8312

Diag. Cht. Nos 8551-3.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. B0-2156 Office No. H-8312

LOCALITY

State Alaska

8312

General locality Montague Island

Locality Patton Bay

19 56-57

CHIEF OF PARTY

F. B. Quinn and C. LeFever

LIBRARY & ARCHIVES

DATE March 17, 1958

USCOMM-DC 5087

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8312
Field No. B0-2156

State	Alaska [*]		
General localit	y Montague Island, Prince	William Sound	
Locality	Patton Bay		
Scale	1:20,000	Date of survey July 1956, May 1957	
Instructions da	ated 28 Dec., 1954, amended	10 Feb., 1955, Supp. 28 Nov., 1955, 17	, (
Vessel Ship	BOWIE and Ship PATHFINDER		
Chief of party	Curtis Le Fever (BOWIE);	F. B. Quinn (PATHFINDER)	
Surveyed by H	I. R. Lippold, G. L. Short	, L. S. Baker, H. H. Druebert	
Soundings tak	en by xxxxxxxxx , graphic recor	der, Hand Carlowick	
Fathograms so	caled by Launch Personnel		
Fathograms cl	hecked by Ships Officers		
Protracted by	G. L. Short and V	B. Miller Officers	
Soundings per	nciled by R. D. Frost		
Soundings in	fathoms XXXX at MX	MLLW AND ARE TRUE DEPTHS.	•
REMARKS: T	his survey was started by	the Ship BOWIE in 1956 and completed	,
b	y the Ship PATHFINDER in 3	1957.	
			; .

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8312 (BO-2156)

MONTAGUE ISLAND, PRINCE WILLIAM SOUND,

PATTON BAY, ALASKA

Scale: 1:2,000 Project No: 12770 USC&GSS PATHFINDER Date: July 1956 May 1957 F. B. Quinn, Commanding

A - PROJECT

The authority for this survey is contained in instructions for Project CS-277 dated 28 December 1954, revised instructions 10 February 1955, Supplimental instructions for Project 12770 dated 28 November 1955 and 17 October 1956.

B - SURVEY LIMITS AND DATES

This survey is of PATTON BAY and its approaches. The limits extend approximately from 147° 16' West to 147° 30' West and 59° 50' North to 59° 58' North.

Field work was begun by the Ship BOWIE on 26 July 1956 and discontinued on 31 July 1956. Field work was resumed by the Ship PATHFINDER on 26 April 1957 and the survey completed on 10 May 1957. The survey joins sheet H-4730 (Scale: 1:60,000 - 1977) on the South and sheet H-5460 (Scale: 1:20,000 - 1933) on the East. There are no prior surveys of the area.

During the Ship BOWIE'S 1956 season, work was hampered by heavy seas which eventually made it necessary to suspend operations. During an Easterly storm, launch 92 was sunk.

The Ship PATHFINDER'S 1957 season went smoothly and work progressed satisfactorily during the entire project.

C - VESSELS AND EQUIPMENT

1956 HYDROGRAPHY Ship BOWIE

The 1956 hydrography was accomplished with launch No. 92 operating from the Ship BCWIE, in depths ranging from 0 to 37 fathoms. The launch was equipped with 808 fathometer No. 163T. Launch No. 92 worked in the South West sector of the sheet.

1957 HYDROGRAPHY PATHFINDER Launches 1, 2, and 3.

Launch No. 1 was equipped with 808 fathometer No. 74S. Launch No. 1 worked in the Southeastern area of the sheet.

Launch No. 2 was equipped with 808 fathometer No. 46. Launch No. 2 worked the central portion of the sheet from the Eastern to the Western limits.

Launch No. 3 was equipped with 808 fathometer No. 52. Launch No. 3 worked the Northernsection of the sheet.

All fathometers were calibrated for 800 fathoms per second.

The turning radius for all launches is about 20 meters.

D - TIDE AND CURRENT STATIONS

A current station was located at 59° 57' 04 Lat. 147° 16' 77 Long. and was in operation from 1100 6 May 1957 through 0805 11 May 1957. All records and depths were forwarded to Washington on 21 May 1957.

1956 TIDES

Tide reducers used for this portion of the survey were obtained from a portable tide gage installed on the East side of triangulation station Pointed Rock 1933, Latitude 59° 541.2, Longitude 147° 261.3. A continuous record was obtained from 12 July to 7 August 1956.

A range factor of -1.0 feet to high tides and no time corrections were applied to Cordova, Alaska, predicted tides for boat sheet soundings.

1957 TIDES

Tide reducers for this portion of the sheet were determined by the Washington Office. A portable tide gage was put in operation at Seward, Alaska, when sea conditions prevented reestablishment of the 1956 tide station of finding a substitute station.

E - SMOOTH SHEET

The smooth sheet was hand made by Ship PATHFINDER Personnel. The Shoreline was transferred from the blue line tracings.

F - CONTROL STATIONS

The control stations for the sheet are from triangulation established by M. Soberdski in 1933, and Curtis Le Fever in 1956, with the exceptions of COW, END, GIP, IN, JOE, KEL, LOG, PIG, ROC, ROY, SIS, TAN, TIP, TOP, WET, WIG, ZOO.

Station SAL, WAD and WHY are combination hydrographic and triangulation located stations.

Signals WIDE and JAR were located on photos then the manuscripts were matched over the photos-and the signals were thus located on the manuscripts. From the manuscripts the points were pricked through onto the boat and the smooth sheet.

A list of stations is attached to this report.

G - SHORELINE AND TOPOGRAPHY

The shoreline for the boat sheets was transferred from preliminary manuscripts, T-8470N, and T-8470S, compiled in 1943 at 1:20,000 scale, from nine lens photographs.

The smooth sheet shore line was obtained from blue line tracings of manuscripts compiled from data furnished by the BOWIE in 1956. 7-4578 (1956)

The low waterline was not defined by sounding in most areas due to the rugged coast. The shoreline in this area is generally stable.

H - SOUNDINGS

Soundings were recorded by 808 type portable depth recorders. Leadline comparisons were made while obtaining bottom samples and generally compared favorably. Bar checks were taken daily as weather and sea conditions permitted and abstracted for fathometer corrections.

Abstract of bar checks is enclosed.

I - CONTROL OF HYDROGRAPHY

HYDROGRAPHY was visually controlled throughout the survey.

J - ADEQUACY OF SURVEY

The survey is adequate and complete. All crosslines and junctions with prior surveys are adequate.

K - CROSSLINES

Approximately ten percent of the hydrography is crosslines. The crossings are adequate and no appreciable discrepancies appeared.

L - COMPARISON WITH PRIOR SURVEYS

No prior surveys of the area are available for comparison.

M - COMPARISON WITH CHARTS

Comparison with chart 8515, dated 5 February 1957 is favorable at the junctions of the survey. No soundings appear in this area.

N - DANGERS AND SHOALS

All dangers and shoals are apparent on the smooth sheet.

O - COAST PILOT INFORMATION

Coast Pilot notes for Patton Bay appear under separate cover forwarded to Washington on 28 May 1957.

P - AIDS TO NAVIGATION

There are no aids to navigation within the limits of this survey.

Q - LANDMARKS FOR CHARTS

There are no valuable landmarks in the area.

R - GEOGRAPHIC NAMES

No additions or changes are recommended for the Geographic Names.

S - SILTED AREAS

No previous surveys of the area exist for silting comparison, but it is noted that the Nellie Martin river, used in 1956 for anchoring launch No. 92, was closed in 1957 by a bar across its mouth.

U - MAGNETICS

Magnetic observations were made at stations BOX 1933, SOFT No. 2 1956, and SMELT 2 1956. Data submitted under seperate cover on 11 May 1957.

Respectfully submitted,

Bernard L. Gabrielsen

Ensign, USC&GS

Approved, Forwarded:

F. B. Quinn

Captain, USC&GS

Commanding Ship PATHFINDER

GEOGRAPHIC NAMES

BOX POINT

GULF OF ALASKA

JEANIE POINT

MONTAGUE ISLAND

NELLIE MARTIN RIVER

PATTON BAY

WOODED ISLANDS

LIST OF SIGNALS

HYDROGRAPHIC SURVEY NO. H-8312 (BO-2156)

ACE AMP AMP BAD BAD BCD BCD BCC BCC BCS BCX, 1933 CCW CCW CCW CCW CCW CCW CCW	NAME	ORIGIN
MP	ACE	1956 Triangulation
BED BIG BOB BOX, 1933 " " " CAB COO Sounding Vol. I Pages 12-13 DOC DUB, 1933 EAR EEL " " " EEL " " " EEL " " " EEL " " " EER " " " EEND Sounding Vol. 14 Page 42 FAR 1956 Triangulation FIX " " " FOG " " " " GIM GIM GOL I Pages 8-9 HAG 1956 Triangulation HAT " " " HUT " " " IN Sounding Vol. I Pages 8-9 HAG 1956 Triangulation HAT " " " HUT " " " IN Sounding Vol. I Pages 8-9 LAM 1956 Triangulation Sounding Vol. 1 Pages 7-8 LOA 1956 Triangulation Sounding Vol. 1 Pages 7-8 LOA 1956 Triangulation Sounding Vol. 1 Pages 7-8 LOA 1956 Triangulation Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG " " " " RAN " " " RAT RIG " " " RAT RIG " " " RAT RIG " " " " " RAT RIG " " " " " RAT RIG " " " " " " RAT RIG " " " " " " RAT RIG " " " " " " " RAT RIG " " " " " " " RAT RIG " " " " " " " RAT RIG " " " " " " " " " " " " " " " " " " "		n u
		11 11
BOX, 1933	BIG	11 11
CAB COO Sounding Vol. I Pages 12-13 COW Sounding Vol. I Pages 12-13 DUB, 1933 " " " " EAR	BOB	11 11
CAB COW	BOX, 1933	ii ii
Sounding Vol. I Pages 12-13		ti ti
DOC DUB, 1933 EAR EAR EEL GG Sounding Vol. 14 Fage 42 FAR FAR FIX FOG GIG GEM GIP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT ICE IN JAR, JOE KID KID KID KID KID KID KID KID	COO	
DUB, 1933 EAR EEL EEL EGG END Sounding Vol. 14 Page 42 FAR 1956 Triangulation FIX FIY FOG GIG GEM GIP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT ICE IN IN Sounding Vol. I Pages 7-8 IDA JAP JAP JAP JAP JAP JAP JAP J	COW	
EAR EEL EGG END Sounding Vol. 14 Page 42 FAR FIX FIX FIY FOC GIG GEM GIP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT ICE IN JAP JAR, JOE FAR JOE FAR JOE FAR GEM Sounding Vol. I Pages 7-8 HDA JAP JAR, JOE FAR	DOC	1956 Triangulation
EEL	DUB, 1933	
EGG END Sounding Vol. 14, Page 42 FAR 1956 Triangulation FIX FLY FOG GEM GEM GIP Sounding Vol. I Pages 8-9 HAC HAT HIGH HUT ICE IN JAP JAR, JOE KEL Sounding Vol. I Pages 7-8 IDA 1956 Triangulation HAT HOH HUT ICE IN Sounding Vol. I Pages 7-8 IDA 1956 Triangulation KEL Sounding Vol. I Pages 7-8 LOG Sounding Vol. I Pages 7-8 The conding Vol. I Pages 7-8 The conding Vol. I Pages 7-8 The conding Vol. I Pages 8-9 LAM 1956 Triangulation KEL Sounding Vol. I Pages 8-9 LAM 1956 Triangulation NOT Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation NUN NOT OAK NUN NOT OAK OX PAD PIG Sounding Vol. 14 Page 42 The conding Vol. 14 Pages 12, 13 The conding Vol. 14 Pages 12,		
Sounding Vol. 14 Page 42 FAR 1956 Triangulation FIX		
FAR FIX FIX FIX FIX FIY FOG GIG GIG GIG GIF GIF GIF GIF GIF GIF GI		
FIX FIY FIY FOG GIG GEM GIP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT HIGH HUT IN Sounding Vol. I Pages 7-8 HDA JAP JAR, JOE Photo 1957, Sounding Vol. I Pages 7,10,11 KID KID Sounding Vol. I Pages 8-9 HAG Triangulation FEL Sounding Vol. I Pages 8-9 LAM 1956 Triangulation Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG "" " " " " " " " " " " " " " " " " "		
FIX FOG CIG GEM GEM GEP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE KID Sounding Vol. I Pages 7-8 IDA 1956 Triangulation WEL Sounding Vol. I Pages 7-8 IDA 1956 Triangulation WEL Sounding Vol. I Pages 8-9 IAM Sounding Vol. 1 Pages 8-9 IAM Sounding Vol. 1 Pages 8-9 IAM 1956 Triangulation Sounding Vol. 14 Page 42 MAD NOT OAK OX PAD PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG "" " " " " " " " " " " " " " " " " "		
FOG GIG GEM GIP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE Photo 1957, Sounding Vol. I Pages 7,10,11 KID KEL Sounding Vol. I Pages 8-9 LAM 1956 Triangulation Sounding Vol. I Pages 8-9 LAM 1956 Triangulation Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation WUN NOT OAK IN		
GIE GEM GIP Sounding Vol. I Pages 8-9 HAG HAT HIGH HUT ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE RAD LAM IDA		
GEM GIP GIP Sounding Vol. I Pages 8-9 1956 Triangulation HAT HIGH HUT ICE IN Sounding Vol. I Pages 7-8 1DA 1956 Triangulation JAP JAR, JOE Photo 1957, Sounding Vol. I Pages 7,10,11 KID KEL Sounding Vol. I Pages 8-9 1956 Triangulation KEL Sounding Vol. 1 Pages 8-9 1AM 1956 Triangulation Sounding Vol. 1 Pages 8-9 1956 Triangulation WUN NOT OAK OX PAD PIG SOUNDING VOL. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG		
GIP HAG HAT HIGH HUT ICE IN Sounding Vol. I Pages 8-9 HAG HUT ICE IN Sounding Vol. I Pages 7-8 HDA JAP JAR, JOE KEL L Sounding Vol. I Pages 7-8 HOTO 1957, Sounding Vol. I Pages 7,10,11 HTD KEL Sounding Vol. I Pages 8-9 LAM LOG Sounding Vol. 1 Pages 8-9 LAM LOG Sounding Vol. 1 Pages 8-9 LAM LOG MUN NOT OAK OX PAD PIG POINTED ROCK 1933 RAG RAN RAT RIG		
HAG HAT HIGH HUT ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE KID KID KEL Sounding Vol. I Pages 8-9 LAM LOG MAD HOT IOG MAD MUN NOT OAK OX PAD PIG POINTED ROCK 1933 RAG RAN RAT RIG III III III III III III III III III		
HAT HIGH HUT ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE Photo 1957, Sounding Vol. I Pages 7,10,11 KID KEL Sounding Vol. 1 Pages 8-9 IAM IOG Sounding Vol. 1 Pages 8-9 IAM IOG Sounding Vol. 14 Page 42 IAM IOG Sounding Vol. 14 Page 42 IAM IOS IOS SOUND IOS		
HIGH HUT ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE KID HOT IN HIGH HUT IN IN Sounding Vol. I Pages 7-8 IDA IP56 Triangulation For Insulation IN KEL Sounding Vol. 1 Pages 8-9 LAM IP56 Triangulation Sounding Vol. 14 Page 42 IP56 Triangulation IN		
HUT		
ICE IN Sounding Vol. I Pages 7-8 IDA JAP JAR, JOE KID KEL LAM LOG MAD MUN NOT OAK OX PAD PIG PIG PIG RAG RAN RAT RIG RAN Sounding Vol. I Pages 12, 13 1956 Triangulation Sounding Vol. 1 Pages 12, 13 R156 Triangulation RUN ROT RAT RIG RAN RAT RIG Sounding Vol. 1 Pages 12, 13 R156 Triangulation RUN ROT RAT RIG RAN RAT RIG Sounding Vol. 1 Pages 12, 13 R156 Triangulation RIG RAN RAT RAT RIG RAN RAT RAT RIG RAN RAT		
IN IN IDA JAP JAR, JOE KID KEL LOG MAD MUN NOT OAK OX PAD PIG PAD PIG PAD PIG PAD PIG PAD PIG PAD PIG RAN RAT RIG Sounding Vol. I Pages 7-8 1956 Triangulation Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation Sounding Vol. 14 Page 42 1956 Triangulation """" """ Sounding Vol. 14 Page 42 1956 Triangulation """" Sounding Vol. 1 Pages 12, 13 1956 Triangulation """" RAG RAN """" RAT RIG """" """ """ """ """ """ ""		
IDA JAP JAR, JOE RHOTO 1957, Sounding Vol. I Pages 7,10,11 1956 Triangulation KEL Sounding Vol. 1 Pages 8-9 1AM 1956 Triangulation Sounding Vol. 1 Page 42 1956 Triangulation Sounding Vol. 14 Page 42 1956 Triangulation NUN NOT OAK OX PAD PIG PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG "" "" "" "" "" "" "" "" "" "" "" "" ""		
JAP JAR, JOE Photo 1957, Sounding Vol. I Pages 7,10,11 1956 Triangulation Sounding Vol. 1 Pages 8-9 LAM LOG MAD Sounding Vol. 14 Page 42 MAD NOT OAK OX PAD PIG PAD PIG POINTED ROCK 1933 RAG RAN RAT RIG """ RAT RIG """ Photo 1957, Sounding Vol. 1 Pages 8-9 I Pages 8-9 I Pages 42 I Page 42 I Page 42 I Page 42 I Page 42 I Pages 12		
JAR, JOE KID KEL Sounding Vol. I Pages 7,10,11 1956 Triangulation Sounding Vol. 1 Pages 8-9 1AM 1956 Triangulation Sounding Vol. 14 Page 42 MAD MUN NOT OAK OX PAD PIG PIG POINTED ROCK 1933 RAG RAN RAT RIG Photo 1957, Sounding Vol. I Pages 8-9 1956 Triangulation """ """ Sounding Vol. 14 Page 42 """ """ Sounding Vol. 1 Pages 12, 13 1956 Triangulation """ """ """ """ """ """ """		
KID KEL Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation Sounding Vol. 14 Page 42 MAD MUN NOT OAK OX PAD PIG PIG POINTED ROCK 1933 RAG RAN RAT RIG 1956 Triangulation Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAT RIG 1956 Triangulation ROCK 1956 Triangulation		
KEL Sounding Vol. 1 Pages 8-9 LAM 1956 Triangulation LOG Sounding Vol. 14 Page 42 MAD 1956 Triangulation MUN " " NOT " " OAK OX " " " PAD " " PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 1956 Triangulation RAG " " RAT " " RIG " " RIG " "		
LAM LOG Sounding Vol. 14 Page 42 MAD MUN NOT OAK OX PAD PIG POINTED ROCK 1933 RAG RAN RAT RIG	·	
HAD MAD MUN NOT OAK OX PAD PIG POINTED ROCK 1933 RAG RAN RAT RIG Sounding Vol. 14 Page 42 1956 Triangulation " " " " " Sounding Vol. 1 Pages 12, 13 1956 Triangulation " " " " " " " " "		
MAD MUN NOT OAK OX PAD PIG PIG POINTED ROCK 1933 RAG RAN RAT RIG		
MUN NOT OAK OX PAD PIG PIG POINTED ROCK 1933 RAG RAN RAT RIG		
OAK OX PAD PIG PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG		11 11
OX PAD PIG PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG """ """ """ """ """ """ """ """ """ "	·	и и
PAD PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 RAG RAN RAT RIG """ """	OAK	11 11
PIG Sounding Vol. 1 Pages 12, 13 POINTED ROCK 1933 1956 Triangulation RAG " " " RAN " " " RAT " " "	OX	11 11
POINTED ROCK 1933 RAG RAN RAT RIG	PAD	11
RAG	PIG	Sounding Vol. 1 Pages 12, 13
RAG	POINTED ROCK 1933	1956 Triangulation
RAT " " " RIG	RAG	
RIG " "		
RIG		
ROC Sounding Vol. 14 Pages 12, 13		
	ROC	Sounding Vol. 14 Pages 12, 13

ORIGIN NAME Sounding Vol. 1 Pages 7, 10, 11 ROY 1956 Triangulation SAD SAG 11 Ħ SAL 11 SHIRT 2, 1956 SIP Sounding Vol. 1 Pages 11, 12, 13 SIS SLY 1956 Triangulation SOFT 2, 1956 1933 Triangulation SQUEEZE,1933 1956 Triangulation SUE Sounding Vol. 1 Page 7 TAN TAR 1956 Triangulation Sounding Vol. 1 Pages 7, 8 TIP Sounding Vol. 1 Pages 8, 9, 10 TOP 1956 Triangulation TREE 11 WAD 11 Ħ WHO 11 11 WHY Sounding Vol. 13 Page 55, 56 Sounding Vol. 1 Page 10, 11 WET WIG Photo 1957 WIDE 1956 Triangulation MAY 11 YEN ZAG

ZOO

Sounding Vol. 1 Pages 11, 13, 14

VELOCITY CORRECTION ABSTRACT

HYDROGRAPHIC SURVEY H-8312 (BO-2156)

Launch No. 92 (Fathometer No. 163J)

A mean correction of ± 0.1 fathoms for the entire range of depths; all were on "A" phase.

Launch No. 1 (Fathometer No. 748)

From	0 - 3.4	fms	+0.3 fms	•
2	3.5 - 10.4	11	+0.4 H	
10	0.5 - 14.8	11	+0.5 "	
1/	-9 - 18.8	11	+0.6 "	
18	3.9 - 22.8	11	+0.7 "	
22	2.9 - 28.4	11	+0.8 "	
28	8.8 - end	11	+1.0 "	All work on "A" Phase

Launch No. 2 (Fathometer No. 46)

From 0.0 - 11.6	ſms	+0.3 fms	
11.7 - 15.8	11	+0.4 "	
15.9 - 20.1	- 11	+0.5 "	
20.2 - 24.4	11	+0.6 "	
24.5 - 28.6	11	+0.7 "	
28.7 - 32.9	11	+0.8 "	
33 . 0 - 37.8	11	+0.9 "	
37.9 - 43.9	11	+1.0 "	
44.0 - end	11	+1.1 "	All work on "A" Phase

Launch No. 3 (Fathometer No. 52)

From 0.0 to Max. Sound fms +0.2 fms All work on "A" Phase

For additional information on fathometer corrections see "Special Report on Depth Recorder Corrections."

TIDAL NOTE

FOR

HYDROGRAPHIC SURVEY NO. H-8312

During the 1956 survey by the Ship BOWIE the tide gage and staff were located at the West side of PATTON BAY, near triangulation station POINTED ROCK 1933, Latitude 59° 54.'2 Longitude 147° 26'.3. This gage was in operation during the period 12 July 1956 through 7 August 1956 and all the data from it was sent to the Washington Office.

During the 1957 survey by the Ship PATHFINDER no adequately protected location for a tide gage was found. The POINTED ROCK, 1933 site had given the Ship BOWIE trouble, the 1956 tide gage being destroyed by a storm. Therefore, a portable tide gage was installed in Seward during the survey to operate while the standard gage there was inoperative, this data being submitted by the regular tide observer in Seward.

The tide reducers for the smooth sheet were furnished by the Washington Office.

STATISTICS
HYDROGRAPHIC SURVEY H-8312 (BO-2156)

Volume Number	Day <u>Letter</u>	Date		Number of Positions	Statute Mile Sounding	
Launch No	o <u>• 92</u>	This la	unche	s work record	led in green in volume	' ડ
, 1	a (red)	26 July	1956	29		
, 1	ъ	27 "	n	146	33•5	
2	b	27 "	n	23	6.3	
2	C	28 "	11	128	26.2	
3	d	29 II	10	138	29.0	
3	e	30 "	11	4 0	9.6	
4	e	30 "	Ħ	82	21.2	
4	f	31 "	11	66	15.6	
Total	8			652	141.4	
Launch No	0. 1					
5	a (blue)	29 April	1957	121	29.2	
5	ъ	30 "	n	90	30.4	
6	c	l May	tt	156	42.1	
6	d	6 n	H	53	11.7	
6	•	7 "	11	48	12.8	
7	•	7 "	11	98	24.2	
7	f	8 "	Ħ	173	30.2	
8	g	9 "	11	138	28.8	
8	h	10 "	11	114	18.2	
Total	s			991	227.4	

Volume Number	Day <u>Letter</u>	Date		Number of Positions	Statute Mile Sounding
Launch No	. 2				
9	a (purpl	e) 30 April	1957	148	31.2
9	b	1 May 19	57	91	26.9
10	c	6 п п		79	12.9
10	đ	7 " "		182	56.3
10	е	.8 II II		22	7.8
11	e	8 " "		161	35.2
11	f	9 " "		89	24.2
11	g	10 " "		20	6.2
12	g	10 " "		160	35.6
Totals			•	952	236.3
Launch No.	. 3				
13	a (green) 27 April	1957	66	29.0
13	Ъ	30 "	11	90	26.9
14	ъ	30 "	II	28	9.1
14	c	l May 19	957	115	28.5
14	d	6 n	II	55	19.9
14	e	7 u	11	44	12.8
15	е	7 "	u	101	24.7
15	f	.8 u	II	155	39.0
15	g	9 n	11	8	1.8
16	g	9 "	11	133	31.8
16	h	10 "	11	100	15.8
Totals			-	895	239.3

Total Area 63 square miles

APPROVAL SHEET

HYDROGRAPHIC SURVEY H-8312 (BO-2156)

The 1957 portion of this survey was done under my close daily supervision. Junction with, and crosslines over, the 1956 work show very satisfactory agreement. I consider the survey complete and adequate for charting. No additional work is recommended within the area of this survey.

F. B. Quinn

Captain, USC&GS

Commanding Ship PATHFINDER

· Luin

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. . 8312...

Records accompanying survey:

Post sheets .3; sounding vols16; wir	e drag vols;
bomb vols; graphic recorder rolls 4-	Inve lopes
special reports, etc. 1-Smooth sheet, 1-Desc	criptive report,
and 1-Carton (Topo. Control Station Identification 9-Recovery Note, Triangulation Station	ication.)
The following statistics will be submitted with rapher's report on the sheet:	the cartog-
Number of positions on sheet	3490
Number of positions checked	20.9
Number of positions revised	••••
Number of soundings revised (refers to depth only)	21.
Number of soundings erroneously spaced	3+10

or transferred 8 hr. 4 Topographic details Time 32 hr 58 Junctions & curves Time

Number of signals erroneously plotted

Verification of soundings from 128 4 graphic record Time

Verification by ... John P. Wein Total time 168 Ar. Date Jun. 6.1961

Reviewed by Date 16 May 1961

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

5 May 1958

Plane of reference approved in 16 volumes of sounding records for

HYDROGRAPHIC SHEET 8312

Locality Patton Bay, Alaska

Chief of Party: C. LeFever & F. B. Quinn in 1956-1957

Plane of reference is mean lower low water reading

5.6 ft. on tide staff at Patton Bay

9.2 ft. below B.M. 3 (1956)

Height of mean high water above plane of reference is 9.3 feet.

Condition of records satisfactory except as noted below:

Chief, Tides Branch

OFFICE OF CARTOGRAPHY

REVIEW SECTION-NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8312

FIELD NO. BO-2156

Alaska, Montague Island, Patton Bay

SURVEYED: July 1956 - May 1957

SCALE: 1:20,000

PROJECT NO. 12770

SOUNDINGS: 808 Portable Depth Recorder

CONTROL: Sextant fixes

on shore signals

Chief of PartyCu	rti	s LeFever, F. B. Quinn
Surveyed byH.	R.	Lippold; G. L. Short;
L.	S.	Baker; H. H. Druebert
Protracted byG.	L_{\bullet}	Short; V. B. Miller
Soundings plotted byR.	D.	Frost
Verified and inked byJ.	P.	Weir
Reviewed byL.	S.	Straw DATE: 5-11-61
Inspected byR.	Η.	Carstens

1. Description of the area

Patton Bay is located on the southeast coast of Montague Island between Box Point and Wooded Islands. The shoreline is rugged and stable except for occasional land slides from the cliffs. However, a sand beach strewen with boulders extends for about two miles in the vicinity of the Nellie Martin River.

Of unusual interest for this area are the numerous coral bottom characteristics recoreded by several hydrographers on this survey.

2. Control and shoreline

The source of the control is given in the Descriptive Report.

The shoreline and associated detail originate with unreviewed photogrammetric survey T-11578 (1943-56) supplemented by T-4835 (1933) in the vicinity of Box Point.

3. Hydrography

The hydrographic features as depicted by the depth curves were adequately developed. The depths at sounding line crossings are in reasonable agreement. The bottom of Patton Bay is regular from depths of 50 fathoms to 5 fathoms; but reefs and isolated rocks extend from the main shoreline and islands seaward as far as a half mile.

The hydrography in the Kelp area nead the small islands and reefs east of Box Point is supplemented by soundings from H-5460 (1933).

4. Condition of survey

The field plotting, records and reports are adequate and conform to the requirements of the Hydrographic Manual.

5. Junctions.

In accordance with the Project Instructions, satisfactory junctions with H-4730 (1927-28) on the south, H-5454 (1933) on the southeast and H-5460 (1933) on the east and north, were made with the present survey.

Six lines of soundings running generally along lat. 59°55' from long. 147°17' to long. 147°25' on H-5460 (1933) have not been transferred to the present work because their addition would not contribute materially to the development in this vicinity on the present survey. They have been indicated as "superseded" on H-5460 (1933). However, as indicated in paragraph 3 above, several sounding lines and scattered soundings have been transferred to the present survey in the area east of Box Point where they furnish additional information for charting purposes.

6. Comparison with prior surveys

There are no prior hydrographic surveys by this Bureau in Patton Bay.

H-8312 - 3

7. Comparison with chart 8515 (Latest print date 2-13-61)

Hydrography À.

The chart is based on the present survey applied before verification and review, and the adjoining surveys H-4730 (1928). H-5454 (1933) and H-5460 (1933).

Minor corrections to a few soundings and some rock detail were made to the present survey (H-8312) during verification and review. The chart should be revised accordingly.

The present survey with the additional indicated information from T-4835 (1933) and H-5460 (1933) is adequate for charting purposes.

Aids to navigation В

There are no aids to navigation within the limits of the present survey.

8. Compliance with instructions.

The survey adequately complies with the project instructions.

9. Additional Field Work

This survey is considered basic and no additional field work is required.

Examined and Approved:

Nautical Chart Division

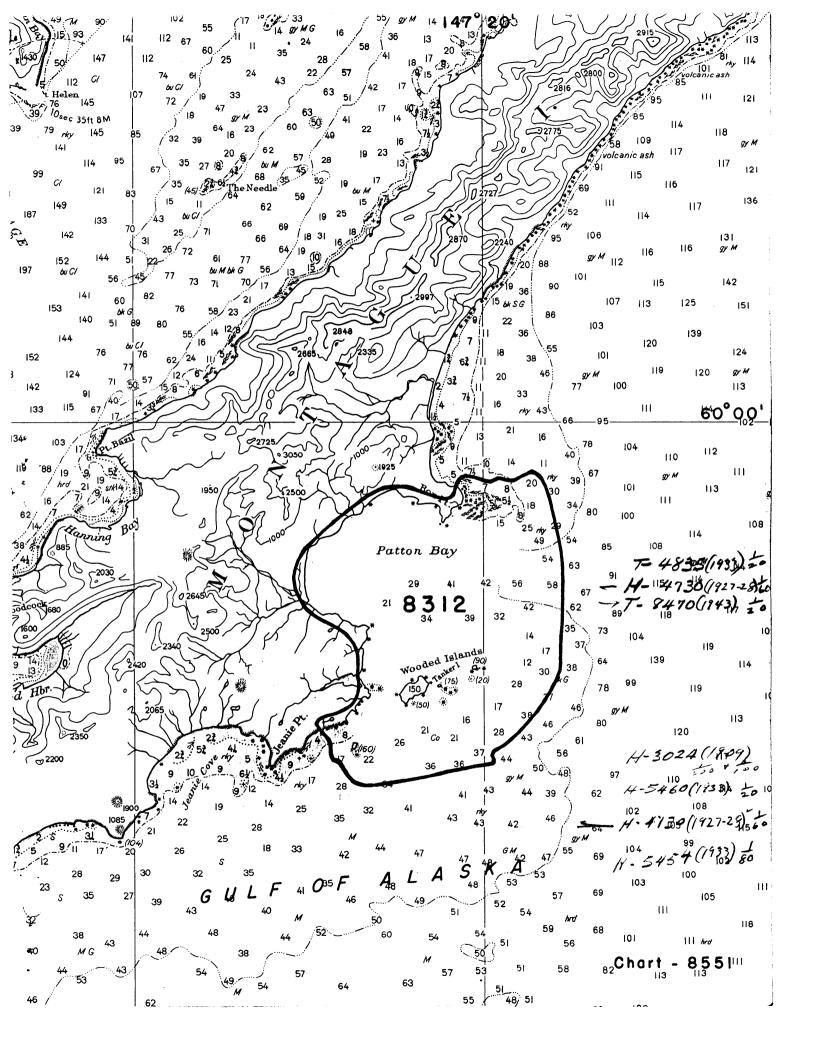
Projects Officer.

Operations Division

Assistant Director, Office of Cartography

Assistant Director, Office of Oceanography

	GEOGRAPHIC NAMES Survey No. H-8312			Nº SUL	et nighter		1,205	, ed	Mag Malia	kilos kirlis	; / ·
		00	Chor. Or	Ac Or	D. Mag.	or locality	St. Oct Mode	Canded	Mag McHally	J.S. Jahr J.	//
Ī	Name on Survey	<u> </u>	/ B	/ c	/ D	E	F	<u> </u>	<u>/ H</u>	/ K	
	(Alaska +				(for	title)					1
	Prince Williams Sound				11					BGN	2
	Fatton Bay				11					i:	3
	Gulf of Alaska										4
	Jeanie Point									BGN	5
	Wooded Islands		ļ								6
	Nellie Martin River						·				7
	Montague TslaInd									BGN	8
:	Rox Point									. tt	9
				Name	s appr	oved .	_10 <u>-</u> 5:				10
J.						L	He	ci C			11
	Tide station off sheet	:									12
	Cordova							,	<u>.</u>		13
											14
											15
									ĺ		16
											17
											18
											19
,				٠.							20
											21
											.22
											23
											24
											25
· ·											26
ь											27
	•	1	1	1	1 .		L	l	1	1	



NAUTICAL CHARTS BRANCH

survey no. #83/2

Record of Application to Charts

	DATE	CHART	CARTOGRAPHER	REMARKS
	3/26/18	Chart	let for 8515	Before After Verification and Review
	5/12/58	8502	m. Rogers	Before Verification and Review Partially
	0 / / 5			8 soundings added and & sounds removed
				Before After Verification and Review
				Partial
	7/6/59	8551	DK	Before Aster Verification and Review
	- 0	0	1.00	<i>-</i>
19	Oct 59	8500	hichols	Before After Verification and Review Exam - na Calls
•	14/1/59	سسر و سو دی	Helmer	Before Werification and Review applied thru chartlet
	1//59	8515	GANNET	Delote Allow Verification and Review of the
	7-27-6/	8551	Ea MI Brogerie	After Verification and Review Folky Office
•			07	with the year 180 d scale lat 8515.
	7-27-61	8502	Earl M Brogon;	After Verification and Review Fully 9136
			01	Perised 4 Sudge.
	8-24-6	8515	G.R. Johnson	Before After Verification and Review Fully Applied
				Before After Verification and Review

	· ·			
•				
		-		
			L	M-2168-1

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