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Form 504 Rev. Dec. 1933	
DEPARTMENT OF COMMERCE U.S. COAST AND GEODETIC SURVEY R. S. PATTON, DIRECTOR	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. T-6699
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES MAR 14 1940 Acc. No. _____	
State S.W. ALASKA	
LOCALITY CHERNABURA ISLAND	
SANDMAN REEFS Hoque R., Cherni L. & vicinity S. W. ALASKA	
1939	
CHIEF OF PARTY G. C. Jones	

Applied to CAT 8701 - June 1940 - O.K.S. ✓  
" " " 8860 July " O.K.S. ✓  
" " " 8802 Nov. " J.M.A.  
" " " 8705 June 1942 H.T.N.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. G-39

REGISTER NO. T-6699

State S.W. Alaska

General locality Sandman Reefs

Locality Hague Rk., Cherni Id., & vicinity  
Cherni Id., Hague Rk., & Small Ids. to Northward

Scale 1: 20,000 Date of survey June, 1939

Vessel DISCOVERER

Chief of party G. C. Jones

Surveyed by P. C. Doran

Inked by P. C. Doran

Heights in feet above MHW to ground to tops of features

~~Contours, approximate contours~~ Form line interval 50 feet

Instructions dated March 18, 1938, 1939  
April 6, 1939

Remarks: \_\_\_\_\_



## DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET G-39 (T-6699)

<sup>I</sup>  
CHERNABURA ISLAND, SANDMAN REEFS, S. W. ALASKA  
(see page 7)

### AUTHORITY

Work on this sheet, part of Project HT-219, was done under instructions dated March 18, 1938 and supplemental instructions of April 6, 1939.

### LIMITS

The area covered by the projection on this sheet lies between Latitudes  $54^{\circ} 37.1' N$  and  $54^{\circ} 45.3' N$  and Longitudes  $162^{\circ} 19' W$  and  $162^{\circ} 30' W$ .

A small insert covers the area at HAGUE ROCK, Latitude  $54^{\circ} 33' 09'' N$  and Longitude  $162^{\circ} 24' 04'' W$ .

This sheet includes CHERNABURA ISLAND, the largest island of the Sandman Reefs Group, and the numerous small islands in its immediate vicinity; four fair sized islands to the north and west of Chernabura (each of three of these islands have one of the following Triangulation Stations: DAY-1936, SAN-1936, and TOP-1936) and two low rock islands just to the north and east of Chernabura.

At the north end this sheet joins sheet F-39 (T-6698) at



the 54° 45' N parallel. ✓

Sheet K-39 (T-6702) joins this sheet to the east at the  
162° 19' W Meridian. ✓

#### GENERAL DESCRIPTION

The islands covered by this sheet are treeless. The larger islands are grass covered, as shown on sheet, while the smaller ones are bare rock. ✓

CHERNABURA is a large, grass-covered island showing as low rolling country at the north end and gradually rising to two sharp tips near the southerly end. As these points are only 162 feet in height, they can hardly be called peaks, but are noticable from offshore. A small house, Station GAB, is used by Axel Bendixen, lessee of the island, on his infrequent trips to the island from his home at King Cove. Mr. Bendixen has blue fox on the island, and about 12 head of cattle. A bare rock cliff rising to a height of about 90 feet forms the southwest side of the island. This high ground extends in a line with the cliff far into the interior of the island, forming the east side of a low valley which almost divides the island into two parts. ✓

A hydrographic party camp was established near Station CAMP. Fair protection for the motor sailer was had from storms from all directions except S. W. Water was found at a little spring back of camp. No water was found near the house at the north end. Years ago there was a well which supplied enough water for the house, but that has fallen into disuse. ✓

A very good anchorage was found at the north end of the island at Signal US. The HELIANTHUS anchored here for practically all the month of June, while working on this sheet, and whenever a storm ✓

came up during the work on the sheet adjoining to the east. Violent winds from the NW to NE caused but slight swells at this anchorage, at high tide only, due to the protection of the islands and extensive reefs to the northwest and northeast. The hydro party ran their motor sailer in here when a violent storm from the SW made it unsafe for the boat at their camp. Mr. Bendixen reports that he has kept his small boat here during the winter when the storms are particularly violent and frequent. We always approached the anchorage from the north, skirting the reef and kelp to the east of NA, and passing south between Signals GEN, island on the west and QUE, 3 foot bare rocks, to the east. Anchorage was just south of east of Station VIM (signal on small but tall grass-covered islet) midway between islet and rock ledge to the east.

#### LANIMARKS

The sharp tit on which CHER-1936 is located, the northeasterly one of two of equal height (162 feet and 115 meters apart) should be shown on the charts of this area as it shows well from all directions.

#### CONTROL

Five good Second Order Triangulation Stations, DAY-1936, SAN-1936, TOP-1936, NA-1936, and CHER-1936 were recovered and furnished excellent basic control for this sheet. Station MIDWAY<sub>2</sub>, 1936 was used for the survey of Hague Rock, as shown in the insert.

These stations are on the Unalaska Datum, unadjusted field computations.

#### TRAVERSES

No traverses were run on this sheet as everything was located by direct cuts from Triangulation Stations, resections, and independent



plane table setups. ✓

#### AUXILIARY METHODS

Standard plane table methods of cuts, resections and direct rod readings were used throughout this sheet. Rocks along the shore were located by direct rod readings, while the offlying reefs were located by cuts from various triangulation stations with check cuts from numerous other setups. ✓

#### FORM LINES

Form lines, interval of 50 feet, were drawn for all the islands on this sheet, and were checked from offshore. ✓

#### REVISION WORK

As this is an original survey of this area, no revision work was done. ✓

#### COMPLETENESS

This sheet is complete as it stands, covering the entire area of the projection. ✓

#### PROCEDURE

Standard practice was used throughout this sheet. ✓

#### JUNCTION

This sheet joins sheet F-39 (T-6698) to the north at  $54^{\circ} 45' N$  parallel. There is no shore line junction there. ✓

To the east a junction is made with sheet K-39 (T-6702) along the  $162^{\circ} 19' W$  meridian. A rock, bare 2 feet at MLL water, at  $54^{\circ} 41.7' N$  and  $162^{\circ} 19.2' W$ , is shown on both sheets, with good agreement as to position. ✓

INSERTS

The two small inserts were made to take care of the topography in the vicinity of HAGUE ROCK. As this small island is over four miles from its nearest neighbor, it was thought that it would be more economical to use an insert on this sheet than to make a new projection for such a small amount of topography.

Insert showing Cher-1936 not  
necessary on completed sheet.  
Removed.

CHER-1936 ( $54^{\circ} 37'$  - 1607.5 m and  $162^{\circ} 22'$  - 113.9 m.) and MIDWAY - 2 -1936 (the triangulation station on HAGUE ROCK;  $54^{\circ} 33'$  - 303.9m and  $162^{\circ} 24'$  - 86.0 m) were plotted 5' north and 1' west of their true positions. This shift in position was not great enough to cause any correction to be needed in a north - south direction. A slight correction of 4.4 meters was needed in an east - west direction. This number was arrived at by plotting CHER 113.9 m west of meridian used as origin. MIDWAY 2 should then be plotted 2' and 86.0 m to the west of this origin. 2' at  $54^{\circ} 33'$  is 2157.0 meters, while at  $54^{\circ} 38'$  (where station is being plotted) 2' is 2152.6 meters, a difference of 4.4 meters. Hence to plot MIDWAY - 2 on projection at  $54^{\circ} 38'$ , 4.4 meters were added to the 86.8 making it 90.4 meters west of the meridian as shown. This plotting gave the true relation between CHER and MIDWAY - 2. A setup was made at MIDWAY - 2 and orientation made on CHER. Standard methods were then used in the delineation of the topography.

4.4 meters negligible on  
1-20,000 scale. Disregard.

NAMES

<sup>1</sup>  
CHERNABURA ISLAND and HAGUE ROCK are named as such on the present Coast and Geodetic Survey charts of this vicinity. As explained in descriptive report for sheet J-39, the local names for the small islands are to be secured this next season.

T-6701 (1939)



PLANE TABLE POSITIONS

A list of plane table positions of prominent objects and recoverable stations is furnished. Although many of these objects are described on regular Form 524, it was thought that a grouping in a list would not be amiss.

DISTORTION

A 24" x 31" aluminum mounted sheet was used, and no distortion was noticed at any time. ✓

MAGNETIC OBSERVATIONS

Magnetic observations were made at Triangulation Stations DAY, TOP, NA, MIDWAY<sub>2</sub>, CHER with Declinatoire No. 161. At the end of the season, CHER was occupied with the new transit magnetometer No. 38976. The scaled values of declination were:

DAY-1936	18-50 E
TOP-1936	19-30 E
NA -1936	16-38 E
MIDWAY <sub>2</sub> -1936	16-18 E
CHER-1936	17-39 E

The uncorrected value at CHER as determined with the transit magnetometer was 17-41 E. ✓

STATISTICS

Statute Miles of Shore Line- - - - - 18.0

Area Surveyed, Square Statute Miles- - - - - 1.33\* ✓

\*This covers the land area only of the islands. The sheet in its entirety covers all the land and visible dangers in an area of about 48 square nautical miles.

NOTE

In all the topographic reports and triangulation recovery notes covering the vicinity of Sandman Reefs, I have used the name "CHERNABURA" for the largest island in the group. This is the name given in the Coast Pilot, Alaska Part 2, page 302. I noticed, however, that the chart 8860, corrected to July 26, 1939, showed the same island as "CHERNI".

It appears that this change in name may have been to avoid confusion with "CHERNABURA ISLAND", the most southerly of the Shumagin Islands as mentioned in the Coast Pilot, page 262. If CHERNI Island is now the official name of this island, it is requested that it be substituted wherever CHERNABURA appears in the reports and notes.

25  
✓  
25  
Cherni Id  
is topographic  
Board decision  
✓  
25

Respectfully submitted

*Philip C. Doran*

Philip C. Doran  
H. & G. Engineer  
Ship DISCOVERER

APPROVED and FORWARDED

*Geo. L. Bean*

Geo. L. Bean  
H. & G. Engineer  
Commanding DISCOVERER



## PLANE TABLE POSITIONS

OBJECT & DESCRIPTION	LAT.	D.M.	LONG.	D.P.	HEIGHT	REMARKS
RUPE, Hydro Disc., Crossed banner	54-41	285	162-19	175	10	Described on Form 524
PERT, Hydro Disc., Crossed banner	54-39	1684	162-19	178	15	"
WEST, Hydro Disc., Crossed Banner	54-37	862	162-24	520	31	"
SOUTH, Hydro Disc., Crossed Banner	54-37	767	162-22	543	20	"
EAST, Hydro Disc., Whitewash & banner	54-37	474	162-20	48	31	"
WALL, Hydro Disc., Tripod over mark	54-39	452	162-21	598	54	"
RAN, highest point grassy island	54-37	737	162-20	1042	66	1650 m E of South end Chernabura Id.
VIM, flag on highest point of small id.	54-39	223	162-22	357	23	1150 m S of Tri. Sta. NA-1936
BEE, column of rock, whitewash	54-38	999	162-22	624	18	Entrance to lagoon
IMP, highest point-- castle-like rock	54-38	899	162-21	125	20	1500m E of S of Signal WALL
ANDY, whitewashed rock	54-39	529	162-24	247	15	Crossed banner on whitewash
GAP, whitewashed rock	54-38	198	162-24	420	8	Crossed banner on whitewash



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEYTO BE CHARTED  
~~NO BE CHARTED~~

STRIKE OUT ONE

## LANDMARKS FOR CHARTS

Aberdeen, Washington

February 19, 1934

I recommend that the following objects which have ~~(unexamined)~~ been inspected from seaward to determine their value as landmarks, be charted on ~~(unexamined)~~ the charts indicated.  
The positions given have been checked after listing.

Geo. L. Ben

Geo. L. Ben

Chief of Party.

GENERAL LOCALITY		NAME AND DESCRIPTION		POSITION				METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED	
				LATITUDE		LONGITUDE								
				°	'	D. M. METERS	°							'
Deer Island 34 Alaska Sandman Rocks		PEAK, the northeasterly of two sharp points of equal height-- (100 ft.) on Chert Island. Triangulation Station 924-1939.		54 37		1607.5	108 03	113.9	Unalaska	Tri.	1936			8700 8702 8705
		PEAK, sharp pyramidal, southerly end Deer Island. Height 1005 feet. Triangulation Station 924-1939.		54 31		1107	108 17	205	"	"	1939	X	X	8700 8703
		CLIFF, gray landslide extending from S.W. (T-6700) up east side of "PEAK" above mentioned, to very near the top.		54 31		1114	108 16	430	"	Topographic	1939 (T-6700) 1939	X		8763
		PEAK, conical, Deer Id. Ht. 1005 ft.		54 34		1152	102 16	713	"	Triangulation	1939	X	X	8760 8703 8900
		PEAK, sharp, Deer Id., Height 1030'		54 31		88	102 19	73	"	Triangulation	1939	X	X	8763
		PEAK, sharp, " " " 1700'		54 30		680	102 10	471	"	Top. Sheet U.S. (T-6702)	1939	X	X	8760 8703 8905
		PEAK, rounded knob, highest point on Goose Id., 101 feet high. (Ht. Sheet E-39 (T-6702))		54 41		233	102 15	590	"	Topographic	1939	X	X	8860 8902 8905
		(A) Datum is Unalaska, Unadjusted Field Computations		(A)		Datum is	Unalaska,	Unadjusted	Field Computations					

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.



## Remarks

## Decisions

1		545620 USGB.
2		"
3	For title	
4	Submitted to Board per G.N. 43,1940 (4 rocks)	
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## GEOGRAPHIC NAMES

Survey No.

T6699

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	
<u>Hague Rock</u>										1
<u>Cherni Island</u>										2
<u>Sandman Reefs</u>										3
<u>Clubbing Rocks.</u>										4
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Names underlined in red approved

by L. Heck on 5/17/40

Also 7/9/42



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

~~March 14, 1940~~  
~~March 18, 1940~~

No. T T6699

received March 14, 1940  
registered March 18, 1940  
verified  
reviewed  
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22	✓	ZMR	
24			
25	✓	HBL	Pages 2, 3 and 7.
26			
30			
40	✓	sub	Page 6 P.W.
62			
63			
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83			
88			
90			

RETURN TO

82	T. B. Reed
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✓ ZMR

DIVISION OF CHARTS

SURVEYS SECTION

REVIEW OF TOPOGRAPHIC SURVEY NO. 6699 (1939) FIELD NO. G-39

S. W. Alaska, Sandman Reefs, Hague Rock,  
Cherni Island and Vicinity  
Surveyed in June 1939, Scale 1:20,000  
Instructions dated March 18, 1938;  
April 6, 1939 (DISCOVERER)

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Jones  
Surveyed and inked by - P. C. Doran  
Reviewed by - J. A. McCormick, August 23, 1941  
Inspected by - H. R. Edmonston

1. Adjoining Surveys

The present survey covers a group of rocks and islands and has only one feature in common with either of the adjoining surveys. The rock awash in Lat.  $54^{\circ} 41.8'$ , Long.  $162^{\circ} 19.2'$  is in perfect agreement with the position determined on T-6702 (1939) on the east. T-6698 (1939) adjoins on the north.

2. Previous Surveys

The Coast and Geodetic Survey has made no previous surveys of this area.

3. Chart 8860 (New Print of November 25, 1940)

Previous topographic information has been entirely expunged from the latest prints and results of the present survey added.

4. Condition of Survey

Lack of uniformity in field inking of rock and reef notes necessitated office re-inking of all such information.

5. Compliance with Project Instructions

Satisfactory.

6. Additional Field Work Recommended

None.



Examined and Approved:

*Thos B Reed*

Chief, Surveys Section

*J. S. Borden*

Chief, Division of Charts

*L P Raynor*

Chief, Section of Hydrography

*G. H. Hulse*

Chief, Division of Coastal  
Surveys