

9003

B, 75418, 19, 20

Diag. Cht. No. 8556-2.

Form 804

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. PF 5-1-68 Office No. 9003

LOCALITY

State Southwest Alaska

General locality KODIAK ISLAND

Locality KODIAK HARBOR

1968

CHIEF OF PARTY

CDR A. C. HOLMES

LIBRARY & ARCHIVES

DATE JAN 31 1972

Chart 8545

USCOM-DC 5087

9003

HYDROGRAPHIC TITLE SHEET

H-9003

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.

PF 5-1-68

State ALASKA

General locality ~~SOUTHWEST ALASKA~~ , KODIAK ISLAND

Locality KODIAK HARBOR

Scale 1:5,000 Date of survey May 8^{12th} thru Aug. 16^{17th}, 1968

Instructions dated 27 March 1968 Project No. PMC/SP-1-68

Vessel PATHFINDER MOTOR LAUNCHES # 1, #2, & #4

Chief of party CDR A. C. HOLMES

Surveyed by LTJG WENSTROM, LTJG CAMERON, ENSIGN COURTNEY

Soundings taken by echo sounder, hand lead, ~~pick~~ & walking waterline

Graphic record scaled by ship personnel

Graphic record checked by ship personnel

Positions Verified By: Matthew G. Sanders Automated plot by P. M. G.

Soundings ~~verified~~ ^{Verified} by Matthew G. Sanders

Soundings in ~~XXXXX~~ feet at ~~XXXXX~~ MLLW

REMARKS: PROJECT EXPANDED BY SUPPLIMENTS TO INSTRUCTIONS DATED
17 MAY & 12 JULY 1968.

Applied to sheet 2-23-72
CSB

DESCRIPTIVE REPORT

TO ACCOMPANY PF 5-1-68

H-9003

SCALE 1:5,000

USC&GSS PATHFINDER , 1968

CDR. A.C. HOLMES CMDG

A. PROJECT

This survey was in accordance with Project Instructions PMC/SP-1-68 Vicinity of Kodiak & Ouzinkie Alaska, Dated 27 March, 1968; change #1 supplement to instructions dated 17 May and change #2 supplement to instructions dated 12 July 1968.

B. AREA SURVEYED

This survey is of the area between Kodiak and Near islands. This includes the inner anchorage & small boat harbor of the town of Kodiak. Gibson Cove, $\frac{1}{2}$ mile west of the town of Kodiak was also surveyed. Eastern limit of survey is Long. $152^{\circ} 23' W$. Western limit is from west of the entrance to Gibson Cove diagonally to a point $\frac{1}{2}$ mile southwest of Gull I., thence to Gull I. , thence East to Near Island.

Hydrography was begun 8 May 1968 and completed 16 August 1968.

Junction with prior surveys was not required.

C. SOUNDING VESSELS

Pathfinder Motor Launches # 1,2, and 4 were used for all electronic sounding. Positions are color coded as follows:

ML# 1	Green	Pos 2001-2125
ML# 2	Violet	Pos 3001-3124
ML# 4	Brown	Pos 0001-0997

Blue was used for detached positions, rock locations, and walking waterline.

Pos. 5000-5311 are detached positions, Bottom samples & shoreline walking.

D. SOUNDING EQUIPMENT

Raytheon DE 723 fathometers #552, #135, and #140 were used for all electronic sounding. A leadline was used to search for least depths on rocks and obstructions and in channels. Fathogram initials were maintained on the 2 ft. mark. Daily bar checks were taken and their results used to obtain draft corrections. Oceanographic stations were taken May 10 1968 and August 14, 1968 to determine velocity corrections.

E. SMOOTH SHEET

Smooth Sheet Projections & Plotting will be accomplished by Electronic data processing, Pacific Marine Center.

F. CONTROL

Control for the survey was visual. Signals were located by photogrammetric means where possible on incomplete Manuscript T-13214.

The Gibson Cove area did not have adequate photo or manuscript coverage. Control was taken from triangulation into Gibson Cove by ground methods using plane co-ordinates. Gibson Cove Hydrography was accomplished on a mylar boat sheet with plane co-ordinate grid. Signal Plane co-ordinates have been converted to geographic positions for processing of Smooth Sheet by Electronic Data Processing.

G. SHORELINE

Boat Sheet shoreline is from Incomplete Manuscript T-13214. Concurrent with this survey the ship's Photogrammetrist was compiling shoreline, topographic and field edit detail. These changes or additions to shoreline or topographic features are shown in red on the boat sheet.

Steep rocky shores, Piers and wharves prevented the zero curve from being fully developed.

H. CROSSLINES

Approximately 12% of all sounding lines were crosslines, and all give adequate checks.

I. JUNCTIONS

There are no prior surveys adequate for junctions.

J. COMPARISON WITH PRIOR SURVEYS
PMC-1-68 Pre Survey Review Items.

1. Three Tanks: Six tanks in a group in this location were investigated from seaward. The upper middle of the group is of landmark value. This was submitted on Form 567.
2. Submerged ruins in both areas are not to the extent charted. See Boat Sheet & Field Edit Discrepancy print for foul areas & hazards to navigation.
3. ^{Legend} 4½ Fathom rock, Lat. 57° 47' 07", Long. 152° 24' 48.2", was thoroughly investigated and developed by hydrography. The least depth was found to be 29 ft. based on Predicted Tides.
4. A 4 Fathom sounding, Lat. 57° 47' 04.8" Long. 152° 24' 28.7" was not found and was disproved by extensive Hydro & Development. Steeply sloping bottom in this vicinity make a slightly misplaced sounding likely. Source of this sounding was reconnaissance survey.
5. All areas of the charted wrecks were investigated visually and by hydrography. No wrecks were found. Further investigation was made with an improvised pipe drag and no obstructions were located. These symbols should be deleted from charts.
6. Hydrography in this area as well as visual inspection at low water indicate that this is an area of rocky bottom in depth of 1-6 feet. The numerous sunken rocks were a symbolization on the prior survey.
7. Controlling depth of channel was found by hydrography to be 25 ft. on boat sheet and approximate location is Lat. 57° 47' 23", Long. 152° 23' 34". Channel was developed by a system of diagonal sounding lines and also lines running parallel to channel. Area of controlling depth was further investigated by leadline at slack water to search for more shoal sounding than Hydro located. None were found.

K. COMPARISON WITH CHART

Comparisons were made with chart 8545 & Kodiak Harbor inset of same chart, Edition 17 May, 1965 & revised inset dated 22 July, 1968. Generally the charted depths are slightly shoaler than Boat Sheet shows them. The shoreline in vicinity of the city of Kodiak has been extensively altered from that charted. Newly found dangers to navigation are listed.

1. Pipe Lat. 57° 47.12' Long. 152° 24.48'
Covered 1 ft. 0900 May 15, 1968.
Pos. No. 5126.
2. Bin Lat. 57° 46.79' Long. 152° 24.45'
Covered 6 ft. 1120 May 29, 1968.
Pos. No. 5291.
3. Wrecks in Gibson Cove. Two wrecks of boats were located in Gibson Cove by Field Edit & reported on a special Field Edit Overlay prepared for that area by the ship's photogrammetrist.

logged

L. ADEQUACY OF SURVEY

This survey is complete and adequate to supercede all prior surveys for charting.

M. AIDS TO NAVIGATION

The Aids to Navigation listed in the 1968 Light List was compared with chart 8545. OFFICIAL AIDS to Navigation were in complete agreement and adequately serve the purpose for which they were established.

The Kodiak City Dock East & West lights that are privately maintained are in agreement.

The UNION OIL COMPANY PIER East & West lights listed in light list are not charted. These should be charted. These lights were located on Field Edit discrepancy print & forwarded to Photogrammetry Division.

Privately maintained lights not listed in the light lists, mark both seaward corners of the ferry terminal. These are also mentioned and located in the field edit report. These lights are red but their characteristics were not determined by the hydrographic party. One local informant reported that lights on the Ferry Terminal were seasonal.

N. STATISTICS

	<u>No. Miles Sounding Lines</u>	<u>No. Hydro Positions</u>
ML#	7.3	125
ML#	7.3	124
ML# 4	49.3	997
Area surveyed	0.7 Sq. Nautical Miles	146
No. Ocea Stations	2	192
Detached Positions	192	192
No. Bottom Samples	42	1938

O. MISCELLANEOUS

PMC/SP-1-68 Instructions Change #1 was at the request of the City of Kodiak which is considering the area between Uski & Near Islands as a site for a small boat harbor. Change #2 was at the request of The Army Corps of Engineers who are planning to build a breakwater between Gull I. and Gibson Cove.

P. RECOMMENDATIONS

Q. REFERENCE TO REPORTS

Field Edit Report & Form 567 forwarded November 4, 1968

Respectfully submitted,

John B. Courtney

John B. Courtney
Lt(jg) USESSA

UNITED STATES GOVERNMENT

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

Memorandum

TO : Director
Pacific Marine Center

DATE: 9 Oct. 1969

In reply refer to:

FROM : Commanding Officer
USC&GSS PATHFINDER

SUBJECT: Rock-fill Investigation, Kodiak Harbor

Paragraph #25 of the Project Instructions for OPR 429, Lower Cook Inlet, Alaska (Dated 15 April 1969) directs investigation of a discrepancy regarding completion of a rock-fill in Kodiak Harbor.

In compliance, such an investigation was undertaken by the PATHFINDER and completed on 9 Sept. 1969.

The attached report indicates that the 1968 PATHFINDER boat sheet was not in error.



E. A. Taylor



BUY U.S. SAVINGS BONDS REGULARLY ON THE PAYROLL SAVINGS PLAN

Rock-fill Investigation, Kodiak Harbor

A short stretch of Kodiak waterfront, charted by the PATHFINDER in 1968, was designated by Barr & Associates (Consulting engineers) as rock-fill laid in 1967. However, the applicable boat sheet (PF 5-1-68) showed soundings in the area in question. A cursory inspection showed the above area to be water as charted. Consulting with Mr. Barr of Barr & Associates it was determined that only a portion of the planned fill had actually been completed. After an initial section was laid, further work on the fill was discontinued as a result of financing limitations. The completed portion is shown on the boat sheet of the area. (See attached sheets)

Sextant fixes were taken along the waterline at a *0.8 fa. tide to delineate the area under investigation, and to show the extent of the fill that has been done. The resulting outline agrees well with the shoreline shown on the boat sheet. Positions, angles, and visual signals used are listed below:

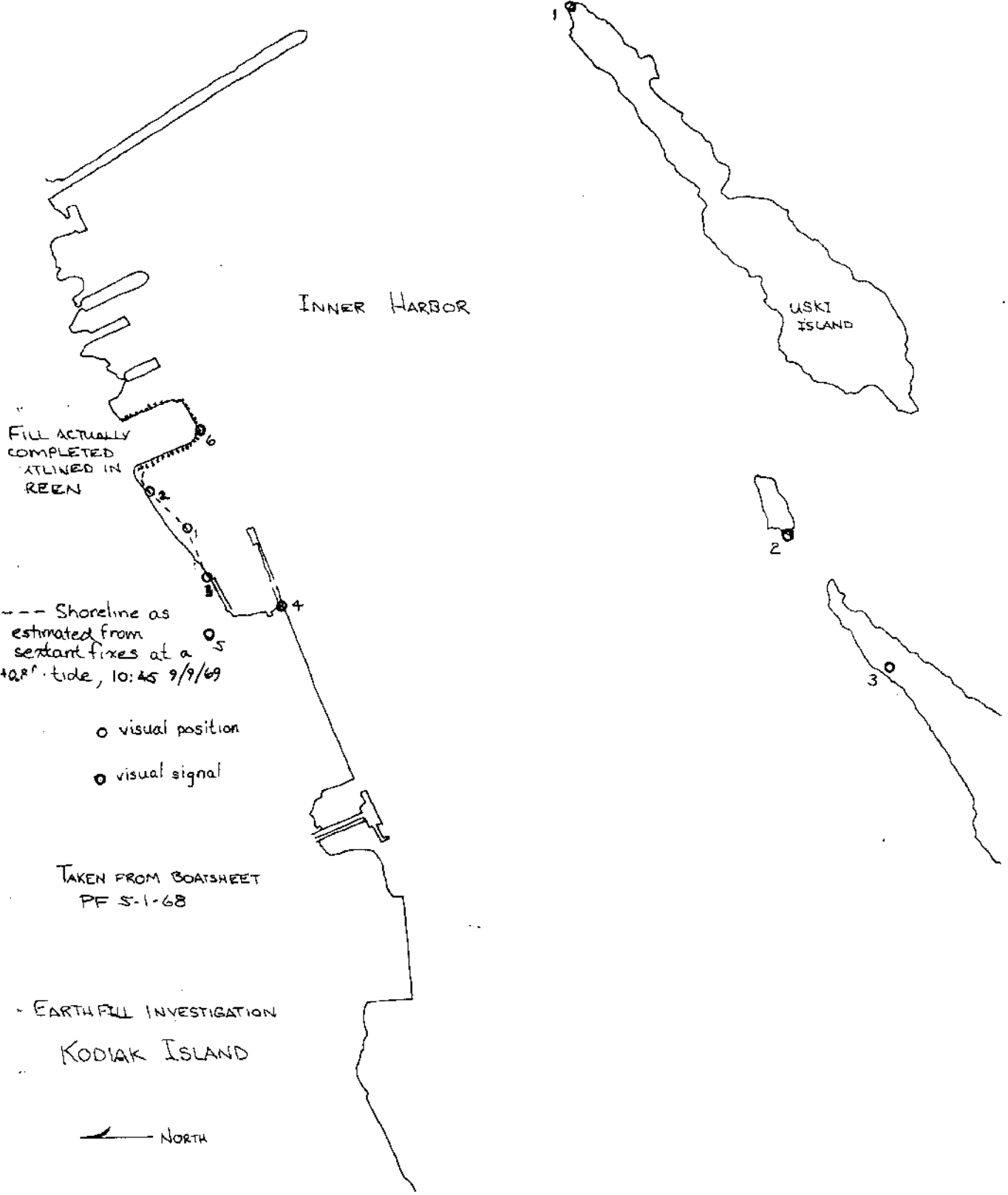
Pos. #1		Pos. #2		Pos. #3	
L 123° 57'	6	L 052° 38'	1	L 052° 51'	1
R 039° 03'	4	R 009° 46'	2	R 011° 51'	2
	5		3		3

Fixes taken 10:45 (135°W)
9 Sept. 1969

Examined and approved,

E. A. Taylor
Capt. E. A. Taylor, Cmdg.
USC&GSS PATHFINDER

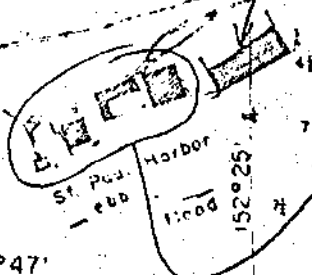
James C. Bishop, Jr.
James C. Bishop, Jr.
ENS USESSA



area in question

Same as chart let attached, for
General location purposes

True North

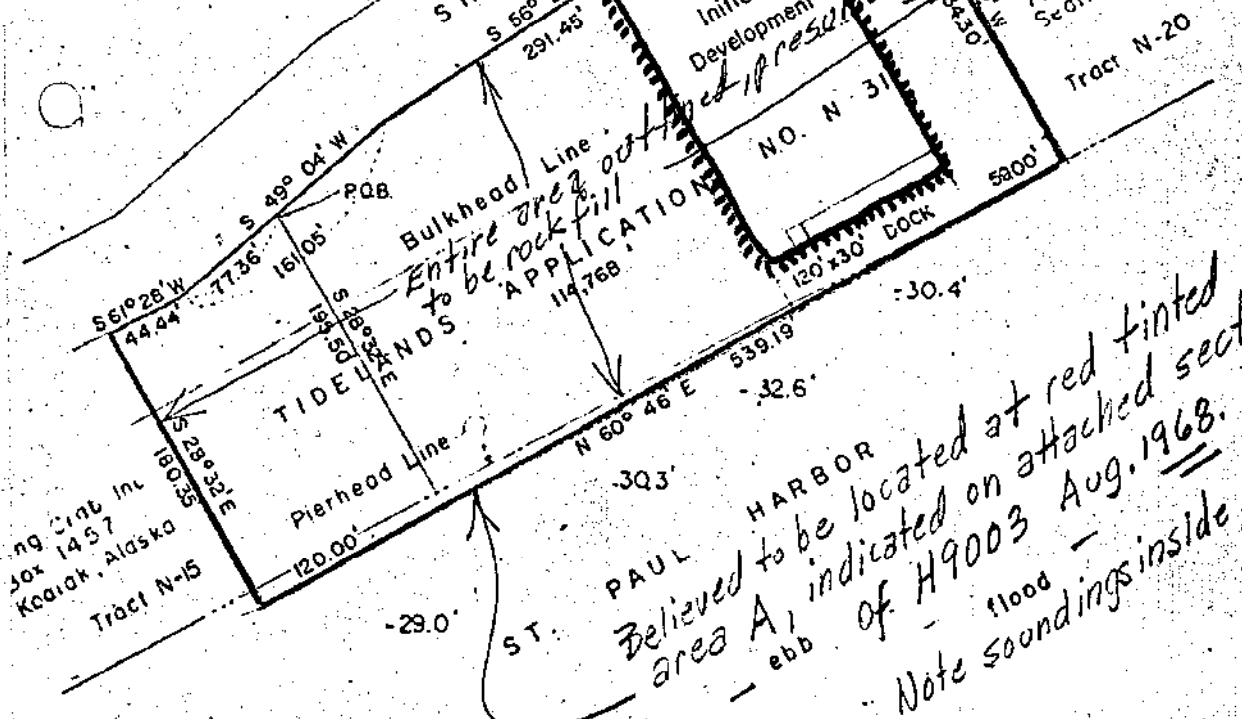


57°47'

VICINITY MAP
from USCG & GS Chart No. 8545
SCALE 1:10,000

US Survey No. 1534
Owned by Peter Ramaglia

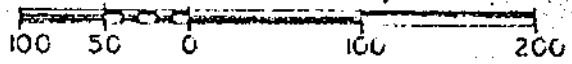
M.C. 1
USS 1534



Entire area outlined
to be rock fill
APPLICATION

PAUL HARBOR
Believed to be located at red tinted
area A, indicated on attached section
of H9003 Aug. 1968.
Note soundings inside area

Scale in feet



February 15, 1967

Prepared by
BARR AND ASSOCIATES
Kodiak, Alaska

Application by
B & B FISH CO.
Kodiak, Alaska

Ref. C 1/2 of Kodiak

PROPOSED ROCK FILL & DOCK

3

PARTS

PH-6802
Supplemental Compilation Report
BP-79695
Gibsons Cove, Kodiak Island, Alaska

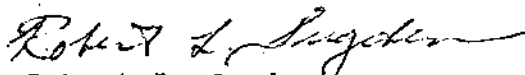
Compilation was extended westward of T-13214 to include Gibson Cove. Diapositives of model 67-L-4129 and 4128 were set to bridge positions plotted on a separate ruled vinylite sheet (BP-79695) to compile the area. The western half of Gibson Cove did not have stereoscopic coverage, thus, it was compiled monoscopically from photograph 67-L-4129.

Field inspection of Gibson Cove which was done at the time of field edit was used to aid and supplement the photo compilation.

All bridge points held except 28310 and 29310, which are highly elevated points, and considered to be caused by an inherent error in bridge positions of such points. These points fell 1.7 south of bridge positions. The adjoining model 67-L-4127 and 4128 was set to bridge positions and confirmed the same difference in bridge point 28310.

Junction was made with T-13214.

Respectfully submitted,


Robert L. Sugden

FIELD EDIT REPORT

SHEET T-13214

KODIAK, ALASKA

AUGUST 1968

USC&GSS PATHFINDER

A. C. HOLMES, CMDG

51 Methods

The field edit of this map was done in accordance with project instructions to the Commanding Officer, Ship PATHFINDER, dated 17 May 1968, and with photogrammetric instructions. Sextant fixes were used to locate features that could not be identified on the photographs.

All deletions, additions, and corrections to be applied to the map manuscript appear on the Field Edit Ozalid. This ozalid is an index and inventory of all field edit work performed. Field edit notes on the matte ratio prints are in violet ink. Features compiled on the manuscript and marked out in green on the ozalid should be deleted.

Field edit data appears on the following matte ratio prints:
67L4125 thru 4129.

A supplemental mylar sheet covering the area of Gibson Cove is also a part of the field edit data. This sheet shows the Alaska Zone 5 Plane Coordinates. Supplemental project instructions extended the project into this area. Shoreline in the cove should be compiled from photos of the area. A thorough field inspection of the area was made to assist the compiler.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete.

54 Recommendations

None.

56 Additional Information

Alaska Daylight Time, time meridian 135W, was used during the entire survey.

All shallow limits have been deleted as the hydrographic survey of the area is complete.

William R. Cameron
LTJG-USESSA
Photo Officer

Approved:


A. C. HOLMES

CDR-USESSA
Commanding Officer

Disposition of Data:

This manuscript will be filed as Blue Print No. 79695 in the Marine Chart Division. One (1) copy will be routed to the Pacific Marine Center for application to the hydro survey (H-9003) smooth sheet. A copy will be filed with the field inspection data (field inspection photographs Nos. 67-L-4128 and 4129; Field Edit Sheet) in the Federal Records Center (PH-6802).

S. G. Blankenbaker
S. G. Blankenbaker

TIDE NOTE

Predicted tides for Kodiak Harbor were used to reduce soundings on the Boat Sheet. Hourly heights for Actual tides were requested from the Washington Office for constructing actual tide curves for smooth reducers. All Hydrography & Tidal data used 135° W Long. time.

Actual tide reducers were approved by the Washington Office 14 October, 1968. Form 712 follows.

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

10/14/68

~~Nautical Chart Division~~ Pacific Marine Center

Plane of reference approved
~~for use of hydrographic sheets~~ for ~~PF 5-1-68 (PMC-SP-1-68)~~

HYDROGRAPHIC SHEET PF 5-1-68 (PMC-SP-1-68)

Locality: Kodiak Harbor, Alaska

Chief of Party: A. C. Holmes, 1968

Plane of reference is mean lower low water

Tide Station Used (Form C&GS-681): St. Pauls Harbor, Kodiak

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

7.8 feet

Remarks

L.C. Wharton
for/ Chief, Tides and Currents Branch

PF 5-1-68

ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

Draft correction is derived from bar checks.

Initial correction is derived from scanning fathograms.

The algebraic sum of Draft and Initial is the TRA correction.

The TRA correction is applied from the tabulated time to but not including the next tabulated time.

ML # 1

Draft	Initial	TRA	Time	Day	Velocity Corrections
-0.1	0.0	-0.1	000000	227	table # 1
-0.1	-0.1	-0.2	152000	227	"
-0.1	0.0	-0.1	000000	228	"
-0.1	-0.1	-0.2	113515	228	"
-0.1	+0.1	0.0	000000	229	"

ML # 2

0.0	0.0	0.0	000000	227	table # 1
0.0	+0.1	+0.1	141530	227	"
0.0	+0.2	+0.2	145315	227	"
0.0	0.0	0.0	000000	228	"

ML # 4

-0.1	0.0	-0.1	121830	137	none
-0.1	0.0	-0.1	000000	134	"
-0.1	+0.1	0.0	151830	134	"
-0.1	0.0	-0.1	155430	134	"
-0.1	0.0	-0.1	000000	135	"
-0.1	-0.1	-0.2	132600	135	"
-0.1	0.0	-0.1	134030	135	"
-0.1	-0.1	-0.2	134330	135	"
-0.1	0.0	-0.1	134445	135	"
-0.1	-0.1	-0.2	142400	135	"
-0.1	0.0	-0.1	142730	135	"
-0.1	0.0	-0.1	000000	136	"
-0.1	-0.2	-0.3	144200	136	"
-0.1	-0.1	-0.2	144311	136	"
-0.1	0.0	-0.1	145100	136	"

ML # 4 continued

Draft	Initial	TRA	Time	Day	Velocity Corrections
-0.1	0.0	-0.1	000000	137	none
-0.1	0.0	-0.1	000000	138	"
-0.1	-0.2	-0.3	105445	138	"
-0.1	0.0	-0.1	105845	138	"
-0.1	0.0	-0.1	000000	140	"
-0.1	0.0	-0.1	000000	141	"
-0.1	0.0	-0.1	000000	143	"
-0.1	0.0	-0.1	000000	144	"
-0.1	-0.1	-0.2	113930	144	"
-0.1	-0.2	-0.3	114245	144	"
-0.1	0.0	-0.1	114630	144	"
-0.1	0.0	-0.1	000000	145	"
-0.1	0.0	-0.1	000000	147	"
-0.1	0.0	-0.1	000000	149	"
+0.2	0.0	+0.2	000000	227	table # 1
+0.2	0.0	+0.2	000000	228	"
+0.2	+0.1	+0.3	123730	228	"
+0.2	0.0	+0.2	123830	228	"

VELOCITY CORRECTIONS

Oceanographic station 10 May, 1968 determined that no velocity corrections are necessary for days 131 thru 149.

Oceanographic station 13 August determined that the following corrections are necessary for days 227 thru 229.

Depth	Correction	table # 1	Depth	Correction
0			56	+0.8
7	+0.1		64	+0.9
14	+0.2		70	+1.0
22	+0.3		77	+1.1
31	+0.4		83	+1.2
39	+0.5		89	+1.3
47	+0.6		95	
56	+0.7			

STYLUS CORRECTIONS

None are necessary.

PF#5-1-68

H Y D R O - S I G N A L C A R D S

SIGNAL		LATITUDE		LONGITUDE	SOURCE
N6.	NO.				
9003	001	57470401	152253074		T 13214
9003	002	57470475	152252027		"
9003	003	57471125	152245374		"
9003	004	57470798	152242778		"
9003	005	57471063	152242451		"
9003	006	57471438	152240412		"
9003	007	57471493	152240224		"
9003	008	57471648	152235991		"
9003	009	57471894	152235871		"
9003	010	57472288	152234043		"
9003	001100	57472615	152233062		"
9003	012	57473520	152231350		"
9003	013	57473488	152230079		"
9003	001400	57472120	152230048		"
9003	015	57472276	152232869		"
9003	016	57471393	152234757		"
9003	017	57470469	152241791		"
9003	018	57464768	152250823		"
9003	019	57465653	152243086		"
9003	020	57471700	152243789		"
9003	021	57471086	152250732		"
9003	022	57472182	152234969		VOL. 1 p. 23
9003	023	57471865	152222778		T 13214
9003	024	57464017	152263972		TRAVERSE
9003	025	57470259	152241132		T 13214
9003	026	57465935	152242372		"
9003	027	57465563	152242983		"
9003	028	57465253	152243746		"
9003	029	57464706	152245101		"
9003	030	57464144	152242850		"
9003	031	57465000	152242245		"
9003	032	57465560	152241585		VOL. 1 p. 38
9003	033	57464037	152264030		TRAVERSE
9003	034	57463803	152264570		"
9003	035	57463686	152265013		"
9003	036	57463585	152265741		"
9003	037	57463817	152270012		"
9003	038	57465334	152261780		TRIANGULATION FA LL 196 7
9003	039	57462404	152270602		TRIANGULATION GI BB 193 3
9003	0040	57464359	152265496	074330 068280 03 8 034 00	
9003	0041	57464503	152264905	074080 068280 01 8 024 00	
9003	0042	57464702	152263169	124660 027210 01 8 024 00	
9003	0043	57463591	152254241		VOL. 1 p. 38
	0043				

Tide Tape Printout

PMC/SP-1-68 Alaska.

PF-5-1-68

Kodiak Harbor (All Hydro)

This printout has been checked against
reducers from smooth tides for logging
errors.

JBC

Reducers are in feet & tenths of ft.

1-54 -10-10

Hydromat SF 1502

145500 00 1010 Added Nov 6, 1968 (Tape corrected)
150400 00 1008 0000 129 0 000000 000000

151400 00 1006

152700 00 1004

153900 00 1002

155700 00 0000

171400 00 0002

124000 00 1054 0000 130 0 000000 000000

125200 00 1052

130300 00 1050

131400 00 1048

132400 00 1046

133200 00 1044

134000 00 1042

134800 00 1040

135600 00 1038

140300 00 1036

141000 00 1034

141800 00 1032

142400 00 1030

143200 00 1028

143900 00 1026

144500 00 1024

145200 00 1022

145900 00 1020

150700 00 1018
151300 00 1016
152100 00 1014
152900 00 1012
153700 00 1010
154600 00 1008
155400 00 1006
160300 00 1004
090700 00 1020 0000 131 0 000000 000000
091300 00 1022
092000 00 1024
092600 00 1026
093200 00 1028
093900 00 1030
094500 00 1032
095100 00 1034
095900 00 1036
100500 00 1038
101100 00 1040
101800 00 1042
102500 00 1044
103200 00 1046
104000 00 1048
104700 00 1050
105500 00 1052
110300 00 1054
111200 00 1056
112800 00 1058
115000 00 1060
124000 00 1062
130300 00 1060
131900 00 1058
133000 00 1056

134100 00 1054

135000 00 1052

135900 00 1050

141100 00 1048

142000 00 1046

143000 00 1044

143900 00 1042

144700 00 1040

145400 00 1038

150200 00 1036

150900 00 1034

151600 00 1032

152300 00 1030

153000 00 1028

153600 00 1026

154200 00 1024

154700 00 1022

155200 00 1020

155900 00 1018

120300 00 1028 0000 134 0 000000 000000

120900 00 1030

121400 00 1032

121900 00 1034

122400 00 1036

123000 00 1038

123500 00 1040

124000 00 1042

124500 00 1044

125000 00 1046

125500 00 1048

130100 00 1050

130700 00 1052

131400 00 1054

132200 00 1056

133000 00 1058

133800 00 1060

134800 00 1062

135900 00 1064

141400 00 1066

154100 00 1068

160000 00 1066

161200 00 1064

162400 00 1062

163500 00 1060

164400 00 1058

165200 00 1056

170000 00 1054

170700 00 1052

171300 00 1050

172100 00 1048

172800 00 1046

173500 00 1044

092200 00 0030 0000 135 0 000000 000000

095200 00 0028

100700 00 0026

101600 00 0024

102600 00 0022

103300 00 0020

104100 00 0018

104900 00 0016

105700 00 0014

110300 00 0012

111000 00 0010

111600 00 0008

112200 00 0006

112800 00 0004

FORM NO. 08 81 PREPARED BY THE NATIONAL METEOROLOGICAL SERVICE

113400 00 0002

114000 00 0000

114600 00 1002

115200 00 1004

115600 00 1006

120000 00 1008

120500 00 1010

120900 00 1012

121400 00 1014

121800 00 1016

122300 00 1018

122800 00 1020

123200 00 1022

123700 00 1024

124200 00 1026

124700 00 1028

125200 00 1030

125600 00 1032

130000 00 1034

130600 00 1036

131200 00 1038

131800 00 1040

132300 00 1042

133000 00 1044

133800 00 1046

134400 00 1048

135000 00 1050

135800 00 1052

140400 00 1054

141200 00 1056

142100 00 1058

143000 00 1060

144000 00 1062

145300 00 1064

151000 00 1066

163200 00 1068

090400 00 0016 0000 136 0 000000 000000

091400 00 0018

092600 00 0020

094600 00 0022

101200 00 0024

104400 00 0022

110000 00 0020

111200 00 0018

112300 00 0016

113300 00 0014

114200 00 0012

114900 00 0010

115600 00 0008

120100 00 0006

120800 00 0004

121300 00 0002

122000 00 0000

122600 00 1002

123100 00 1004

123800 00 1006

124300 00 1008

124900 00 1010

125500 00 1012

130100 00 1014

130800 00 1016

131300 00 1018

132000 00 1020

132500 00 1022

133100 00 1024

133700 00 1026



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134200 00 1028

134900 00 1030

135400 00 1032

140000 00 1034

140700 00 1036

141300 00 1038

141900 00 1040

142500 00 1042

143100 00 1044

143800 00 1046

144200 00 1048

144900 00 1050

145600 00 1052

150500 00 1054

151500 00 1056

152500 00 1058

153800 00 1060

155200 00 1062

172200 00 1064

090300 00 0002 0000 137 0 000000 000000

091000 00 0004

091800 00 0006

092600 00 0008

093400 00 0010

094300 00 0012

095400 00 0014

7 100700 00 0016

6 102200 00 0018

5 114000 00 0020

4 115600 00 0018

3 120800 00 0016

2 121800 00 0014

122700 00 0012

123600 00 0010

124300 00 0008

125100 00 0006

125800 00 0004

130400 00 0002

131000 00 0000

131700 00 1002

132300 00 1004

132900 00 1006

133600 00 1008

134200 00 1010

134900 00 1012

135500 00 1014

140200 00 1016

140900 00 1018

141600 00 1020

142200 00 1022

143000 00 1024

143600 00 1026

144300 00 1028

145000 00 1030

145600 00 1032

150300 00 1034

151200 00 1036

152000 00 1038

152800 00 1040

7 153600 00 1042

6 154400 00 1044

5 155300 00 1046

4 160300 00 1048

3 161300 00 1050

2 162400 00 1052

163500 00 1054

165000 00 1056
170900 00 1058
181200 00 1060
100400 00 1002 0000 138 0 000000 000000
101200 00 0000
102000 00 0002
103000 00 0004
104000 00 0006
105200 00 0008
110800 00 0010
123300 00 0012
093800 00 1050 0000 140 0 000000 000000
094800 00 1048
095700 00 1046
100400 00 1044
101200 00 1042
101900 00 1040
102700 00 1038
103500 00 1036
104300 00 1034
104900 00 1032
105700 00 1030
110400 00 1028
111200 00 1026
112000 00 1024
112700 00 1022
7 113400 00 1020
6 114200 00 1018
5 114900 00 1016
4 115800 00 1014
3 120800 00 1012
2 122000 00 1010
123500 00 1008



125000 00 1006

131000 00 1004

144900 00 1002

150900 00 1004

152300 00 1006

153700 00 1008

154700 00 1010

155600 00 1012

160400 00 1014

Hydro starts 0741, by Robinson Good.

080000 00 1062 0000 141 0 000000 000000

083800 00 1064

091700 00 1062

093800 00 1060

095600 00 1058

101100 00 1056

102500 00 1054

103800 00 1052

104900 00 1050

091200 00 1052 0000 143 0 000000 000000

092800 00 1054

094500 00 1056

101000 00 1058

112300 00 1060

114900 00 1058

120800 00 1056

122300 00 1054

123600 00 1052

125000 00 1050

130200 00 1048

131300 00 1046

132400 00 1044

133300 00 1042

134300 00 1040

135300 00 1038

140300 00 1036

141300 00 1034

142300 00 1032

143300 00 1030

144300 00 1028

145300 00 1026

150400 00 1024

151700 00 1022

153000 00 1020

154900 00 1018

171500 00 1016

100800 00 1052 0000 144 0 000000 000000

102200 00 1054

103900 00 1056

110000 00 1058

121500 00 1060

124000 00 1058

130000 00 1056

131400 00 1054

132800 00 1052

134000 00 1050

135200 00 1048

140300 00 1046

141300 00 1044

142300 00 1042

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144300 00 1038

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150300 00 1034

151300 00 1032

152500 00 1030

153600 00 1028

154800 00 1026
160100 00 1024
161700 00 1022

Added Nov 6, 1968
(Tape corrected)

100200 00 1042 0000 145 0 000000 000000

101100 00 1044

101900 00 1046

102800 00 1048

103700 00 1050

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110000 00 1054

111400 00 1056

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131000 00 1060

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135300 00 1056

140900 00 1054

072500 00 0002 0000 146 0 000000 000000

074700 00 0000

080000 00 1002

081300 00 1004

082400 00 1006

083400 00 1008

084300 00 1010

085000 00 1012

085800 00 1014

090300 00 1016

091200 00 1018

091900 00 1020

092500 00 1022

093200 00 1024

093900 00 1026

094600 00 1028

095300 00 1030

100000 00 1032

100700 00 1034

090000 00 0000 0000 147 0 000000 000000



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00000

091000 00 1002

091900 00 1004

092800 00 1006

093500 00 1008

094200 00 1010

094900 00 1012

095600 00 1014

100300 00 1016

101100 00 1018

101800 00 1020

102400 00 1022

103200 00 1024

103900 00 1026

104700 00 1028

105400 00 1030

110000 00 1032

110700 00 1034

111400 00 1036

112200 00 1038

112900 00 1040

113700 00 1042

114500 00 1044

115400 00 1046

120300 00 1048

121300 00 1050

122400 00 1052

7 123800 00 1054

6 125300 00 1056

5 131100 00 1058

4 144000 00 1060

3 150400 00 1058

2 152200 00 1056

153700 00 1054

154900 00 1052

✓ 160200 00 1050 ^{1614 - 4.8} 161400 00 1048 Added Nov 6, 1968 (Tape Corrected)

123100 00 1036 0000 149 0 000000 000000

124000 00 1038

124700 00 1040

125500 00 1042

130300 00 1044

131200 00 1046

132000 00 1048

133000 00 1050

134100 00 1052

135200 00 1054

140800 00 1056

143000 00 1058

155400 00 1060

080700 00 0006 0000 150 0 000000 000000

082100 00 0008

084200 00 0010

093200 00 0012

100100 00 0010

101200 00 0008

102300 00 0006

103400 00 0004

104400 00 0002

105400 00 0000

110400 00 1002

111400 00 1004

112300 00 1006

113200 00 1008

114100 00 1010

114800 00 1012

115500 00 1014

120300 00 1016

121000 00 1018

121800 00 1020

122500 00 1022

123200 00 1024

123900 00 1026

124800 00 1028

125300 00 1030

130100 00 1032

130700 00 1034

131400 00 1036

132100 00 1038

132800 00 1040

133700 00 1042

134500 00 1044

135300 00 1046

140300 00 1048

141500 00 1050

143000 00 1052

144700 00 1054

150700 00 1056

164000 00 1058

093200 00 1026 0000 227 0 000000 000000

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102200 00 1020

113800 00 1018

120000 00 1020

121200 00 1022

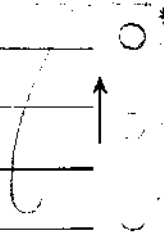
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123600 00 1026

124800 00 1028

130000 00 1030

131000 00 1032



132000 00 1034
133100 00 1036
134000 00 1038
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140000 00 1042
141000 00 1044
142000 00 1046
142900 00 1048
143800 00 1050
144700 00 1052
145400 00 1054
150200 00 1056
151200 00 1058
152000 00 1060
152800 00 1062
153600 00 1064
083200 00 1046 0000 228 0 000000 000000
084600 00 1044
090000 00 1042
091800 00 1040
093400 00 1038
095000 00 1036
100500 00 1034
102000 00 1032
104100 00 1030
122000 00 1028
124000 00 1030
125500 00 1032
131000 00 1034
094800 00 1046 0000 229 0 000000 000000
101100 00 1044
103400 00 1042
110500 00 1040

131800 00 1038

134700 00 1040

140900 00 1042

142800 00 1044

144400 00 1046

150000 00 1048

151400 00 1050

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154000 00 1054

155300 00 1056

Tide Tape Printout

PF-5-1-68

PMC/SP-1-68

KODIAK HARBOR, S.W. ALASKA

Plane of Reference Approved

Datum Planes Section

Date 10-11-68

Approval Sheet

The field work on this survey has been inspected and approved. The boatsheets and field records have been inspected and approved.



A. C. Holmes
CDR USESSA
Commanding Officer
USC&GSS PATHFINDER

GEOGRAPHIC NAMES

Survey No. H-9003

Name on Survey	Source of Name										
	A	B	C	D	E	F	G	H	K		
Cyane Rock											1
Gull Island											2
Inner Anchorage											3
Kodiak											4
Kodiak Harbor											5
Kodiak Island											6
Near Island											7
Round Island											8
Uski Island											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

PREPARED BY

Frank W. Roberts
CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wraight
CHIEF GEOGRAPHER

HYDROGRAPHIC SURVEY STATISTICS
 HYDROGRAPHIC SURVEY NO. H-9003

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & PNO		1	BOAT SHEETS		3	
DESCRIPTIVE REPORT		1	OVERLAYS		2 5	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1					
VOLUMES	6					
BOXES						
T-SHEET PRINTS (List)						
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				1424
POSITIONS CHECKED		1424		
POSITIONS REVISED		78		
DEPTH SOUNDINGS REVISED		139		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		62		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0		
	377 TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		72		
JUNCTIONS		0		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		21		
SPECIAL ADJUSTMENTS		0		
ALL OTHER WORK		284		
TOTALS		377		
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY	BEGINNING DATE		ENDING DATE	
REVIEW BY	BEGINNING DATE		ENDING DATE	

VERIFIER'S REPORT
HYDROGRAPHIC SURVEY, H-9003

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>Note: 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 SUPERSEDED.</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>Part IV - VOLUMES</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>Part II - SHORELINE AND SIGNALS</p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys</p> <p>a. Give earliest and latest dates of photographs</p> <p>b. Field inspection date</p> <p>c. Field Edit date</p> <p>d. Reviewed-Unreviewed</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</p> <p>(b) line turns</p> <p>(c) position values of beginning and ending of lines</p> <p>(d) bar check or velocity correctors</p> <p>(e) time recording</p> <p>(f) notes or markings on fathograms</p> <p>(g) was reduction of soundings accurately done?</p> <p>(h) was scanning accurate?</p> <p>(i) were peaks at uneven intervals missed?</p> <p>(j) were stamps completed?</p> <p>(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>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>Part V - PROTRACTING</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>Part III - JUNCTIONS</p> <p>Note: 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>14. The protracting and plotting of all unsatisfactory crossings were verified. 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>	✓		<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>	✓	

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 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	✓		Part IX - BOATSHEET 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 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	✓	
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	✓		31. Unnecessary pencil notes have been removed from the sheet. 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.	✓		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	✓	
Part VII - CURVES 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 34. Unresolved discrepancies and questionable soundings.	✓	
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.	✓		35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	✓	
Verified by <i>Matthew B. Sanders</i>			36. Supplemental information.	✓	
			Date <i>14 January 1972</i>		

GEOGRAPHIC NAMES PENCILED ON H-9003

KODIAK ISLAND

NEAR ISLAND

ROUND ISLAND

GULL ISLAND

USKI ISLAND

KODIAK HARBOR

KODIAK

INNER ANCHORAGE

CYANE ROCK (Advance Manuscript spelling CAYNE ROCK)

VERIFIERS REPORT
H-9003

E. SMOOTH SHEET

The smooth sheet and position number overlay were plotted by the Digital Plotter with all finished work being done by the Verification Branch at the Pacific Marine Center.

F. CONTROL

See Descriptive Report

G. SHORELINE

The smooth sheet shoreline was taken from the Advance Manuscript T-13214 of Kodiak Harbor and Advance Manuscript BP-79695 of Gibson Cove.

H. CROSSLINES

The area surveyed was adequately covered with crosslines. All crossings were satisfactory.

J. JUNCTIONS

See Descriptive Report

K. COMPARISON WITH PRIOR SURVEYS

There are no copies of the prior surveys, therefore, no comparison was made. See Descriptive Report.

L. COMPARISON WITH THE CHART

This survey shows that the charted depths are in agreement with the depths of the smooth sheet taking into consideration that the charted depths are in fathoms and the smooth sheet depths are in feet. A list of discrepancies follows:

Chart Sndg	Smooth Sheet Sndg	Latitude	Longitude
9 fms	74 ft	57°47.0'	152°25.4'
4½ fms	36 ft	57°47.1'	152°25.1'

A copy of Chart 8545 follows that compares survey items with the chart. See Descriptive Report.

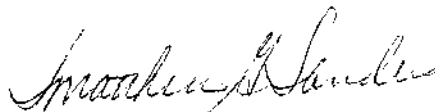
L. ADEQUACY OF SURVEY

The survey is complete enough to supersede prior surveys for charting.

M. AIDS TO NAVIGATION

See Descriptive Report

Respectfully Submitted

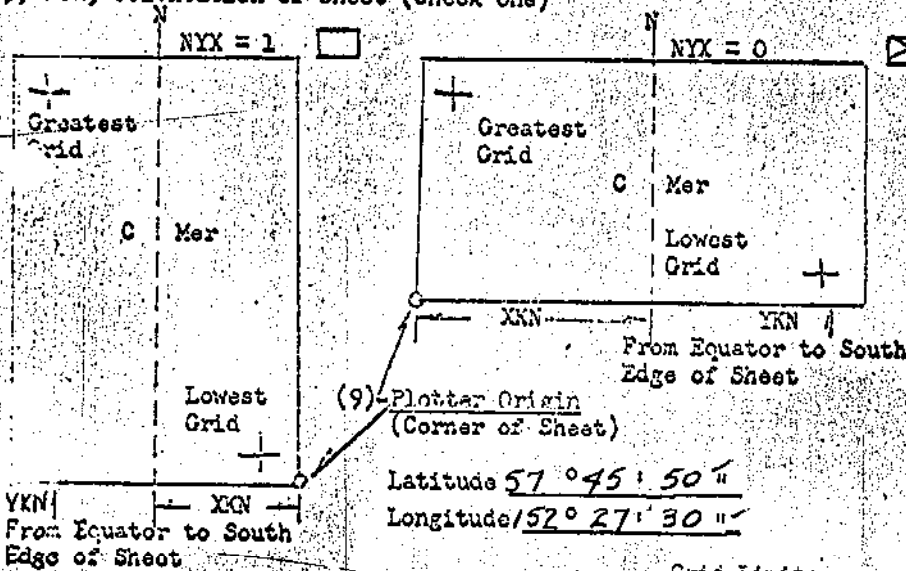


Matthew G. Sanders
Carto. Tech.

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

Revised 10/1/67

- (1) Project No. PMC SP-1-68 (1) Requested by _____
 (2) H No. 9003 (5) Ship or Office PATHEINDER
 (3) Field No. PF-54-68 (KODIAK HARBOR) (6) Date Required _____
 (7) Visual Ft.(0) or Fathoms (1) (8) Electronic (fill out form #3)
 (10) XKN (SP 5) Distance from CYER to East Edge (NYX = 1) or West Edge (NYX = 0). 3472.23 Meters
 (11) YKN (SP 241) Distance from Equator to South Edge of Sheet. 6,409,774.49 Meters
 (12) Central Meridian 152° 24' 00"
 (13) Survey Scale 1: 5,000
 (14) Size of Sheet (Check one) ⁵⁴ 36x60 42x60
 (15) NYX, Orientation of sheet (Check one)



(9) Platter Origin
(Corner of Sheet)

Latitude 57° 45' 50"
 Longitude 152° 27' 30"

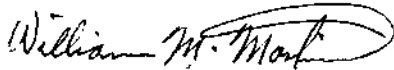
Grid Limits

- | | | |
|-------------------------|---------------------|---------------------|
| (16) Greatest Latitude | <u>57° 48' 00"</u> | (Projection Line |
| (17) Lowest Latitude | <u>57° 46' 00"</u> | Interval Page 4 |
| (18) Difference | <u>00° 02' 00"</u> | Hydro Manual) |
| | | (19) <u>00' 15"</u> |
| | | (20) <u>8</u> YSK |
| (21) Greatest Longitude | <u>152° 27' 15"</u> | |
| (22) Lowest Longitude | <u>152° 21' 00"</u> | (24) <u>00' 15"</u> |
| (23) Difference | <u>00° 06' 15"</u> | (25) <u>25</u> NSK |

APPROVAL SHEET

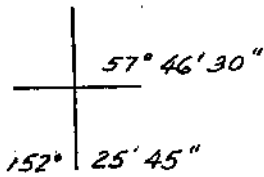
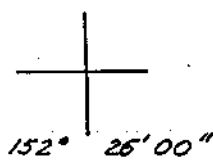
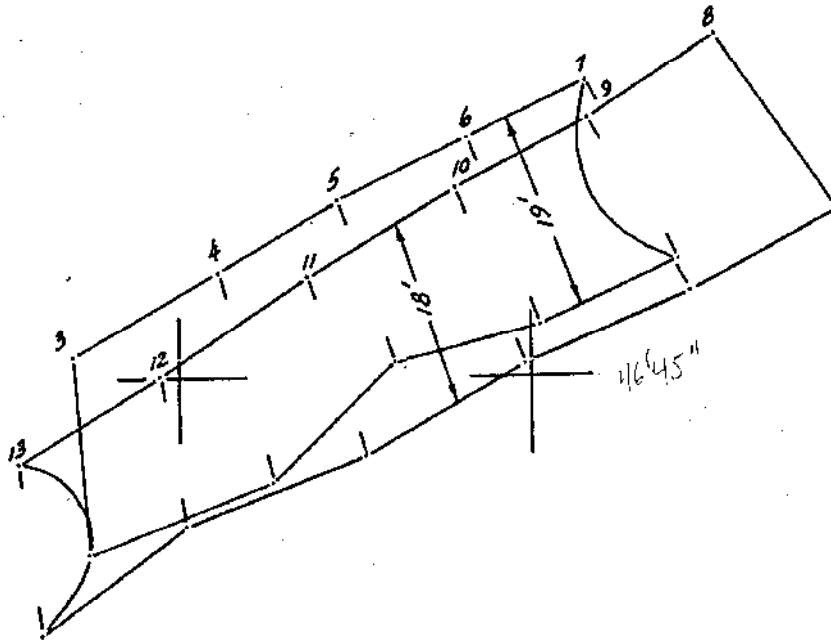
The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report.)

Examined and approved
for forwarding



William M. Martin
Supervisory Carto. Tech.
Acting Chief, Processing Div.
Pacific Marine Center

59° 47' 00"



152° 25' 30"

