary in the entrance to El Capitan Passage near Shakan Strait due to faulty identification by an earlier inspection party. The interpretation of the HWL was generally incorrect. Revisions were made on the field photographs and forwarded early in the season for compilation by the Washington Office. Revised Shoreline applied to Incompilation

F. CONTROL STATIONS:

Triangulation was established in 1922 by T. J. M. Topographic control originated from T-9625, T-10380 and T-10381. of 1953-57

No weakness was determined in the triangulation scheme except as previously pointed out in correspondence listed in Section A of this report. Mis-identification of triangulation stations POINT 1922 and LAST 1922 on photos required a new compilation by the Washington Office.

Likewise, photo-hydro locations of signals south of Aneskett Point were initially weak due to inexperience. This all added to the confusion and complexity of the problems at hand. These photo-hydro locations were resolved in the field. Specifically they are ADD, GAG, BOB and DOG.

G. SHORELINE AND TOPOGRAPHY:

See Topographic Descriptive Report submitted earlier by J. P. Randall on 16 June 1957 which covers the subject material.

H. SOUNDINGS:

The low water line was defined by soundings in areas of gradual sloping beaches. This was confined to that portion of El Capitan Passage west of Long. 133° 18°W. The remaining portions of the passage has steep banks and generally only the 5 fathom curve could be delineated.

Where ever practical and if it was not too congested the h and 6 fathom curve was pencilled. Except in areas of gradual sloping beaches, it is recommended that the practice of running shoreline paralleling the beach in Alaska be reduced in the interest of economy. The author feels that where cross channel lines are run, as was done on the remainder of our 1957 sheets, little information is gained and the hazard of hitting rocks does not justify our added expense of time and equipment. It is estimated that 20 - 30% of our sounding time was devoted to running shoreline.

I. CONTROL OF HYDROGRAPHY:

All hydrography was controlled by sextant fixes taken at required in-

(1953-57

H.8359 Report

Advance notice of new dangers and shoals was previously reported in a Charting Letter to the Director dated 28 May 1957.

Particular advantage was taken of minus tides to properly evaluate the alongshore rocks. Considerable time was saved in locating and obtaining the least depths on rocks showing at low water. This search was conducted by the topographer and noted on his photos. In some cases the hydrographer also obtained fix data on the same rock or group The hydrographers location merely varifies the position and the topographic should be given highest weight. In most cases, the topographer stood on the high point of the rock, whereas, the hydrographer generally stood on the bow of the launch as it touched the edge of the rock or made an estimate of the distance off.

Books in this area tokon from T-9625 There are several locations for the rock in the general area of 56° 09' 50" and 133° 21' 30" The disagreement is because the rock is actually a ledge with several different high points and at various stages of the tide, they appear as detached rooks. (a) a rock located by the topographer and not verified by the hydrographer is located at Lat 56° 09' 55" and Long. 133°25' 28" A study of the topographic records previously forwarded should be made and it should be charted

until proven otherwise. to field party and not available at time of Review.

(a) Photos returned to field party and not available at time of Review.

0. COAST PILOT of photos. I.M.Z. (9-27-59)

See Coast Pilot Report previously submitted and also Sections M and C of this report. men Miller

P. AIDS TO NAVIGATION

obt 9

The position of Day Beacon No. 7 west of Dry Pass is the only fixed aid to navigation located on this sheet. It was reported on form 567 which was submitted for the entire season.

A list of Floating Aids follows:

A list of Floating	vrda rorro	WB1 (1) (1) (1) (1)	And the west of the
The Name and the managers L	atitude	Longitude	Depth Pos. No.
Dry Pass Spar Buoy 9 5	6* 09* 22*	133° 27' 07"	Vol.6p14
Dry Pass Spar Buoy 5 5	6° 09' 55"	133° 25' 34"	0.6 f 19 c
Dry Pass Spar Buoy 3 5	6°. 09! 34"	133° 23° 18"	1.1 f 660
Dur Page Snow Bross 2 . 5	6. 001 224	1220 021 120	4/19/57 Vol 7p33
Dry Pass Spar Buoy 1 5	siumeta jo	30 BAR 28	16/21 3
It is the without of the first of the set hand of the first of the fir	plantan that,	The Contract of the	5/9/57 by the state of the stat