11100

11100

Diag. Cht. Nos. 8152-2 & 8201-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. Ph-87 *Office No.* T-11100

LOCALITY

State Alaska

General locality Tuxekan Passage

Locality Tuxekan

19 53

CHIEF OF PARTY

C.A.Schanck, Chief of Field Party

E.H.Kirsch, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE November 10, 1959

B-1870-1 (1)

DATA RECORD

T-11100 (Ph-87)

Project No. (II): Cs-347 Quadrangle Name (IV):

Field Office (II): Chief of Party: Charles A. Schanck

Photogrammetric Office (III): Baltimore, Md. Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 11 June 1952 Copy filed in Division of Photogrammetry (IV)

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): 17 Feb 1959

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N.A. 1927 unadjusted Vertical Datum (III):

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): ISLE, 1953 The adjusted station pos is noted below.

Lat.: 55° 53' 44.425" (1373.9m) (1373.8m) Long.: 133° 15' 48.934" (850.5m) (853.9) Unadjusted ~~Adjusted~~

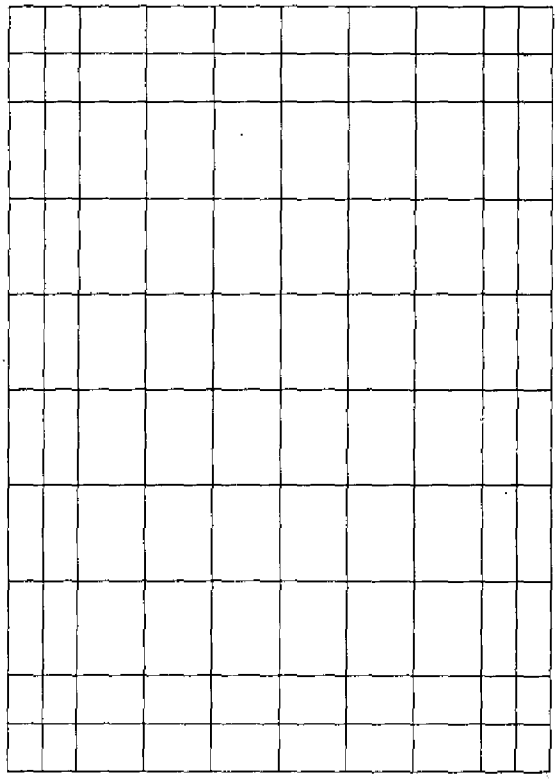
Plane Coordinates (IV): State: Zone:

Y= X= All other stations listed on form 2388-12 in this report have adjusted positions. EET/1963

Some as much as 4m

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.



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): William D. Barbee — Date: 27 Jun-15 July 1953

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): 1953 - Photogrammetric (Verified by planetable)

Projection and Grids ruled by (IV): A. Riley — Date: 10/22/53

Projection and Grids checked by (IV): H. D. Wolfe — Date: 10/28/53

Control plotted by (III): R. Glaser — Date: 11/25/53

Control checked by (III): H. R. Rudolph — Date: 11/25/53

Radial Plot ~~or Stereoscopic~~ ~~Control Extension~~ by (III): H. R. Rudolph — Date: 12/8/53

Stereoscopic Instrument compilation (III):
Planimetry — Date:
Contours — Date:

Manuscript delineated by (III): J. B. Phillips — Date: 1/20/54

Photogrammetric Office Review by (III): R. Glaser — Date: 1/21/54

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

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
41529 thru 41531	8/22/53	11:18	1:10,000	8.2 above MLW
41593 thru 41596	8/22/53	12:31	1:10,000	8.5 above MLW
41641 thru 41644	8/22/53	13:00	1:10,000	8.2 above MLW
41645 thru 41646	8/22/53	13:10	1:10,000	8.1 above MLW

Tide (III)
From predicted tables

Ratio of Ranges	Mean Range	Diurnal Spring Range
1.1	8.8	
1.1	8.8	10.9

Reference Station: SITKA, ALASKA
Subordinate Station: CYRUS COVE, SEA OTTER SOUND
Subordinate Station:

Washington Office Review by (IV): Lina T. Stevens Date: 21 April, 1954

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 4 sq. mi.
Shoreline (More than 200 meters to opposite shore) (III): 16 mi.
Shoreline (Less than 200 meters to opposite shore) (III): 4 mi.
Control Leveling - Miles (II): / established: 39 * Recov: -- Identified: 17
Number of Triangulation Stations searched for (II): 2 ** Recovered: 2 Identified: 1
Number of BMs searched for (II): None Recovered: Identified:
Number of Recoverable Photo Stations established (III): None - Recovered: 2
Number of Temporary Photo Hydro Stations established (III): None

Remarks: * Stations established in 1953
** One station established 1952, one established 1922

2. Areal field inspection

Tuxekan Passage is a little-used waterway on the west coast of Prince of Wales Island. Although there is no large scale commercial traffic in this general area, Tuxekan Passage will probably become a more popular waterway for fishing craft, small tugs, etc. upon completion of a nautical chart.

The shoreline in the northern part of the Passage is irregular, with many bays, abrupt coves, wooded islands, islets, ledges, and off-lying rocks. Although the shoreline and foreshore are generally steep and rocky, the foreshore in the heads of bays and coves almost invariably consists of sand and gravel flats. The passage is flanked on both sides by heavily wooded, steep hills that rise to a general elevation of 300-500 feet. The trees extend to the high water line, and in some cases overhang it.

Field inspection was accomplished in accordance with paragraphs 7-11, INSTRUCTIONS—PROJECT CS-347 dated 11 June 1952, and paragraphs 3-7, SUPPLEMENTAL INSTRUCTIONS, dated 16 March 1953. It began at the northern limit of the 1952 inspection, and extended north to the project limits of the Tuxekan Island portion of project CS-347. In the area of 1952 field inspection small areas of shoreline were incorrectly deliniated on manuscript T-11101. These areas are northeast of triangulation station CINDER 1952, and south of triangulation station SHELF 1952. These descrepancies were corrected by rodding in the shoreline on planetable sheet PA-D-53. Foreshore characteristics as requested in Compilation Reports for T-11101, 11102, and 11103 were also obtained in the 1952 area of inspection. These were inked on field photographs as additional notes.

Photographic coverage consisted of single lens aerial photographs by the Navy in 1948 at contact scale of 1:40,000. Ratio prints at a scale of 1:20,000 were provided for field use. Definition on these prints is poor, and station identification was difficult. Coverage is poor in some portions of the project; this poor coverage together with obstruction of the high water line by trees made it necessary to make shoreline inspection notes for some small portions of beach on two or more photographs.

3. Horizontal control

Horizontal control consists of a scheme of triangulation accomplished by the Ship PATTON during 1953. It is a continuation of the scheme begun by Ship LESTER JONES in 1952; the scheme terminates in a connection with C&GS triangulation established in 1922

Horizontal control stations were identified on photographs SEA 15-27, 28, 29; 22-102; 101-191, 192, 193, 194; and 103-39.

The following 18 stations were identified in accordance with Photogrammetry Instructions No. 22:

STATION	PHOTOGRAPH	METHOD OF IDENTIFICATION
ALONG	SEA 22-102	Pricked direct
BOOM	15-28	Sub point
BURN	101-194	Pricked direct
CENTER	15-27	Pricked direct
CLEAR	15-29	Sub point
DOUBLE	22-102	Sub point
HEAD	15-27	Sub point
HUB, 1922	101-191	Sub point
ISLE	101-193	Sub point
MITRE	15-28	Sub point
MONK	15-29	~~Sub point~~ Pricked direct
NECK	15-28	Sub point
PROMISE	101-191	Sub point
SHALLOW	15-28	Sub point
SWITCH	101-192	Sub point
THUMB	101-191	Sub point
TRIP	103-39	Sub point
ZEBRA	15-27	Sub point

4. Vertical control

Inapplicable.

5. Contours and drainage

Contours--inapplicable.

There are no important streams in this portion of Tuxekan Passage. All streams inspected in the area were found to be intermittant. It should be remembered, however, that most of the inspection was done at the end of the dry season in an unusually dry year. Some of these small streams have definite channels; they are clearly defined on the photographs well inshore.

6. Woodland cover

Almost the entire area is heavily wooded. Conifers--hemlock, spruce and cedar--comprise the major portion of the cover, with the cedars favoring low, wet areas. Extensive logging operations have been conducted in this area. These operations spanned a number of years, and all but the oldest cuts show well on the photographs. Scattered patches of alder, and crabapple can be found along the beach; they favor streams, and the heads of bights and bays.

Summary to Accompany T-11100

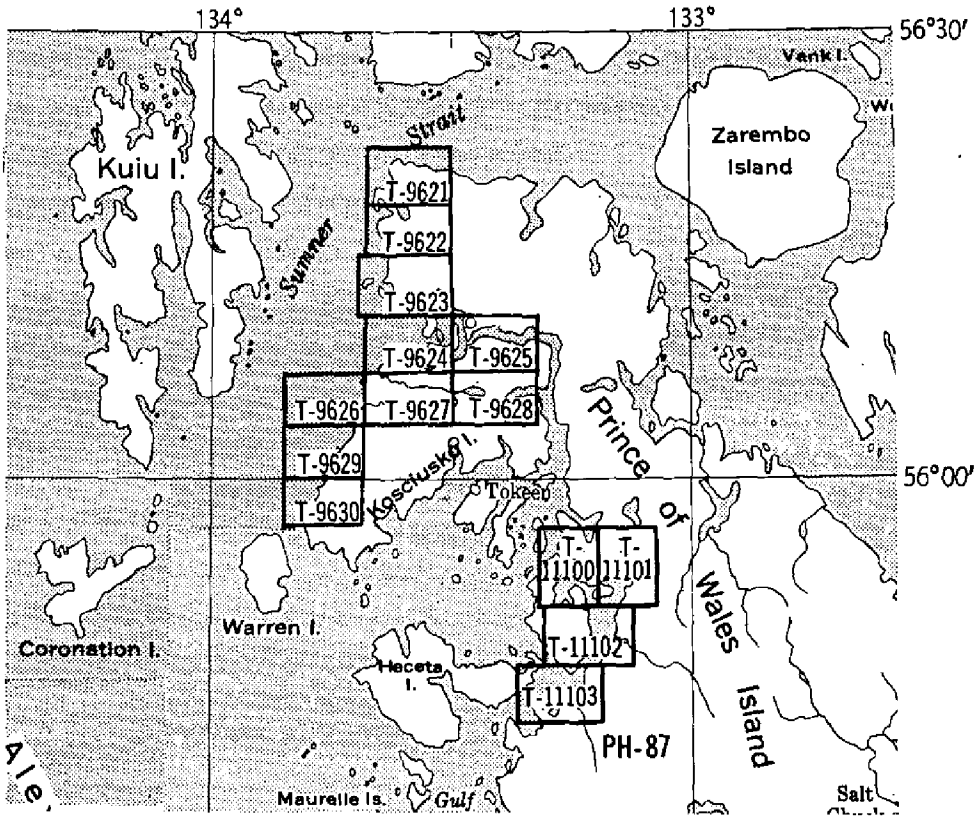
Shoreline project Ph-87 has two parts: T-9621 (Pt. Baker) to T-9630 (Cape Pole) at the north end of Prince of Wales Island and the southwest tip of Kosciusko Island, respectively; and T-11100 to T-11103, covering Tuxekan Passage. The project carries out the photogrammetric phase of Coastal Surveys project CS-347 for which instructions were issued 11 June 1952 and 3 June 1953.

Field inspection for this map area was made in 1953. It included establishment of control; delineation of shoreline, rocks, and shoals on 1:20,000 photographs; and descriptive notes for alongshore features. In 1953 five planetable surveys were made. They have been fully utilized in the final compilations of map manuscripts T-11100 to T-11103 so that they will not be retained in the Bureau Archives.

T-11100 includes that part of Tuxekan Passage between Little Naukati Bay and the entrance to El Capitan Passage.

SHORELINE MAPPING PROJECT PH-87

Tuxekan Passage & Sumner Strait, ALASKA



PH-87

OFFICIAL MILEAGE FOR COST ACCOUNTS

SHEET NO.	AREA SQ. MILES	LIN. MILES SHORELINE
T-11100	32	32
T-11101	9	9
T-11102	18	18
T-11103	16	16
T-9621	12	12
T-9622	16	16
T-9623	15	15
T-9624	17	17
T-9625	21	21
T-9626	4	4
T-9627	15	15
T-9628	14	14
T-9629	5	5
T-9630	7	7
TOTALS	201	201

7. Shoreline and alongshore features

All shoreline within this area was inspected from a small-boat, from close inshore. The inspection party consisted of an inspector, a helper, and an outboard motor operator. The party operated as close inshore as practical; stops were made at areas which could not be easily deliniated, for scrutiny of the high water line, check measurements, etc.

Since graphic control surveys were conducted by this party over the area of inspection, and since the nature of the area necessitated mumerous set-ups in all areas, materially more MHWL was rodded in than would ordinarily be the case. In addition to the small section of MHWL customarily rodded at each set-up, all of the areas of importance which were incorrectly deliniated on manuscript T-11100 were rodded in. A considerable portion of the large bay southwest of Tuxekan Village was deliniated on manuscript correctly, but was still rodded in, since it was expected that some difficulty would be encountered in compilation due to remoteness of control.

Major areas of shoreline deliniated by planetable methods are shown on the attached sketch. These areas are on planetable sheets PA-D-53, and PA-E-53. It is recommended that the areas so depicted be made a part of the manuscript.

The only cultural features in the area are: (a) a small log and boulder retaining wall near the site of Tuxekan Village. This wall is on MHWL; it is not conspicuous from offshore. , and (b) two small cabins, apparently abandoned, on the west side of the most westerly of the two wooded islands at the north limit of T-11100.

8. Offshore features

Elevations were determined for all rocks, reefs, and extensive ledges. Elevations were estimated from the water surface, and were recorded directly on the photographs together with the time and date. Since no attempt was made to view these features at low or minus tides, and since a hydrographic survey was conducted concurrently, no attempt was made to deliniate low water line on the photographs. The hydrograqhic party did view these features at favorable tides, and for this reason, it is recommended that Boatsheet PA-1353 be the authority for elevation and outline of offshore features.

9. Landmarks and aids

There are no landmarks for nautical charts.

The three fixed aids to navigation, Aikens Rock Daybeacon, Village Rock Daybeacon, and Hub Rock Daybeacon, were located by triangulation. Forms 525 and 567 have been submitted for these aids.

The only floating aid--El Capitan Passage Buoy 1--was located by the hydrographic party on PA-1353.

10. Boundaries, monuments, and lines.

Inapplicable.

11 Other control

Two marked topographic stations were recovered. They are Let, established 1922, and Gum, established 1922. They are within a few meters of triangulation stations BUBBLE and DOUBLE respectively. For information as to location, see description of above named triangulation stations.

12. Other interior features

Inapplicable

13. Geographic names

A special report on geographic names will be submitted. It will cover both the 1952 and 1953 areas of field inspection.

14. Special reports and supplemental data

	TITLE	DISPOSITION
1.	Photogrammetric field data	Washington office 9-29-53
2.	Triangulation data	" " "
3.	Triangulation Report, Cs-347, Ship PATTON, 1953	" " "
4.	Geographic Names Report	To be forwarded to Washington Office.
5.	Planetable sheets PA-D-53 and PA*E-53	To be forwarded to Washington Office.
6.	SEASONS REPORT-Ship PATTON-CS-347-Tuxekan Passage-1953	To be forwarded to Washington Office.

15-20

Not used.

Respectfully submitted,

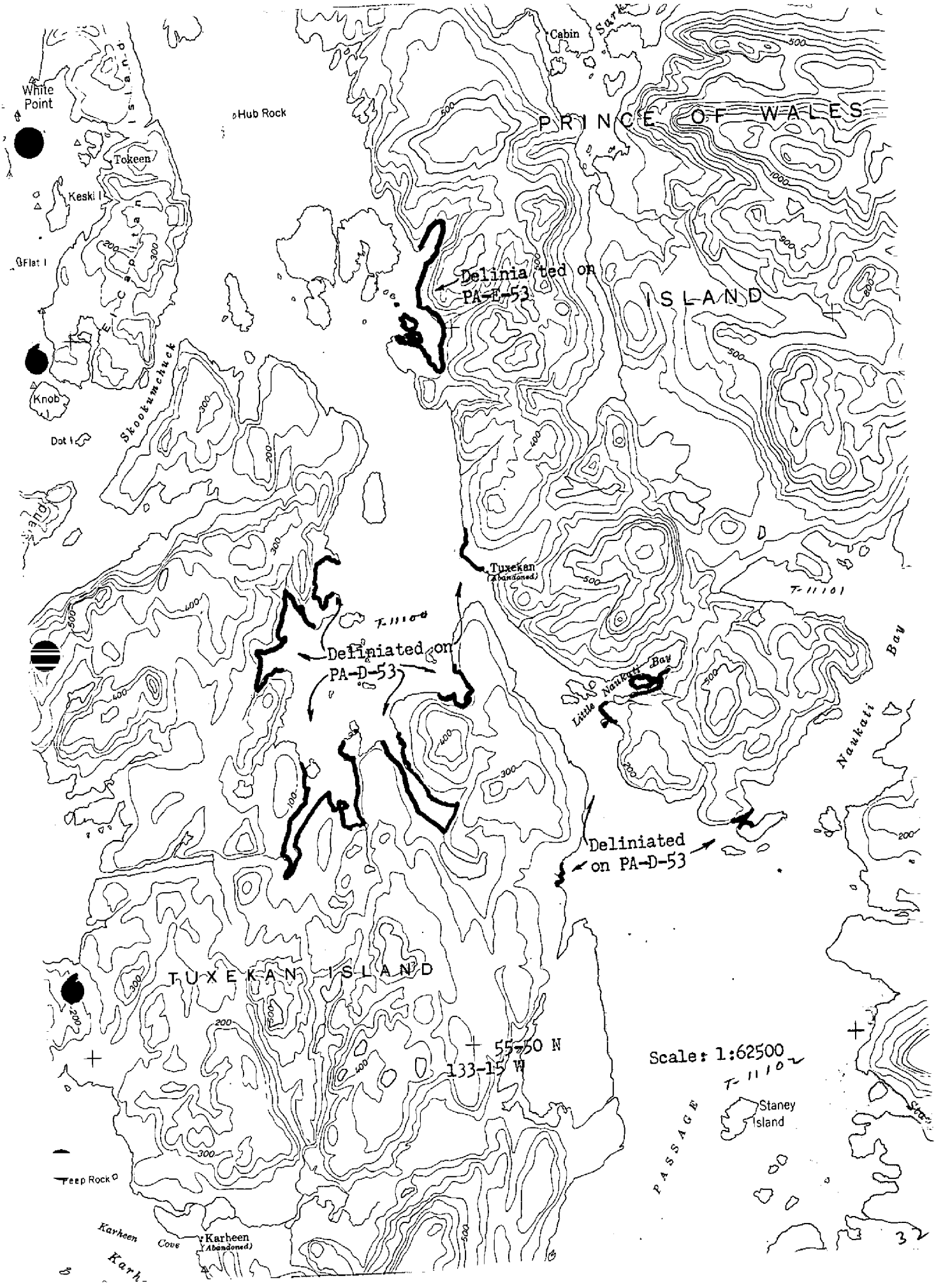
William D. Barbee

William D. Barbee
Ens, USC&GS

Approved and forwarded

Charles A. Schanck

Charles A. Schanck
CDR USC&GS
Comdg. Ship PATTON


White Point
Hub Rock
Cabin
Sark
PRINCE OF WALES
ISLAND
Tokeen
Keski I
Flat I
Delinia ted on
PA-E-53
Knob
Dot I
Skookumchuck
Tuxekan
(Abandoned)
T-11101
T-11100
Deliniated on
PA-D-53
Little Naukati Bay
Naukati Bay
Deliniated
on PA-D-53
TUXEKAN ISLAND
55-50 N
133-15 W
Scale: 1:62500
T-11101
Staney
Island
PASSAGE
Peep Rock
Karheen Cove
Karheen
(Abandoned)

NOTES TO COMPILER

A total of 188 topographic stations were located within the limits of T-11100, on planetable sheets PA-D-53 and PA-E-53. Of these, all are within 2 meters of MHWL with the exception of the following:

Abe	Con	Fan	Mew	Pin	Ubi
Act	Coy	Gab	Mop	Rim	Ute
Ada	Cue	Gem	New	Rye	Vim
Ago	Day	Hen	Ora	Sty	Was
Ali	Did	Hoe	Pet	Sub	Wat
Bif	Doe	Its	Pie	Tub	Zag
Car	Eva				

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-87
Survey No. T-11100

21. AREA COVERED

This radial plot covers the area of Survey No. T-11100. It is a shoreline survey located along Tuxekan Passage, Alaska from Hub Rock southeasterly to south of Little Naukati Bay.

22. METHOD-RADIAL PLOT

Map Manuscript:

A vinylite sheet with polyconic projections in black and Universal Transverse Mercater, Alaska, Zone 8, grids in red, at a scale of 1:10,000, was 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 layout of the survey in this plot and the distribution of control and photograph centers, is attached to this report. A list of horizontal control stations is also attached to this report.

Photographs:

All photographs used in the plot are nine-lens unmounted photographs taken at a scale of 1:10,000 on 22 August 1953. Eleven photographs were used in the plot, numbered as follows:

41529 thru 41531
41593 thru 41596
41641 thru 41644

Standard symbols were used on the photographs.

Templets:

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

Closure and Adjustment of Control:

Vinylite base sheets were prepared by transferring all identified control to the base sheets from the manuscript for survey No. T-11100 and the control for surveys T-11101 and T-11102 that could be identified on the 1953 photography. This transfer of control was made by matching common grid lines.

The radial plot was constructed on the base sheets.

22. METHOD-RADIAL PLOT (cont'd)

Closure and Adjustment of Control: (cont'd)

The templets which contained control established in both 1952 and 1953 were laid first: Then, the middle flight was continued northward until a tie was made with control station HUB HOCK DAY BEACON, 1953 which was identified as substitute station "A" for HUB, 1922. Then the side flights were laid. Several stations could not be held perfectly in this first attempt. Some of the templets were relaid favoring those control points that could be accurately identified on the office photographs. The identification, on the office photographs of those stations that could not be held was thoroughly examined. Since most of the identified objects were trees whose images could not be accurately identified due to shadows and relief displacement, several were repricked and a satisfactory plot was made. A radially plotted position was established for only one station.

Transfer of Points:

The positions of all pass points and photo centers were pricked directly on the map manuscript by superimposing the manuscript on the templets and matching common grid lines.

23. ADEQUACY OF CONTROL

As previously stated, only one control station could not be held in the plot.

Sub. Pt. MITRE, 1953: The radially plotted position of the sub pt. falls 0.5 mm northwest of its computed position. This is due to inaccurate identification on the office photographs.

All other control was held on most of the photographs with some radial lines falling tangent to the stations.

The tie-in with the control on surveys Nos. T-11101 and T-11102 was very good.

The transfer of control from single lens field photographs taken at a scale of 1:40,000, ratioed to scale 1:20,000 during June 1948, to the nine-lens office photographs taken at a scale of 1:10,000 on 22 August 1953 was very difficult.

The distribution of control was adequate.

24. SUPPLEMENTAL DATA:

No graphic control surveys were used in this radial plot.

25. PHOTOGRAPHY

The photography was adequate. No tilt determinations were made. The definition is fair where not obscured by shadow or trees along the shoreline.

Approved and forwarded

E. H. Kirsch

E. H. Kirsch
Comdr. USC&GS
Balto. Photo. Office

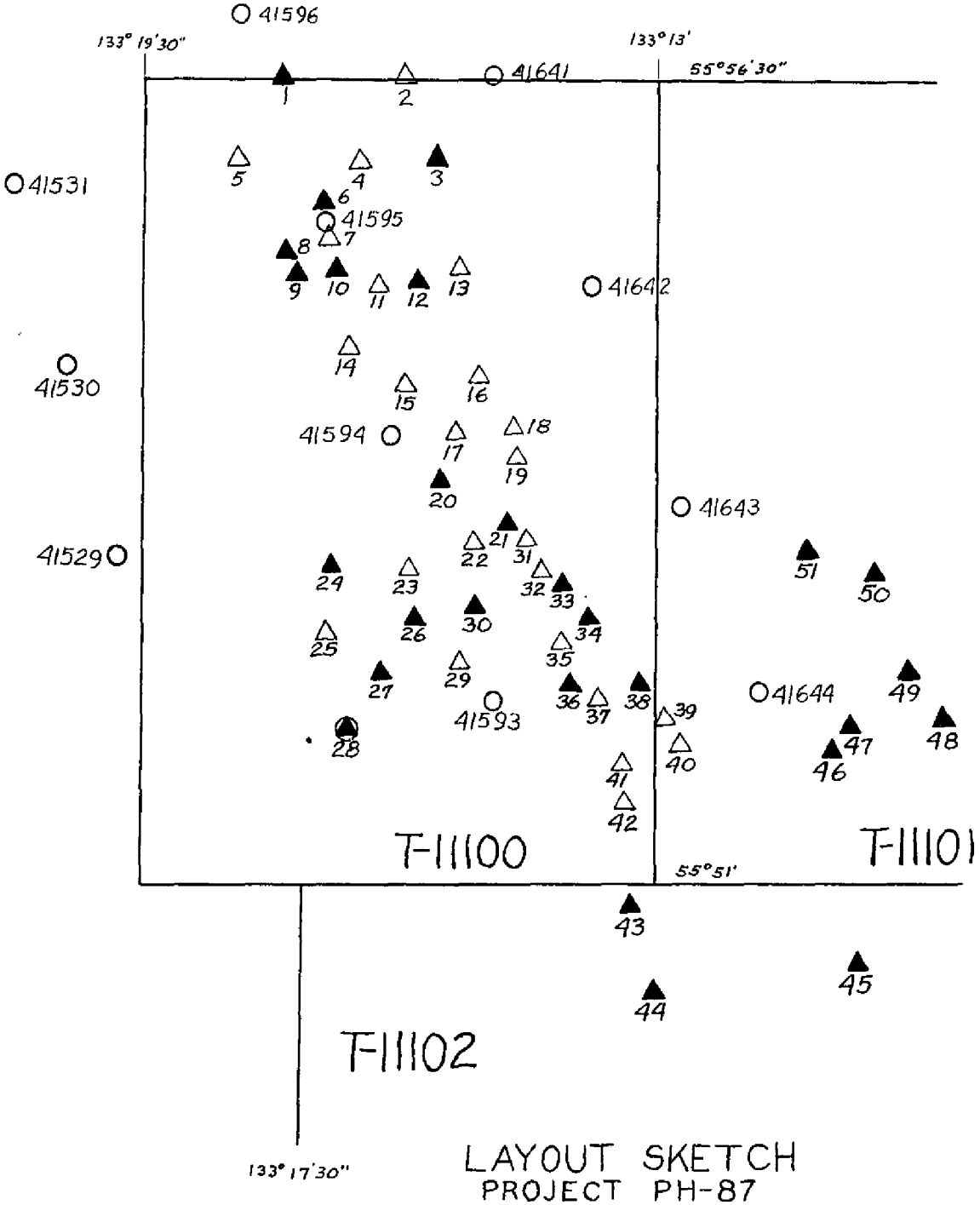
Respectfully submitted
8 December 1953
Harry R. Rudolph
Harry R. Rudolph
Carto Aid (Photo)

LIST OF CONTROL

No.	Neme of Station	Identification
1.	HUB, 1922	Sub. Pt.
1	HUB ROCK DAY BEACON, 1953	Direct
2	FINGER, 1953	None
3	ALONG, 1953	Direct
4	SIAMESE, 1953	None
5	SHOCK, 1953	None
6	THUMB, 1953	Sub. Pt.
7	BUBBLE, 1953	None
8	PROMISE, 1953	Sub. Pt.
9	HEAD, 1953	Sub. Pt.
10	DOUBLE, 1953	Sub Pt.
11	TROUBLE, 1953	None
12	SWITCH, 1953	Sub Pt.
13	TAIL, 1953	None
14	TRIMI, 1953	None
15	OVER, 1953	None
16	HOLE, 1953	None
17	AIKENS, 1953	None
17	AIKENS ROCK DAY BEACON, 1953	None
18	SOON, 1953	None
19	NAZI, 1953	None
20	ISLE, 1953	Sub. Pt.
21	SHALLOW	Sub. Pt.
22	VILLAGE, 1953 (VILLAGE ROCK DAY BEACON)	None
23	TURN, 1953	None
24	ZEBRA, 1953	Sub. Pt.
25	SNUCK, 1953	None
26	CENTER, 1953	Direct
27	NECK, 1953	Sub. Pt.
28	MITRE, 1953	Sub. Pt.
29	TRY, 1953	None
30	BOOM, 1953	Sub. Pt.
31	RUIN, 1953	None
32	TUXEKAN, 1953	None
32	POINT, 1953	None
32	NARROW, 1953	None
33	CLEAR, 1953	Sub. Pt.
34	MONK, 1953	Direct
35	BRUSH, 1953	None
36	TRIP, 1953	Sub. Pt.

LIST OF CONTROL (Cont'd

No.	Name of Station	Identification
37	WILL, 1953	None
38	BURN, 1953	Direct
39	BUCK, 1953	None
40	DEER, 1953	None
41	SNAG, 1953	None
42	SHELF, 1952	None
43	KRAUSE, 1952	Sub. Pt.
44	BROWN, 1952	Sub. Pt.
45	NAUKATI, 1952	Sub. Pt.
46	TIMBER, 1952	Sub. Pt.
47	CALF, 1952	Sub. Pt.
48	REEF, 1952	Sub. Pt.
49	BEAR, 1952	Sub. Pt.
50	TROUT, 1952	Direct
51	STAR, 1952	Direct



LAYOUT SKETCH
PROJECT PH-87
Survey No T-11100

○ NINE LENS PHOTOGRAPHS
▲ CONTROL STATION (Identified)
◭ CONTROL STATION (Not held in plot)
△ CONTROL STATION (Not identified)

Photogrammetry

MAP T- 11100 PROJECT NO. Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
HUB, 1922	G-10200 p. 4	N.A. 1927	55 56 30.455			941.9	913.8		
			133 17 45.611			791.7	249.8		
HUB ROCK DAY BEACON, 1953			55 56			922.8	932.9		
			133 17			784.2	257.4		
Sub. Pt. B HUB, 1922			55 56			949.6	906.1		
			133 17			796.6	245.0		
FINGER, 1953	G-10200 p. 7	N.A. 1927	55 56 30.144			932.2	923.4		
			133 16 10.774			187.0	854.4		
SKOOK, 1953	" p. 4	"	55 55 55.953		1731.1	1730.5	125.2		
			133 18 20.912		367.8	363.1	678.7		
SIAMESE, 1953	"	"	55 55 51.751			1600.5	255.1		
			133 16 50.155			870.9	170.9		
ALONG, 1953	" p.6	"	55 55 58.115			1797.3	58.3		
			133 15 55.689			966.9	75.0		
THUMB, 1953	" p. 4	"	55 55 38.761		1199.4	1198.8	656.9		
			133 17 13.463		238.3	233.8	808.0		
Sub. Pt. THUMB, 1953			55 55			1195.6	660.1		
			133 17			242.4	799.4		
BUBBLE, 1953	G-10200 p. 3	N.A. 1927	55 55 24.960		772.5	772.0	1083.6		
			133 17 12.233		216.9	212.4	829.5		
PROMISE, 1953	" p. 4	"	55 55 22.421			693.4	1162.2		
			133 17 43.874			761.9	280.0		
Sub. Pt. PROMISE, 1953			55 55			627.7	1227.9		
			133 17			737.2	304.7		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J. King DATE 10 November 1953 CHECKED BY: F. Wisiecki DATE 19 November 1953

Photogrammetry

MAP T-11100 PROJECT NO. Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
HEAD, 1953	G-10200 p. 3	N.A. 1927	55 55 09.538			295.4	295.0	1560.6		
			133 17 33.783	III 92-1 Alaska		591.2	586.7	455.3		
Sub. Pt. HEAD, 1953			55 55				350.4	1505.2		
			133 17				636.5	405.5		
DOUBLE, 1953	G-10200 p.3	N.A. 1927	55 55 09.450	III 92-1		292.8	292.3	1563.4		
			133 17 05.552			100.8	96.4	945.6		
Sub. Pt. A DOUBLE, 1953			55 55				269.5	1586.2		
			133 17				96.9	945.1		
Sub. Pt. B DOUBLE, 1953			55 55				278.5	1577.2		
			133 17				83.9	958.1		
TROUBLE, 1953	G-10200 p. 3	N.A. 1927	55 55 02.299	III 92-1		71.6	71.1	1784.5		
			133 16 37.996			664.1	660.0	382.2		
SWITCH, 1953	"	"	55 55 04.236			131.6	131.0	1724.6		
			133 16 05.881	III 92-1		106.1	102.1	940.0		
Sub. Pt. SWITCH, 1953			55 55				143.3	1712.3		
			133 16				80.2	961.9		
TAIL, 1953	G-10200 p. 7	N.A. 1927	55 55 11.221				347.0	1508.6		
			133 15 41.287				717.0	325.0		
TRIMI, 1953	G-10200 p. 3	"	55 54 43.968	92-0 III		1360.1	1359.8	495.8		
			133 16 55.145			962.1	957.8	83.4		
HOLE, 1953	"	"	55 54 29.868				923.8	931.9		
			133 15 21.947				381.3	661.1		
OVER, 1953	"	"	55 54 24.147	P 92-0 III Alaska		747.0	746.8	1108.8		
			133 16 14.905			262.8	258.9	783.4		

1 FT. = .3048006 METER

COMPUTED BY: J. King DATE 10 November 1953 CHECKED BY: F. Wisiecki DATE 19 November 1953

M-2388-12

Photogrammetry

MAP T-11100 PROJECT NO. Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
AIKENS, 1953	G-10200 p. 3	N.A. 1927	55 54 02.336			72.2	1783.4		
			133 15 35.275			613.0	429.6		
SOON, 1953	"	"	55 54 07.299			225.7	1629.9		
			133 14 54.714			950.7	91.8		
NAZI, 1953	G-10200 p. 2	"	55 53 53.308			1648.7	207.0		
			133 14 53.244			925.3	117.4		
ISLE, 1953	"	"	55 53 44.425			1373.9	481.7		
			133 15 48.934			850.5	192.3		
Sub. Pt. ISLE, 1953			55 53			1361.2	494.4		
			133 15			845.8	197.0		
SHALLOW, 1953	G-10200 p. 2	N.A. 1927	55 53 27.932			863.9	991.8		
			133 14 55.491			964.4	78.3		
Sub. Pt. SHALLOW, 1953			55 53			863.0	992.7		
			133 14			955.8	86.9		
VILLAGE, 1953 (VILLAGE ROCK DAY BEACON)	G-10200 p. 2	N.A. 1927	55 53 21.827			675.1	1180.6		
			133 15 16.728			290.8	752.1		
RUIN, 1953	"	"	55 53 21.180			655.1	1200.6		
			133 14 40.726			707.8	335.0		
ZEBRA, 1953	G-10200 p. 6	"	55 53 08.294			256.5	1599.1		
			133 17 09.476			164.8	878.2		
Sub. Pt. ZEBRA, 1953			55 53			261.4	1594.2		
			133 17			161.4	881.6		
TURN, 1953	G-10200 p. 6	N.A. 1927	55 53 03.393			104.9	1750.7		
			133 16 05.647			98.2	944.8		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J. King DATE 10 November 1953 CHECKED BY: F. Wisiecki DATE 20 November 1953

Photogrammetry

MAP T-11100 PROJECT NO. Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
POINT, 1953	G-10200 p. 2	N.A. 1927	55 53 08.079			250.0	1605.8		
			133 14 40.185			698.5	344.4		
TUXEKAN, 1953	"	"	55 53 09.484			293.3	1562.3		
			133 14 27.265			473.9	569.0		
NARROW, 1953	"	"	55 53 04.961			153.4	1702.2		
			133 14 36.821			640.1	402.9		
CLEAR, 1953	"	"	55 53 00.825			25.5	1830.1		
			133 14 17.169			298.5	744.5		
Sub. Pt. CLEAR, 1953			55 53			31.9	1823.7		
			133 14			299.3	743.7		
MONK, 1953	G-10200 p. 1	N.A. 1927	55 52 50.264			1554.5	301.1		
			133 13 56.238			977.8	65.5		
CENTER, 1953	" p. 6	"	55 52 48.161			1489.5	366.2		
			133 16 01.954			34.0	1009.2		
BOOM, 1953	"	"	55 52 46.815			1447.9	407.8		
			133 15 21.574			375.0	668.0		
Sub. Pt. BOOM, 1953			55 52			1451.2	404.5		
			133 15			371.2	671.8		
SNUCK, 1953	G-10200 p. 6	N.A. 1927	55 52 38.569			1192.8	662.8		
			133 17 10.916			189.9	853.5		
AIKENS ROCK DAY BEACON, 1953	G-10200 p. 7	"	54 54 02.311			71.5	1784.2		
			133 15 35.451			616.1	426.6		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: J. King DATE 10 November 1953 CHECKED BY: F. Wisiecki DATE 20 November 1953

MAP T-11100 PROJECT NO. Ph-87 SCALE OF MAP 1:10,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
TRY, 1953	G-10200 p. 6	N.A. 1927	55 52 29.467				911.4	944.3		
			133 15 36.640				637.0	406.1		
NECK, 1953	"	"	55 52 24.496				757.6	1098.0		
			133 16 31.869				554.1	489.2		
Sub. Pt. NECK, 1953			55 52				774.4	1081.2		
			133 16				551.5	491.8		
MITRE, 1953	G-10200 p. 6	N.A. 1927	55 52 05.029				155.5	1700.1		
			133 16 53.224				925.6	117.8		
Sub. Pt. MITRE, 1953			55 52				142.9	1712.7		
			133 16				942.3	101.1		
BRUSH, 1953	G-10200 p. 2	N.A. 1927	55 52 39.908				1234.2	621.4		
			133 14 15.273				265.6	777.6		
TRIP, 1953	" p. 1	"	55 52 25.452				787.2	1068.4		
			133 14 04.471				77.7	965.5		
Sub. Pt. TRIP, 1953			55 52				786.4	1069.2		
			133 14				81.8	961.4		
BURN, 1953	G-10200 p. 1	N.A. 1927	55 52 17.977				556.0	1299.6		
			133 13 10.784				187.5	855.9		
WILL, 1953	"	"	55 52 14.019				433.6	1422.0		
			133 13 43.230				751.8	291.6		
SNAG, 1953	"	"	55 51 51.402				1589.7	265.9		
			133 13 26.241				456.4	587.2		
SHELF, 1952	"	"	55 51 34.247				1059.2	796.5		
			133 13 24.621				428.3	615.4		

1 FT. = .3048006 METER

M-2368-12

COMPUTED BY J. King DATE 10 November 1953 CHECKED BY F. Wisiecki DATE 20 November 1953

COMPILATION REPORT

T-11100

31. DELINEATION

This manuscript was delineated by graphic methods. The ratio reflecting projector was used to delineate several areas on the manuscript where scale differences were found to exist between the photographs and the manuscript.

32. CONTROL all stations are unadjusted see data record

The identification, density and placement of horizontal control was found to be adequate.

33. SUPPLEMENTAL DATA

Planetable survey sheets PA-E-53 and PA-D-53 were furnished to supplement the shoreline field inspection.

34. CONTOURS AND DRAINAGE

Inapplicable

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline inspection was adequate excepting for several areas where the shoreline was not visible on the photographs due to relief displacement of trees and shadows. Where this was the case, the shoreline has been shown with a dashed line.

Many of the areas which are shown on the manuscript with a ledge symbol have been office identified.

The field inspection report describes heavily wooded steep hills which seem to characterize the area, but no data were available concerning bluffs of value to navigation. No bluffs were delineated.

36. OFFSHORE DETAILS

Delineation of detail offshore from the high-water line which are above the plane of mean high water are believed to be complete. Details between the planes of mean high-water and mean lower low-water which have not been field inspected will be completed by the hydrographic party.

37. LANDMARKS AND AIDS

Three daybeacons appear on the manuscript as triangulation stations. Forms 567 have been submitted by the field party.

(See item 9 - field report)

37. LANDMARKS AND AIDS (cont'd)

38. CONTROL FOR FUTURE SURVEYS Plotted control is adjusted

See para. 11 - Field Report.

39. JUNCTIONS

Junction has been made and is in agreement to the east with T-11101 and to the south with T-11102. To the north and west there was no contemporary survey.

40. HORIZONTAL AND VERTICAL ACCURACY -

No comment. See data record

41. - 45.

Not applicable

46. COMPARISON WITH EXISTING MAPS

This manuscript has been compared with a section of a U.S. Geological Quad, scale 1:62,500, CRAIG (C-5) Alaska, 1951.

47. COMPARISON WITH NAUTICAL CHARTS

Manuscript T-11100 has been compared with Nautical Chart 8171, scale 1:40,000, published June 1947, corrected to 9/2/52.

Items to be applied to Nautical Charts immediately:
None.

Items to be carried forward:
None.

Approved and Forwarded

E. H. Kirsch

E. H. Kirsch
Comdr. USC&GS
Officer in Charge

Respectfully submitted
25 January 1954

Jacqueline B. Phillips

Jacqueline B. Phillips
Carto. Photo. Aid

48. GEOGRAPHIC NAME LIST

Prince of Wales Island

Tuxekan Island

Tuxekan Passage

Names approved
4-21-54
a.f.d.

49. NOTES FOR THE HYDROGRAPHER

Two marked topographic stations, LET, 1922 and GUM, 1922 were recovered by the field party, but no Forms 524 were submitted. They are within a few meters of triangulation stations BUBBLE and DOUBLE respectively. For location, see descriptions of above named triangulation stations.

Photogrammetric details between the planes of mean high-water and mean lower-low water are probably not entirely complete on the manuscript because the photographs available for this compilation were exposed at or near high tide.

(Also see 1953 field report, item No. 8)

Form T-2

50.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 11100

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

CONTROL STATIONS

adjusted network

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 None 8. Bench marks None

9. Plotting of sextant fixes None 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line ✓ 14. Rocks, shoals, etc. ✓ 15. Bridges None 16. Aids to navigation ✓ 17. Landmarks None 18. Other alongshore physical features ✓ 19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover ✓ 22. Planetable contours None 23. Stereoscopic instrument contours None 24. Contours in general None 25. Spot elevations None 26. Other physical features None

CULTURAL FEATURES

27. Roads None 28. Buildings ✓ 29. Railroads None 30. Other cultural features None

BOUNDARIES

31. Boundary lines None 32. Public land lines None

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay ✓ 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms None

40. R. Gibson
Reviewer

Supervisor, Review Section or Unit

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Compiler

Supervisor

43. Remarks:

M-2623-12

48

Review Report
Shoreline Map T-11100
21 April 1954

61. General.-T-11100 is the only survey in the group T-11100 to T-11103 to receive an advance delineation for use in the field. It was compiled from Navy single-lens photographs of poor definition and without control. During the 1953 field season much shoreline was sketched both on the photographs and in planetable surveys. Nine-lens photographs were taken in August 1953 and these were used to make a new compilation for T-11100. This supplants the earlier compilation. Just south of the group of small islands in the vicinity of control station CENTER, 1953, two rocks on the planetable survey are labeled "awash MLLW" and a little farther south a ledge is labeled "Awash MHW". On T-11100 these are all labeled "awash,MHW" because on field inspection photograph SEA-15-028 their barings are recorded with an interval of one-half hour at the near high-tide period. This made them all "awash, MHW". The hydrographic survey may make a final clarification of the conditions.

62. Comparison with Registered Surveys.-No previous survey covers this part of Tuxekan Passage.

63. Comparison with Maps of Other Agencies.-

USGS Quad. Craig (D-4) 1:63,360 1951

The quadrangle was compiled by multiplex from 1948 photographs probably without benefit of field inspection. Difference in scale prevents more than a general agreement in shoreline, ledge, rocks, and low water line. But field inspection for Ph-87 gave little ledge or low water, and no bluff information so that T-11100 is not definitive for these items. The hydrographic surveys will give additional information.

64. Comparison with Contemporary Hydrographic Surveys.-

H-8038 (PA-1353) 1:10,000

Neither the boat sheet nor the smooth sheet were available for use during review. This survey will complement T-11100.

65. Comparison with Nautical Charts.-

8171 1:40,000 ed. June 1947 rev. Aug. 1952

Tuxekan Passage has not been fully charted. The present survey together with the hydrographic survey supersedes the chart for shoreline and offshore features in Tuxekan Passage.

A charted sunken rock southwest of Aikens Rock does not appear on T-11100. The hydrographic survey was not available for comparison.

66. Accuracy.-Because of displacement, shadows, and reflections, it was difficult to positively identify shoreline in some places. The survey complies with project instructions and is fully adequate to supersede the shoreline and offshore features as charted on 8171.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED

L C Lande
Chief, Review Branch
Div. of Photogrammetry

Mary H. Kittle
Chief, Nautical Chart Branch
Division of Charts

L L Swanson
Chief, Div. of Photogrammetry
6 Nov. 59

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11100

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
8/12/55	8171	W.W Burgoyne	Partially Applied ~~Before~~ After Verification and Review but before ~~sig~~ of
	8171	G.N.S.	Advance print to reconstruction. ~~Before After Verification and Review~~
2/20/63	8171	L.A. McGann	~~Before~~ After Verification and Review Completely applied
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.