

# 9184

Diag. Cht. No. 8102-3.

FORM C&GS-504

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

## DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. MA-10-3-70 Office No. H-9184

### LOCALITY

State ALASKA

General locality FELICE STRAIT  
~~Southeast~~

Locality VICINITY OF PT DAVISON  
~~Nichols Passage Felice Strait~~

1970

### CHIEF OF PARTY

Donald R. Tibbit, Cdr., NOAA

### LIBRARY & ARCHIVES

DATE NOV 8 1970

USCOMM-DC 37022-P66

*Charts 8102  
8074  
8075  
8086*

9184

HYDROGRAPHIC TITLE SHEET

H-9184

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

MA-10-3-70

State ALASKA

General locality FELICE STRAIT  
~~S. E. Alaska~~

Locality VICINITY OF FT. DAVISON  
~~Nichols Passage~~

Scale 1:10,000 Date of survey 9/10/70 - 10/19/70

Instructions dated 26 Mar. 1970, 6 Apr. 1970 Project No. OPR-424

Vessel NOAA Ship McARTHUR (CSS-30)

Chief of party Donald R. Tibbit, Cdr., NOAA

Surveyed by T.C. Howell, III, D.M. Spillman, D.M. Wilson, J.P. Brown & N.A. Prah

Soundings taken by echo sounder, hand lead, pole DE723 #918, #920, #931

Graphic record scaled by Ship personnel

Graphic record checked by Ship personnel

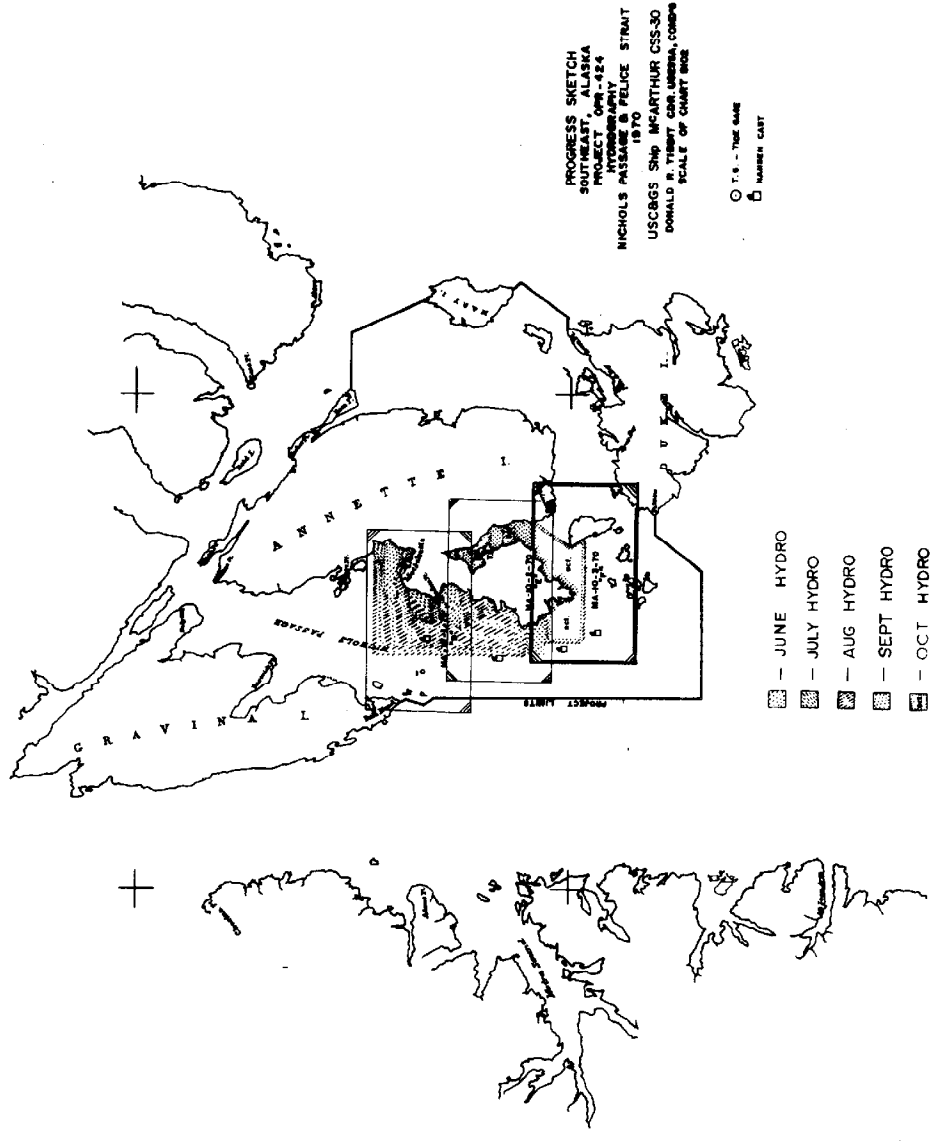
Positions verified Vincent F. Flor Automated plot by Digital Plotter, PMC

Soundings ~~checked~~ <sup>verified</sup> by Vincent F. Flor

Soundings in ~~fathoms~~ ~~xxx~~ at ~~MLW~~ ~~xxxxxx~~ FATHOMS AND TENTHS  
MEAN LOWER LOW WATER

REMARKS: This survey was accomplished using skiffs, launch AR-1 and Launch  
AR-2.

*Applied to stds 12-4-73*  
*MS*



PROGRESS SKETCH  
 SOUTHEAST, ALASKA  
 PROJECT OPR-624  
 HYDROGRAPHIC SURVEY  
 NICHOLS PASSAGE & FELICE STRAIT  
 1970  
 USCGS SHIP MCARTHUR CSS-30  
 DONALD R. THOMT CDRL USN (R), COMUSC  
 SCALE OF CHART 8002

T.S. - TRUE SCALE  
 MARCH 1971

- JUNE HYDRO
- JULY HYDRO
- AUG HYDRO
- SEPT HYDRO
- OCT HYDRO

DESCRIPTIVE REPORT  
TO ACCOMPANY  
HYDROGRAPHIC SURVEY H-9184, MA-10-3-70

OPR-424

S. E. Alaska

Scale 1:10,000

USS & GSS MCARTHUR

Donald R. Tibbit

Cdr., USESSA

Commanding Officer

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SURVEY (MA 10-3-70)

NOAA Ship McARTHUR (CSS-30)

Scale 1:10,000

Donald R. Tibbit, CDR, NOAA

1970

A. PROJECT

Hydrography on this boatsheet was accomplished in accordance with project instructions OPR-424, Nichols Passage and Felice Strait, South East Alaska dated 26 March, 1970 and Change #1, dated 6 April, 1970

B. AREA SURVEYED

The area surveyed is on the southwest end of Annette Island near Tamgas Harbor. It is bounded on the north by Lat. 55°01.5'N, on the south by Lat. 54°59.15'N, on the west by Long. 131°40.00'W and on the east by Hotspur Island and a line between Mule Rock C.G. Light and Harris C.G. Light. The survey was performed between 11 September, 1970 and 19 October, 1970. The survey overlaps prior surveys H-3700 WD (1:10,000 - 1914), H-3712 (1:20,000 - 1914), H-3781 (1:20,000 - 1915) and H-3786 (1:20,000 - 1915). This survey junctions with contemporary survey MA 10-2-70 (1:10,000 - 1970).

C. SOUNDING VESSELS

Hydrography performed by Launch AR-1 is indicated by blue position numbers, Launch AR-2 by violet position numbers, and all skiffs positions by green position numbers.

D. SOUNDING EQUIPMENT

Raytheon DE 723 fathometers were used throughout the survey, serial number 931 on Launch AR-1 and serial number 920 on Launch AR-2. The fathometer initial was set on 0.0 fathoms on both launches. Skiff soundings were taken with either a leadline or sounding pole. Bar checks to seven fathoms were taken twice daily to determine instrument and transducer draft corrections for the launches. Velocity corrections included in the bar check results were subtracted out to determine instrument and transducer draft corrections. Velocity corrections were obtained from the results of 4 Nansen casts taken

at the working grounds during the 1970 field season. No phase corrections were necessary. Settlement and squat corrections were not determined because the sounding vessels were run at a great variety of speeds. Tide reducers were determined from actual tides observed using a bubbler gage at Tamgas Harbor pier, Tamgas Harbor, Alaska. TC/TI tapes for the launches were made using single indicator format. The tapes for both launches combined instrument error correction and the transducer draft correction. The velocity correction table for launches AR-1 and AR-2 is referred to as table 2 in the TC/TI tape. The transducer draft/instrument error correction for each launch remained constant throughout the survey (AR-1 + .1 fm. AR-2 + .2 fm.). All fathograms were carefully scanned and intermitted drift of the initial setting was combined with the transducer draft/instrument error to arrive at the final TRA correction.

E. SMOOTH SHEET

The smooth sheet is to be plotted by the Gerber Plotter at the Electronic Data Processing Division, Pacific Marine Center.

F. CONTROL

All hydrography on the boatsheet was controlled by visual three point sextant fix methods. Control consisted of 5 existing triangulation stations, 27 photo hydro signals, 4 hydro signals located by theodolite cuts, 2 hydro signals located by sextant cuts. Photo hydro signals were transferred using 1:10,000 scale incomplete manuscripts T-12450, T-12451, T-12456 and T-12457.

G. SHORELINE

Shoreline was transferred to the boatsheet from the four manuscripts mentioned in Section F. The transfer of shoreline and topographic details was verified. There are only minor changes to the shoreline and these changes are shown and noted on the boatsheet, the ozalid field-edit copies of the manuscripts and the field-edit photos. The low water line was not defined by the hydrographer in some areas due to the steeply sloping bottom and irregular, rock shoreline.

H. CROSSLINES

There were 322.8 nautical miles of hydrography in the basic system of sounding lines, of which 27.7 nm or 8% were crosslines.

There were no significant discrepancies.

I. JUNCTIONS

The soundings in this survey agree well with the contemporary survey mentioned in Section B of the report. No adjustments were necessary.

J. COMPARISON WITH PRIOR SURVEYS

Comparisons with all referenced prior surveys were made. Agreement was in general good, except for one major discrepancy. A 3 5/6 fathom pre-survey sounding at Lat. 55°59.82' Long. 131°35.46' was not verified. A depth of 13 fathoms was recorded just south of this position as shown on the boatsheet.

Minor discrepancies with prior surveys were found, due to the greater accuracy of the instruments used in this survey.

There were two numbered pre-survey review items applicable to this survey. Item No. 17, a rock at Lat. 55°01.08' Long. 131°33.52', which was noted as probably being the same rock as the one charted about 170 meters to the southeastward on Chart 8074, 1:40,000, 10th Edition 1 May, 1967, was investigated and its presence was confirmed. Item No. 12, a note on Chart 8086, 1:40,000, 2nd Edition 9 August, 1969, that 2 symbols may refer to the same rock at Lat. 55°00.16' Long. 131°38'10" was investigated and confirmed.

K. COMPARISON WITH THE CHART

This survey was compared with charts 8074, 1:40,000, 10th Edition, 1 May, 1967 and 8086, 1:40,000, 2nd Edition, 9 August, 1969. Comparison of the survey with these charts revealed several discrepancies:

<u>LAT. N</u>	<u>LONG. W</u>	<u>POSITION NOS.</u>	<u>VOL NO.</u>	<u>LEAST DEPTH (CHARTED)</u>	<u>LEAST DEPTH (FM)</u>	
55°00.18'	131°38.40'	<sup>586 581</sup> <del>585</del> , 584 (Skiff)	2	2	3.7	3.4 + 2.6
55°00.19'	131°38.60'	<del>588</del> , 587 (Skiff)	2	3	2.4	3.1
54°59.15'	131°38.10'	6330, 6331	14	7	8.3	6.5
54°59.50'	131°38.09'	<del>2441</del> , 2442	7	13	12	
54°59.65'	131°38.70'	<del>4251</del> , <del>4252</del>	10	12	13	12.0
54°59.26'	131°37.79'	<sup>4282</sup> <del>4316</del> , <del>4317</del>	10	8	7.6	7.7
55°00.93'	131°33.96'	<del>4568</del> , 4569	12	9	8.7	9.3

L. ADEQUACY OF SURVEY

Hydrography was completed on the northwestern portion of this boatsheet. The portion of the boatsheet completed is bounded by Hotspur

Island and a line between Mule Rock C.G. Light and Harris C.G. Light on the eastern side and Lat. 54°59.15'N on the southern side. The completed survey is adequate to supersede prior surveys.

M. AIDS TO NAVIGATION

There are three fixed aids to navigation in this survey area. Mule Rock Light, which is a red and white checkered diamond daymark on a skeleton tower, is located at the entrance to Tamgas Harbor (Lat. 55°01.3' Long. 131°30.7'). Harris Island Light, a red and white checkered diamond daymark on a small house was incorrectly located. Its correct position is Lat. 55°00.25' Long. 131°32.02'. Point Davison Light is a red and white checkered diamond daymark on a small house. Its position was not determined.

N. STATISTICS

McARTHUR

Nautical miles sounding lines	0.0
Number of positions	<del>43</del> 92
Bottom Samples	<del>43</del> 42
Nansen Casts	4

LAUNCH AR-1

Nautical miles sounding lines	74.5
Number of positions	<del>597</del> 665

LAUNCH AR-2

Nautical miles sounding lines	276.0
Number of positions	<del>2507</del> 2494

SKIFF

Nautical miles sounding lines	0.0
Number of positions	<del>212</del> 202

TOTAL

Nautical miles sounding lines	350.5
Number of positions	<del>2259</del>
Area in square nautical miles	<del>3483</del> 18.85
Bottom Samples	82

O. MISCELLANEOUS

Skiff positions 1 through 99 and 500 through 621 require no velocity



or transducer draft corrections since they were made using a lead-line.

The predicted tide reducer printout supplied by Pacific Marine Center was incorrect beginning with 19 September. The reducers listed under the 19th were wrong, however, the correct tide reducers for this date were listed under the following day (20 September). From this point on all predicted tide reducers were listed one day ahead of their correct Julian day number. This error was not detected until a considerable amount of hydrography had been completed. Consequently, boatsheet soundings recorded after 19 September were corrected when the tide reducers used were more than  $\pm 0.3$  fathoms from the correct predicted tide reducers.

P. RECOMMENDATIONS

Based on the experiences of the McARTHUR with incomplete and inadequate photohydro support during the 1969 and 1970 field season, no attempt should be made to run hydrography on the southeastern part of this survey until larger scale photographs have been taken and compiled.

Q. REFERENCES TO REPORTS

Fathometer correction report OPR-424 Nichols Passage 1970; Field edit reports T-12450, T-12451, T-12456 and T-12457; Geographic names report OPR-424 Nichols Passage; Pre-survey review OPR-424 Nichols Passage.

R. ELECTRONIC DATA PROCESSING INFORMATION

Data was recorded using a Climatronics Data Logger and Friden Flexowriter in single indicator visual control format position and sounding tapes were combined.

Submitted by:

*Robert K. Norris*

Robert K. Norris  
ENS, NOAA

Approved and Forwarded:

*Donald R. Tibbit*  
Donald R. Tibbit, CDR, NOAA  
Commanding Officer  
NOAA Ship McARTHUR (CSS-30)

ENCLOSURES:

Tide Note  
Abstract of Velocity Corrections to Echo Soundings  
Abstract of Transducer Draft and Instrument Corrections  
to the Echo Soundings  
List of Signals  
Abstract of Position Numbers  
List of Basic Field Records  
Approval Sheet

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 8, 1971

~~Administrative Division:~~ Pacific Marine Center

Plane of reference approved  ~~Volume of sounding records~~ for two tide tape printouts

~~HYDROGRAPHIC SHEET~~ OPR-424

Locality: Nichols Passage & Felice Strait, S.E. Alaska

Year  
~~Chief of Party:~~ 1970

Plane of reference is Mean lower low water

Tide Station Used (Form C&GS-681):

Tangas Harbor  
Metlakatla

Height of Mean High Water above Plane of Reference is as follows:

Tangas Harbor = 13.6 ft.  
Metlakatla = 13.7 "

Remarks

H-9157

H-9182

H-9184

*J. M. Symons*  
Chief, Tides and Currents Branch

GEOGRAPHIC NAMES

Survey No. H-9184

Name on Survey	On Chart	On previous survey	On U. S. Quadrang. Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atl.	U. S. Light List	
	A	B	C	D	E	F	G	H	K
✓ ANNETTE ISLAND									1
✓ CLARENCE STRAIT									2
✓ GRASS ROCK									3
✓ GREY POINT									4
✓ HARRIS ISLAND									5
✓ HOTSPUR ISLAND									6
✓ MOSS POINT									7
✓ MULE ROCK									8
✓ POINT DAVISON									9
✓ SEXTANT POINT									10
									11
									12
									13
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									25
									26
									27

Approved by:  
 Ches. E. Harrington  
 Staff Geographer  
 1-24-1974

ABSTRACT OF VELOCITY CORRECTIONS  
TO ECHO SOUNDINGS

(MA 10-3-70)

All depths and corrections are in fathoms and tenths.  
Corrections of table 0002 apply to all Launch AR-1 and  
Launch AR-2 soundings of the survey. For more information  
see the Fathometer Correction Report OPR 424. The 0 in  
the first column of the velocity correction table indicates  
positive corrections.

DEPTH	VEL	VEL				
	CORR	TAB-				
000020	0	0000	0002	000	000000	000000
000092	0	0001				
000178	0	0002				
000289	0	0003				
000412	0	0004				
000540	0	0005				
000678	0	0006				
000818	0	0007				
000930	0	0008				
001054	0	0009				
001143	0	0010				
001295	0	0011				
001445	0	0012				

ABSTRACT OF TRANSDUCER DRAFT AND  
INSTRUMENT CORRECTIONS TO THE ECHO SOUNDINGS

(MA 10-3-70)

LAUNCH AR-2

Transducer Draft and Instrument corrections are  
in fathoms and tenths and apply to all Launch AR-2  
soundings of the survey. For more information  
see the Fathometer Correction Report OPR 424.  
The 1 in the first column of the TRA & INST CORR  
indicates a negative correction.

TIME	TRA& INST CORR	VEL TAB	DAY			
000000	0	0002	0002	254	000000	000000
000000	0	0002	0002	267	000000	000000
000000	0	0002	0002	273	000000	000000
000000	0	0002	0002	278	000000	000000
000000	0	0002	0002	279	000000	000000
131215	0	0000				
133015	0	0002				
155245	0	0004				
000000	0	0002	0002	280	000000	000000
000000	0	0002	0002	281	000000	000000
000000	0	0002	0002	282	000000	000000
000000	0	0002	0002	283	000000	000000
000000	0	0002	0002	284	000000	000000
000000	0	0002	0002	285	000000	000000
000000	0	0002	0002	286	000000	000000
000000	0	0002	0002	288	000000	000000
000000	0	0002	0002	292	000000	000000

ABSTRACT OF TRANSDUCER DRAFT AND  
INSTRUMENT CORRECTIONS TO THE ECHO SOUNDINGS

(MA 10-3-70)

LAUNCH AR-1

Transducer Draft and Instrument corrections are  
in fathoms and tenths and apply to all Launch AR-1  
soundings of the survey. For more information  
see the Fathometer Correction Report OPR 424.  
The 1 in the first column of the TRA & INST CORR  
indicates a negative correction.

TIME	TRA& INST CORR	VEL TAB	DAY		
000000	0	0001	0002	253	000000 000000
000000	0	0001	0002	258	000000 000000
133130	0	1001			
134330	0	0001			
143330	0	0003			
000000	0	0001	0002	274	000000 000000
000000	0	0001	0002	278	000000 000000
000000	0	0001	0002	279	000000 000000
000000	0	0001	0002	280	000000 000000
083530	0	1001			

LIST OF SIGNALS

MA 10-3-70

<u>NUMBER</u>	<u>ORIGIN OF STATION</u>
009	T-12450
010	T-12450
012	DUNCAN, 1912
014	T-12450
016	T-12450
018	T-12450
020	T-12450
022	T-12450
024	T-12450
028	T-12450
030	DAVIS, 1914
032	T-12456
034	T-12456
036	T-12456
038	T-12450
039	T-12450
040	T-12450
041	T-12451
042	T-12450
044	T-12451
045	T-12451
046	T-12451
048	T-12451
050	T-12451
052	FEL, 1914
060	T-12451
102	T-12450
104	T-12450
106	T-12450
172	T-12457
174	T-12457
176	T-12457
178	MID, 1914
180	COW, 1914
220	T-12451
222	T-12451
282	T-12451
284	T-12451



ABSTRACT OF POSITION NUMBERSMA 10-3-70

<u>VESSEL</u>	<u>DATE</u>	<u>JULIAN DAY</u>	<u>POSITIONS</u>
MCARTHUR	28 SEP 70	271	8000-8008
	15 OCT 70	288	8009-8019
	19 OCT 70	292	8020-8043
LAUNCH AR-1	10 SEP 70	253	1000-1076
	15 SEP 70	258	1084-1306
	1 OCT 70	274	1307-1432
	5 OCT 70	278	1433-1557
	6 OCT 70	279	1558-1625
	7 OCT 70	280	1626-1680
	LAUNCH AR-2	11 SEP 70	254
24 SEP 70		267	2099-2200
30 SEP 70		273	2001-2520
5 OCT 70		278	2521-2715
6 OCT 70		279	2716-2925
7 OCT 70		280	2926-4099
8 OCT 70		281	4099-4365
9 OCT 70		282	4366-4555
10 OCT 70		283	4555-4759
11 OCT 70		284	4760-4960
12 OCT 70		285	4961-6128
13 OCT 70		286	6129-6385
15 OCT 70		288	6386-6477
19 OCT 70		292	6478-6536
SKIFF #1	14 SEP 70	257	1-2
	15 SEP 70	258	5-36
	29 SEP 70	272	37
	30 SEP 70	273	38-45
	12 OCT 70	285	46-69
	13 OCT 70	286	70-94
	14 OCT 70	287	95-99
	15 SEP 70	258	500-513
	12 OCT 70	285	514-538
	13 OCT 70	286	539-556
	14 OCT 70	287	557-621

LIST OF BASIC FIELD RECORDS

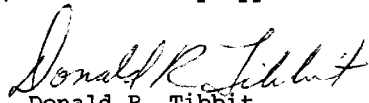
TO ACCOMPANY

(MA 10-3-70)

1	Boatsheet
16	Sounding Volumes
20	Envelopes DE 723 Fathograms
2	Incomplete Manuscript T-12450 Scale 1:10,000
2	Incomplete Manuscript T-12451 Scale 1:10,000
2	Incomplete Manuscript T-12456 Scale 1:10,000
2	Incomplete Manuscript T-12457 Scale 1:10,000
7	Sheets C&GS Form 733M, Bottom Sample Log
1	Tide Tape and Printout
1	Revised Signal Tape and Printout
1	Velocity Tape and Printout
1	TC/TI Tape and Printout for Launches
1	Form 1 Parameters for Digital Computing Polyconic Projection
1	Signal Overlay
1	Form 251 Observations of Horizontal Directions
13	Boxes of Position - Sounding Tapes
13	Envelopes of Position - Sounding Tape Printouts

APPROVAL SHEET FOR MA 10-3-70

Field work on this survey was accomplished under my general supervision. Frequent inspections of the field data and boatsheet were made by me as the survey progressed. The sounding records have been inspected by me and are approved. This survey is complete and adequate, except for items mentioned in Sections "L" and "P", and is hereby approved.



Donald R. Tibbit  
CDR, NOAA  
Commanding Officer  
NOAA Ship McARTHUR (CSS-30)

NOAA SHIP MCARTHUR  
 OPR 424  
 TIME MERIDIAN 105 DEGREES WEST LONGITUDE  
 TAMGAS HARBOR GAGE  
 1970  
 CORRECTORS IN FATHOMS  
 MLLW 9.4 FEET  
 TIME SHIFT 0000  
 RANGE RATIO 1.00

*Reviewer file  
 carrier* *in*

<i>See 9</i>	100400 00 1014 0000 252 0 080000 000000	252
	104300 00 1013	252
	111500 00 1012	252
	114600 00 1011	252
	122700 00 1010	252
	145900 00 1009	252
	153600 00 1010	252
	160000 00 1011	252
	071800 00 1009 0000 253 0 070000 000000	252
	073800 00 1010	253
	080000 00 1011	253
	082300 00 1012	253
	085000 00 1013	253
	092800 00 1014	253
	112600 00 1015	253
	120300 00 1014	253
	123700 00 1013	253
	130800 00 1012	253
	133700 00 1011	253
	141100 00 1010	253
	151000 00 1009	253
	155900 00 1008	253
	160000 00 1009	253
	071800 00 1005 0000 254 0 070000 000000	253
	073500 00 1006	254
	075200 00 1007	254
	080700 00 1008	254
	082100 00 1009	254
	083600 00 1010	254
	085100 00 1011	254
	090600 00 1012	254
	092200 00 1013	254
	093900 00 1014	254
	100000 00 1015	254
	103000 00 1016	254

120000	00	1016						254
101000	00	1008	0000	257	0	100000		257
101800	00	1009						257
102600	00	1010						257
103500	00	1011						257
104300	00	1012						257
105100	00	1013						257
110000	00	1014						257
110800	00	1015						257
111700	00	1016						257
112600	00	1017						257
113500	00	1018						257
114400	00	1019						257
115400	00	1020						257
120500	00	1021						257
121700	00	1022						257
123100	00	1023						257
124700	00	1024						257
130000	00	1025						257
070700	00	0003	0000	258	0	070000		258
072600	00	0004						258
083300	00	0005						258
085300	00	0004						258
090800	00	0003						258
092200	00	0002						258
093400	00	0001						258
094400	00	1000						258
095500	00	1001						258
100400	00	1002						258
101300	00	1003						258
102200	00	1004						258
103000	00	1005						258
103900	00	1006						258
104700	00	1007						258
105500	00	1008						258
110300	00	1009						258
111000	00	1010						258
111800	00	1011						258
112500	00	1012						258
113300	00	1013						258
114000	00	1014						258
114800	00	1015						258
115600	00	1016						258
120300	00	1017						258
121200	00	1018						258
122000	00	1019						258
122900	00	1020						258
123800	00	1021						258
124800	00	1022						258

125800	00	1023	258
131100	00	1024	258
132600	00	1025	258
134500	00	1026	258
150200	00	1027	258
151900	00	1026	258
153300	00	1025	258
154500	00	1024	258
155500	00	1023	258
160500	00	1022	258
161500	00	1021	258
162400	00	1020	258
163200	00	1019	258
164000	00	1018	258
164900	00	1017	258
165600	00	1016	258
170400	00	1015	258
171200	00	1014	258
171900	00	1013	258
172600	00	1012	258
173400	00	1011	258
174100	00	1010	258
174900	00	1009	258
175600	00	1008	258
180400	00	1007	258
181300	00	1006	258
182100	00	1005	258
183000	00	1004	258
183900	00	1003	258
184900	00	1002	258
190000	00	1001	258
191100	00	1000	258
192500	00	0001	258
194100	00	0002	258
200000	00	0003	258
070800	00	1001 0000 259 0 07000	259
071900	00	1000	259
073200	00	0001	259
074800	00	0002	259
081000	00	0003	259
090800	00	0004	259
092800	00	0003	259
094200	00	0002	259
095500	00	0001	259
100600	00	1000	259
101700	00	1001	259
102600	00	1002	259
103600	00	1003	259
104400	00	1004	259

105300	00	1005		259
110100	00	1006		259
110800	00	1007		259
111400	00	1008		259
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**Tides and Cur**

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H-9184

ROCK ELEVATION AT MLLW

<u>Vol.</u>	<u>Page</u>	<u>Position Number</u>	<u>Topo Rock Elevation</u>	<u>Hydro Rock Elevation</u>	<u>Remarks</u>
1	6	ØØ1Ø	Northern end of ledge	(Ø)	
"	7	ØØ12	(9)	(8)	
"	8	ØØ18	(6)	(5)	
"	"	ØØ2Ø	(7)	(9)	
"	"	ØØ21	Ledge	(6)	
"	9	ØØ22	(5)	(7)	
"	"	ØØ23	Northern tip of reef	(7)	
"	"	ØØ27	(5)	(6)	
"	"	ØØ28	(7)	(6)	
"	1Ø	ØØ34	Eastern tip of reef	(Ø)	
"	"	ØØ35	Awash MHW	(12)	
"	13	ØØ37	(9)	(7)	
"	14	ØØ41	Reef	(14)	
"	15	ØØ43	Reef	(7)	
"	"	ØØ44	(5)	(4)	These are Topo rocks near by. They could be same rocks.
"	"	ØØ45	(4)	(5)	
"	18	ØØ46	East side of reef	(9)	
"	"	ØØ48	Ledge	(12)	

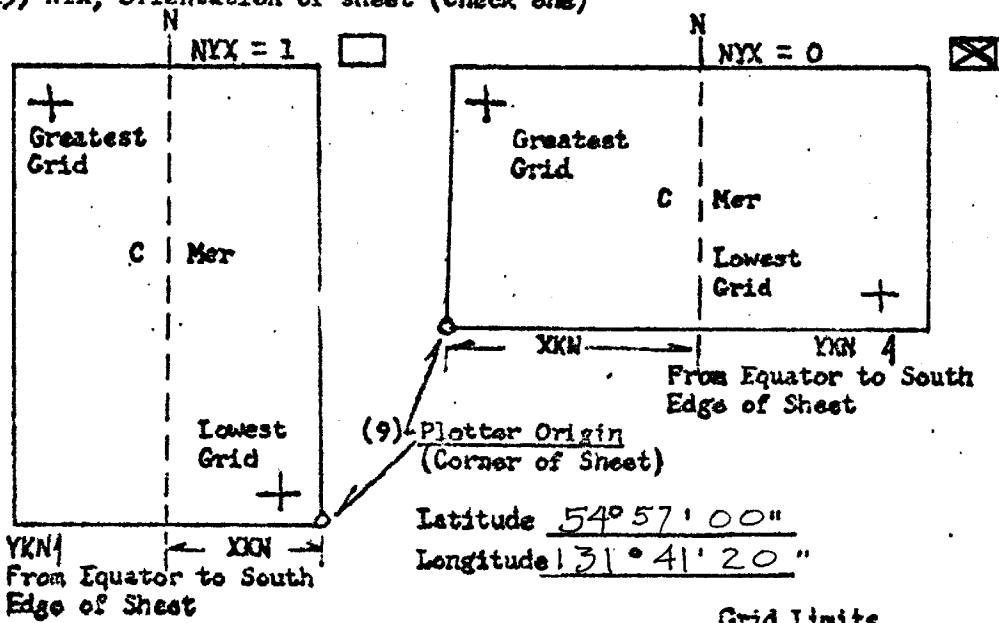
<u>Vol.</u>	<u>Page</u>	<u>Position Number</u>	<u>Topo Rock Elevation</u>	<u>Hydro Rock Elevation</u>	<u>Remarks</u>
1	19	0055	(10)	(12)	Could be the same rock
"	21	0062	(6)	(5)	
"	24	0070	(11)	(9)	
"	"	0071	(8)	(7)	
"	"	0072	Reef	(12)	
"	"	0073	Awash MHW	(10)	
"	"	0074	Awash MHW	(11)	
"	25	0075	(10)	(6)	
"	"	0076	(10)	(2)	
"	"	0077	Reef	(1)	
"	29	0090	Awash MHW	(0)	There is a big discrepancy.
II	4	0502	Reef	(5)	
"	"	0503	(5)	(10)	
"	5	0508	(6)	(8)	
"	"	0509	Reef	(8)	
"	6	0512	Awash MHW	(11)	
"	10	0514	Northern tip of Reef	(12)	
"	"	0515	"	(10)	
"	15	0540		(6)	Topo Ledge
"	16	0541		(7)	"
"	"	0543		(11)	"
"	17	0545		(10)	"

<u>Vol.</u>	<u>Page</u>	<u>Position Number</u>	<u>Topo Rock Elevation</u>	<u>Hydro Rock Elevation</u>	<u>Remarks</u>
II	18	Ø557		(1Ø)	Topo Ledge
"	24	Ø561		(5)	"
"	25	Ø564		(9)	"
"	26	Ø566		(6)	"
"	"	Ø567		(2)	"
"	27	Ø569		(4)	"
"	"	Ø571		(16)	"

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PARAMETERS FOR DIGITAL COMPUTING  
POLYCONIC PROJECTION

- (1) Project No. OPR 424 (4) Requested by D. R. TIBBIT  
 (2) H No. H-9184 (5) Ship or Office McARTHUR  
 (3) Field No. F MA-10-3-70 (6) Date Required JULY 15, 1970  
 (7) Visual  Ft. (0) or Fathoms (1)  (8) Electronic  (fill out form #3)  
 (10) XKN (SP 5) Distance from C Mer to East Edge (NYX = 1) or West Edge (NYX = 0). (Origin) 7297.59 Meters ✓  
 (11) YKN (SP 24L) Distance from Equator to South Edge of Sheet. (Origin) 6,091,448.706 Meters ✓  
 (12) Central Meridian 131° 34' 30"  
 (13) Survey Scale 1: 10,000  
 (14) Size of Sheet (Check one) 36x60  42x60   
 (15) NYX, Orientation of sheet (Check one)



Grid Limits

- (16) Greatest Latitude 55° 01' 30" (Projection Line Interval Page 4)  
 (17) Lowest Latitude 54° 57' 00" (Hydro Manual)  
 (18) Difference 04' 30" (19) 0 30" ✓  
 (20) 9 YSN ✓  
 (21) Greatest Longitude 131° 41' 00"  
 (22) Lowest Longitude 131° 27' 30" (24) 0 30" ✓  
 (23) Difference 13' 30" (25) 27 XSN ✓

DHW ✓  
MEW ✓

**HYDROGRAPHIC SURVEY STATISTICS**  
**HYDROGRAPHIC SURVEY NO. H-9184 (1970)**

**RECORDS ACCOMPANYING SURVEY:** To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET		1	BOAT SHEETS		1	
DESCRIPTIVE REPORT		1	OVERLAYS 1 PNO Tracing Paper 1 Mylar PNO, 1 PSO, 1 Excess		4	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES			1			
CAHIERS	1					
VOLUMES	16					
BOXES						

T-SHEET PRINTS (List)

T-12450; T-12451; T-12456 & T-12457

SPECIAL REPORTS (List)

**OFFICE PROCESSING ACTIVITIES**

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				3403
POSITIONS CHECKED		3403		
POSITIONS REVISED		170		
DEPTH SOUNDINGS REVISED		127		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		2		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		28		
JUNCTIONS		24		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		414		
SPECIAL ADJUSTMENTS		----		
ALL OTHER WORK		678		
<b>TOTALS</b>		1144		
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY Vincent F. Flor <i>Vincent F. Flor</i>	10 July 1973		11 October 1973	
REVIEW BY	BEGINNING DATE		ENDING DATE	



VERIFIER'S REPORT  
HYDROGRAPHIC SURVEY, H - 9184(1970)

**INSTRUCTIONS** - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

**CL - Check List Items:** should be checked as having been completed during the verification processes.

**R - Report Item:** This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
<p><b>Note:</b> The verifier should first read the Descriptive Report for general information and problems.</p> <p>1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None</p>	✓		<p>10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are <b>SUPERSEDED</b>.</p>	✓	
<p>2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None</p>	✓		<p><b>Part IV - VOLUMES</b></p> <p>11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: -- None</p>	✓	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	✓				
<p><b>Part II - SHORELINE AND SIGNALS</b></p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys</p> <p>a. Give earliest and latest dates of photographs <i>July, 1963</i></p> <p>b. Field inspection date <i>Sept. Oct 1970, Oct 1971</i></p> <p>c. Field Edit date <i>Nov. 1972, April, 1973</i></p> <p>d. Reviewed-Unreviewed <i>Aug. 6, 1973</i></p>	✓		<p>12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following:</p> <p>(a) rocks ✓ (b) line turns ✓ (c) position values of beginning and ending of lines ✓ (d) bar check or velocity correctors ✓ (e) time recording ✓ (f) notes or markings on fathograms ✓ (g) was reduction of soundings accurately done? ✓ (h) was scanning accurate? <i>Yes</i> (i) were peaks at uneven intervals missed? <i>No</i> (j) were stamps completed? <i>Yes</i> (k) references to adjacent features ✓</p>		
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>	✓		<p><b>Part V - PROTRACTING</b></p> <p>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>		
<p>6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: -- None</p>	✓				
<p>7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.</p>	✓		<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>	✓	
<p><b>Part III - JUNCTIONS</b></p> <p><b>Note:</b> Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None</p>	✓		<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	✓	
<p>9. The notation in slanted lettering "JOINS H--- (19 )" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None</p>	✓				

Part V - PROTRACTING (Continued)		CL	R	Part VIII - AIDS TO NAVIGATION		CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.				26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: -- Conflicts of any nature listed.		✓	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.				27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. Remarks Required: -- None			
Part VI - SOUNDINGS				Part IX - BOAT SHEET			
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None		✓		28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None		✓	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.		✓		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		✓	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None		✓		Part X - GENERAL			
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None		✓		30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: -- None		✓	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: -- Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.		✓		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None		✓	
Part VII - CURVES				32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: -- None		✓	
23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.		✓		33. The bottom characteristics are adequately shown. Remarks Required: -- None		✓	
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area not sounded in black dashed Remarks Required: -- None		✓	✓	Part XI - NOTES TO THE REVIEWER			
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.		✓		34. Unresolved discrepancies and questionable soundings.			
				35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.			
				36. Supplemental information.			
Verified by <i>VINCENT F. FLOW</i>						Date Oct. 11, 1973	

9184

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Diag. Cht. No. 8102-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT  
(HYDROGRAPHIC)

Type of Survey ..... HYDROGRAPHIC  
Field No. .... MA-10-3-70  
Office No..... H-9184

LOCALITY  
State ..... ALASKA  
General Locality ..... FELICE STRAIT  
Locality ..... VICINITY OF PT. DAVISON

1970

CHIEF OF PARTY  
Donald R. Tibbit

LIBRARY & ARCHIVES

DATE ..... November 8, 1973

VERIFIER'S REPORT

H-9184

MA-10-3-70

SMOOTH SHEET

The Smooth Sheet and Position Number Overlay were plotted by the digital plotter and verified at Pacific Marine Center, Seattle, Washington.

Enclosed is a tabulation form showing comparison between elevation of rocks at Mean Lower Low Water and that in the Advance Manuscripts.

In volume I, page 29, position 90 of the Record Book shows that on 13 October 1970 at 181300 the rock was awash 1 foot. With the tide correction of plus 0.2 fathoms or plus 1.2 feet., the elevation of the rock would be zero at MLLW. However, the Advance Manuscript T-12457 shows that this particular rock is awash at Mean High Water and the height of MHW above plane of reference at Tamgas Harbor is 13.6 feet.

Hydrographic data obtained in surveys H-9184 (1972) and H-9184 (1973) will be processed separately under new registry numbers, which are not available at this time.

CONTROL

On page 2, section F of the Descriptive Report, six hydro signals (4 hydro signals located by theodolite cuts and 2 hydro signals located by sextant cuts) were mentioned. However, only signals #009, 018 and 038 were clearly shown in volumes I, II, and III of the Record Books. With the exception of hydro signal #009, neither the boat sheet nor the Incomplete T-sheets used for control show that these are definitely hydro signals although cuts are shown with blue circles and red numbers. Gathering from this information, I believe that these signals #009, 018, 034, 038, 172 and 174 are hydro signals. Also, two topo signals #060 and 222 have been corrected and updated and all the positions affected by these signals were corrected. The signals and their correct locations are as follows:

060	Lat. 55° 00' 15.04" N Long. 131° 32' 00.90" W
222	Lat. 55° 01' 20.15" N Long. 131° 30' 43.51" W

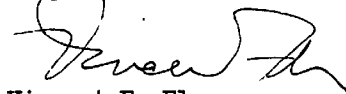
SHORELINE

The shoreline was transferred to the Smooth Sheet from Advance Manuscripts, T-12450, T-12451, T-12456 and T-12457.

COMPARISON WITH THE CHART AND STATISTICS

A correction was made in light pencil on page 3, section K and on page 4, section N of the Descriptive Report.

Respectfully submitted,



Vincent F. Flor  
Cartographic Technician

APPROVAL SHEET

The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report)

Examined and approved,



James S. Green

Supervisory Cartographic Technician

Approved and forwarded,



Walter F. Forster, Cdr., NOAA  
Chief, Processing Division  
Pacific Marine Center

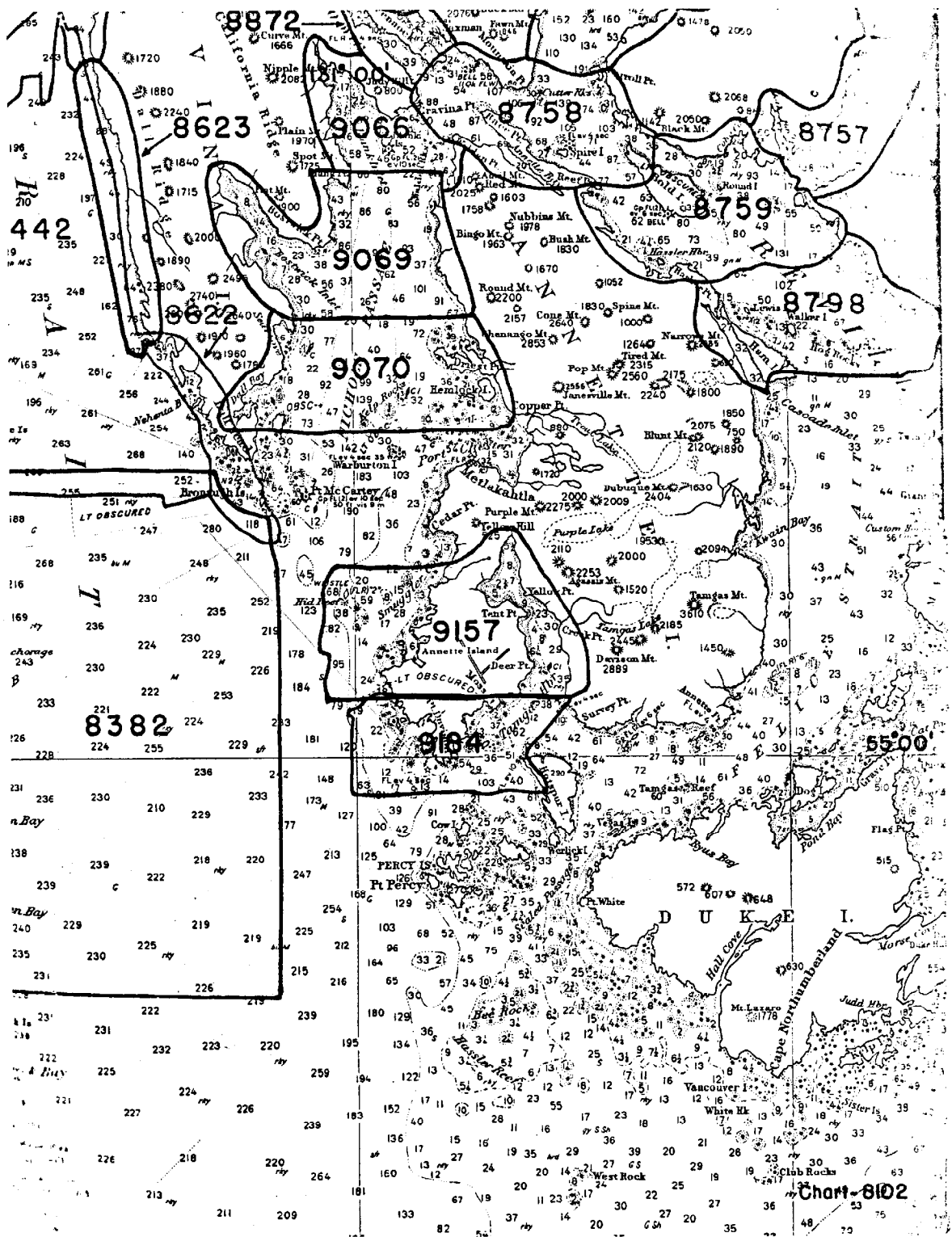


Chart-8102

