8076

8076

Diag. Cht. No. 8802-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. PF-2453 Office No. H-8076

LOCALITY

State ALASKA

General locality PRIBILOF ISLANDS

Locality ST. PAUL ISLAND

1953

CHIEF OF PARTY

K. G. CROSBY

LIBRARY & ARCHIVES

DATE April -23-1954

B-1870-1 (1)

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-8076

Field No. PF-2453

State ALASKA

General locality PRIBILOF ISLANDS

Locality ST. PAUL ISLAND

Scale 1:20,000 (A) (1:10,000 (B) ~~insert~~) Date of survey 9 Aug.-14 Sep. 1953

Instructions dated 6 March 1951, 21 March 1952, 2 March 1953, 7 April 1953

Vessel USC&GSS PATHFINDER Launches 1, 2, and 3

Chief of party K. G. Crosby

Surveyed by H. D. Nygren, H. P. Demuth, B. E. Greene, L. R. Whitney

Soundings taken by fathometer, graphic recorder, ~~hand lead or wire~~

Fathograms scaled by Ship's officers Launch 1 Gunter, Launch 2 Stambaugh, Okins, Launch 3 J.L. Johnson, Riess

Fathograms checked by Ship's officers (Launch 1, 2, 3 - WFG, AOB, L. Whitney, LOK

Protracted by L. R. Whitney

Soundings penciled by L. R. Whitney

Soundings in fathoms ~~and feet~~ at ~~MLW~~ MLLW and are based on a velocity of sound of 800 fms/sec

REMARKS: The 1:20,000 shoran survey will be referred to as Survey "A" and the 1:10,000 visual survey (~~insert~~) will be referred to as Survey "B" throughout this report for clarification.

U. S. GOVERNMENT PRINTING OFFICE 16—66880-1

DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY H-8076 (Field No. PF-2453)

ST. PAUL ISLAND

PRIBILOF ISLANDS

ALASKA

Scale 1:20,000 (1:10,000 insert)

1953

USC&GSS PATHFINDER — CAPTAIN K. G. CROSBY, COMDG.

HYDROGRAPHERS — Lt. H. D. Nygren
Lt. (j.g.) H. P. Demuth
Ens. B. E. Greene
Ens. L. R. Whitney

A: PROJECT

1. Project CS-343, Bering Sea, Alaska
2. Instructions, 22/MEK, 6 March 1951
3. Supplemental Instructions, 22/MEK, 21 March 1952
4. Supplemental Instructions, 22/MEK, 2 March 1953
5. Supplemenatl Instructions, 22/MEK, 7 April 1953

B: SURVEY LIMITS AND DATES

Survey "A" (see remarks on title sheet) covers the area on the east side of St. Paul Island between latitudes 57° 10' 12"N and 57° 08' 00"N southerly along the shoreline; easterly to latitude 57° 06' 36"N, longitude 170° 10' 12"W; and then northerly and northeasterly to latitude 57° 10' 12"N, longitude 170° 04' 00"W.

Survey "B" (see remarks on title sheet) covers the area known as English Bay and Village Cove south to latitude 57° 06' 30"N, westward to longitude 170° 20' 00"W, then northward to latitude 57° 08' 00"N, longitude 170° 21' 06"W.

Field work began on 9 August 1953 and ended on 14 September 1953.

(1953) H-8119 (1954) on south

(1951-53) Survey "A" joins contemporary surveys H-8074 on the north and H-7948 on the east. Survey "B" joins contemporary survey H-7948 on the south and west. H-8119 (1954 on south, H-8120 (1954) on N.W. H-8121 (1954) on S.W.

C. VESSELS AND EQUIPMENT

Hydrography was done by the PATHFINDER launches 1,2, and 3 on Survey "A". Launches 1 and 2 did the survey on Survey "B" and launch 3 was used only for taking bottom samples.

Work done by launch 1 is identified by green position numbers and day letters, launch 2 by blue, and launch 3 by purple. Day letters were continued on Survey "B" from Survey "A". No standard turning radius was determined or used for any of the launches.

All launches operated from the ship throughout the surveys and the ship was anchored near the working area.

Echo sounding equipment consisted of 808 type graphic recording fathometers with keel-mounted acoustic units. Fathometers are numbered as follows: launch 1, No. 52-S; launch 2, No. 68-S; launch 3, No. 46-S.

D. TIDE AND CURRENT STATIONS

Tide records from a portable automatic tide gage established at Village Cove, St. Paul Island, in latitude 57° 07.5'N, longitude 170° 16.7'W were used to compute tide reducers for both surveys. No time or range corrections were applied.

No current stations were occupied within the area of either survey.

E. SMOOTH SHEET

The smooth sheet projection and the shoran arcs were made by hand in the Seattle Processing Office. For Survey "B" topographic stations were transferred from topographic sheet PF-C-53 by the use of a projector. Shoreline was transferred from a planetable survey by Fremont Morse and G. R. Putnam in 1897, Reg. No. 2295A, by the projector. and left in pencil

PF-C-53 to be destroyed

Soundings were pencilled to fathoms and tenths from 0 to 11 fathoms and to even fathoms in depths greater than 11 fathoms in accordance with amendment to Section 7714 of the Hydrographic Manual (Director's letter dated 19 January 1953).

F. CONTROL STATIONS

Previous control established in 1897, 1944, and 1951 was supplemented by additional triangulation in 1953. All control was reduced to the North American 1927 Datum.

To control hydrography the radio transmitting antennas of the shoran stations were located by triangulation for Survey "A". SHO-NUF,

1953, was established and located by Capt. K. G. Crosby; SHO-FAIR, 1951, was established and located by Capt. Charles Pierce.

All control for Survey "B" was visual. Existing triangulation was plotted on an aluminum mounted topographic sheet (scale, 1:10,000)(Pf-C-53) covering the area of this survey; topographic signals were located on this sheet by graphic methods. Stations were checked occasionally by sextant cuts or fixes.

G. SHORELINE AND TOPOGRAPHY

The shoreline for both surveys was taken from a planetable survey by Fremont Morse and G. R. Putnam in 1897, Reg. No. 2295A.

The low water line is not defined by sounding except in a few instances. This was caused by insufficient range of the tide to permit sounding closer to the shore.

H. SOUNDINGS

Soundings were measured in fathoms by 808 graphic recording fathometers calibrated for a velocity of 800 Fm/sec. Corrections for initial were scaled from the fathograms and an echo correction for each fathometer was determined from an abstract of bar checks taken daily during the progress of field work. See "FATHOMETER DESCRIPTIVE REPORT - 1953 (SHIP PATHFINDER)". filed with H-8073

All fathograms are legible and complete.

I. CONTROL OF HYDROGRAPHY

Survey "A" was controlled entirely by shoran and no difficulties were encountered except in a small area along the east shore of St. Paul Island. These occurred between Lukanin Point and Tonki Point from the shore to about 500 meters offshore. This area is in the vicinity of the baseline between SHO-NUF and SHO-FAIR. adjusted satisfactorily

Survey "B" hydrography was controlled entirely by sextant fixes using stations located by triangulation or graphic control. The control was adequate and no part of the work had to be adjusted in horizontal position except for an occasional position which had to be adjusted on time and course because of a wrong angle or weak fix. 32 positions adjusted

J. ADEQUACY OF SURVEY

The survey is complete and adequate to supersede prior surveys for charting. A small area along the shore on the west side of English Bay was not completed on Survey "B" but will be done when the inshore area west of the bay is surveyed.

Survey "A" makes satisfactory junctions with H-8074 (1953) on the north and with H-7948 (1952) on the east and south. Survey "B" makes a satisfactory junction with H-7948 on the south and west. Depth curves can be drawn satisfactorily at the junctions. H-8119 (1954) on south H-8120 (1954) on northwest H-8121 (1954) on southwest

K. CROSSLINES

Approximately 8% crosslines on Survey "A" and 9% crosslines on Survey "B" were run.

All crossings resulting from the above were satisfactory except as noted:

Survey "A"

A 2.1 fms. sounding falls on one of 1.6 fms. at 43-44b and 68b (purple), latitude 57° 09.0', longitude 170° 12.2'. This is probably caused by weak control along the shore as noted in Section I. 1.6 held

A 8.2 fms. sounding falls on one of 6.5 fms. at 14a (green) and 76-77b (purple), latitude 57° 08.46', longitude 170° 11.75'. The probable error here is attributed to the same cause as in the preceding case. 6.5 fm held slope, + weak control

Survey "B"

Poor Crossing	Probable Cause
38-40e (green) & 122-123d (blue) Lat. 57° 09.17', Long. 170° 18.9'	Weak control on "e" day due to limited number of located stations — adjusted by verifier
16d (green) & 55-56d (green) Lat. 57° 09.2', Long. 170° 18.0'	Position of 55d is questionable - poor fix — adjusted by verifier
178-179d (green) & 72d (green) Lat. 57° 08.34', Long. 170° 17.6'	~~The crossing is in area of steep slope~~ — 72d in error
70-71e (green) & 68d (blue) Lat. 57° 08.95', Long. 170° 18.84'	Irregular bottom with below average control — 70-71e in error
8e (blue) & 7e (blue) Lat. 57° 07.7', Long. 170° 16.6'	Position of 8e is questionable because of possible wrong angle. — 8e in error

L. COMPARISON WITH PRIOR SURVEYS

Comparison of soundings with the following prior surveys were made and found good:

H-2270 (1956) 1:20,000 - few differences

~~H-7948, Scale 1:40,000, 1952~~

~~H-8074, Scale 1:20,000, 1953.~~

M. COMPARISON WITH CHART

A comparison of Chart 8994, Scale 1:50,000, dated 4/6/53, and this survey was made. The following discrepancies are noted.

Location		Chart 8995	H-8076
Lat. N	Long. W	fms	fms
57° 09.1'	170° 10.5'	2	~~3.8~~ 2.9 (2.2 sm N.)
57° 08.4'	170° 13.8'	6	~~6~~ 4.9

Item 2 of the Preliminary Review of Chart 8995 notes a reported breaker in English Bay; an undeveloped 4½ fms. shoal sounding was obtained in this vicinity by the USRC BEAR in 1908 and 1909. The present survey developed this shoal and found a least depth of 4.1 fms.

N. DANGERS AND SHOALS

No new dangers or shoals were found on Survey "A". On Survey "B" a reported shoal found in 1896 (H-2278) and 1908 in English Bay was developed and a least depth of 4.1 fms. in latitude 57° 08.64', longitude 170° 18.40' was found.

O. COAST PILOT INFORMATION

See "COAST PILOT NOTES - 1953 (SHIP PATHFINDER)".

P. AIDS TO NAVIGATION

None A.Bn 314 - HONM 49 (1954)

Q. LANDMARKS FOR CHARTS

Landmarks for charts are submitted separately on Form 567, "NONFLOATING AIDS OR LANDMARKS FOR CHARTS".

R. GEOGRAPHIC NAMES

The geographic names shown on Chart 8994 are adequate and correct and no new names are recommended.

S. - Y. Not applicable.

Z. TABULATION OF APPLICABLE DATA

	NAME	DATE FORWARDED	
1.	EPI AND SHORAN DESCRIPTIVE REPORT 1953	10 December 1953	filed with H-8073
2.	FATHOMETER DESCRIPTIVE REPORT 1953	10 December 1953	filed with H-8073
3.	COAST PILOT NOTES 1953	November 1953	
4.	TRIANGULATION DATA, ST. PAUL ID. 1953	10 November 1953	
5.	TIDAL DATA, ST. PAUL ID. 1953	Aug. & Oct. 1953	
6.	TOPOGRAPHIC SHEET PF-C-53	4 March 1954	To be destroyed

Respectfully submitted,

Lawrence R. Whitney

Lawrence R. Whitney
Ensign, USC&GS

Approved and Forwarded

K. G. Crosby
Captain, USC&GS
Comdg. PATHFINDER

TIDE NOTE

HYDROGRAPHIC SURVEY H-8076 (FIELD NO. PF-2453)

SHIP PATHFINDER

CS-343

Records from the portable automatic tide gage maintained at Village Cove, St. Paul Island, Alaska, (Lat. 57° 07.5', Long. 170° 16.5') during the period of the field work were used for the reduction of soundings for tide.

MLLW on the tide staff corresponds to a reading of 3.4 feet through 16 August 1953 then to a reading of 3.1 for the remaining period of work.

Hourly heights for the reduction of soundings were scaled from the marigrams in the field.

HYDROGRAPHIC SURVEY H-8076 (FIELD NO. 2453)

SHIP PATHFINDER

CS-343

FATHOMETER CORRECTIONS

Launch No.	Day Letter	Fathometer No.	Correction (fms)
1	a - e	52	∕ 0.3
2	a - f	68	∕ 0.2
3	a - c	46	∕ 0.2

SHORAN CORRECTIONS

Day	Launch No. 1		Launch No. 2		Launch No. 3	
	FAIR	NUF	FAIR	NUF	FAIR	NUF
a	-0.017	-0.020	-0.005	∕0.010	∕0.001	∕0.011
b	-0.012	-0.013	∕0.007	∕0.005	∕0.001	∕0.009
c			∕0.006	∕0.005		

Remainder of launch days on this sheet are visual hydrography

STATISTICS FOR HYDROHRAPHIC SURVEY H-8076
(FIELD NO. PF-2453)
SHIP PATHFINDER
PROJECT CS-343

Vol.	Launch	Day	Date	Positions	Stat. Mi. Sounding
1	1	a (green)	9/7/53	52	11.3
1	1	b "	9/9/53	171	37.5
2	1	c "	9/11/53	150	24.0
2	1	d "	9/12/53	211	32.9
3	1	e "	9/14/53	92	11.7
4	2	a (blue)	8/7/53	27	8.5
4	2	b "	9/7/53	64	20.8
4	2	c "	9/9/53	107	31.3
5	2	d "	9/11/53	138	29.8
5 & 6	2	e	9/12/53	262	44.2
6	2	f "	9/14/53	148	27.1
7	3	a (purple)	9/7/53	62	18.2
7	3	b "	9/9/53	114	34.2
8	3	c "	9/12/53	55	2.5
			TOTAL	1626	325.4

Area of hydrography - 15.12 square nautical miles

LIST OF STATIONS USED
H-8076

Name Used In Hydrographic Survey	Origin of Station
BIG	PF-C-53
BOA	"
BOB	"
BUM	"
BUS	"
DUN	"
EAR	"
EAT	"
EBB	"
FRY	"
FUN	"
GAB	"
GAD	"
GAG	"
IDA	"
LION	LION, 1951
LIZ	PF-C-53
LOG	"
LOT	"
LOW	"
LUG	"
LUX	"
NOL	"
NUL	"
NUT	"
OAK	"
ODD	"
QUO	"
RAG	"
RAT	"
REV	"
RIG	"
SHED	ST. PAUL VILLAGE WATER SHED, 1951
SIN	PF-C-53
STACK	VILLAGE COVE STACK, 1951
SUB	PF-C-53
SUE	"
SUN	"
TAN	"
TAP	"
TAX	"
TEL	TELEGRAPH HILL 2, 1951
TG	PF-C-53
YES	"
ZAP	ZAPADNIE, 1897

APPROVAL SHEET

HYDROGRAPHIC SURVEY H-8076

ST. PAUL ISLAND

PRIBILOF ISLANDS

ALASKA

During the progress of this survey the boat sheets for each of the three launches were examined at the end of each day's work.

This survey is complete and adequate and no additional field work is recommended.

This survey is approved.

K. G. Crosby
Captain, USC&GS
Comdg. PATHFINDER

GEOGRAPHIC NAMES

Survey No. H-8076

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										1
Pribilof Islands									BGN	2
Bering Sea									"	3
St. Paul Island										4
Zapadni Point										5
English Bay										6
Tolstoi Point										7
Village Cove				(tide station)						8
										9
Lukanin Point										10
Lukamin Bay										11
Tonki Point										12
Halfway Point										13
										14
					Names approved 5-6-54					15
					L. Heck					16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27
									✓	M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-8076....

Records accompanying survey:

Boat sheets .....; sounding vols. ..8..; wire drag vols. .....;

bomb vols. .....; graphic recorder rolls .3 Env;

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

.....

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

Number of positions on sheet		1626
Number of positions checked		80 (5%)
Number of positions revised		32 (2%
Number of soundings revised (refers to depth only)		149 * majority less than 5 fathoms to improve flat area.
Number of soundings erroneously spaced		24
Number of signals erroneously plotted or transferred		—
Topographic details	Time	3 hrs
Junctions	Time	13 hrs
Verification of soundings from graphic record	Time	16 hrs

Verification by. Ernest E. Thomas C. R. Helmer ..Total time 114 13 hrs Date 7/20/55 8/10/55.

Reviewed by.....A. R. Stirni..... Time 61 hrs. Date 9/9/51...

M-2232-1

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8076 FIELD NO. PF-2453

Alaska, Pribilof Islands, St. Paul Island

Project No. CS-343

Surveyed, August, Sept., 1953 Scale 1:20,000 (A)
1:10,000 (B)

Soundings: Control:

808 Fathometer Shoran (A)
Sextant fixes on
shore signals (B)

Chief of Party - K. G. Crosby
Surveyed by - H. D. Nygren, H. P. DeMuth, B. E. Greene, L. R. Whitney
Protracted by - L. R. Whitney
Soundings plotted by - L. R. Whitney
Verified and inked by - E. E. Thomas
Reviewed by - A. R. Stirni 9-8-55
Inspected by - R. H. Carstens

This survey consists of two parts; survey "A" off the southeast coast of St. Paul Island and survey "B" of English Bay and vicinity.

1. Shoreline and Control

The shoreline was applied in pencil from topographic survey T-2295 (1897), principally to serve as a guide in the verification of inshore hydrography. There are no contemporary air-photographic surveys of St. Paul Island.

The source of the control is adequately described in the Descriptive Report.

2. Sounding Line Crossings

The sounding line crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The small range of tide limited the extent of inshore sounding and as a result practically all of the low-water curve and

some stretches of the one-fathom curve were not defined by soundings. The other usual depth curves were adequately delineated. Bottom configuration is fairly irregular in depths less than 6 fms. In greater depths the bottom is generally smooth.

4. Junctions with Contemporary Surveys

A satisfactory junction was effected between present survey "A" and survey H-7948 (1951-53) on the southeast and east. Junctions between "A" survey and the preliminary verification of survey H-8074 (1953) on the north and unverified survey H-8119 (1954) on the south are in harmony, however, further disposition of these junctions is deferred pending reviews of the latter surveys after complete verification.

A satisfactory junction was also effected between survey "B" and H-7948 (1951-53) on the south and southwest. Junctions between "B" survey and unverified surveys H-8119 (1954) on the south and west and H-8121 (1954) on the southwest are in harmony. Conflicting soundings in the junctions at Zapadni Pt. between "B" survey and unverified survey H-8120 (1954) will be adjusted during the verification of H-8120. Further disposition of all junctions with unverified surveys is deferred pending reviews of those surveys.

5. Comparison with Prior Surveys

H-2278 (1896), 1:20,000

The only prior survey made by this Bureau in the inshore vicinity of St. Paul Island is a reconnaissance of the seal rookeries in English Bay and Village Cove in 1896 during the progress of the triangulation survey for topographic control. Soundings on the scattered lines of the reconnaissance differ in a few instances with soundings on the present survey. The more detailed present survey entirely supersedes the prior reconnaissance.

6. Comparison with Chart 8994 (latest print date 6-21-54)

A. Hydrography

Charted hydrography originates principally with a U. S. Revenue Cutter survey of 1908-09 (Cht. Ltr. 7, 1910) (Bp. 13149) and boat sheets of the present survey (Bps. 50712-14), supplemented by partial application of the present survey before verification and review. There are numerous differences between the charted soundings and those on the present survey as exemplified at approximate lat. 57°07.5', long. 170°10'-12' where charted soundings of 11-12 fathoms fall in present survey depths of 15-18

fathoms. The present survey entirely supersedes the charted hydrography within the common area.

B. Aids to Navigation

Radio beacon 314 at lat. 57°07.4', long. 170°16.1' was not located on the present survey. The latest position is from H.O.N.M. 49 (1954), subsequent to the prior survey.

7. Condition of Survey

(a) The sounding records and Descriptive Report are complete and comprehensive.

(b) The smooth plotting was fairly accurate. Thirty-two positions were revised because of faulty plotting, faulty recording, weak fixes and adjustments necessary to make the hydrography consistent.

(c) No bottom characteristics were obtained on survey "A" (S. E. coast of St. Paul Island.)

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions except as noted under item 7c above.

9. Additional Field Work

This is a good basic survey and no additional field work is recommended. As a matter of record it is noted that no bottom characteristics were obtained in the area southeast of St. Paul Island.

Examined and Approved:

H. R. Edmonston
Chief, Nautical Chart Branch

E. R. McCarthy
Chief, Division of Charts

J. C. Bull
Chief, Hydrography Branch

Earl O. Heaton
Chief, Division of Coastal Surveys

Form 537a

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

Each Topographic and Graphic Control Sheet, and each Air Photographic Drawing should be accompanied by this form, completed so far as practicable, when forwarded to the Washington office.

REGISTRY No. .....

Field No. PF-C-53

Scale 1:10,000

State ALASKA General locality PRIBILOF ISLANDS, BERING SEA

Specific locality SOUTH COAST OF ST. PAUL ISLAND

Dates: Survey began 2 Sept 1953 Completed 11 Sept 1953

Photography....., Supplemented by ground surveys to .....

Project No. CS-343 Instructions dated 6 Mar 51, 21 Mar 52, 2 Mar 53, 7 Apr 53

Vessel / Party or PATHFINDER Chief of party K. G. Crosby

Field work by B. E. Greene Office work by .....

Final inking by P. A. Weber

Ground elevations / Treetop elevations in feet above { M. H. W. / or / ----- }

Contours / Approximate contours / Form lines by { Planetable / Multiplex / ----- } Interval ..... ft.

REMARKS .....

U. S. GOVERNMENT PRINTING OFFICE 16—88129-1

DESCRIPTIVE REPORT

To Accompany

TOPOGRAPHIC SHEET FIELD NO. PF-C-53

SOUTH COAST OF ST. PAUL ISLAND

PRIBILOF ISLANDS

ALASKA

SCALE: 1:10,000

1953

USC&GSS PATHFINDER — K. G. CROSBY, COMDG.

B. E. GREENE — TOPOGRAPHER

PROJECT

1. Project CS-343, Bering Sea, Alaska
2. Instructions, 22/MEK, 6 March 1951
3. Supplemental Instructions, 22/MEK, 21 March 1952
4. Supplemental Instructions, 22/MEK, 2 March 1953
5. Supplemental Instructions, 22/MEK, 7 April 1953

TYPE OF SURVEY

The purpose of this survey was the location of signals by graphic control methods for hydrography. No shoreline is shown on this sheet.

SURVEY LIMITS

This sheet covers the south shore of St. Paul Island from Sealion Rock, latitude 57°06.2' longitude 170°17.6', to Zapadni Point, latitude 57°08.7' longitude 170°20.8'.

CONTROL

Control for this survey was furnished by triangulation on NA 1927 Datum. There are no marked topographic stations.

SURVEY METHODS

Standard topographic methods were used throughout.

LANDMARKS FOR CHARTS

There are no new landmarks for charts in this area.

GEOGRAPHIC NAMES

There are no new geographic names on this sheet.

ADEQUACY OF SURVEY

This survey was for location of signals for hydrography and is considered adequate for this purpose.

STATISTICS

Signals were located along 7.1 statute miles of shoreline.

Respectfully submitted,
Philip A. Weber
Philip A. Weber
Comdr., USC&GS

Approved and Forwarded:
K. G. Crosby
K. G. Crosby
Capt., USC&GS
Comdg. PATHFINDER

RHC

Form 719
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

[illegible] 28 April 1954

Division of Charts: R. H. Carstens

Plane of reference approved in 8
volumes of sounding records for

HYDROGRAPHIC SHEET 8076

Locality Pribilof Island, Alaska

Chief of Party: K. G. Crosby in 1953
Plane of reference is mean lower low water, reading
3.1 ft. on tide staff at Village Cove, St. Paul Island
9.5 ft. below B. M. 2 (1946)

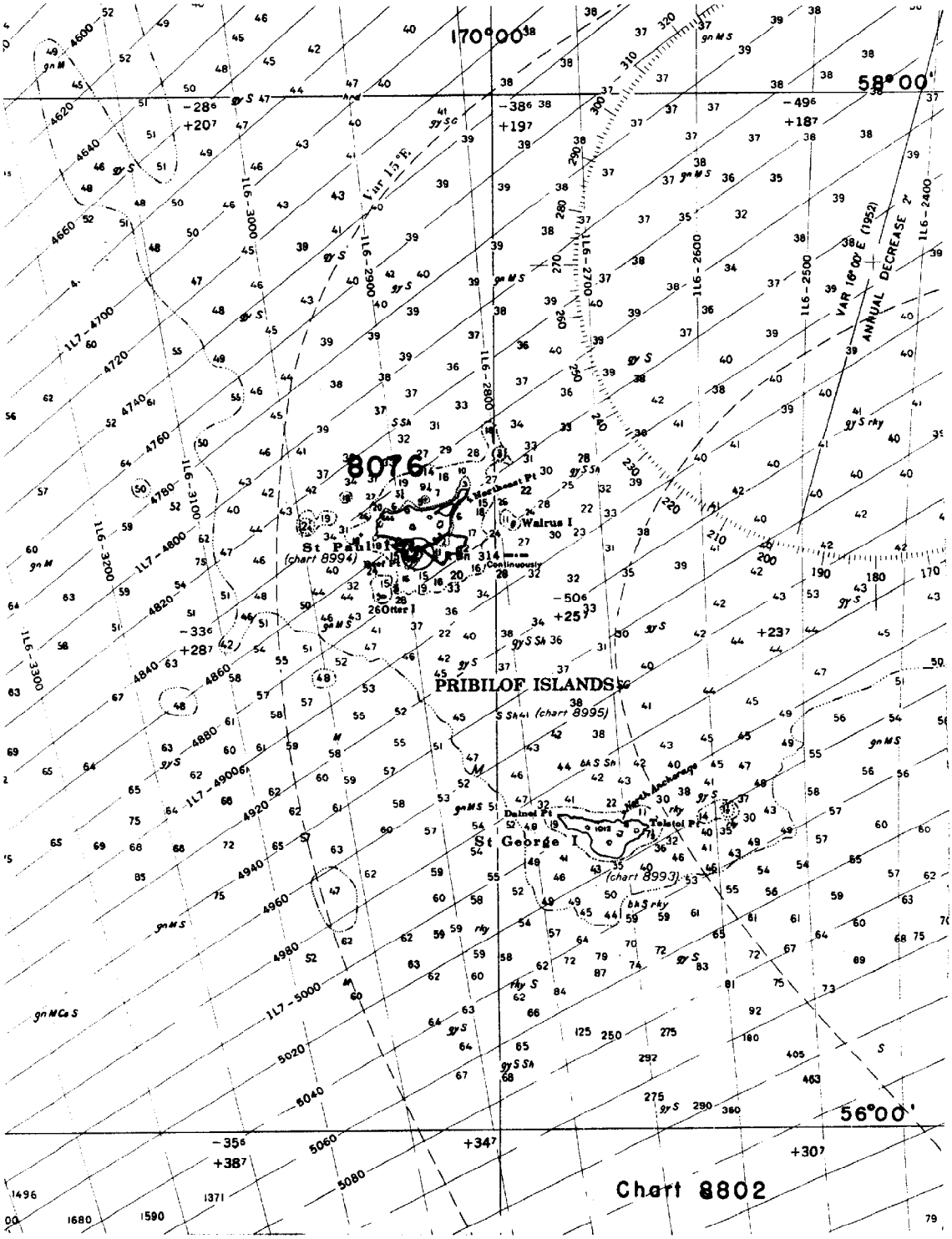
Height of mean high water above plane of reference is 3.0 feet.

Condition of records satisfactory except as noted below:

E.C. McKay

Chief, Division of Tides and Currents.

U. S. GOVERNMENT PRINTING OFFICE 877933


170°00'
58°00'
56°00'
VAR 15° E
VAR 16° 00' E (1952)
ANNUAL DECREASE 2'
St Paul I
(chart 8994)
Walrus I
Otter I
PRIBILOF ISLANDS
(chart 8995)
St George I
(chart 8993)
Chart 8802

NAUTICAL CHARTS BRANCH

SURVEY NO. H8076

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/23/54	8994	H.W. Burgoyne	Before ~~After~~ Verification and Review Partial application
Nov. '54	8995	C.R.W.	Before ~~After~~ Verification and Review Applied thru Ltr. 50712-14
Oct. 54	930 v	G.H.E.	Before After Verification and Review
	880 v	GHE Thru 8995	Before ~~After~~ Verification and Review
4-13-59	8994	R.K. DeLaunder	~~Before~~ After Verification and Review
9 Jan 61	8995	Nicholls	~~Before~~ After Verification and Review Thru Dwg 4 Chart 8994
10 Jan 61	880 v	"	~~Before~~ After Verification and Review Thru 8995
"	930 v	"	~~Before~~ After Verification and Review Thru 880 v
1 Feb 61	9000	H.W. Burgoyne	~~Before~~ After Verification and Review 3MG Thru 930 v
25 Sept 75	16382	Robert A. Hoover	~~Before~~ After Verification and Review
	Inset		

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.