7762

Diag. Cht. No. 8551-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Hydrographic

Field No. DER-1149 Office No. H-7762

LOCALITY

State: Alaska

General locality: Prince William Sound

Locality: Naked Island Group

1949

CHIEF OF PARTY

Glendon E. Boothe, Comdr. USC&GS

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Registered May 19, 1952

Form 537
(Ed. June 1946)

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 7762

Field No. De 1149

State Alaska

General locality Prince William Sound

Locality Naked Island Group - Eastern half.

Scale 1/10 000 Date of survey 11 July to 16 September, 1949

Instructions dated 9 February 1942

Vessel DERICKSON

Chief of party Glendon E. Boothe

Surveyed by John C. Tribble

Soundings taken by [redacted]r, graphic recorder, [redacted] Nos. 56, 66 & 128

Fathograms scaled by JMH AP

Fathograms checked by CAS JCT OHQ HFG

Protracted by C.R.Lehman

Soundings penciled by C.R.Lehman

Soundings in fathoms [redacted] at [redacted] MLLW

REMARKS:

[redacted]

ZWW 3/7/94

U. S. GOVERNMENT PRINTING OFFICE 693019

3852

Descriptive Report to Accompany Hydrographic Survey H-7762
(Field No. DER-1149)

Prince William Sound, Alaska; Naked Island Group
Scale: 1:10,000

USC&GSS DERICKSON
Glendon E. Boothe, Chief of Party

1949

A. Project:-

CS-277, Instructions dated:
Original - 9 Feb. 1942
Supplemental - 5 Jan. 1943
6 Mar. 1947
5 Feb. 1948
13 Apr. 1949
28 June 1949 (ph-39(48)

B. Survey Limits and Dates: -

This survey covers the inshore area of the Naked Island Group between Longitude 147°-17' and 147°-27', and between Latitude 60°-35'.5 and 60°-44.6. This survey makes a junction with Survey No. H-7765 (Field No. DER-2449).

Field work was begun on the 11 July 1949 and ended 16 September 1949.

Prior surveys in this area are as follows:

Hydrographic Survey, Register No. 3315, Scale 1:20,000, Date - 1911
" " " " 3321, " " " - 1911
Topographic Survey, Register No. 3230 " " " - 1911
" " " " 3231 " " " - 1911

C. Vessel and Equipment: -

The major part of the sounding on this survey was done with Launch No. 93, but two days work was done with the motor whaleboat on the south side of Parrot Island (a small island on the south side of the Naked Island Group). Both boats operated from the ship.

Two 808 fathometers No. 56 & 128 were used on Launch No.93. 808 fathometers No. 66 & 128 were used on the motor whaleboat.

D. Tide and Current Stations:

A portable automatic tide gage was operated in McPherson Passage, Naked Island Group during the entire period of this survey. No time or range corrections were applied for reducing soundings. No current stations were occupied.

E. Smooth Sheet:

The smooth sheet projection was made in the Washington Office by ruling machine.

F. Control Stations:-

Triangulation is on the Boatshut Valdez Datum. The scheme was carried westward from Valdez across the north side of Prince William Sound, then south thru Perry Passage by H. Arnold Karo, Chief of Party, during 1947 & 1948. The scheme was carried from Perry Passage, eastward to the Naked Island Group by Glendon E. Boothe, Chief of Party in 1949.

Topographic stations were located by planetable on three surveys executed during the 1949 season, numbered as follows:

Register No. T-7081, Field No. "E" & "F" 1949.
Register No. T-7082, Field No. "G" & "H" 1949.
Register No. T-7114, Field No. "J" 1949.

} To be destroyed

G. Shoreline and Topography: -

See descriptive reports for topographic surveys listed in paragraph "F".

The low-water line is well defined except in a few places where the shore was too rough to get in close enough with the sounding launch.

H. Soundings:-

Depths were measured by 808 fathometers, in fathoms except on some of the lines run in shoal water. The depths were read during the day by the fathometer operator and entered in the sounding volume. The fathograms were checked at the end of each day's work.

A separate report on fathometer corrections for Project CS-277 was submitted to the Washington Office on 25 November 1949. Filed with H-7161

I. Control of Hydrography:-

All sounding lines were controlled by three point fixes on signals located by triangulation and topography.

J. Adequacy of Survey:-

The area covered by this survey is complete except for some splits in McPherson Passage in the vicinity of Longitude 147°-26'. It is considered to be adequate to supersede all prior surveys for charting.

Junctions and depth curves are in good agreement with the only adjoining survey H-7765, scale 1:20,000.

K. Crosslines:-

The percentage of crosslines run on this survey is about eight per cent. No unusual discrepancies were found. The entire area of the Naked Island Group is of vertical rock strata formation which accounts for the extremely irregular bottom.

L. Comparison with Prior Surveys:-

Registry numbers of prior surveys in this area are listed under paragraph "B", page one of this report.

In comparison with prior surveys, less water was found on almost all of the shoals and many new shoals were found. This is largely a result of the use of modern survey equipment.

North of Storey Island: Lat. 60°-44'.4, Long. 147°-26'.2, (Valdez datum) prior Survey No. H-3315, 1911 shows two soundings of 51 and 57 feet. The 1949 survey did not indicate any such shoaling in this vicinity. It is believed that the soundings recorded in 1911 are in error by 100 feet and in view of the closely spaced sounding lines of 1949 it is recommended that these two soundings be expunged from the chart.

South of Naked Island: Lat. 60°-36'.8, Long. 147°-24'.2 the charted 13 fathom sounding should be changed to 9.7 fathoms.

Northeast of Peak Island: Lat. 60°-42'.9, Long. 147°-21'.8 an extensive shoal with a least depth of 5 fathoms was found in 1949. The 1911 survey shows a sounding of 60 feet in thisvicinity and the chart shows a sounding of 10 fathoms in about the same place.

In McPherson Passage: Lat. 60°-40'.6, Long. 147°-23'.1, a shoal was found in 1949 with a least depth of 5.0 fathoms in an area showing 12 to 14 fathoms in the 1911 survey.

East of Naked Island: Lat. 60°-39'.5, Long. 147°-17'.8; a shoal was found in 1949 with a least depth of 9.8 fathoms. This shoal sounding is very close to the 20 fathom curve as shown in the 1911 survey. The 10 fathom curve should extend much further off the point here than was shown in the prior survey.

Southeast of Naked Island: Lat. 60°-37'.6, Long. 147°-19'.8; a shoal with a least depth of 10 fathoms was found in 1949. This shoal falls on the 20 fathom curve as drawn on Survey H-3315, 1911. The 10 fathom curve should extend much farther off shore at this point, than previously shown.

M. Comparison with Chart:

Comparison with Chart No. 8517(48-6/4) shows general agreement except that the 1949 survey is much more detailed and shoaler depths were obtained than are charted.

N. Dangers and Shoals: -

North of Storey Island: Lat. 60°-44'.4, Long. 147°-27'.0; (Pos. No. 246, KK Day) a shoal was found with a least depth of 3.6 fathoms in 1949. This shoal is far enough offshore to be considered a danger. It was not located in the 1911 survey and is not on the chart.

In Liljegren Passage: Lat. 60°-42'.7, Long. 147°-24'.6, a sounding of 2 fathoms was obtained which marks the easterly tip of a large shoal. It is about 160 meters east - southeast of a charted rock which bares at extreme low tide. This shoal is a danger to small boat navigation.

In Liljegren Passage: Lat. 60°-42'.6, Long. 147°-25'.2, a sounding of 2 fathoms was obtained near the center of an extensive shoal. This shoal is in the center of the narrowest part of Liljegren Passage and is considered to be a danger.

All charted dangers, shoals, and bare rocks were found as charted, except for those listed in paragraphs L, M & N.

O. Coast Pilot Information:

Coast Pilot information for this area was mailed to the Washington Office on 9 November 1949.

E.E.S.

P. Aids to Navigation:

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

Q. Landmarks for Charts:

There are no land marks for charts within the limits of this survey.

R. Geographic Names: 1954

The geographic names for the area of this sheet are covered in the descriptive reports of Topographic Surveys: T-7081, T-7082 & T-7114 made in 1949.

U. Miscellaneous:

Three signals were used on this survey (Yip, Dot & Fan) that are off the limits of the boat sheet, but they can be plotted on the smooth sheet.

Two signal names were repeated on this sheet (Bum and Him). They came from different topographic surveys and are in different areas so there should be no confusion in their use.

Respectfully submitted,

Charles A. Schoene

Charles A. Schoene
Lt. Comdr.(USC&GS)

LIST OF SIGNALS
Used on Survey H-7762

TRIANGULATION STATIONS

Named used on Sheet			Origin	
005	ABNER	A	ABNER	1949
035	AGNES		AGNES	1949
004	BALMY	B	BALMY	1949
033	BINGO		BINGO	1949
101	CADET	C	CADET	1949
161	COCOS		COCOS	1949
103	DAISY	D	DAISY	1949
138	DIVER		DIVER	1949
213	EDGAR	E	EDGAR	1949
291	EXCEL		EXCEL	1949
205	FANNY	F	FANNY	1949
233	FIGHT		FIGHT	1949
346	GLORY	G	GLORY	1949
306	HAPPY	H	HAPPY	1949
310	IDAHO	I	IDAHO	1949
334	IGLOO		IGLOO	1949
407	JASON	J	JASON	1949
434	LILY		LILY	1947
468	LOTUS	L	LOTUS	1949
485	LUMPY		LUMPY	1947
504	NAKED	N	NAKED 2	1949
688	OTTER	O	OTTER	1949
620	PEARL	P	PEARL	1949
682	QUEST	Q	QUEST	1949
703	SAGE	S	SAGE	1947
786	STOREY		STOREY	1947

TOPOGRAPHIC STAIONS

Name	Origin	Name	Origin	Name	Origin
011 ADD	T-7114	016 ADO	T-7114	000 AIM	T-7114
046 ALP	T-7081	058 ANT	T-7081	075 ARM	T-7082
074 ASK	T-7082	092 AXE	T-7081	096 AZO	T-7081
007 BAR	T-7114	008 BAT	T-7081	001 BIN	T-7081
060 BOA	T-7081	069 BOX	T-7114	085 [illegible]	T-7081
002 [illegible]	T-7114	003 BUN	T-7081	087 BUS	T-7114
088 BUT	T-7082	089 BUX	T-7082	105 CAN	T-7082
108 CAT	T-7114	017 CHUM	T-7114	165 CON	T-7114
166 COO	T-7081	176 CRO	T-7081	179 CRY	T-7082
182 CUE	T-7114	188 CUT	T-7082	006 DAD	T-7082
009 DAN	T-7081	107 DARE	T-7082	120 DEB	T-7114
133 DIG	T-7082	135 DIM	T-7114	010 DIT	T-7081
139 DIX	T-7114	161 DOC	T-7114	167 DOR	T-7081
168 DOT	T-7082	181 DUD	T-7114	200 EBB	T-7114
012 EGG	T-7114	205 EON	T-7081	270 ERA	T-7114
273 ERG	T-7114	278 EST	T-7082	280 EVA	T-7114
282 EVE	T-7082	292 EYE	T-7081	013 FAN	T-7081
209 FAY	T-7081	222 FEE	T-7081	221 FED	T-7114
235 FIN	T-7114	237 FIR	T-7081	014 FISH	T-7082
260 FOB	T-7081	263 FOG	T-7114	267 FOR	T-7114
269 FOX	T-7082	285 FUN	T-7114	303 GAG	T-7114
308 GAT	T-7082	325 GEM	T-7114	326 GEO	T-7081
328 GET	T-7114	335 GIN	T-7082	015 GLO	T-7081
360 GOB	T-7114	368 GOT	T-7114	384 GUL	T-7081
385 GUM	T-7082	329 HEW	T-7081	331 HID	T-7114
018 [illegible]	T-7081	019 [illegible]	T-7082	336 HIP	T-7081
362 HOE	T-7114	363 HOG	T-7081	366 HOP	T-7082
020 HOT	T-7081				

B.C. sheets to be destroyed.

TOPOGRAPHIC STATIONS

	Name	Origin		Name	Origin		Name	Origin
369	HOW	T-7114	508	NAT	T-7114	782	SUE	T-7081
383	HUG	T-7114	521	NED	T-7081	801	TAD	T-7081
388	HUT	T-7114	524	NEL	T-7114	803	TAG	T-7082
344	ILK	T-7082	534	NIK	T-7081	807	TAR	T-7114
021	ILL	T-7114	536	NIP	T-7114	808	TAT	T-7081
354	INK	T-7114	539	NIX	T-7082	809	TAX	T-7114
355	INN	T-7082	567	NOR	T-7082	829	TEX	T-7082
356	IMP	T-7114	569	NOW	T-7114	831	TIDE	T-7114
372	IRE	T-7081	584	NUL	T-7081	862	TOE	T-7081
401	JACK	T-7081	607	OAR	T-7082	873	TRI	T-7081
406	JAP	T-7114	608	OAT	T-7081	856	UNO	T-7081
409	JAW	T-7114	622	OFF	T-7114	875	URN	T-7081
430	JIB	T-7082	641	OLD	T-7114	882	UTE	T-7082
433	JIG	T-7081	029	OUT	T-7114	804	VAL	T-7082
435	JIM	T-7114	694	OWL	T-7114	834	VIL	T-7082
483	JUG	T-7082	605	PAM	T-7081	839	VIX	T-7114
488	JUT	T-7082	030	PAT	T-7081	905	WAN	T-7081
022	KAY	T-7114	623	PEG	T-7082	907	WAS	T-7114
420	KEA	T-7081	626	PEP	T-7114	909	WAX	T-7082
423	KEG	T-7114	635	PIN	T-7114	922	WEE	T-7082
426	KEP	T-7081	638	PIT	T-7082	933	WIG	T-7114
023	KIM	T-7082	649	PLY	T-7114	935	WIN	T-7114
437	KIS	T-7081	664	POL	T-7081	966	WOO	T-7081
438	KIT	T-7082	683	PUG	T-7114	904	YAK	T-7114
466	KOP	T-7081	686	PUP	T-7081	034	YAM	T-7114
403	LAG	T-7081	705	RAM	T-7114	036	YAY	T-7114
024	LAY	T-7081	708	RAT	T-7082	924	YEL	T-7082
025	LEG	T-7114	721	RED	T-7082	931	YID	T-7081
427	LES	T-7081	733	RIG	T-7081	936	YIP	T-7081
026	LIB	T-7081	736	RIO	T-7114	964	YOK	T-7081
027	LIT	T-7081	768	ROT	T-7081	969	YOW	T-7081
466	LOP	T-7082	785	RUM	T-7114	920	ZEB	T-7114
469	LOW	T-7114	031	SAG	T-7114	921	ZED	T-7082
028	LUG	T-7082	728	SET	T-7081	037	ZIP	T-7114
507	MAR	T-7114	732	SHE	T-7081			
529	MEX	T-7081	032	SIP	T-7082			
566	MOP	T-7114	737	SIS	T-7082			
581	MUD	T-7114	743	SKI	T-7081			
583	MUG	T-7114	749	SKY	T-7114			
585	MUM	T-7082	769	SOX	T-7082			
588	MUT	T-7081	780	SUB	T-7114			

SHEET H-7762

COMBINED FATHOMETER CORRECTIONS FOR DRAFT, PHASE, AND VELOCITY
LAUNCH NO. 93 FATHOMETER NO. 56S

10 July to 20 August 1949

Table #1

From "A" SCALE	To "A" SCALE	Corr.
0.0	1.5	+ 0.1
1.6	3.6	0.0
3.7	5.8	- 0.1
5.9	8.0	- 0.2
8.1	10.2	- 0.3
10.3	12.5	- 0.4
12.6	17.5	- 0.5
17.6	22.0	- 0.6
22.1	26.0	- 0.7
26.1	30.0	- 0.8
30.1	33.5	- 0.9
33.6	37.3	- 1.0
37.4	41.0	- 1.1
41.1	44.8	- 1.2
44.9	48.5	- 1.3
48.6	52.5	- 1.4
52.6	56.5	- 1.5

Table #2

"B" SCALE		
33.6	37.3	+ 1.0
37.4	41.0	+ 0.9
41.1	44.8	+ 0.8
44.9	48.5	+ 0.7
48.6	52.5	+ 0.6
52.6	56.5	+ 0.5
56.6	60.5	+ 0.4
60.6	64.5	+ 0.3
64.6	68.3	+ 0.2
68.4	72.0	+ 0.1
72.1	76.0	0.0
76.1	80.0	- 0.1
80.1	84.3	- 0.2
84.4	88.5	- 0.3

23 August to 30 September 1949

Table #3

From "A" SCALE	To "A" SCALE	Corr.
0.0	1.5	+ 0.1
1.6	3.6	0.0
3.7	5.8	- 0.1
5.9	8.0	- 0.2
8.1	10.2	- 0.3
10.3	14.5	- 0.4
14.6	20.4	- 0.5
20.5	26.0	- 0.6
26.1	31.0	- 0.7
31.1	35.5	- 0.8
35.6	40.0	- 0.9
40.1	44.0	- 1.0
44.1	48.0	- 1.1
48.1	52.0	- 1.2
52.1	56.2	- 1.3

Table #4

31.1	35.5	+ 1.2
35.6	40.0	+ 1.1
40.1	44.0	+ 1.0
44.1	48.0	+ 0.9
48.1	52.0	+ 0.8
52.1	56.2	+ 0.7
56.3	60.4	+ 0.6
60.5	64.5	+ 0.5
64.6	68.7	+ 0.4
68.8	72.8	+ 0.3
72.9	76.8	+ 0.2
76.9	81.0	+ 0.1

10 July to 30 September 1949

Table #5

FEET		
0.0	12.0	0.0
12.5	23.5	- 0.5
24.0	36.0	- 1.0
36.5	50.0	- 1.5

Note: The Corrections from 0 to 10 Fathoms were obtained directly from the B ar Check Correction Curves. The Corrections for depths over 10 fathoms were taken from the "Velocity Corrections for all 808 Fathometers", by applying a correction of 0.3 fathom to each value to compensate for the draft setting. The "B" Scale Corrections were obtained by applying a difference of 2.0 fathoms between the "A" and "B" Scales.

SHEET H-7762

COMBINED FATHOMETER CORRECTIONS FOR DRAFT, PHASE, AND VELOCITY
LAUNCH NO. 93

Fathometer No. 128S
10 July to 20 August

From	To	Corr.
"A" SCALE		
0.0	6.5	+ 0.1
6.6	12.5	0.0
12.6	17.5	- 0.1
17.6	22.0	- 0.2
22.1	26.0	- 0.3
26.1	30.0	- 0.4
30.1	33.5	- 0.5
33.6	37.3	- 0.6
37.4	41.0	- 0.7
41.1	44.8	- 0.8
44.9	48.5	- 0.9
48.6	52.5	- 1.0
52.6	56.5	- 1.1
"B" SCALE		
33.6	37.3	- 1.1
37.4	41.0	- 1.2
41.1	44.8	- 1.3
44.9	48.5	- 1.4
48.6	52.5	- 1.5
52.6	56.5	- 1.6
56.6	60.5	- 1.7
60.6	64.5	- 1.8
64.6	68.3	- 1.9
68.4	72.2	- 2.0
72.3	76.1	- 2.1
76.2	80.2	- 2.2
FEET		
0.0	15.0	+ 0.5
15.5	45.0	0.0
45.5	55.0	- 0.5

Table #6

Table #7

Table #8

Fathometer No. 128S
23 August to 30 September

From	To	Corr.
"A" SCALE		
0.0	6.5	+ 0.1
6.6	14.5	0.0
14.6	20.8	- 0.1
20.9	26.0	- 0.2
26.1	31.0	- 0.3
31.1	35.5	- 0.4
35.6	39.8	- 0.5
39.9	44.0	- 0.6
44.1	47.9	- 0.7
48.0	52.0	- 0.8
52.1	56.0	- 0.9
"B" SCALE		
31.0	35.5	- 0.9
35.6	39.8	- 1.0
39.9	44.0	- 1.1
44.1	47.9	- 1.2
48.0	52.0	- 1.3
52.1	56.2	- 1.4
56.3	60.4	- 1.5
60.5	64.5	- 1.6
64.6	68.7	- 1.7
68.8	72.8	- 1.8
72.9	76.9	- 1.9
77.0	81.0	- 2.0
FEET		
0.0	15.0	+ 0.5
15.5	45.0	0.0
45.5	55.0	- 0.5

Table #9

Table #10

Table #11

Note: The corrections from 0 to 10 fathoms were obtained directly from the Bar Check Correction Curves. The corrections for all depths greater than 10 fathoms were taken directly from the "Velocity Corrections For All 808 Fathometers", by applying a correction of 0.1 fathom to each value to compensate for the draft setting. The "B" Scale Corrections were obtained by applying a difference of 0.5 fathom between the "A" and "B" scales.

Abstract of Velocity Corrections

For Motor Whaleboat, Ship DERICKSON

for 808 Fathometers Nos. 56, 66, 128

for Sheets DE-4148-49-A, 1149, 1249, 2349, 2449
(No index or draft correction required)

Period 2 - 23 August - 30 September 1949

"A" SCALE

Table # 12

Depths Fathoms	Correction Fathoms
0.0 - 6.0	0.0
6.1 - 15.0	-0.1
15.1 - 21.5	-0.2
21.6 - 27.0	-0.3
27.1 - 31.5	-0.4
31.6 - 40.0	-0.6
40.1 - 48.5	-0.8
48.6 - 55.0	-1.0

APPROVAL SHEET TO ACCOMPANY
Descriptive Report for Hydrographic Sheet DER-1149.
Register No. H-7762.
1949

The boat sheet,DER-1149, the accompanying sounding volumes, and fathograms have been examined, and approved by me.

The launch and motorwhaleboat hydrography boat sheets were examined at the close of each day's work.

The area covered by this survey is complete, except for a few splits as mentioned under "J" of the report. The survey is considered adequate to supersede all previous surveys for charting, and no further hydrography is recommended for the completed area covered by this sheet. Additional work at the southern end of Naked Island should be done on this sheet in order to make a junction with the sheet to the west - DER-1249.

A limited number of bottom characteristics were taken as this area was well covered by the previous surveys, and it was found that except for rocky shoals the bottom is a soft deposit of blue clay, probably a glacial deposit, and washed down from the glaciers.

Glendon E. Boothe

Glendon E. Boothe,
Comdr., USC&GS,
Comdg. USC&GSS SURVEYOR.

H 7762
De 1149

Prince William Sound
Naked Island Group.

Processing Office Notes.

Smooth sheet.

This sheet was at the bottom of the list of priorities. It is a congested sheet and has taken a considerable time to plot.

The projection was ruled on the machine in Washington. The topographic signals and short stretches of shoreline were taken from graphic control plates T 7081, T 7082 and T 7114. The shoreline is to come from phg. sheets T 8608 when available. The boatsheet is on Valdez datum but the datum of the smooth sheet is NA 27.

Shoals & Dangers.

Rocks and shoals have been emphasized and pointed out with arrows so that it is needless to enumerated all of them. However, attention is called to the following which include the principal dangers.

φ	λ		
60 44.54	147 26.5	3.6 fms.	
43.08	21.25	4.6	
42.97	24.32		Rock awash, and surrounding shoal.
42.84	24.8	2.7	
41.94	21.04	1.4	
41.38	23.66	3.9	
41.18	23.98		Rock awash.
41.95	25.2	1.5	2.3 nearby.
41.42	25.33	3.5	
37.83	20.15		Ledge awash MHW
37.97	19.75	6.1	
36.6	23.36	5.5	

There are other shoals which could be a hazard to a deeply laden vessel under certain conditions of the weather.

Edgar E. Smith

Edgar E. Smith
Cart. Engr.
Seattle Proc. Off.

4/20/52

TIDE NOTE
(to accompany survey No. H-7762)

A portable automatic tide gage was maintained in McPherson Passage, Naked Island Group during the entire period of this survey. (Report of station mailed 16 July 1949).
Location of tide gage: Lat. 60°-40'.55, Long. 147°-24'.33. Valdez datum
60°-40'.72 147°-23'.86 NA 27

All soundings on this survey were reduced without correction for time or height, from hourly heights scaled directly from the marigrams of the above gage.

The plane of reference (MLLW) corresponds to a reading of 1.7 feet on the tide staff (see act. Directors letter dated 20 September 1949, Ref. No. 36-rcb).

The tide reducer for each hour during the periods of hydrography was plotted on "Graph for Tide Reducers" and a tabulated list of reducers made for each days work by the field party.

Marigrams of this station were mailed to the Washington Office on 2 Sept. and 19 Nov. 1949.

High and Low Waters, Hourly Heights, Reducer Curves and Tabulation of Reducers as scaled and compiled by the field party will be submitted via the Seattle Processing Office along with other records on hand that pertain to this survey.

The above tide note applies to all hydrography executed on Project CS-277 during the 1949 season, except for 23 and 27 Sept.. For these two days the tide data was furnished by the Washington Office, based on observed tides at Cordova and Seward. See acting Directors letter No. 36-rcb. dated 28 Oct. 1949. This data concerns Survey No. H-7764 only.

Register and Field numbers of Hydrographic Surveys executed during 1949 follows:

Register No.	Field No.
H-7768	DE-2248-49
→ H-7762	DE-1149
H-7763	DE-1249
H-7764	DE-2349
H-7765	DE-2449
H-7766	DE-4148-49

STATISTICS FOR HYDROGRAPHIC SURVEY NO. H-7762 (1949)
USC&GS SHIP DERICKSON, PROJECT NO. CS-277
LAUNCH NO. 93

DATE	VOL. NO.	DAY LTR.	NUMBER OF POSITIONS	MILES OF SOUNDING LINES STATUTE	NAUTICAL
JULY					
10	1	a	44	7.4	6.5
13	1	b	204	34.0	30.0
14	1,2	c	196	29.0	25.5
15	2, 3	d	210	32.6	28.6
19	3, 4	e	179	23.2	20.3
20	4, 5	f	310	40.2	35.2
21	5	g	244	28.4	24.9
22	5, 6	h	266	33.8	29.6
26	6, 7	j	149	13.7	12.0
28	7	k	291	34.3	30.0
29	8	l	217	22.6	19.6
AUGUST					
2	8	m	141	14.6	12.8
3	9	n	266	27.2	23.8
4	9, 10	p	338	36.0	31.3
5	10	q	116	13.0	11.4
7	10, 11	r	276	25.4	22.1
9	11, 12	s	347	36.3	31.8
10	12, 13	t	338	43.0	37.4
11	13, 14	u	242	23.3	20.4
12	14	v	309	33.1	28.8
16	14, 15	w	219	20.9	18.3
17	15, 16	x	288	33.4	29.0
18	16	y	137	11.6	10.1
19	16, 17	z	356	40.6	35.5
20	17, 18	aa	353	38.0	33.0
23	18, 19	bb	291	24.0	21.0
24	19	cc	294	28.1	24.4
25	20	dd	256	24.2	21.2
26	20, 21	ee	164	13.3	11.6
30	21	ff	186	11.6	10.1
SEPTEMBER					
12	21	gg	93	8.4	7.3
13	21, 22	hh	292	26.3	23.0
15	22, 23	jj	253	25.8	22.6
16	23	kk	339	33.5	29.1
		MOTOR WHALEBOAT			
29 Aug.	24	a	113	20.6	18.0
16 Sept.	24	b	102	18.3	16.0
TOTALS:	24		8419	929.7	808.5

AREA: In square statute miles - 16.56

H 7762
De 1149

Prince William Sound
Naked Island Group.

List of geographic names
penciled on smooth sheet.

Storey Island
Peak Island
Naked Island
Parrot Island
Anchorage Island
Signal Island
Long Point
Bass Point
Bluff Point
Beak Point
Elk Head Point
Wide Point
Passage Point

Prince William Sound
Liljegren Passage
McPherson Passage
Cross Cove
Big Bight
Little Bight
Bass Harbor
Whale Cove
Liljegren Anchorage
Face Bay

GEOGRAPHIC NAMES

Survey No. H-7762

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Alaska			(for title)							1
Prince William Sound			"	"					BH	2
Naked Island Group			"	"						3
										4
Naked Island										5
Parrot Island										6
Bass Harbor										7
Whale Cove										8
Big Bight										9
Little Bight										10
Passage Point										11
McPherson Passage			(location of tidegage)							12
Cross Cove										13
Wide Point										14
Signal Island										15
Beak Point										16
Peak Island										17
Liljegren Passage										18
Elk Head Point										19
Anchorage Island										20
Liljegren Anchorage										21
Storey Island									BH	22
Bass Point										23
Face Bay										24
Long Point										25
Bluff Point		(not Bluff)								26
										27

(Names underlined in red are approved.

5-20-52

L. Heck

M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7762...

Records accompanying survey:

Boat sheets 1(2parts) sounding vols. ..24.; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls 16 Eny;

special reports, etc. 1 Descriptive Report; 1 Smooth Sheet; .....

.....

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

Number of positions on sheet		.....
Number of positions checked		.....
Number of positions revised		.....
Number of soundings revised (refers to depth only)		.....
Number of soundings erroneously spaced		.....
Number of signals erroneously plotted or transferred		.....
Topographic details	Time	.....
Junctions	Time	.....
Verification of soundings from graphic record	Time	.....

Verification by.....Total time ..... Date .....

Reviewed by..... Time ..... Date .....

M-2232-1

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H-7762

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual.

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken.

2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.

3. All reference to survey sheets mentioned in the descriptive report include the registry number and year.

4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering.

5. 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.

6. All positions verified instrumentally were check marked in the sounding records.

7. All critical soundings are clear and legible and are a little larger than the adjacent soundings.

8. The metal protractor has been checked within the last three months.

9. The protracting and plotting of all bad crossings were verified.

10. All detached positions locating critical soundings, rocks or buoys were verified.

11. The boat sheet was compared with the smooth sheet.

12. The spacing of soundings as recorded in the records was closely followed.

13. The bottom characteristics were shown on outstanding shoals.

14. The reduction and plotting of doubtful soundings were checked.

15. The transfer of contemporary topographic information was carefully examined.

16. All junctions were transferred and overlapping curves made identical.

17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.

18. The depth curves have been inspected before inking.

19. All triangulation stations and transfer of topographic and hydrographic signals were checked.

20. Heights of rocks were checked against range of tide.

21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.

22. Unnecessary pencil notes have been removed.

23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.

24. The low water line and delineation of shoal areas have been properly shown.

25. Degree and minutes values and symbols have been checked.

26. Questionable soundings have been checked on the fathograms.

27. Source of shoreline and signals (when not given in report).

28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual.

29. All aids located, with those on contemporary topographic sheets, have been shown on survey.

30. Depth curves were satisfactory except as follows:

31. Sounding line crossings were satisfactory except as follows:

32. Junctions with contemporary surveys were satisfactory except as follows:

33. Condition of sounding records was satisfactory except as follows:

34. The protracting was satisfactory except as follows:

35. The field plotting of soundings was satisfactory except as follows:

36. Notes to reviewer:

Verified by Date

P 14 C

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

[redacted] 26 May 1952

Division of Charts: R. H. Carstens

Plane of reference approved in volumes of sounding records for 24

HYDROGRAPHIC SHEET 7762

Locality Prince William Sound, Alaska

Chief of Party: G. E. Boothe in 1949
Plane of reference is mean lower low water, reading
1.7 ft. on tide staff ~~xxx~~ at Naked Island
13.5 ft. below B. M. 1 (1949)

Height of mean high water above plane of reference is 10.9 feet.

Condition of records satisfactory except as noted below:

E. C. McKay
Section of Tides
Chief, ~~Division of Tides and Currents.~~

U. S. GOVERNMENT PRINTING OFFICE 756675

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7762

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/30/52	8519	Risegari	Before ~~After~~ Verification and Review Partially appld.
8/25/53	8551	McGann	Before ~~After~~ Verification and Review Examined - ~~Not~~ applied at this time.
			Before After Verification and Review
5/12/55	8517	N.W. Burgoyne	Before ~~After~~ Verification and Review Partially Applied
5-26-55	8502	[illegible]	Before ~~After~~ Verification and Review " "
7-26-91	16700	W.T. Ohms	Before ~~After~~ Verification and Review Adequately Appl. ed
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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