

6894a-b

~~CONFIDENTIAL~~

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic ~~CONFIDENTIAL~~  
C-42 T-6894 a  
Field No. D-42 Office No. T-6894 b

LOCALITY

State Alaska  
General locality Southwest Alaska  
Locality East end of Sandman Reefs

Pinnacle Rock

1942

CHIEF OF PARTY

G. C. Mattison

LIBRARY & ARCHIVES

DATE MAY 22 1943

B-1870-1 (1)

6894a-b

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DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

T6894a

CONFIDENTIAL

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. C-42

REGISTER NO. T-6894a

State Alaska ~~CONFIDENTIAL~~

General locality Southwest Alaska

Locality East end of Sandman Reefs Pinnacle Rock

Scale 1-20,000 Date of survey August-September, 1942

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

Chief of party G. C. Mattison

Surveyed by H. S. Cole

Inked by H. S. Cole

Heights in feet above MHW to ground ~~to tops of trees~~

~~Contour~~, Approximate contour, Form line interval - feet

Instructions dated March 15, 1938, supp. June 29, 19 42

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



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

T6894b

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. D - 42

REGISTER NO.

T-6894b

~~CONFIDENTIAL~~

State Alaska

General locality Southwest Alaska

Locality East end of Sandman Reefs Pinnacle Rock

Scale 1=20,000 Date of survey August-September, 19 42

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

Chief of party G. C. Mattison

Surveyed by H. S. Cole

Inked by H. S. Cole

Heights in feet above MHW to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval    feet

Instructions dated March 18, 1938, supp. June 29, 19 42

Remarks:

~~CONFIDENTIAL~~

Descriptive Report

to accompany

Topographic Sheets

C-42 and D-42

T6884 a-b

INSTRUCTIONS DATED: March 18, 1938, supp. June 29, 1942

PROJECT: HT-219

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

G. C. Mattison, Commanding

GENERAL DESCRIPTION:

The area covered by these sheets is on the eastern edge of the Sandman Reefs, and is comprised of detached islands and rocks. All of the islands surveyed on these sheets are uninhabited except by birds, sea lions, and occasionally sea otters; and they are bare rocks with only a sprig of grass here and there. The large island to the southward of SCOT is inhabited by a sizeable colony of sea lions. ✓

LANDMARKS:

The islands and rocks are their own landmarks. No special list is necessary except to mention that the rock on which SCOT is located is the most prominent island on both sheets. It is called Pinnacle RK. on existing charts. ✓

CHARACTER OF CONTROL USED:

The control is from triangulation executed in 1940 with reference to the Unalaska Datum. ✓

SUPPLEMENTAL SETUPS:

No traverses were run. Setups at other than signals or triangulation stations were located by rod readings checked by resection or by resection checked by a second station. ✓

COMPARISON WITH PREVIOUS SURVEYS:

No previous detailed surveys have been made of this area. ✓



GEOGRAPHICAL NAMES:

Inquiry of local residents at settlements in this area revealed that there are no local names for the islands and rocks shown on these sheets except that the island on which SCOT is located was called Pinnacle Rock. This is in agreement with existing charts. LH 10/13/41

AUXILIARY SURVEYING METHODS:

C-42 T-6894a (1942)

Heavy swells made it impossible to land topographic gear on the islands at signals LOW and PUP. The shoreline at these places was located by cuts on the tangents and sextant cuts. ✓

The rock at Lat.  $54^{\circ} 51' 34''$ , Long.  $161^{\circ} 50' 75''$  was located by a combination of topographic and sextant cuts. This was necessary because the rock could not be identified at enough topographic stations. ✓

The sunken rocks shown at Lat.  $54^{\circ} 49' 50''$ , Long.  $161^{\circ} 42' 95''$  120 meters NE of signal LOW, and about 330 meters East of SCOT were located by sextant cuts. They were not visible at the time the topography was done.

The rocks at Lat.  $54^{\circ} 49' 53''$ , Long.  $161^{\circ} 50' 98''$  were located by sextant cuts and checked by topographic cuts. ✓

Removed from sheet H-6769 (1942) shows deep water at topo position with  $1\frac{1}{2}$  fms. 150 m. south. No hydro in vicinity of others. ✓

D-42 T-6894b (1942)

Signal FAR was located by the intersection of three topographic cuts. It was not occupied due to heavy swells, or rough seas. ✓

LIST OF PLANETABLE POSITIONS

See forms 524 inclosed. Filed.

STATISTICS

Statute miles of shoreline  
Area in square statute miles

T-6894a  
C-42

T-6894b  
D-42

3.0

0.05

0.5

-

Respectfully submitted,

Ensign Howard S. Cole

Approved and forwarded:

Commander G. C. Mattison,  
Chief of Party

APPROVAL BY CHIEF OF PARTY

T-6894a T-6894b

Sheets C-42 and D-42 have been inspected and approved by me. The field work was performed under my occasional supervision. No additional work is considered necessary. ✓

Commander G. C. Mattison, Chief of Party

## PLANETABLE POSITIONS

C-42

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T5894a-b

Scaled by H. S. C.

Checked G. R. S.

Station	Latitude	Meters	Longitude	Meters
MOPT	54° 48'	1237 (618)	161° 48'	1026 (46)
SHAG	54° 47'	891 (964)	161° 46'	1012 (60)
PUP	54° 45'	1222 (633)	161° 48'	352 (720)
BREAK	54° 45'	1393 (462)	161° 42'	823 (250)
LOW	54° 47'	401 (1454)	161° 44'	510 (562)
TWIN	54° 49'	843 (1012)	161° 42'	803 (269)

## PLANETABLE POSITION

D - 42

FAR	54° 46'	732 (1123)	161° 38'	657 (416)
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## Remarks

## Decisions

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# GEOGRAPHIC NAMES

Survey No. T 6894

~~CONFIDENTIAL~~

Name on Survey

	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List	
A,	B,	C,	D	E	F	G	H	K	
<del>Alaska</del>									1
<del>Southwest</del>									2
<del>South West Alaska</del>									3
<u>Sandman Reefs</u>									4
<u>Pinnacle Rock</u>									5
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Names underlined in red approved  
by L. Heck on 10/23/44



# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
PHOTOSTAT OF

No. H **CONFIDENTIAL**  
No. T **T8894**<sub>a-b</sub>

received May 29, 1943  
registered June 4, 1943  
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
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RETURN TO

82	R.W.Knox
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*V.R.H.C.*

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6894a&b

Field No. C-42

D-42

Southwest Alaska; Sandman Reefs; Pinnacle Rock  
Surveyed August - September 1942, Scale 1:20,000  
Project H. T. 219

Plane Table Survey

Aluminum Mounted

Chief of Party - G. C. Mattison  
Surveyed and inked by - H. S. Cole  
Reviewed by - J. A. McCormick, April 19, 1944  
Inspected by - H. R. Edmonston

1. Adjoining Surveys

The survey covers a series of detached rocks and islets and makes no overlaps with other surveys in the area.

2. Previous Surveys

In Lat.  $54^{\circ}45.7'$ , Long.  $161^{\circ}48.3'$  sextant cuts on H-6586 (1940) determined a position for a rock awash. The present survey does not show a rock awash at the 1940 position but does show a bare rock (elevation 5 feet) 100 meters to the south and a rock bearing 4 feet at MLLW 200 meters to the south. The rock on H-6586 can be disregarded. Other rocks in the area had not previously been included on any of the surveys of this Bureau.

3. Comparison with Chart 8703 (Print of July 31, 1943)  
Chart 8705 (Print of Feb. 19, 1943)

Topography in this area was applied to the charts from B.P. 36700, a preliminary field compilation of the latest hydrography and topography. Only revision suggested is removal of the sunken rock symbol in Lat.  $54^{\circ}49.50'$ , Long.  $161^{\circ}42.95'$  (see descriptive report, page 2). A 1-5/6-fathom sounding 150 meters to the south on H-6769 (1942) appears to be a better determination of the feature.



4. Compliance with Project Instructions

Satisfactory.

5. Additional Field Work Recommended

None.

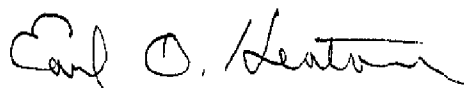
Examined and approved:



Chief, Surveys Branch



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of  
Coastal Surveys