

Original.

6842 *Graphs Control*

*Graphs Control*

6842

Form 504 Rev. April 1933	
DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Topographic <del>Hydrographic</del>	Sheet No. T-6842 <i>Graphs Control</i>
U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES	
MAY 18 1942	
Acc. No. _____	
State <u>Alaska</u>	
LOCALITY	
Raspberry Island and	
Afognak Island adjacent	
to Raspberry Strait.	
_____	
1934	
CHIEF OF PARTY	
L.C. Wilder, H. & G. Engr.	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

T6842

Graphic Unit

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. "X"

REGISTER NO. ~~P-6642~~ T6842

State Alaska

General locality Raspberry Island and Afognak Island.

Locality Raspberry Strait

Scale 1:40,000 Date of survey September, 1941

Vessel Motor Vessel "E. LESTER JONES"

Chief of party L. C. Wilder

Surveyed by Roswell C. Bolstad

Inked by Roswell C. Bolstad

Heights in feet above M. H. W. to ground ~~to tops of trees~~ unless otherwise designated on sheet.

Contour, Approximate contour, Form line interval feet

Instructions dated April 1st, 1941

Remarks: Sheet consists of inshore elevations only,

for use with air photographs for determination of

form lines.

DESCRIPTIVE REPORT

to accompany

T6842

TOPOGRAPHIC SHEET, REG. NO. T-6842 ~~Graphic Control~~

M. V. "E. LESTER JONES", - - - - L.C.Wilder, Chief of Party.

AUTHORITY:

This survey was conducted under authority of Instructions dated April 1, 1941 (ref. 22 mjc 1995 ELJ 1).

LIMITS:

This sheet consists only of determination of elevations away from the strait proper. The area adjacent to the strait is contained on the topographic sheets "A" to "F", inclusive, the limits of which have been inked in brown ink on this sheet. Elevations of these inshore sheets have not been transferred except where commonly determined by both parties or where required by this party to assist in the determination of the inshore elevations (See paragraph METHODS).

METHODS:

Where possible to see inland from the triangulation stations on Raspberry Strait planetable setups were made and the inshore cuts obtained through low shoreline and valleys. Also several key summits were carefully located and elevation determined. These key summits (labeled A,B,C, D,E in red ink on this sheet) were latter visited and the inshore elevations to all distant inshore points determined. In all cases the elevation as shown on this sheet represents a weighted mean; that is, more weight was given to an elev-

ation determined from a lesser distance against an extremely long distance. Also an elevation determined from a summit which was previously determined was given less weight than where the elevation was determined from a Strait control station the elevation above M.H.W. which was measured. In general weighting the elevations determined from the different cuts did not effect the elevation more than a few feet at the most. The reason for giving a ~~very~~ long distant cut less weight was because the depression (or elevation) angle was so small <sup>and</sup> it could not be measured more accurately than to the nearest minute, probably less than that, and the difference in elevation corresponding to one minute would be relatively large.

Near the west end of the sheet, at triangulation station SOFT and the point "X" just to the west, some of the elevations were determined by theodolite. Theodolite cuts were also taken from triangulation station NUN. These cuts were latter plotted on the sheet by steel protractor and computed the usual procedure. All other cuts on this sheet were obtained with the planetable alidade #202.

Practically all the elevations were determined from the key summits where fog, rain, and strong winds hampered the accuracy of the work. Changes in humidity and winds made necessary frequent checks in orientation on all available control stations. Where the dampness caused the

sheet to distort badly the orientation was slightly varied for cuts in the same direction as the control station. For this purpose the old triangulation stations AFOGNAK and CLOUD (not recovered but on conspicuous peaks) were found useful at times.

JUNCTIONS:

This sheet makes a junction with the old topographic sheets as called for in the instructions. Elevations from the old surveys have been transferred on this sheet in blue ink. Where a red line has been drawn through the old elevation this means it has been disproved. It either does not exist at the point shown or the elevation has been found to be in error and has been replaced by the correct elevation, in red ink.

AIR PHOTOGRAPHS:

The elevations of this sheet were taken to furnish spot heights for determination of form lines by air photos. Each elevation determined has been briefly described on the sheet. This will assist in using some of these points for both horizontal and vertical control. The 71' point (house gable) south of triangulation station AFOGNAK may be useful in this regard as the cuts are strong and the adjacent area lacks identifiable control stations.

A few scattered air photo prints were forwarded this party in the field. They were of little value in the work on this sheet. They are returned (as listed in the back of this report) with this sheet.



GENERAL:

At the south end of this sheet, at Litnik Mt., several cuts were taken to the highest point on the ridge. Time was not available in the field to compute the elevations, and latter on when computed in Seattle it was found that they disagreed as follows;

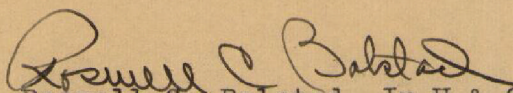
<u>Cut from</u>	<u>Elev.</u>
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A	1855'
C	1852'
D	1850'
Mean	1852'

Tri.Sta.GRASS	1923'
E	1930'
Mean	1926'

The mean of the two closer cuts of 1926' was inked on the sheet. All cuts are to the same definite point but it is believed the distant cuts from the peaks are not as accurate. This can be checked up by the air photos in the office when drawing the form lines. This is the only case on this sheet where such a large difference in the elevations from the different cuts resulted.

Respectfully submitted,

  
Roswell C. Bolstad, Jr. H. & G. Engr.

Nov. 29, 1941

*No review by the Hydrographic Survey  
Section is necessary  
R.H. Carstens 2/4/46*

LIST OF AERIAL PHOTOGRAPHIC PRINTS (4)

forwarded to field party. Only one of each number unless otherwise noted.

Photo No.

5710  
5711  
5712  
5713  
5715  
5718  
5719  
5720  
5722 (4)  
5723  
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5769  
5772  
5785  
5786  
5787  
oblique (1)

## Remarks

## Decisions

1		580525
2		580530
3		"
4		580525
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27		



## GEOGRAPHIC NAMES

Survey No.

T6842  
Graphic Control

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	
<u>Afognak Island</u>									1
<u>Raspberry Island</u>									2
<u>Raspberry Strait</u>									3
<u>Afognak Mt.</u>									4
									5
									6
									7
									8
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									27

Names underlined in red approved  
by L. Heck on 5/24/42

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT

~~PHOTOGRAPH OF~~

~~No. 11~~

No. T **T6842**

~~Graphic Control~~

received **May 18, 1942**  
registered **May 25, 1942**  
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			
24			
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62			
63			
82			
83			
88			
90			

● RETURN TO

82	R. W. Knox
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*RWC*

## NAUTICAL CHARTS BRANCH

SURVEY NO. T-6842

## Record of Application to Charts

[illegible]

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.