10409

ORIGINAL

10409

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline (Photogrammetric)

Field No. ..... *Office No.* T-10409

LOCALITY

State Alaska

General locality Heceta Island

Locality Karheen Passage

1953 19 58

CHIEF OF PARTY

Robert A. Earle, Chief of Field Party
William F. Deane, Baltimore Dist. Offic

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

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

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

DESCRIPTIVE REPORT - DATA RECORD

T - 10409

PROJECT NO. (II):

PH-87

FIELD OFFICE (II):	CHIEF OF PARTY
USC&GS Ship HODGSON	Robert A. Earle
PHOTOGRAMMETRIC OFFICE (III):	**OFFICER-IN-CHARGE**
Baltimore, Maryland	William F. Deane

INSTRUCTIONS DATED (II) (III):

Field:	Office:
25 Dec. 1954	7 Nov. 1955
25 Jan. 1955	13 Nov. 1956
21 Nov. 1956	23 Nov. 1956
	30 Oct. 1957
	15 July 1958

METHOD OF COMPILATION (III):

Graphic

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

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

GEOGRAPHIC DATUM (III):	VERTICAL DATUM (III): MHW EXCEPT AS FOLLOWS:
N.A. 1927	*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):

DENT, 1914

LAT.:	LONG.:	
55° 46' 33.949"	133° 18' 50.386"	[X] ADJUSTED [ ] UNADJUSTED

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

ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (II) FIELD PARTY, (III) PHOTOGRAMMETRIC OFFICE, OR (IV) WASHINGTON OFFICE.
WHEN ENTERING NAMES OF PERSONNEL ON THIS RECORD GIVE THE SURNAME AND INITIALS, NOT INITIALS ONLY.

USCOMM-DC 36393A-P66

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

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

DESCRIPTIVE REPORT - DATA RECORD

FIELD INSPECTION BY (II): J. P. RANDALL (CONTROL OPERATIONS) James P. Randall L. D. THURMAN	DATE: 1956 July-Aug. 1957

MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):
Office interpretation of 1955 nine-lens photography supplemented by field inspection in 1957 in the area of hydrography.

PROJECTION AND GRIDS RULED BY (IV):		DATE
PROJECTION AND GRIDS CHECKED BY (IV):		DATE
CONTROL PLOTTED BY (III):		DATE
CONTROL CHECKED BY (III): L. A. Senasack		DATE March 1957
RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):		DATE
STEREOSCOPIC INSTRUMENT COMPILATION (III):	PLANIMETRY	DATE
	CONTOURS	DATE
MANUSCRIPT DELINEATED BY (III):		DATE 1957
SCRIBING BY (III):		DATE
PHOTOGRAMMETRIC OFFICE REVIEW BY (III):		DATE

REMARKS:

USCOMM-DC 36393B-P66

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

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

DESCRIPTIVE REPORT - DATA RECORD

CAMERA (KIND OR SOURCE) (III):

Nine-lens

PHOTOGRAPHS (III)

NUMBER	DATE	TIME	SCALE	STAGE OF TIDE
52029 thru 52031	8-22-55	09:33	1:10,000	1.2' above MLLW
52038 thru 52040	"	09:43	"	1.2' " "
52073 thru 52076	"	10:00	"	1.2' " "
52168	No data			

TIDE (III) Diurnal

	RATIO OF RANGES	MEAN RANGE	~~SPRING~~ RANGE
REFERENCE STATION: Sitka, Alaska		7.7	9.9
SUBORDINATE STATION: Karheen, See Otter Sound		8.4	10.6
SUBORDINATE STATION:			

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

PROOF EDIT BY (IV): — DATE:

NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):	RECOVERED:	IDENTIFIED:
NUMBER OF BM(S) SEARCHED FOR (II):	RECOVERED:	IDENTIFIED

NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):

NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):

REMARKS:

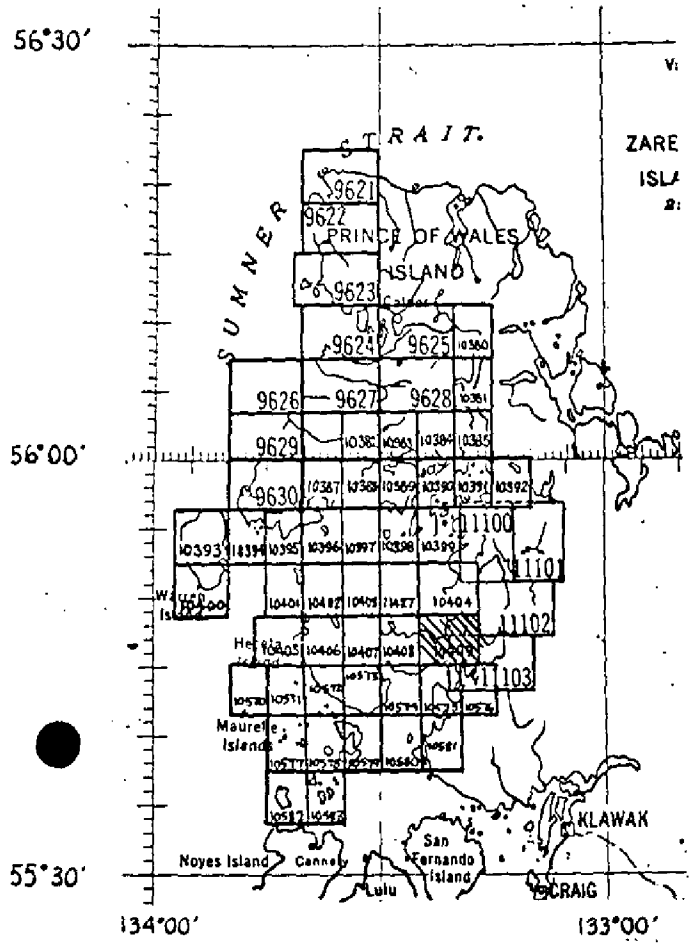
Forms 181a, 181b and 181c were prepared by the final reviewer. There is no other data available.

COMPILATION RECORD	COMPLETION DATE	REMARKS
Compiled	1957	
Final Review	April 1969	

SHORELINE MAPPING PROJECT PH- 87

Prince of Wales Island, Alaska

5



Project Ph-87
Official Mileage for Cost Accounts

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

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10409

Shoreline survey T-10409 is one of 58 similar surveys in project PH-87. It covers the area in the vicinity of Karheen Passage. See page 5 of the descriptive report for the area within the project.

This survey was originally compiled as a preliminary manuscript. After field identification of horizontal control in 1956 and field inspection in 1957, the manuscript was corrected and classified as incomplete. The area of Tonowek Bay was not field inspected or field edited, therefore the incomplete manuscript classification has been retained. * See below

Compilation was at 1:10,000 scale by graphic methods using the 1:10,000 scale nine-lens photographs of August 22, 1955. A cronaflex copy of manuscript along with a blue line tracing, ozalids and specially prepared photographs were furnished for preparation of the boat sheet, location of photo-hydro signals and field edit use.

The manuscript is a vinylite sheet 3 minutes 45 seconds in latitude by 7 minutes 30 seconds in longitude. It was smooth drafted and reproduced on cronaflex. One cronaflex positive and a negative are forwarded for record and registry.

* NO COMPILATION REPORT EXISTS TO ACCOUNT FOR THE APPLICATION OF THE 1957 FIELD DATA; HOWEVER, THE FIELD PHOTOGRAPHS WERE EXAMINED BY THE FINAL REVIEWER.

AJB

FIELD INSPECTION REPORT

HECETA ISLAND AND SOUTHWEST TUXEKAN ISLAND

1956

NO OTHER SECTIONS APPLICABLE.

3. HORIZONTAL CONTROL:

All triangulation stations on Manuscripts 10402, 10403 and 10405 thru 10409, and also in those areas on the south side of Heceta Island not covered by manuscripts, for which photographic identification was required, were recovered and pricked on photographs.

Stations identified were as follows:

HEN 1904	SURF 1903	LOST 1907
OWL 1904	BAY 1903	SILLA 1914
COON 1904	LYNCH 1907	SKIP 1914
TIP 1904	GULL ROCK 1903-21	NAPUL 1914
SNIPE 1904	MIKE 1907	SPIKE 1914
GRASS 1903	EMERALD 1907-22	SWIFT 1914
PINE 1903	WHITE CLIFF 1907-22	QUINCE 1914

14. SUPPLEMENTAL DATA:

Forwarded to the Director:

1. Control Station Identification Cards - forwarded via transmitting letter HDG 56-7 (4 Aug.) and HDG-56-13 (16 Oct.).
2. Nine Lens Office and Field Photographs - forwarded 29 Sept. via transmitting letter HDG-56-10.
3. Blueline Tracings and Blackline Impressions - forwarded 16 Oct. via transmitting letter HDG-56-13.

Respectfully submitted,

James P Randall

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

Approved and forwarded:

Robert A Earle

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

DESCRIPTIVE REPORT - PHOTOGRAMMETRY

MANUSCRIPTS T-10402 THRU 10409 AND T-11103

1957

2. AREAL FIELD INSPECTION

Sea Otter Sound and Karheen Passage are used principly by fishermen, logging companies and freight boats.

Rock outcroppings are metamorphic limestone and shale and are covered by a black scale at and above mean high water for a vertical span of from 2 to 4 feet.

Within the limits of this survey there are a number of cultural features.

On the north shore of Heceta Island at the extreme southern end of Sea Otter Sound, Lat. 55° 57' 00", Long. 133° 21' 36", there are four unoccupied buildings. There are four buildings still standing at Karheen, 800 meters south of station FLORA 1904-56 there is an abandoned fish trapper's cabin. A trapper's cabin can be found 500 meters south of station BARK 1904-57 and another is located at Lat. 55° 46' 15", Long. 133° 20' 15".

Three operating logging camps fall within or near the limits of this survey. Two of the camps show on the photographs, the third is a small gyppo outfit that has been logging in Port Alice. The camp is located on floats at the very head of Port Alice but the logging is being done just south and behind station PINE 1904-57.

The ruin of a barge is located in the long narrow gut immediately north of Karheen.

Densities and tones were not inspected inshore of the storm high water line.

Shoal and kelp areas were noted, where discernible, on the photographs.

3. HORIZONTAL CONTROL

(a) Station PINE 1903-57, being in error in 1956, was reidentified and a Control Station Identification Card submitted.

(b) Stations HEN, 1904-56 and COON 1904-56 were not reidentified.

(c) Stations MARS 1914-52, STEAD 1952, QUINCE 1914 and WAR 1914 were reidentified and Control Station Identification Cards were submitted.

(d) PEEP ROCK LIGHT 1957, CHAPIN ISLAND RANGE FRONT DAYBEACON 1957 and CHAPIN ISLAND RANGE REAR DAYBEACON 1957 were located by 3rd order triangulation.

4. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

Contours - inapplicable.

Within the limits of this survey there are a number of small streams, none of major importance.

6. WOODLAND COVER

All land areas not covered by storm high water are densely forested with the exception of muskegs, logged areas and the higher mountains.

Conifers - hemlocks, spruce and cedars, comprise the major portions of the cover, with the cedars favoring the low wet areas.

Many small logging operations have been conducted in this area and though they span a number of years all are well defined.

Scattered patches of alder and crabapple can be found along the beaches, and show as a dark globular mass against the lighter conifers.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline was inspected from the beach at all photo-hydro signals 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. In all the large areas of shadowed shoreline, the mean high water line was located by sextant angles taken to photo-hydro signals. The angles were recorded on the back of the photographs. In smaller areas the shoreline was readily discernable and was delineated directly on the photographs.

(b) The low water line corresponds closely with the darker color tone at the offshore edge of alongshore and offshore features.

(c) The foreshore consists of rock outcrops and boulders, with the exception of deltaic muds, sands, and gravels, at the mouths of the larger streams.

(d) There are no noteworthy bluffs or cliffs.

8. OFFSHORE FEATURES

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

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

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 along with the heights or depths, time, and date.

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9. LANDMARKS AND AIDS

There are six (6) floating aids to and four (4) fixed aids to navigation located within the limits of this survey. They are:

Karheen Passage Daybeacon
Point Swift Shoal Buoy 2
Karheen Passage Buoy 1
Karheen Passage Buoy 2A
Ham Island Reef Buoy 3
Chapin Island Range Front Daybeacon
Chapin Island Range Rear Daybeacon
Cob Island Reef Buoy 4
Karheen Reef Buoy 6
Peep Rock Light

Landmarks - none.

10. BOUNDARIES, MONUMENTS

Inapplicable.

11. OTHER CONTROL

None.

12. OTHER INTERIOR FEATURES

Not applicable.

13. GEOGRAPHIC NAMES

Geographic names will be covered in a separate report.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

(a) Forwarded to the Director:

1. Tidal Data, Karheen Tide Gage, via transmitting letter, 3 Aug. 1957 and 14 Oct. 1957.
2. Tidal Data, Port Alice Tide Gage, via transmitting letter, 14 Oct. 1957.
3. 9 Lens Field and Office Photographs, Scale 1/10,000, via transmitting letter 15 Oct. 1957.
4. Single Lens Field Photographs, via transmitting letter, 15 Oct. 1957.
5. Boat Sheets HO-1457, and HO-1557, via transmitting letter, 10 Oct. 1957.
6. Boat Sheet, HO-1657 via transmitting letter 16 Oct. 1957

(b) Forwarded with this report:

1. Control Station Identification Card
2. Nine Lens Field and Office Photographs, Scale 1/10,000

(c) To be forwarded to the Director:

1. Description of Triangulation Stations.
2. Geographic Names Report
3. Coast Pilot Notes

Respectfully submitted,

Loyd D. Thurman

Loyd D. Thurman,
Ens., C&GS

Approved and forwarded:

E. W. Richards

E. W. Richards,
LCDR, C&GS
Comdg., Ship HODGSON

PHOTOGRAMMETRIC PLOT REPORT

Project 27070 (6087)
Surveys T-10402 thru T-10409 & T-11427

21. AREA COVERED

This radial plot covers the area of surveys T-10402 thru T-10409 and the southwest corner of T-11427. They are shoreline surveys along north shore of Heceta Island near Prince of Wales Island, Alaska, from Tuxekan Island to Cape Lynch.

22. METHOD - RADIAL PLOT

Map Manuscripts:
Vinylite sheets with polyconic projections in black and U.T.M. Alaska, Zone 8 grids in red, at a scale of 1:10,000 were furnished by the Washington Office.

All control stations and some substitute stations were plotted using the meter bar and beam compass, the remaining substitute stations were plotted graphically.

Base sheets were prepared in this office.

A sketch, showing the layout of surveys and distribution of control and photograph centers, and a list of unidentified stations which are numbered on the sketch, are attached to this report.

Photographs:
There were forty-nine (49) nine-lens unmounted photographs, at a scale of 1:10,000 used in this plot. The photographs are numbered as follows:

	51994 thru 52006
41320 thru 41325	52029 thru 52035
41691 and 41692	52037B thru 52041
41713 and 41714	52073 thru 52079
41728 and 41729	52165 thru 52169

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

Closure and Adjustment to Control:
This radial plot is an extension of the supplementary plot for Surveys T-10397 thru T-10399 (See Descriptive Report for surveys No. T-10382 thru T-10384). The radial plot was constructed starting from T-10404 and running southward to T-10409, tying into control identified in the field in 1952. The plot was then bridged westward across Hecata Island, to survey T-10405 and to the pass points previously established

on survey T-10401. Eight (8) of the thirty-eight (38) field identified control stations could not be held, but a satisfactory plot was obtained.

Transfer of Points:

Each map manuscript was placed over the finished plot and oriented holding common grids and all pass points and photograph centers were pricked on the map manuscript.

23. ADEQUACY OF CONTROL

There was adequate control to obtain a satisfactory radial plot.

The following stations could not be held in the plot.

LIME, 1952 - The radially position falls approximately 10 meters to the SSW of the plotted position. This station falls outside of the delineation area. The error is probably due to difficulty of transfer to new photography. Since there were sufficient other stations to control the plot, no further investigation was made.

QUINCE, 1914 - The radially plotted position falls approximately 27 meters to the SE of the plotted position. This is believed to be misidentified in the field. The point which is identified can not be seen from NUT, 1914 and ANON, 1914, to the southwest.

HEN, 1904 - The radially plotted position for the Sub. Pt. falls 196 meters to the east of the plotted position. This was misidentified in the field on another reef. It was not re-identified in the office.

COON, 1904 - The radially plotted position falls 6 meters to the west of the plotted position. This station was misidentified in the field. It could not be re-identified accurately in the office.

NAPUL, 1914 - This station was not held in the radial plot but due to lack of a sketch re-identification could not be made. It is probably misidentified on another boulder. This station is outside of the project limits and there is sufficient other control for a satisfactory plot.

PINE, 1903 - The radially plotted position falls approximately 980 meters (0.6 mile) south of the plotted position. The sketch did not agree with the area at the true position and no attempt was made in this office to try to re-identify it.

LEAN, 1903 - The geographic position for this station plots in deep water on chart 8171. No rocks or other detail show on the photographs in this area. It is assumed that the published position might be incorrect. The position is unchecked.

SOUTH POINT, LOW BLACK POINT, 1903 - The geographic position for this station plots in deep water on Chart 8171. No rocks or other detail show on the photographs in this area. It is assumed that the published position might be incorrect. The position is unchecked.

BAY, 1903 - The radially plotted position for Sub. Pt. No. 1 falls 13 meters to the south southwest of the plotted position. The radially plotted position of Sub. Pt. No. 2 falls 47 meters to south of the plotted position. These are believed to be misidentified in the field. The Sub. Pts. are potholes in an area where they are numerous. It was not possible to re-identify the correct image points.

WHITE CLIFF, 1907-22 - This station is believed to be misidentified in the field. Since this station is far outside of the project limits; stations MIKE, 1907 and EMERALD, 1907-22, which are closer to the project were held.

More time was consumed in identifying the control in this plot than in a normal plot. The greatest amount of time was used in trying to prick on the office photographs points identified on the field photographs that did not agree for various reasons such as, with the information on the identification cards and/or Form 526. The following is a list of some of the stations where a great deal of time was consumed:

MIKE, 1907
SILLA, 1914
OWL, 1904
COON, 1904
LIME, 1952
SWIFT, 1914
MARS, 1914
HEN, 1904
GRASS, 1903
BAY, 1903
WHITE CLIFF, 1907-22

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photograph definition and photograph coverage for this plot was good. It was noted, however, when making templets that some difficulty was encountered in trying to adjust the templet to the fiducial marks on the photographs in the center chambers. A study was made of this 1955 copy but there seemed to be no apparent answer for this trouble.

Respectfully submitted
14 March 1957

Leroy A. Senasack

Leroy A. Senasack
Carto. Photo. Aid

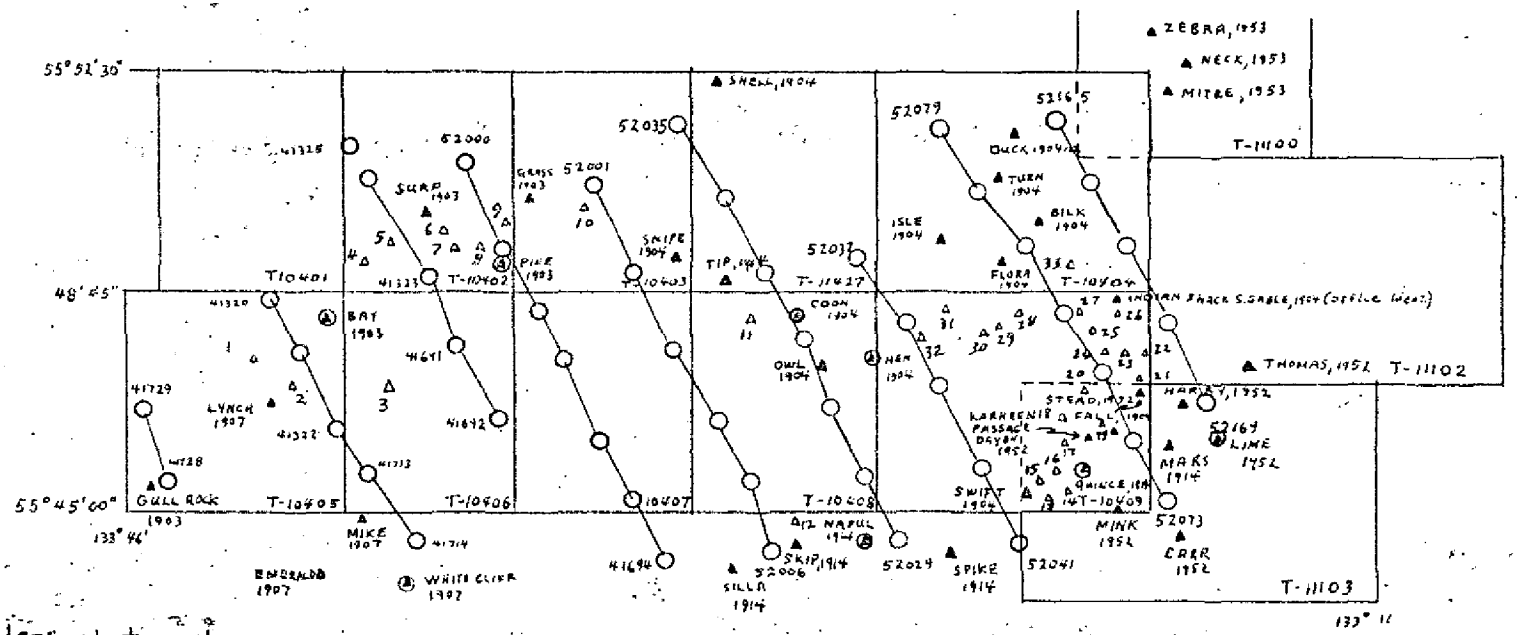
LIST OF CONTROL NOT IDENTIFIED

Project 27070 (6087)

Surveys - T-10402 thru 10409 & T-11427

1. SOUTH POINT, LOW BLACK POINT, 1903
2. OTTER, 1903
3. COVE MOUNTAIN, 1903
4. CLIFF, 1903
5. POW, 1903
6. SPRAY, 1903
7. FOAM, 1903
8. LEAN, 1903
9. CORN, 1903
10. FLAT, 1904
11. FLY, 1904
12. MANO, 1914
13. WAR, 1914
14. NUT, 1914
15. MAST, 1914
16. ANON, 1914
17. SURP, 1914
18. BATO, 1904
19. DENT, 1914
20. LOG POINT, 1904
21. HOPE, 1904
22. TRIM, 1904-14
23. COB, 1904 - 14
24. VEX, 1904
25. CHOP, 1904
26. LEDGE, 1904-14
27. AID, 1904
28. BARN, 1904
29. DEAD, 1904 (Reported lost 1956)
30. PUP, 1904
31. BOLD, 1904
32. SAW, 1904
33. PEEP, 1904

LAYOUT SKETCH
PROJECT 27070
SURVEYS: T-10402 thru T-10409 and T-11427



- ○ Nine lens photographs
- ▲ Control stations (identified & held in plot)
- △ Control stations (not identified
- (a) Control stations (identified but not held in plot)

FORM C&GS-164
(4-68)
USCOMM-DC
50318-P68

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 10409 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 (° ' ")	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
			55 46 33.949	
DENT, 1914	Vol,1 pg, 299	NA1927	133 18 50.386	
			55 46 56.505	
HOPE, 1904	" " "	"	133 17 57.634	
			55 46 50.106	
FALL, 1914	" " "	"	133 17 59.065	
			55 46 20.792	
BATO, 1904	" " 309	"	133 19 44.599	
			55 46 01.550	
SURP, 1914	" " 300	"	133 19 47.436	
			55 45 38.910	
ANON, 1914	" " "	"	133 20 06.210	
			55 45 34.055	
MAST, 1914	" " "	"	133 20 14.997	
			55 45 35.927	
NUT, 1914	" " "	"	133 19 50.256	
			55 45 19.789	
SWIFT, 1914	" " "	"	133 20 50.325	
			55 45 19.311	
WAR, 1914	" " "	"	133 20 15.474	
			55 46 32.964	
STEAD, 1952	" 3 pg 914	"	133 18 47.390	
			55 46 18.983	
KARHEEN PASSAGE DAYBEACON, 1952	" 926	"	133 19 21.372	

COMPUTED BY DATE CHECKED BY DATE

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FORM C&GS-164
(4-68)
USCOMM-DC
50318-P68

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 10409 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 (° ' ")	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
SAW, 1904	Vol.1 pg.307	NA 1927	55 47 47.165 133 23 56.497	
BOLD, 1904	" " "	"	55 48 27.642 133 23 00.505	
BARK, 1904	" " 303	"	55 48 23.072 133 20 51.005	
AID, 1904	" " 298	"	55 48 24.843 133 19 44.869	
CHOP, 1904	" " "	"	55 48 08.154 133 19 06.870	
LEDGE, 1904 - 14	" " "	"	55 48 29.740 133 18 37.543	
QUINCE, 1914	" " 299	"	55 45 48.061 133 19 27.838	
VEX, 1904	" " "	"	55 47 45.932 133 18 34.249	
COB, 1904 - 14	" " 298	"	55 47 46.194 133 18 07.334	
TRIM, 1904 - 14	" " 302	"	55 47 28.418 133 17 31.841	
CHAPIN ISLAND RANGE FRONT DAYBEACON, 1957	" 3 pg.947	"	55 47 47.078 133 18 35.362	
CHAPIN ISLAND RANGE REAR DAYBEACON, 1957	" " "	"	55 47 48.40 133 18 38.46	

COMPUTED BY DATE CHECKED BY DATE

PRELIMINARY COMPILATION REPORT
and
NOTES TO HYDROGRAPHER

Surveys T-10402 thru
T-10409 and T-11427

These manuscripts were delineated by office interpretation. A small amount of field inspection on Navy photographs, scale 1:20,000 was available in Karheen Passage (T-10409) from the 1952 season.

The computed tides at the time of photography were found to be high tide to the west of Port Alice (T-10402 and T-10405) and low tide to the east of Port Alice. (T-10403, T-10404, T-10406 thru T-10408). High tide photography also was available on the eastern shore of Port Alice.

The edge of the water as imaged on the high water photographs was used as the shoreline. On the low water photographs, the office interpretation of the MHWL was difficult especially in the areas of wide sloping beaches. In Karheen Passage, the field inspection done in 1952 indicated the shoreline to be at the tree line.

Where the shoreline was obscured by shadows or relief displacement of trees, a broken line or approximate shoreline was delineated.

The foul line symbol was used to outline areas of doubtful interpretation which may be shallow, foul, debris, kelp, etc.

The following are the aids to navigation in this area:

Surf Point Light, T-10402 - could not be office identified.
Peep Rock Light, T-10404 - was office identified.
Cape Lynch Light, T-10405 - Field identified in 1956.
Karheen Passage Daybeacon, T-10409 - located in 1952.
Chapin Island Range Front Daybeacon, T-10409 - was office identified.
Chapin Island Range Rear Daybeacon, T-10409 - was office identified.

Buildings and cultural details at Karheen and at the lumber camp to the north of Karheen should be field inspected.

Verify building on island 800 meters southwest of triangulation station FLORA, 1904.

Respectfully submitted

Frank J. Tarcza,
Super. Carto. (Photo.)

Approved and forwarded

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

Ph-87 (Heceta Island, Alaska)

T-10409

Chapin Island
Cob Island
Ham Islands
Heceta Island
Indian Gardens Bay
Karheen
Karheen Passage
Point Swift
Point Swift Rock
Prince of Wales Island
Sea Otter Sound
Tonowek Bay
Tonowek Creek
Tonowek Narrows
Trim Island
Tuxekan Island

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett

Frank W. Pickett
Cartographic Technician

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FORM C&GS-1002
(9-66)

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

PHOTOGRAMMETRIC OFFICE REVIEW

50 T- 10409

1. PROJECTION AND GRIDS ✓	2. TITLE ✓	3. MANUSCRIPT NUMBERS ✓	4. MANUSCRIPT SIZE ✓

CONTROL STATIONS

5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ✓	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY *(Topographic stations)* ✓	7. PHOTO HYDRO STATIONS ✓

8. BENCH MARKS	9. PLOTTING OF SEXTANT FIXES	10. PHOTOGRAMMETRIC PLOT REPORT ✓	11. DETAIL POINTS ✓

ALONGSHORE AREAS *(Nautical Chart Data)*

12. SHORELINE ✓	13. LOW-WATER LINE ✓	14. ROCKS, SHOALS, ETC. ✓	15. BRIDGES
16. AIDS TO NAVIGATION ✓	17. LANDMARKS ✓	18. OTHER ALONGSHORE PHYSICAL FEATURES ✓	19. OTHER 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 ✓

Final

40. REVIEWER: Leo F. Bruguet

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: This form prepared by the final reviewer.

REVIEW REPORT T-10409
SHORELINE
APRIL 30, 1969

61. GENERAL STATEMENT:

See Summary which is page 6 of the descriptive report.

The Tonowek Bay and Tonowek Narrows area of this survey were not field inspected or field edited. The area to the south and east of Point Swift, in the southeastern section of the survey, was not delineated. This area overlaps with survey T-11103.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Comparison was made with copies of registered survey No.2692, 1:20,000 scale made in 1904 and No.3447, 1:10,000 scale made in 1914. The passage of time has made these surveys obsolete. They are superseded by T-10409 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS CRAIG (D-4) and CRAIG (D-5) ALASKA quadrangles. Both are 1:63,360 scale 15 x 20 minute quadrangles 1949 and 1951 editions respectively. The surveys are in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

Comparison was made with copies of reviewed survey H-8392 and unreviewed survey H-8393. All differences between the hydrographic surveys and T-10409 have been shown on the comparison print in purple.

There is no contemporary hydrography in the area of Tonowek Bay and Tonowek Narrows.

65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with nautical charts 8157, 6th edition, February 21, 1966 and 8171, 8th edition, June 10, 1968. The shoreline of the charts is in good agreement with that of T-10409. Some rocks appearing on the charts are not visible on the photographs because of kelp. All rocks that are not visible have been indicated 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. Refer to qualifying statements (Summary Page 6 and Heading 61, page 22)

Field photographs 52039, 52073 thru 52076 and office photographs 52029 thru 52031, 52038 thru 52040 52073 thru 52076 and 52168 were used to review the manuscript during final review.

Many of the records for this survey were lost prior to final review. All data available has been made a part of the report.

Approved by:

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

Reviewed by:

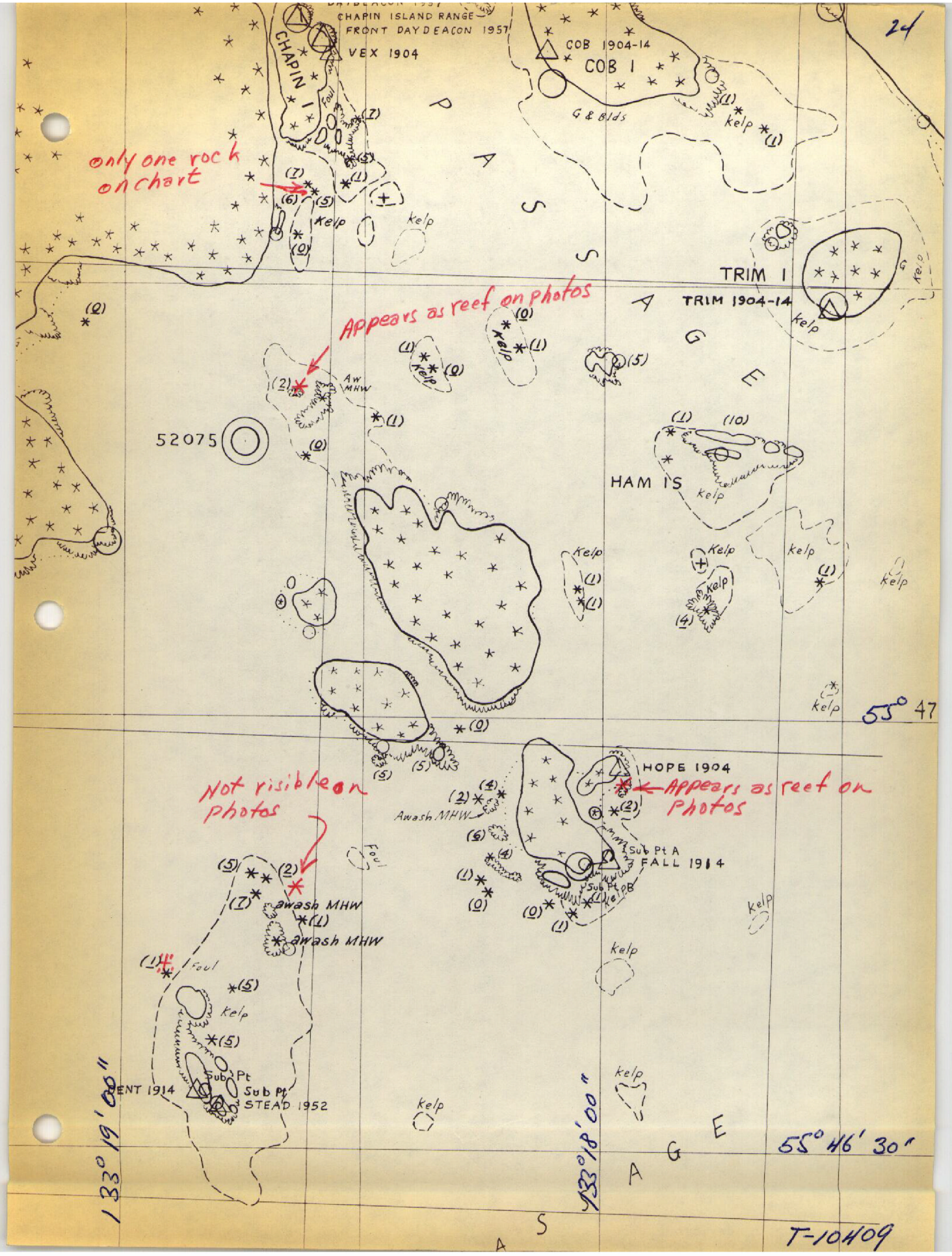
Leo F. Beugnet
Leo F. Beugnet

Approved by:

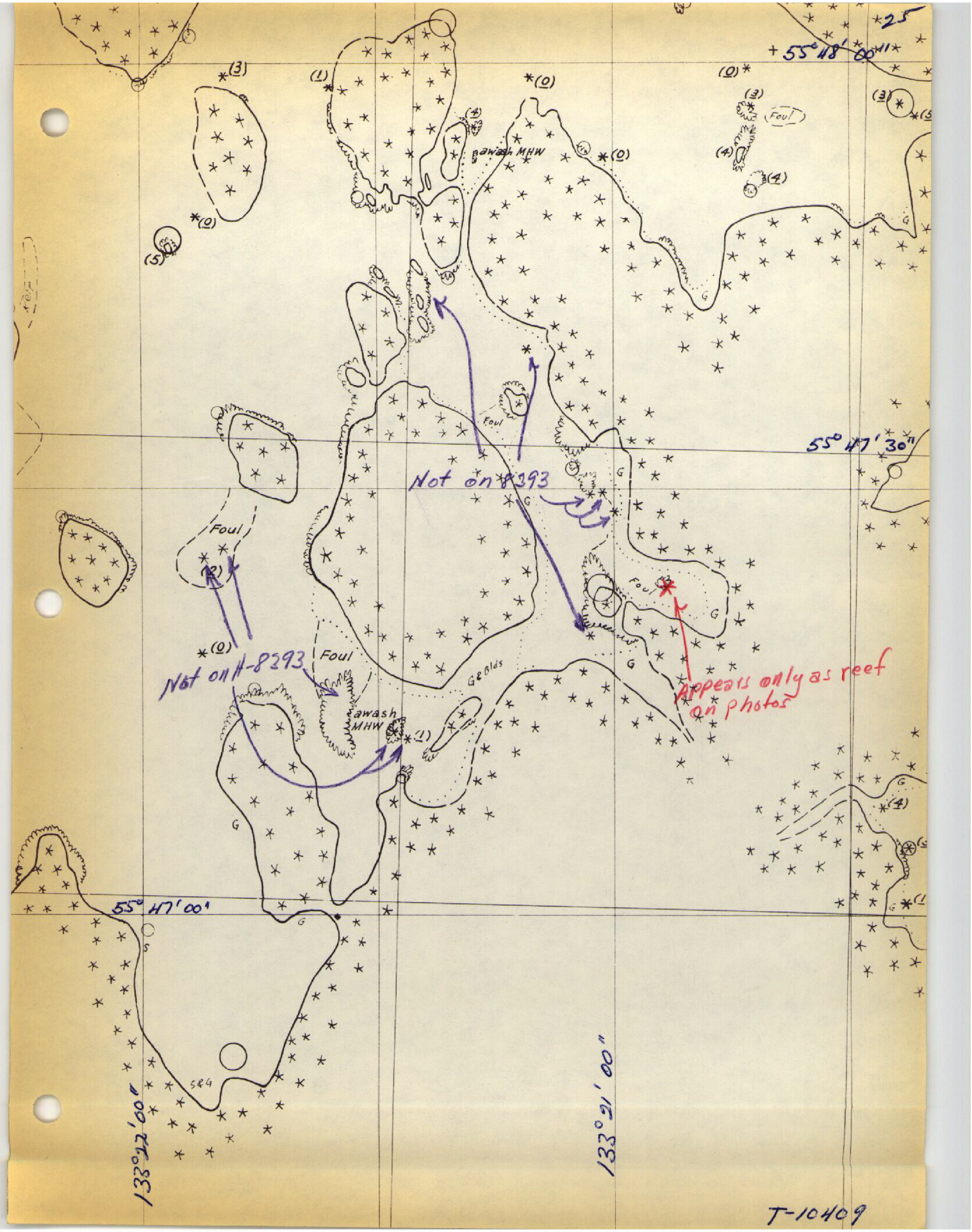
Charles Henn
Chief, Photogrammetric Branch DDB

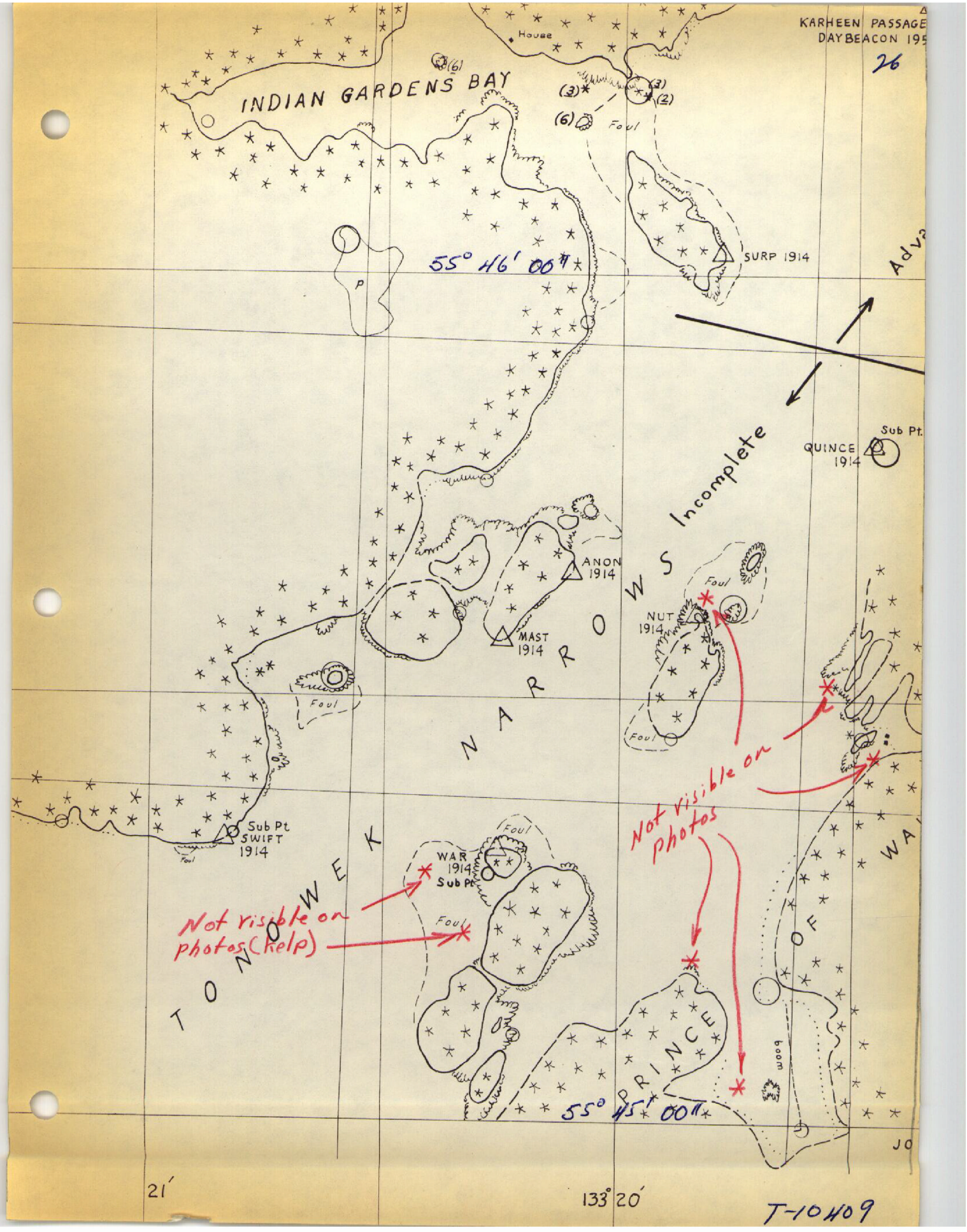
R H Houtson
Chief Photogrammetry Division

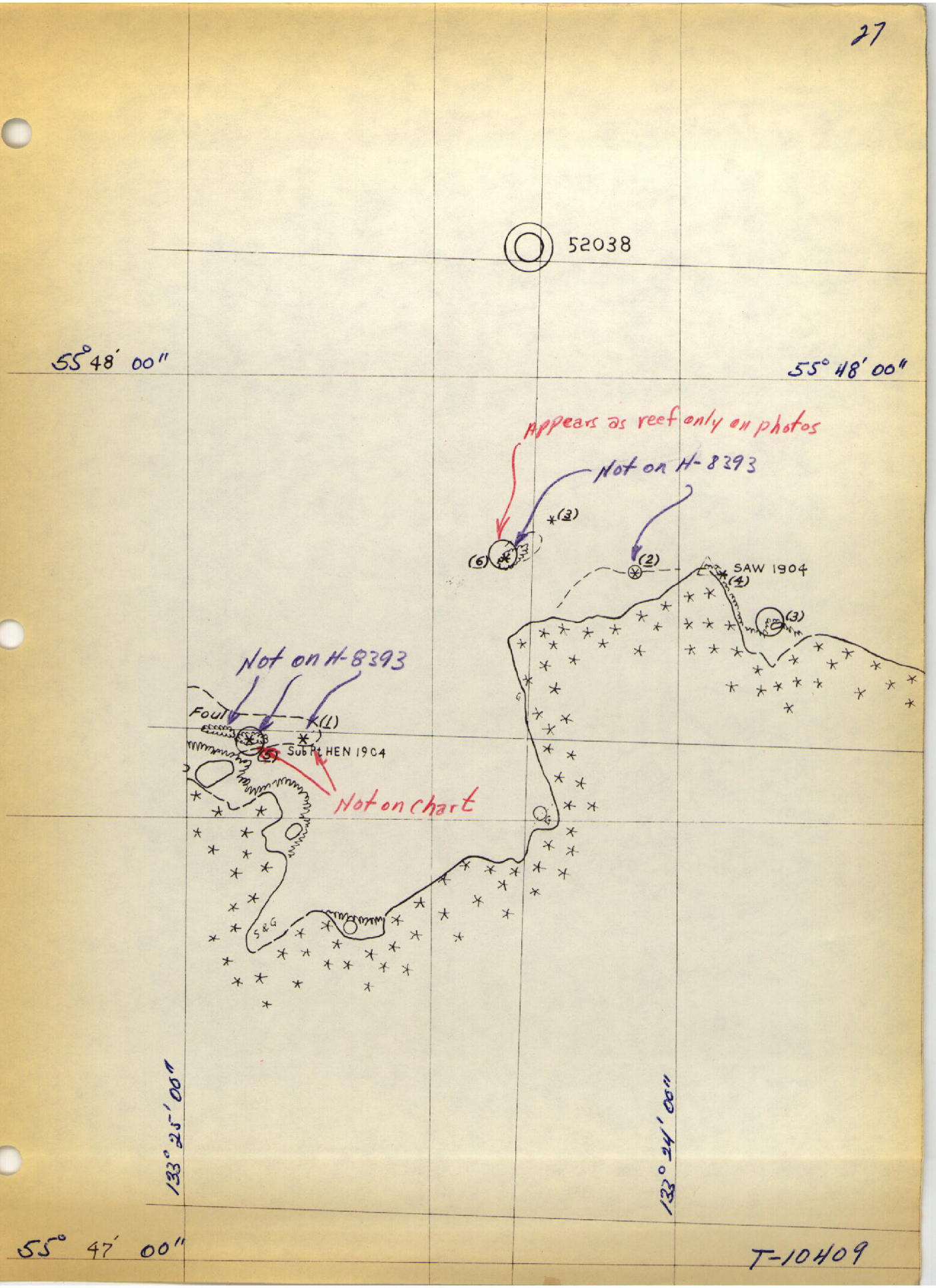
Chief, Nautical Chart Division


CHAPIN ISLAND RANGE
FRONT DAYBEACON 1957
VEX 1904
CHAPIN I
COB 1904-14
COB I
G & Blds
kelp
only one rock on chart
PASSAGE
TRIM I
TRIM 1904-14
Appears as reef on photos
52075
AW MHW
HAM IS
Kelp
55° 47
HOPE 1904
Appears as reef on Photos
Not visible on photos
Awash MHW
Sub Pt A
FALL 1914
Sub Pt B
awash MHW
awash MHW
Foul
Sub Pt
Sub Pt
STEAD 1952
133° 19' 00"
133° 18' 00"
55° 46' 30"
PASSAGE

T-10409


+55°18'00"
55°17'30"
55°17'00"
133°22'00"
133°21'00"
Foul
Foul
Foul
Foul
Foul
awash MHW
awash MHW
Not on H-8293
Not on H-8293
Appears only as reef on photos
G & Bldg
584
T-10409


KARHEEN PASSAGE
DAYBEACON 195
26
House
INDIAN GARDENS BAY
(6)
(3)
(2)
Foul
55° 46' 00"
SURP 1914
Adv?
Sub Pt.
QUINCE
1914
Incomplete
NARROWS
ANON
1914
MAST
1914
NUT
1914
Foul
Sub Pt
SWIFT
1914
TONOWEK
WAR
1914
Sub Pt
Not visible on photos (kelp)
Not visible on photos
PRINCE
OF
WA
55° 45' 00"
boom
JO
21'
133° 20'
T-10409


52038
55° 48' 00"
55° 48' 00"
Appears as reef only on photos
Not on H-8393
(3)
(6)
(2)
SAW 1904
(4)
(3)
Not on H-8393
Foul
(1)
SUBMARINE 1904
(5)
Not on chart
S&G
133° 25' 00"
133° 24' 00"
55° 47' 00"
T-10409

FORM C&GS-567
(5-66)

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

TO BE CHARTED
~~TO BE REVISED~~
~~TO BE DELETED~~
} STRIKE OUT TWO

Baltimore, Maryland 20 December 19 57

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks be charted on ~~the~~ the charts indicated.

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

William F. Deane *Chief of Party.*

STATE: Alaska

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	POSITION LATITUDE* ″ D.M. METERS	POSITION LONGITUDE* ° ′	POSITION LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
1	Chapin Island Range, Front Beacon (Chapin Island Range, Front Beacon, 1957)		55 47	47.079 1456.1	133 18	35.362 616.1	N.A. 1927	T-10409 Tri.	1957		X		8157 8171
	Chapin Island Range, Rear Beacon (Chapin Island Range, Rear Beacon, 1957)		55 47	48.398 1496.9	133 18	38.460 670.1	N.A. 1927	T-10409 Tri.	1957		X		8157 8171
	Karheen Passage Daybeacon (Karheen Passage Day Bcn, 1952)		55 46	18.983 587.1	133 19	21.372 372.6	N. A. 1927	T-10409 Tri.	1952		X		8157 8171

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS

USCOMM-DC 36485-P66