

	·
Form 504	
Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	
U.S. COAST AND GEODETIC SURVEY R.S.Patton, Director	'
State at 1 Squit, Divector	
State: Alaska	· <u> </u>
DESCRIPTIVE REPORT	
	,
Topographic Sheet No. 4536	
Hydrographic 4536	
	l ·
LOCALITY	
Sumner Strait and Duncan Canal	
Summer Strain and Dancar Odijai	
Mitchell Pt to Beecher Pass	
	,
	1
 :	
1929_	
10.2.2	
. ———	
CHIEF OF PARTY	
E M E alcalhana	
E.W.Eickelberg	-
U. S. GOVERNMENT PRINTING OFFICE: 1996	
***	j

Chart 8/60 Extension telly app's 2-3-70 H. Rodde

j		•
		,
		*
		
)		
	DESCRIPTIVE_REPORT	
i		
i	TO ACCOMPANY	
ļ		
1	TOPOGRAPHIC SHEET "H" 4536	
	DUNCAN CANAL - S. E. ALASKA	
	U. S. C. & G. S. EXPLORER	₩ 0, •
i	E. W. EICKELBERG, COMDG.	
	1929.	* • * · · · · · · · · · · · · · · · · ·
ļ		
ļ		
Ì		
Į		

DESCRIPTIVE REPORT

TO ACCOMPANY SHEET "H"

DUNCAN CANAL - S. E. ALASKA

AUTHORITY: Work was done under Director's instructions, dated February 19th, 1929 - Project No. 28.

LIMITS: The south-west end of sheet begins at Point Mitchell, Sumner Straits (133° 12.6′-56° 26.7′) and extends north-east up Duncan Canal to (133° 06.1′-56° 37.1′) on the west shore and (133° 04.4′-56° 34.8′) on the east shore, which point joins Topographic Sheet "C", 1929. At the south-east corner, the sheet joins Revision Topographic sheet "D", 1929 at (133° 00.6′-56° 30.8′) on the south end of Woewodski Island. The various islands lying north and west of Level Islands and White Rock are included in the sheet.

GENERAL DESCRIPTION: All the shore on this sheet is rocky, with either rock ledges or boulders between high and low water. The peaks, which rise to heights of six to nine hundred feet on the east side of Duncan Canal (Woewodski Island) are of gentle slope and are heavily wooded throughout. Just north of Mitchell Point (Kupreanof Island) the land is flat, heavily wooded, gradually sloping up to ten to sixteen hundred feet as one goes north up the Canal. White Rock is picked up first from the south and east. Level Islands show prominently from all directions. Lung Island, directly at south entrance to Canal, looms up clearly.

LANDMARKS: Besides White Rock and Level Islands the only noticeable landmark is the tailings of a mine located on the east shore in Latitude 56° 31.9' and Longitude 131° 02.8'. This is of light brown color about 80 feet above high water in a clearing in the woods.

CONTROL: The main control was a scheme of third order triangulation extending from Level Islands up Duncan Canal to Latitude 56° 38'. Control up Little Duncan was plane table graphic triangulation. Traverses were run between triangulation stations. Due to close triangulation control, much of the shore line was run in from set ups at triangulation stations.

CLOSING ERRORS: About the islands and between triangulation stations, traverses were run according to Topographic Manual. Closing errors of traverses run are as follows:

(The following stations are all triangulation stations)

LAST	to	MITCHEI	L 2	Distance	4735	meters	_	Error	22	m.
KAH	to	NEXT		•				t#	0	m.
BIG	to	LOUISE						17	0	m.
BIG	to	LEVEL		Distance	2600	meters	-	?	11	m.
LEVEL	to	LOUISE		Ħ	4650	17	_	12	29	m.
.1		٠.,	Rerun	7	4650	17	_	Ħ	18	m.

NEW	to	LUNG	·	Error	0 m.
LUNG	to	NEW		Ħ	0 m.
HOPE	to	SOUTH	,	Ħ	0 m.
SAW	to	BAY	Distance 3240 meters -	Ħ	13 m.
BAY	to	SAW	# 3930 # -	11	16 m.

All traverses were run and checked within the limits prescribed in the Topographic Manual, and were adjusted by standard methods as described in the Manual.

LOCATION OF OFF LYING FRATURES:

Reefs and rocks were located by rod readings.

Signals REF and OUT were located by directional cuts.

Pile (submerged) at Kah Sheets Bay, was located by cuts.

Rock south of White Rock was located by cuts.

Two rocks south of station OUT were located by directional

Two rocks south of station OUT were located by directional cuts.

NEW NAMES: Two islands, shown on previous charts, but not named, were given the names Baby Island and Butterworth Island, both names being in local use.

PLANE TABLE POSITION: A list of plane table positions of signals and objects on sheet is made a part of this report.

MARSHES: The only marsh encountered is at the north-west corner of Kah Sheets Bay. There is about two feet of water on the grass at high tide. At low tide the marsh is dry and the mud flats extend about .9 mile to the south-east.

MAGNETIC OBSERVATIONS: Magnetic Observations were made at triangulation stations LIMIT, CAMP - CENTER and LOUISE. Comparison with declinometer No. 12 was made at stations CAMP and LOUISE, and corrections indicated on sheet.

Respectfully submitted,

Philip C. Doran, Jr. H. & G. Engr.

CONNECTIONS. TO OLD WORK:

Connection was made to old topographic sheet at station JAN, both by Sheet "H", and also revision Sheet "D-1929". All sheets joined correctly. Form lines joined and checked old sheets in proper manner. Junction with topographic sheet "G", 1929, was made at station POINT.

ANCHORAGE:

Small fishing boats anchored in Kah Sheets Bay just off triangulation station BAY.

APPROVAL SHEET TO ACCOMPANY TOPOGRAPHIC SHEET "H"

This sheet has been examined and is approved.

The names of Butterworth Island and Baby Island
were obtained from Mr. E. E. Harvey who has been a resident
in Duncan Canal for the past twenty-five years.

E. W. Eickelberg, Commanding Officer,

U.S.C. & G.S.S. EXPLORER.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

		-			Ketchike	n, Ala	eka	· · · · · · · · · · · · · · · · · · ·
				_		pril 1	7.	, 19 3 0
IRECTOR, U. S. COAST AND					•	-		_
The following determinescription given below, an	ned objects a	re promine	at, can	be	readily di	stinguišl	ed from s	eaward from the
scription given betow, an	ia shoula, be	charted.					. EICKEL	
		T.4531	<u></u>					Chief of Party.
			POSIT	ION				
DESCRIPTION	Latitude		Longitude			Datum	METHOD OF DETER- MINATION	CHARTS AFFECTED
		D. M. meters	•	,	D. P. Meters]		
		3 3 3 3 4 4			222		Plane-	03.40
line tailing	56 3	1 1760	133	02	880	N.A.	table	8160
					<u> </u>			
							 	
							,	
			<u></u> -		- -	<u>}</u>	!	
			ļ. <u> </u>	.—-				
			ĺ			ĺ	j	
			-				1	
								·
and the same of th	}			İ				
,				-				****
,	-			·				10
			· ·					
							1.4	
					-	,		
		-						

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

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

Field No. "H"

	REGISTER NO. 4536
State	ALASKA
General locality	SUMMER STRAIT AND DUNCAN CANAL
Locality MITO	HELL POINT - DUNGAN CANAL TO BEECHER PASS
Scale 1:20,000	Date of survey July-AugSeptember1929
Vessel	EXPLORER
Chief of Party	E. W. EICKELBERG
Surveyed by	P. C. DORAN
Inked by	P. C. DORAN
Heights in feet abo	ve_M.H.W. to ground ************************************
CONTOUR, XAPPEOXICA	**************************************
Instructions dated	February 19 1929
Remarks:	•
	,