10401 ORIGINAL

10401

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-10401

LOCALITY

State ALASKA

General locality DAVIDSON INLET

Locality WHALE HEAD ISLAND

1953 - 1956

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

FORM 181
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

T- 10401

Project No. (II): 27070 Quadrangle Name (IV):

Field Office (II): USC&GS Ship LESTER JONES
USC&GS Ship HODGSON

Chief of Party: G. A. Nelson
R. A. Earle

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: William F. Deane
E. H. Kirsch

Instructions dated (II) (III):

Copy filed in Division of Photogrammetry (IV)

Field:		Office:	
	3 June 1953		17 Dec. 1953
	28 Dec. 1953		7 Nov. 1955
	23 Dec. 1954		13 Nov. 1956
	25 Jan. 1955		23 Nov. 1956

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): JAN 25 1957 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): MHW

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): MOSS, 1903

Lat.: 55° 51' 53.985" (1669.6 m) Long.: 133° 40' 12.020" (209.1 m) Adjusted ~~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.

FORM 181b
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): J. P. Randall — Date: 1956 field season

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): 1953, date of photography; Office interpretation (verified by 1956 field inspection)

Projection and Grids ruled by (IV): A. Riley — Date: 11/9/55

Projection and Grids checked by (IV): A. Riley — Date: 11/9/55

Control plotted by (III): B. Kurs — Date: 11/29/55

Control checked by (III): F. M. Wisiecki — Date: 11/30/55

Radial Plot [redacted] by (III): E. L. Williams — Date: 2/16/56

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

Manuscript delineated by (III): J. Y. Councill — Date: 3/5/56
12/14/56

Photogrammetric Office Review by (III): R. Glaser — Date: 3/12/56
12/19/56

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

COMM-DC-57842

FORM 181c
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

3

DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): USC&GS nine-lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
41318 and 41319	7/25/53	1252	1:10,000	8.6' above MLLW
41325 and 41326	"	1300	"	8.7' " "

Tide (III)
From predicted tables

Diurnal

Ratio of Ranges	Mean Range	Spring Range
	7.7	9.9
1.1	8.7	10.8

Reference Station: Sitka, Alaska
Subordinate Station: Port Alice, Heceta Island
Subordinate Station:

Washington Office Review by (IV): Leo F. Bougnet, Atlantic Marine Center Date: Feb, 1969

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): 6.5
Shoreline (Less than 200 meters to opposite shore) (III): 2.2
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 2 Recovered: 2 Identified: 2
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): 18

Remarks:

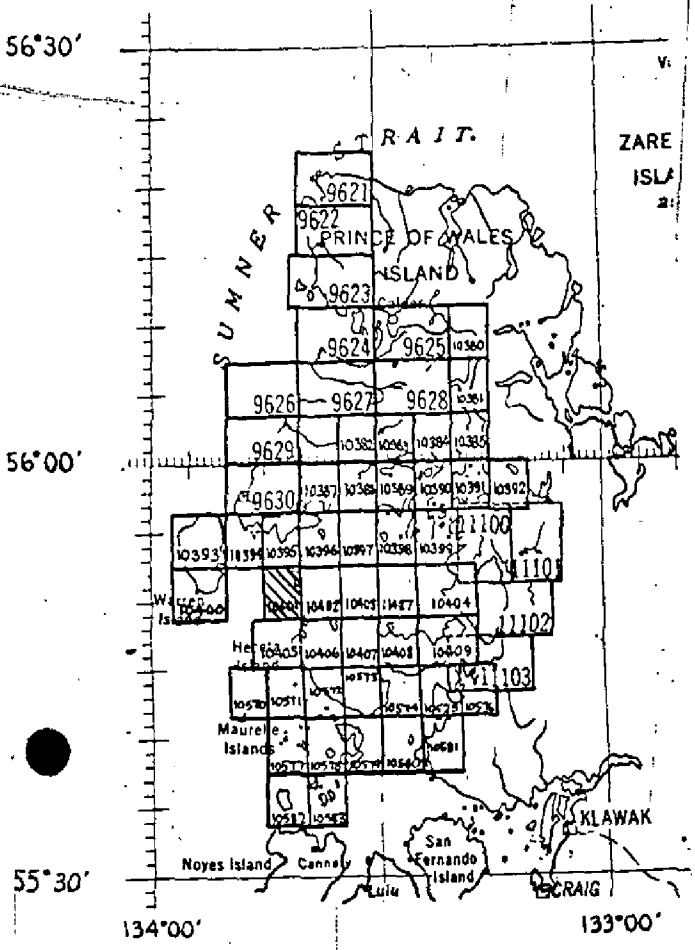
COMM-DC-57642

T-10401

COMPILATION RECORD	COMPLETION DATE	REMARKS
COMPILED (INCOMPLETE) Compiled (ADVANCE)	1955 Dec. 1956	SUPERSEDED SUPERSEDED
Final Review	Feb. 1969	

SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska



Project Ph-87
Official Mileage for Cost Accounts

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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10401

Shoreline survey T-10401 is one of 58 similar surveys in project PH-87. It covers the southern part of Whale Head Island at the entrance to Davidson Inlet. See page 5 for position of the survey within the project. The primary purpose of the survey was to provide new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

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

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

The manuscript was a vinylite sheet 3 3/4 minutes in latitude by 5 minutes in longitude which was smooth drafted and reproduced on cronaflex. One cronaflex positive and a negative are forwarded for record and registry.

FIELD INSPECTION REPORT

FOR

WARREN CHANNEL AND DAVIDSON INLET

S. E. ALASKA

AUGUST 1956

T10393-396
T10400-401

2. AREAL FIELD INSPECTION:

The area covered by this report lies between Warren Island and Green Island on the south side of Kosciusko Island.

Rock outcroppings are, in general, partially metamorphised limestones and shales. Limestone outcrops are distinguished by numerous solution holes which give them a poxed appearance, while the shales have maintained their stratification.

A black scale covers all along shore rock outcroppings and boulders, and shows as a distinctive black line. This scale varies in width according to the slope of the shore but is remarkably consistent in vertical span, beginning as it does approximately at mean high water and extending to an elevation of from four to six feet.

The only cultural features noted were two small trappers cabins, one of which was located on the S. E. Side of Warren Island (Photo - 41306), the other on the north side of Straw Pass (Photo - 41327).

Shoal and kelp areas were generally obvious, and were noted on the photographs. Few attempts were made to delete or insert mistaken identifications on Manuscripts T-10394 - 10395 as the foul areas were so large and complex that delineation could be made to better advantage by the hydrographer.

Only control station identifications were made on the north, south and

west sides of Warren Island.

The area covered by standard nine-lens photographs (1:10,000) gave adequate coverage except in areas obscured by trees and glare.

3, 4, 5:

Not applicable.

6. WOODLAND COVER:

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

7. SHORELINE AND ALONGSHORE FEATURES:

(a) Shoreline was inspected from the beach at photo-hydro signal locations and from the boat in all other locations.

The mean high water line lies at the bottom of the black band which runs alongshore below the treeline.

(b) The low water line was not delineated but at times of low water distances, directions and times were noted on the backs of the photographs.

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

(d) No bluffs or cliffs are noteworthy other than Whale Head which is already noted on charts.

(e) None of the fish traps shown are in existence.

8. OFFSHORE FEATURES:

All apparent offshore features were visited but in most cases a landing was not made. Most rocks are shoals are clearly defined. The large foul area on the north side of False Cove, Warren Island, and the very large foul area north of Black Rock, Warren Channel, were delineated to better

advantage and more accurately by the hydrographer. Rocks and shoals were marked with times, dates and heights. All heights were estimated.

9, 10:

Not applicable.

11. OTHER CONTROL:

The following list of hydrographic signals and recoverable topographic stations shows method of location. All necessary information is on the backs of the photographs.

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
JUT	Photo direct	41306	T-10400
KIM	" "	41307	"
LAD	" "	41306	"
MAX	" "	"	"
NIP	" "	41305	"
SID	Distance and angle	41306	"
ALL	Photo direct	41309	T-10393
BED	" "	"	"
DAN	" "	41308	"
DIG	" "	41307	"
EAR	" "	"	"
EVA	" "	"	"
FAD	" "	"	"
FOG	" "	"	"
GAD	" "	"	"
GAR	Distance and angle	"	"
GUY	Photo direct	"	"
HEX	" "	"	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
HIP	Photo direct	41307	T-10393
ICE	" "	41306	"
MARY(1956)	Distance and angle	"	"
RAG	Photo direct	41307	"
ROSE(1956)	" "	41309	"
AMY	" "	41315	T-10394
BEE	" "	"	"
BEL	" "	"	"
BEN	" "	"	"
CAD	" "	"	"
DAY	" "	41316	"
FOR	" "	41315	"
FOX	" "	41316	"
FRY	" "	41317	"
HER	" "	"	"
KAY	Distance and angle	41316	"
MAN	Photo direct	41317	"
MAY	" "	41315	"
MIS	" "	41316	"
NOT	" "	41315	"
NYN	" "	"	"
PAL	" "	"	"
PEA	" "	41316	"
RIO	Distance and angle	"	"
RIP	Photo direct	"	"
RUG	" "	"	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
SAN	Photo direct	41316	T-10394
SIP	" "	"	"
SIS	" "	"	"
STY	" "	"	"
THE	" "	41315	"
THO	" "	"	"
TIM	" "	41316	"
TIS	" "	41315	"
TOL	" "	"	"
TOY	Distance and angle	41316	"
TRU	Photo direct	41315	"
WAX	Distance and angle	41316	"
WHO	Photo direct	41315	"
YAM	" "	"	"
ZOO	" "	"	"
ANN	Photo direct	41326	T-10395
BES	" "	OFF 41328	"
COO	Distance and angle	" "	"
DOL	Photo direct	" "	"
EDD	" "	" "	"
FEE	" "	" "	"
FIE	Distance and angle	" "	"
FUM	" " "	" "	"
GAG	Photo direct	41316	"
GAS	" "	OFF 41328	"
HAD	" "	" 41326	"
HAM	Distance and angle	41448	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
HAT	Photo direct	41327	T-10395
HIL	" "	41447	"
HOE	" "	41326	"
IDA	" "	41448	"
INK	" "	41447	"
ION	Distance and angle	41326	"
IRK	" " "	"	"
JAP	" " "	41327	"
JOK	" " "	"	"
KED	" " "	"	"
KILL 1956	Photo direct	41427	"
LAP	Distance and angle	41327	"
LAY	Photo direct	"	"
LEO	" "	"	"
LID	" "	"	"
MAL	Distance and angle	"	"
MUG	" " "	"	"
MIT	" " "	"	"
NAG	Photo direct	"	"
NAT	" "	41447	"
OAT	" "	"	"
OLD	Distance and angle	41327	"
PET	" " "	"	"
PHO	" " "	OFF 41328	"
RIG	Photo direct	41316	"
ROC	" "	OFF 41327	"
SKI	" "	" "	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
TIN	Photo direct	OFF 41327	T-10395
TOPO 1956	Distance and angle	OFF 41328	"
UNA	Photo direct	OFF 41327	"
WIG	" "	" "	"
GENERAL LAND OFFICE DISK	" "	41315	
ADD	Distance and angle	41451	T-10396
BAT	Photo direct	"	"
EEL	" "	41447	"
FAG	" "	"	"
FUN	" "	41427	"
GAM	" "	41447	"
JAB	" "	"	"
KID	" "	"	"
LEB	" "	"	"
MEN	" "	"	"
NOT	" "	41451	"
POT	" "	41447	"
RUT	" "	"	"
STU	Distance and angle	41451	"
TIP	Photo direct	41452	"
URP	" "	41453	"
ABE	" "	41325	T-10401
AXE	" "	"	"
BIG	" "	"	"
BUT	" "	"	"
CAR	" "	"	"
CAT	" "	41326	"

NAME	METHOD LOCATED	PHOTO NO.	MANUSCRIPT NO.
COD	Distance and angle	41325	T-10401
DAW	Photo direct	41326	"
DOG	" "	"	"
DUD	" "	"	"
EAT	" "	"	"
EGG	" "	"	"
EVE	" "	"	"
FED	" "	"	"
FID	Distance and angle	"	"
GET	Photo direct	"	"
VAL	" "	"	"
ZAG	" "	41319	"

12:

Not applicable.

13. GEOGRAPHIC NAMES:

A special report on Geographic Names will be forwarded at the close of the field season.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA:

(a) To be forwarded at a later date:

1. Hydrographic Sheet HO-1156
2. Hydrographic Descriptive Report - HO-1156
3. Tidal Data
4. Sounding records and fathograms

(b) Forwarded during this month:

1. Control station identification cards and topographic descriptive cards.
2. Blackline and blueline manuscripts

T-10393 through T-10396

T-10400 through T-10401

3. Nine-lens office photographs

41298 - 41319

41325 - 41332

41441 - 41456

41480 - 41482

4. Nine-lens field photographs

41312 - 41318	41478 - 41479
41325 - 41327	41481 - 41482
41330 - 41333	41441 - 41444
41471	41447

15. NOTES TO THE COMPILOR:

The shoreline as shown on these manuscripts was, with minor exceptions, quite accurate. The mean high water line is located at the bottom of the black band on rocks and reefs as mentioned in Section 7.

Numerous rocks must be deleted or inserted on manuscripts especially in the foul areas mentioned in Section 8.

No important jumps were noted in sounding lines and the location of office established control was very good.

James P. Randall

James P. Randall,
Ensign, USC&GS

As stated above, the pricking of control for the radial plot and the delineation of shoreline on these manuscripts was considered to be excellent. Altho detail was transferred direct to boat sheets by holding the projection lines, no appreciable jumps were noted in sounding lines when using different

groups of signals to obtain positions.

This report is approved and forwarded.

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

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

21. AREA COVERED

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

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

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

22. METHOD - RADIAL PLOT

Map manuscripts:
Vinylite sheets with polyconic projections in black and U.T.M. Alaska grid in red at a scale of 1:10,000 were furnished by the Washington office for all surveys except T-9629 and T-9630. These two surveys had only the polyconic projection in black.

Base sheets were prepared in this office.

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

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

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

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

41298 thru 41319
41325 thru 41332
41374 thru 41377
41441 thru 41455
41480 and 41481
41687
41483 and 41484
41489 thru 41493
41514 thru 41518

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

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control:

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

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

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

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

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

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

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

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control: (cont'd)

Although a satisfactory plot was obtained, it should be stated, however, that pass points in the interior, where extreme elevation would almost certainly cause difficulty with the intersections due to tilt, were avoided and only a few points on lakes and other less elevated features were selected as interior pass points. To offset this departure from established procedure, many more pass points along the shoreline than normally are used to lay a radial plot were selected. In most cases the shoreline pass points are about 2½ inches apart. This method seemed to give a tighter plot with apparently much less adjustment needed. This considerably lessened the time spent in actually laying the plot.

Transfer of Points:

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

23. ADEQUACY OF CONTROL

There was adequate control for a satisfactory radial plot for surveys T-9629, T-9630, T-10382, T-10387, and T-10394. NOTE: T-10401 IS NOT LISTED — REFER TO 1ST PARAGRAPH ITEM 23 (Next Page)

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

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

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

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

23. ADEQUACY OF CONTROL

Refer to item 40, Page 25

T-10401

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

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

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

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

26. CONTROL STATION OFFICE NOTES

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

Respectfully submitted
16 February 1956

E. L. Williams

E. L. Williams
Carto. (Photo.)

SUPPLEMENTARY

PHOTOGRAMMETRIC PLOT REPORT
Project 27070

Surveys T-10393 & T-10400

NOT APPLICABLE FOR THIS SURVEY

Control identified during the 1956 field season indicated the preliminary radial plot to be in error by about 0.7 mm. in the vicinity of stations WARREN 2, 1899 and BORLASE, 1922. A final radial plot was assembled, extending from ONAUG, 1937 to the west and south through stations WARREN 2, 1899 and BORLASE, 1922 to station WEST, 1915-16. The positions of the pass points and photograph centers in the area around BORLASE, 1922 were moved about 0.7 mm. to the south. The positions of the pass points on surveys T-10393 and T-10400 are now considered within the standards outlined in paragraph 3-.01 of the project instructions dated 13 November 1956.

Respectfully submitted
2 January 1957

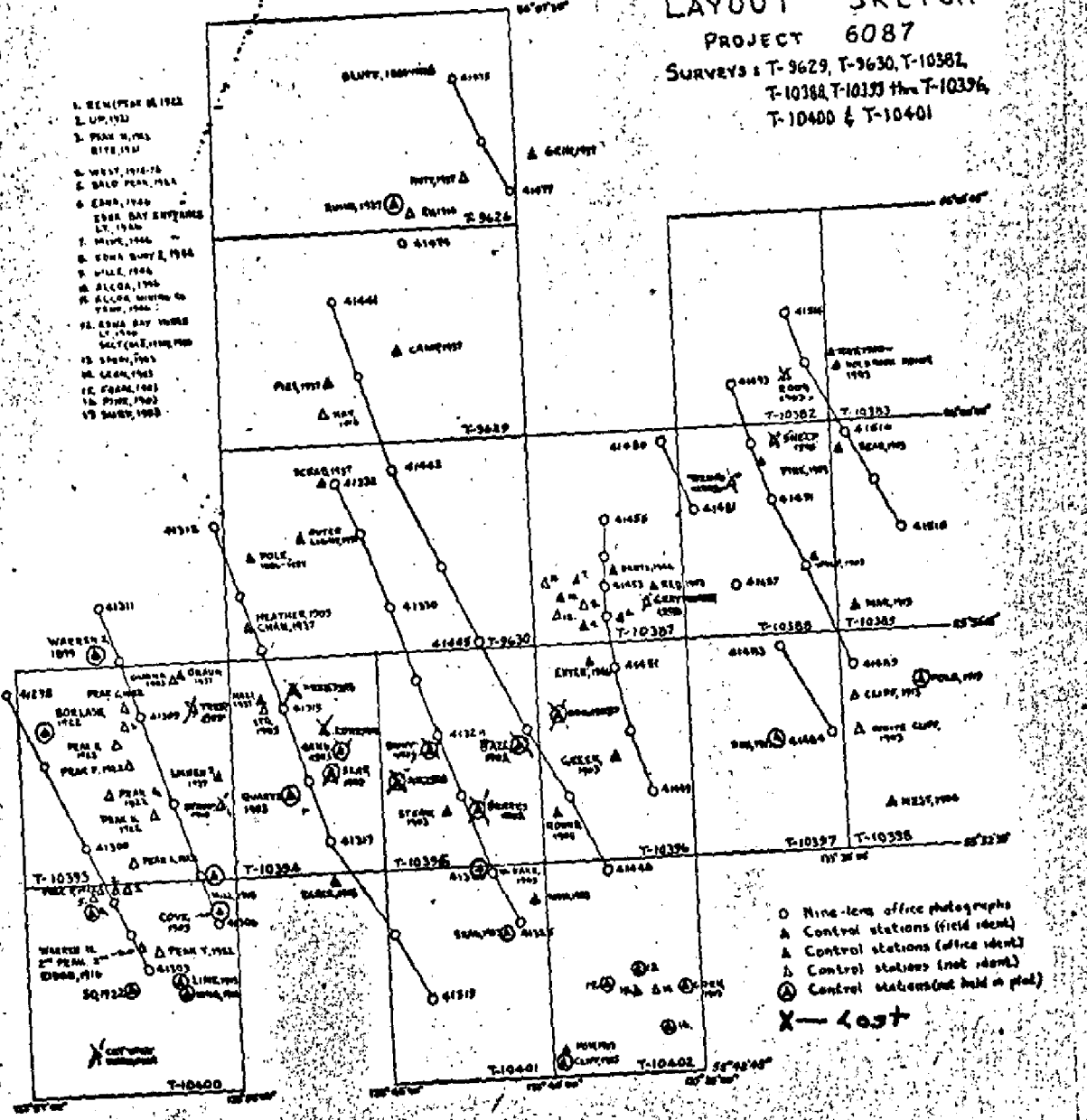
E. L. Williams

E. L. Williams
Carto. (Photo.)

LAYOUT SKETCH

PROJECT 6087

SURVEYS T-9629, T-9630, T-10382, T-10383, T-10393 thru T-10396, T-10400 & T-10401



FORM 164
(4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T10401 PROJECT NO. 27070 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)
FAKE, 1903	G-609 p. 293	N.A. 1927	55 52 25.334			783.5 (1072.2)	
			133 41 29.155			507.0 (536.4)	
SKAG, 1903	G-609 p. 289	"	55 51 05.768			178.4 (1677.3)	
			133 40 52.472			912.9 (131.0)	
MOSS, 1903	G-609 p. 290	"	55 51 53.985			1669.6 (186.0)	
			133 40 12.020			209.1 (834.5)	
Sub. Pt. No. 1 FAKE, 1903			55 52			791.2 (1064.5)	
			133 41			508.1 (535.3)	
Sub. Pt. No. 2 FAKE, 1903			55 52			761.3 (1094.4)	
			133 41			515.0 (528.3)	

1 FT. = .3048006 METER

COMPUTED BY: B. Kurs DATE: 23 Nov. 1955 CHECKED BY: H. R. Rudolph DATE: 28 Nov. 1955

COMM-DC-57843

COMPILATION REPORT
T-10401

Field Inspection Report:
Refer to the Field Inspection Report for maps T-10393 to T-10396, T-10400 and T-10401, which is part of the Descriptive Report for surveys T-10394 thru T-10396.

Photogrammetric Plot Report:
Refer to the Descriptive Report for surveys T-10394 thru T-10396.

31. DELINEATION

This manuscript was delineated by graphic methods.

32. CONTROL

Refer to the Photogrammetric Plot Report.

33. SUPPLEMENTAL DATA

A copy of boat sheet H-8286 (HO-1156) was available for purposes of comparison.

34. CONTOURS AND DRAINAGE

Contours: Inapplicable.

Drainage: No comment.

35. SHORELINE AND ALONGSHORE DETAILS

This manuscript was delineated by office interpretation and corrected using field inspection obtained during the 1956 season. See item 15 of the field report.

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

36. OFFSHORE DETAILS

The interpretation of Whale Rock was not positive. Only a foul area was delineated.

The foul and kelp lines have been revised to show the delineation furnished by the field party.

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

Refer to paragraph 11 of the field report for a list of the eighteen photo-hydro signals located on the blackline impression of this manuscript by the field party.

39. JUNCTIONS

Junctions with adjacent surveys in this project have been made.

40. HORIZONTAL AND VERTICAL ACCURACY

Compilation was completed from positions in preliminary radial plot. Field identification of FAKE, 1903 and MOSS, 1903 verified the the accuracy of the radial plot as being within required standards for accuracy.

41 - 45 Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Craig quadrangle, scale 1:250,000, edition of 1952

47. COMPARISON WITH CHARTS

Chart No.	Scale	Edition	, Corrected to:
8171	1:40,000	Jan. 1956	
8173	"	Mar. 1939	10/22/51

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None

Respectfully submitted
17 December 1956

Judson Y Councill
Judson Y. Councill
Carto. Photo. Aid

Approved and Forwarded

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

December 13, 1968

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-87 (Iphigenia Bay, Alaska)

T-10401

Davidson Inlet

Iphigenia Bay

Whale Head

Whale Head Island

Whale Rock

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

12-19-50 27

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-10401

50

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

CONTROL STATIONS

4a. Classification label ✓

5. Horizontal control stations of third-order or higher accuracy ✓ ~~6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)~~ _____ 7. Photo hydro stations ✓ ~~8. Bench marks~~ _____ ~~9. Plotting of sextant fixes~~ _____ 10. Photogrammetric plot report ✓ 11. Detail points ✓

ALONGSHORE AREAS

(Nautical Chart Data)

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

PHYSICAL FEATURES

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

CULTURAL FEATURES

~~27. Roads~~ _____ ~~28. Buildings~~ _____ ~~29. Railroads~~ _____ ~~30. Other cultural features~~ _____

BOUNDARIES

~~31. Boundary lines~~ _____ ~~32. Public land lines~~ _____

MISCELLANEOUS

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

40. R. Glaser
Reviewer

Joseph Stanley
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

REVIEW REPORT T-10401
SHORELINE
FEBRUARY 24, 1969

61. GENERAL STATEMENT:

See Summary which is page 6 of the Descriptive Report.

There is no field edit report or field edit sheet for this survey. Field inspection was accomplished after compilation, the manuscript was then corrected from the field inspection notes.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Registered survey No. 2691, a 1:20,000 scale survey made in 1904 was used for comparison purposes. The passage of time has made that survey obsolete, it is superseded by T-10401 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS CRAIG (D-6) ALASKA, 15 x 20 minute 1:63,360 scale quadrangle, edition of 1951. The two surveys are in good agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of reviewed surveys H-8286 and H-8443. The shoreline for these two surveys, in the area of Whale Head Island, was obtained from a copy of T-10401. There are therefore no discrepancies in the shoreline between the surveys.

Whale Rock, at latitude 55° 50' 40" longitude 133° 41' 18", is not visible on any of the photographs that cover the area. This and other rocks appearing on the hydrographic surveys that

are not visible on the photographs have been indicated on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with chart 8171, 8th edition, June 10, 1968. The shoreline of the chart and T-10401 is in good agreement. As stated in item 64, Whale Rock is not visible on any of the photographs of the area. Rocks appearing on the chart that are not visible on the photographs have been noted on the comparison print in red.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Field photographs 41324 thru 41326 and office photographs 41324 thru 41326, 41319 and 41320 were examined during final review. The field photographs contained very little data of value to the final reviewer.

Approved by:

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

Reviewed by:

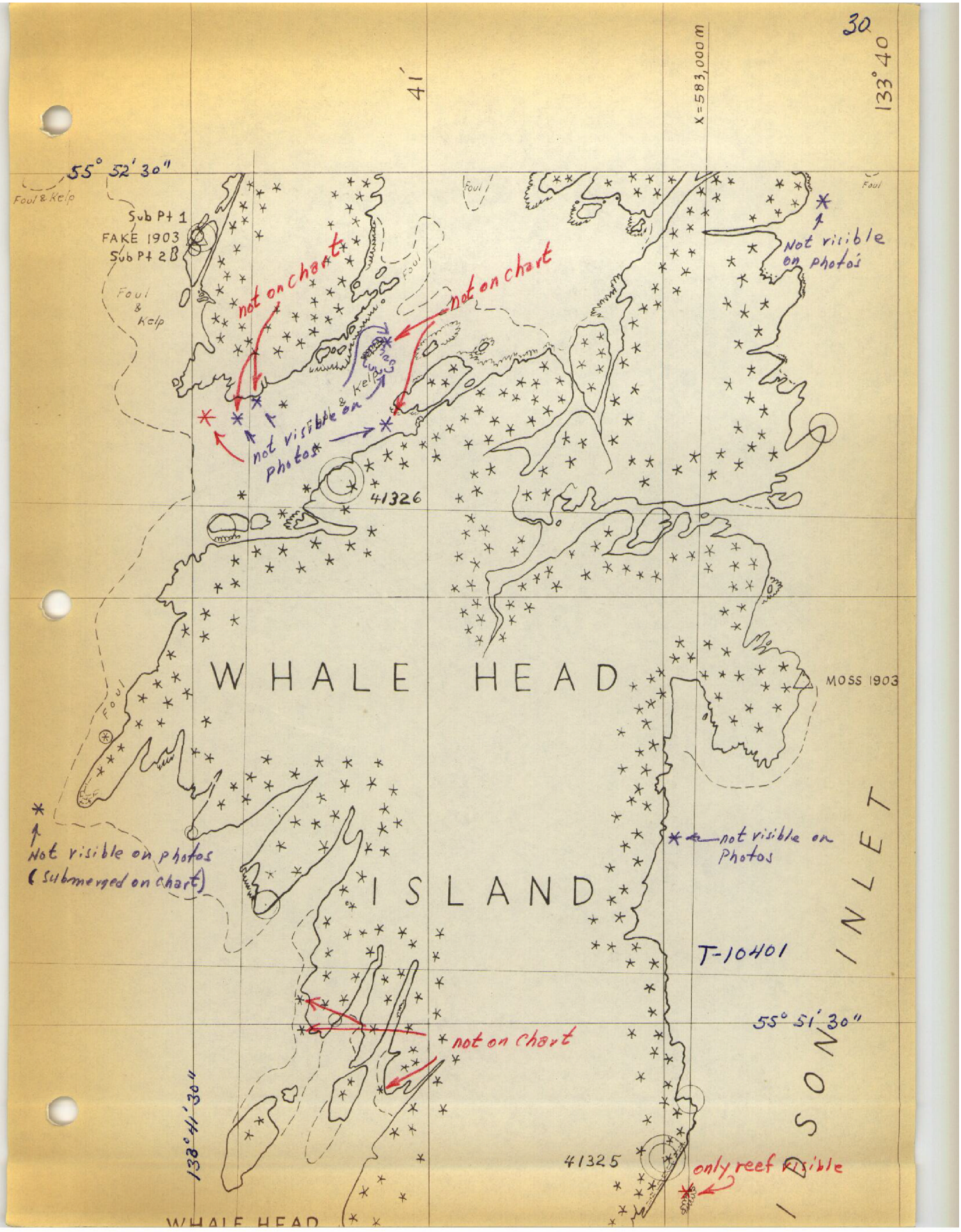
Leo F. Beugnet
Leo F. Beugnet

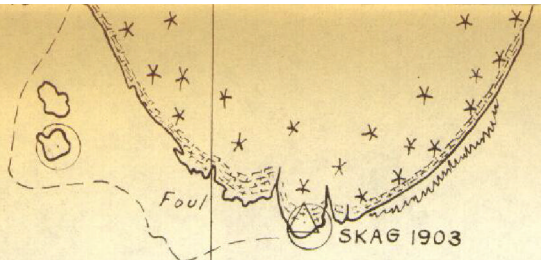
Approved by:

Chief, Photogrammetric Branch

R H Houlder
Chief, Photogrammetry Division

Chief, Nautical Chart Division


30
133° 40'
41'
x=583,000 m
55° 52' 30"
Foul & Kelp
Sub Pt 1
FAKE 1903
Sub Pt 2B
Foul
Foul & Kelp
not on chart
not on chart
Kelp
not visible on photos
41326
Not visible on photos
Foul
Foul
WHALE HEAD
MOSS 1903
Foul
Not visible on photos
(submerged on chart)
not visible on Photos
ISLAND
T-10401
55° 51' 30"
not on chart
138° 41' 30"
41325
only reef visible
WHALE HEAD
INLET



DAV

31

55°51'00"

JOINT SURVEY NO T-10402

Foul

WHALE ROCK

* ← not visible on Photos

133°40'00"

55°50'00"

133°41'30"

T-10H01