

4374

Diag. Cht. No. 8252-1

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. _____ Office No. T- 4374

LOCALITY

State ALASKA (SOUTHEAST)

General locality KRUZOF ISLAND

Locality INTERIOR OF KRIZOF ISLAND

194 28

CHIEF OF PARTY

H. A. Cotton

LIBRARY & ARCHIVES

DATE _____

8-1870-1 (1)

4374

DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. __

(Field Letter E)

INTERIOR OF KRUZOF ISLAND

MAY TO OCTOBER, 1928.

Scale 1:40,000

Form Line Interval 200 feet.

AUTHORITY:

The topography on this sheet was executed in accordance with instructions of February 13, 1928, from the Director to the Commanding Officer of the Str. EXPLORER.

LIMITS: AND CONNECTION WITH OTHER WORK:

The new work shown on this sheet is a topographic survey of the interior of Kruzof Island to a connection with the form lines shown on topographic sheets, Field numbers A-B, C & D, 1928, and with Chart No. 8281, except in places where form lines on Chart No. 8281 were changed.

Form lines in pencil were transferred directly from the above sheets and Chart. Form lines in red ink and the lakes and streams in black ink represent new work.

DATA FOR NEW WORK:

The data for the compilation of the new work on this sheet consists of the following:

1. Theodolite cuts and elevations from triangulation station, Soap, Foam₂, Krest, Shel, Gilmer, Perp and Krestof.
2. Sextant cuts from various positions west of Kruzof Island.

Sketches or photographic snapshots from triangulation stations Shel, Perp, Gilmer and Krestof.

METHODS:

The data for the topography executed on this sheet was largely collected by Lieutenant Patterson, Lieutenant Jones and Lieutenant Scaife in connection with the occupation of the main scheme triangulation stations on or near Kruzof Island. On the visits to these stations, as many cuts and elevations as possible were taken to prominent features on Kruzof Island. Photographic

snap shots were taken from as many of these stations as possible. In addition, sextant cuts for the identification of peaks were taken from offshore positions and station Krestof was occupied for triangulation cuts and elevations.

In general, when new locations and elevations were obtained on peaks shown on chart no. 8281, it was found that the old locations were somewhat out of position and that the old elevations were too great. In some cases the new elevations are as much as 400 feet less than the old. The changes in position and elevation of some of the peaks shown on chart no. 8281 made it necessary to readjust some of the form lines on that chart to fit the new positions and elevations. In all places where old form lines were shifted or changed in any manner, the changes are shown in red ink.

The peaks on which locations were obtained are designated on the sheet, on the attached snapshots, ~~and sketches~~ and in the record books by capitol letters, in Red. They should not be confused with objects designated by letters in black ink on the snapshots, which refer to the corresponding letters in pencil in the record books for the same station.

In cases where a figure in parenthesis is shown on the sheet above an elevation, the figure in parenthesis is the estimated height (in feet) of the trees and the elevation is to the tops of the trees. In all other cases the elevation is on the ground.

All elevations were computed with hypsograph, corrections for curvature and refraction were applied.

GENERAL COMMENTS:

In general, Kruzof Island is heavily timbered with coniferous trees at the lower elevations, except in places where swampy

ground causes a sparse and scrubby growth. Above elevations of 1600 to 1800 feet, the timber is scrubby or entirely missing. The peaks above 1800 feet are generally bare and rocky.

Swamps and tundra cover much of the lowlands.

The following paragraph from the Season's Instructions (to Commanding Officer EXPLORER, dated February 13, 1928) relate to the topographic work on this sheet.

20. " A photostat of a section of chart 8280 raised to a scale of 1:20,000 will be furnished you. The form lines in this section of the chart are broken due to lack of information. You will fill in the missing form lines if you find you are able to obtain the information readily."

STATISTICS

Area - Square statute miles.	62
Number of recoverable stations (triangulation) used in connection with sheet	8
Positions occupied (triangulation stations)	7

Examined, approved and forwarded

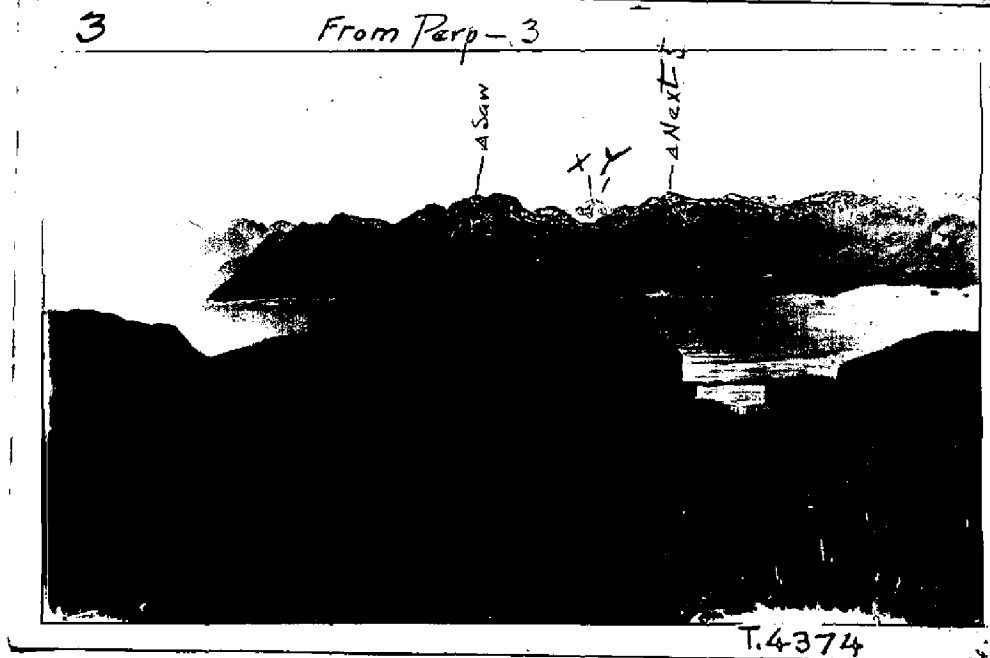
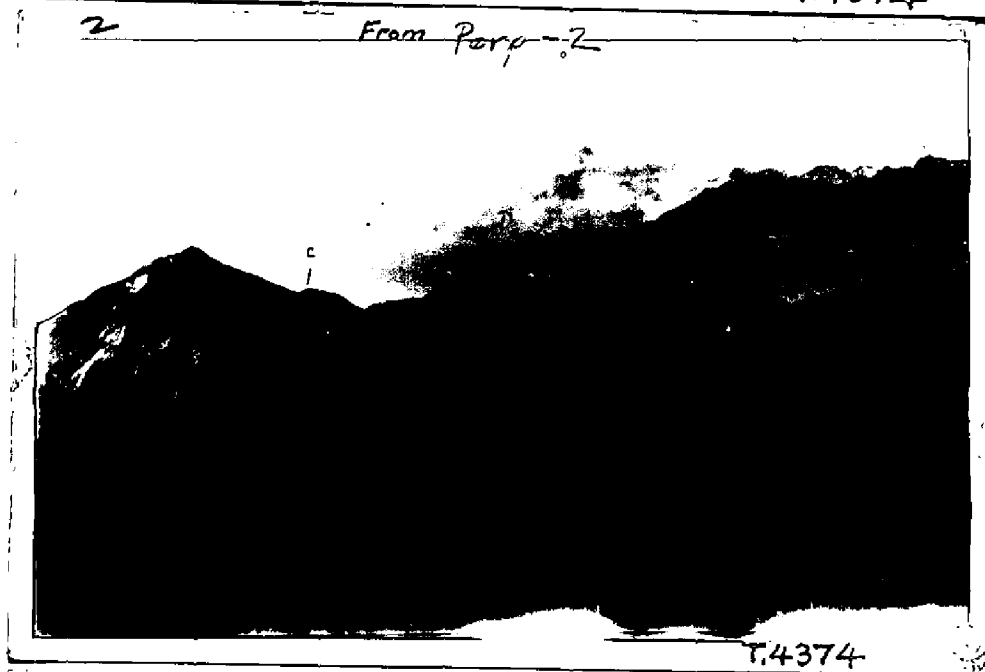
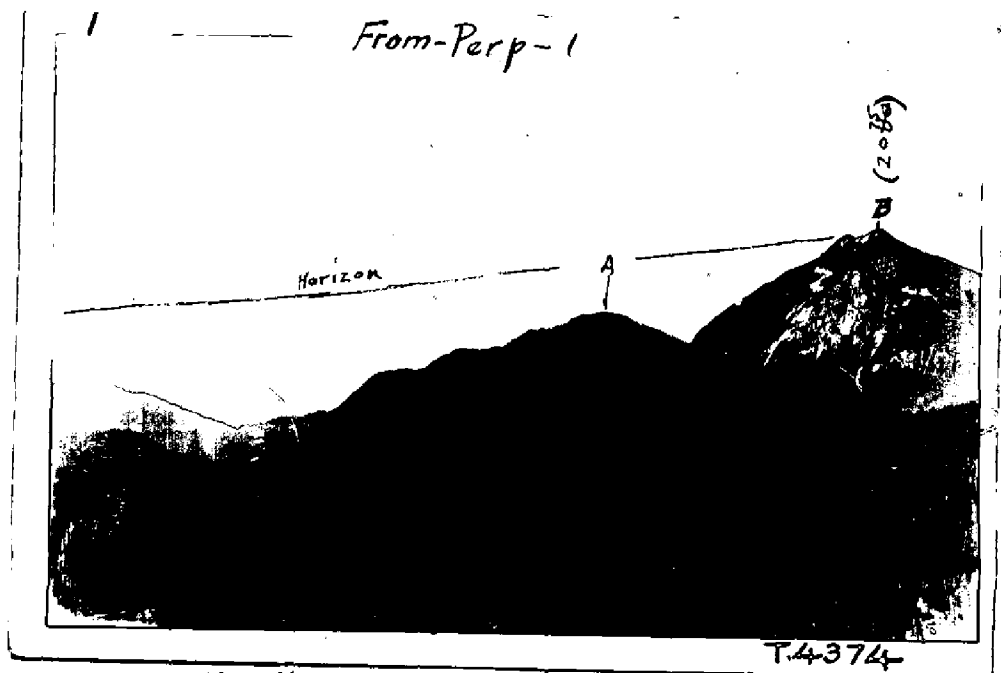
Respectfully submitted

Harold A. Cotton

Harold A. Cotton
Commanding Officer,
U.S.S. EXPLORER.

W. M. Scaife

W. M. Scaife,
Jr. H. & G. Engineer,
Coast & Geodetic Survey.



4

From Perp - 4



T.4374

Gap - 5 From Perp - 5



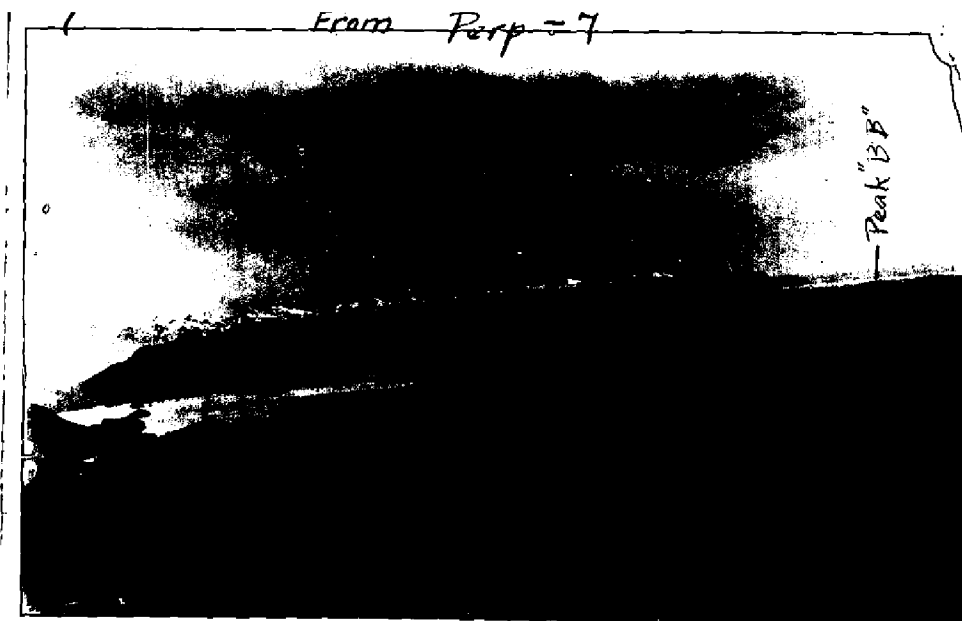
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6

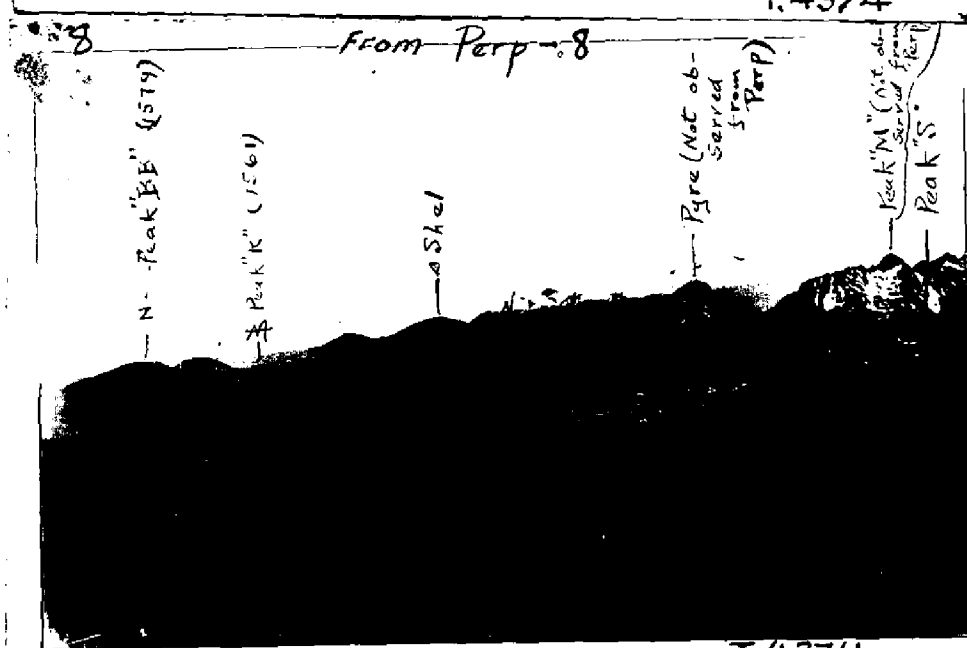
From Perp - 6



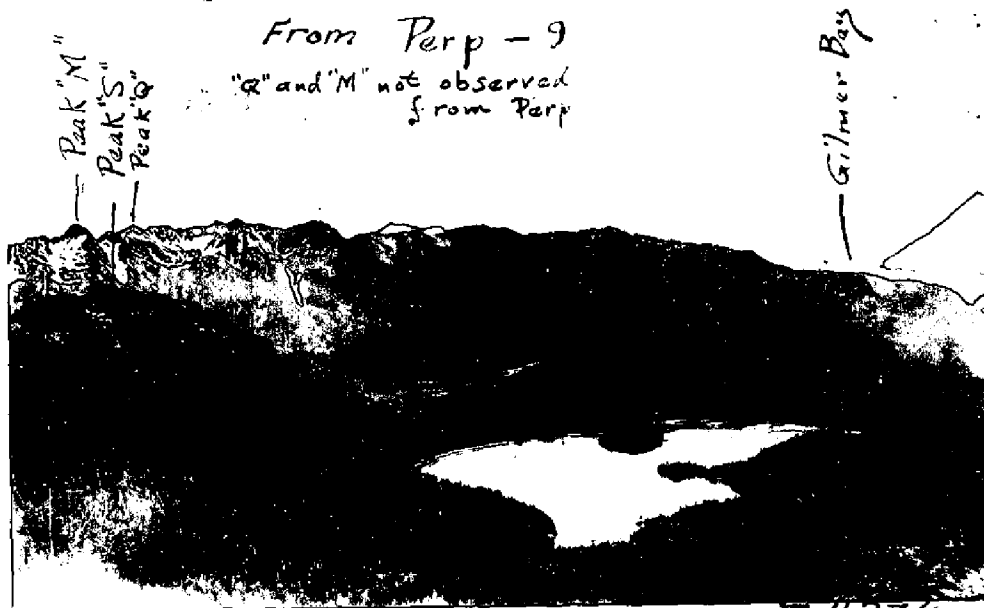
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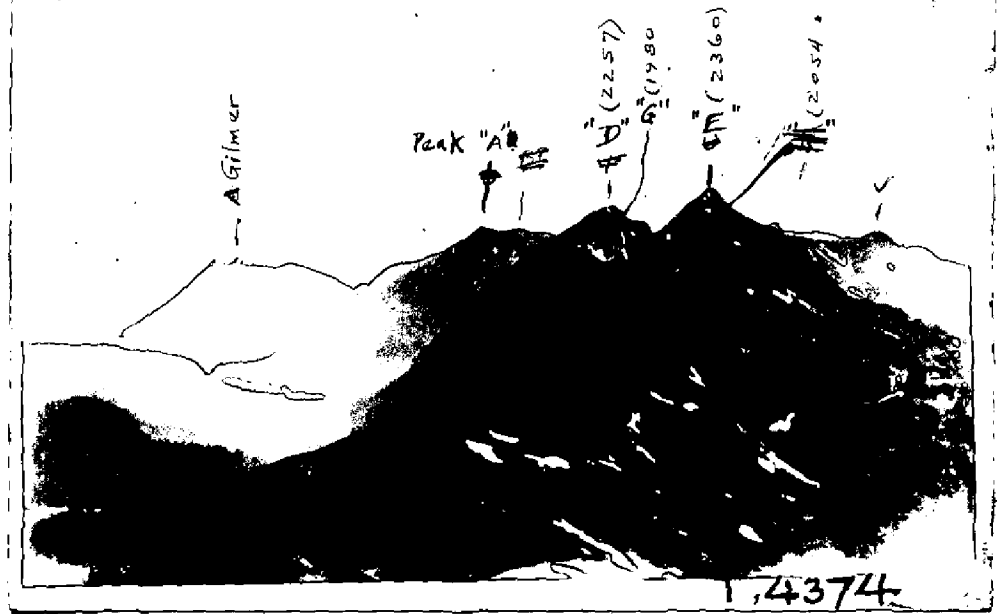
T.4374



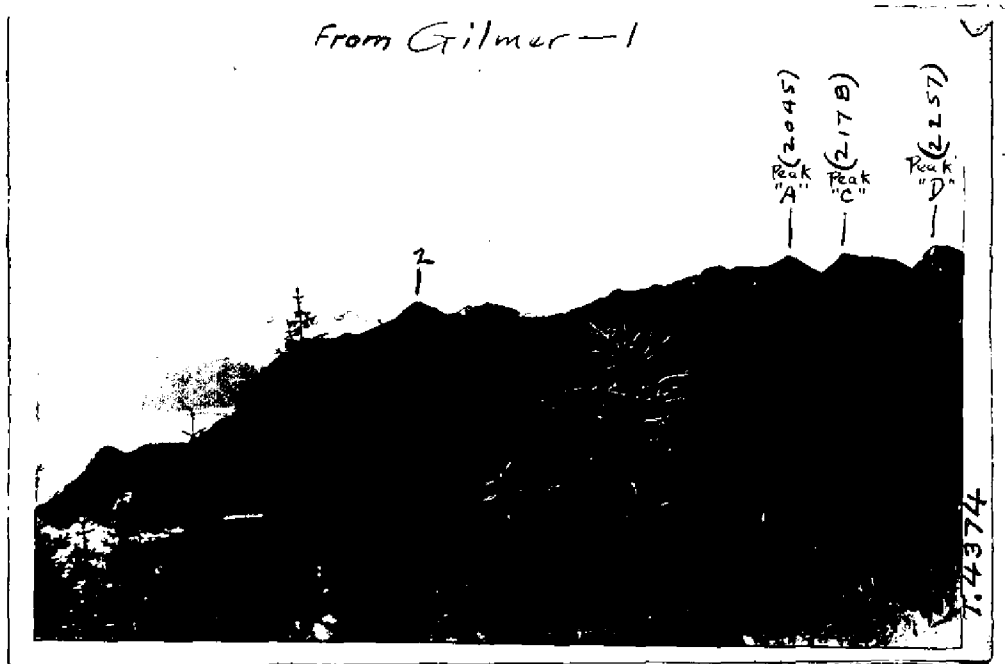
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10

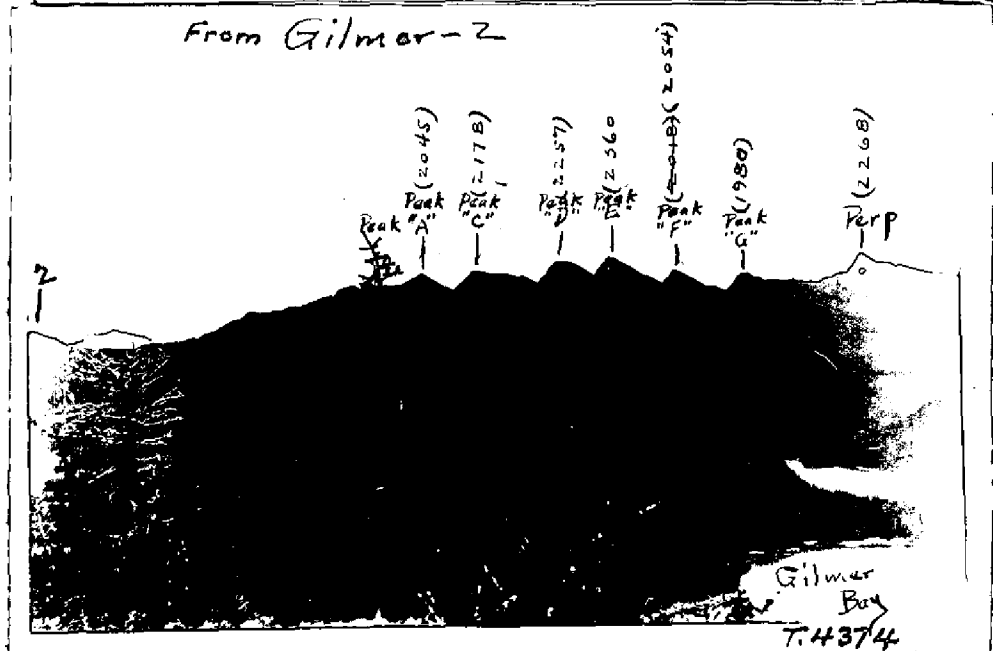
From PERP-10



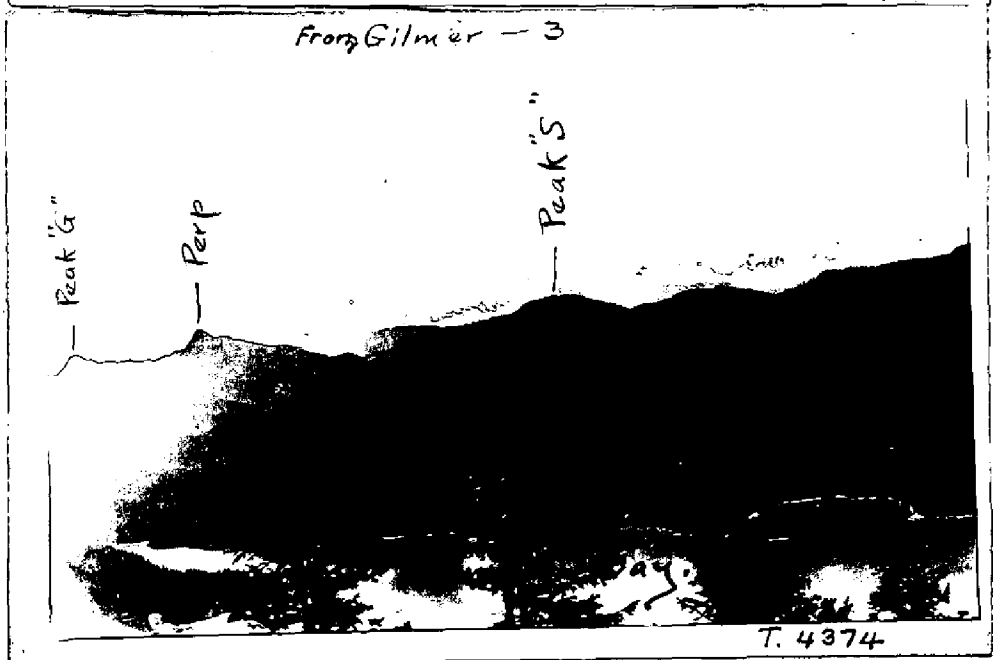
From Gilmer - 1



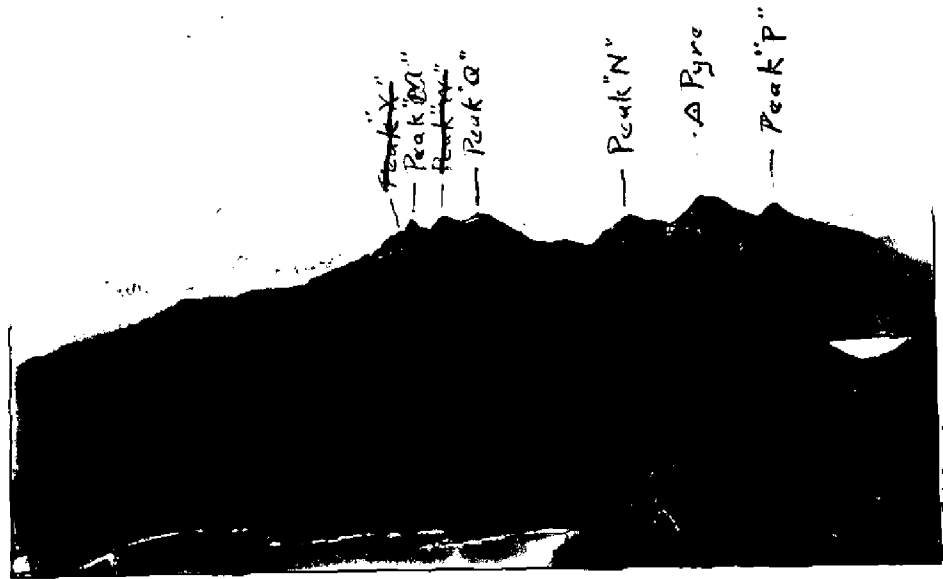
From Gilmer - 2



From Gilmer - 3



From Gilmer - 4



T.4374

From Gilmer - 5



T.4374

From Gilmer - 6



T.4374

From Gilmer - 7



T.4374

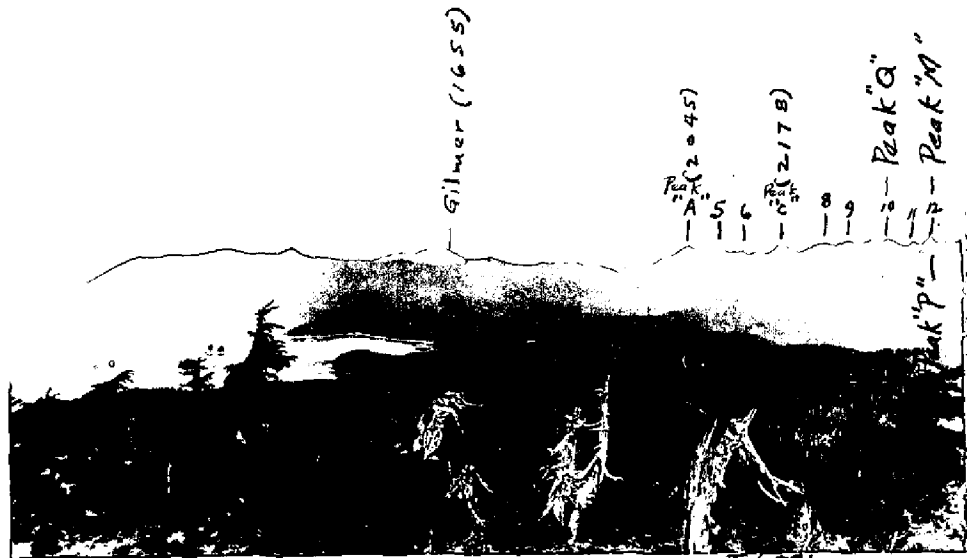
From SHEL - 1



Gilmer

T.4374

From SHEL - 2



Gilmer (1655)

Peak "A" (20045)

Peak "B" (2178)

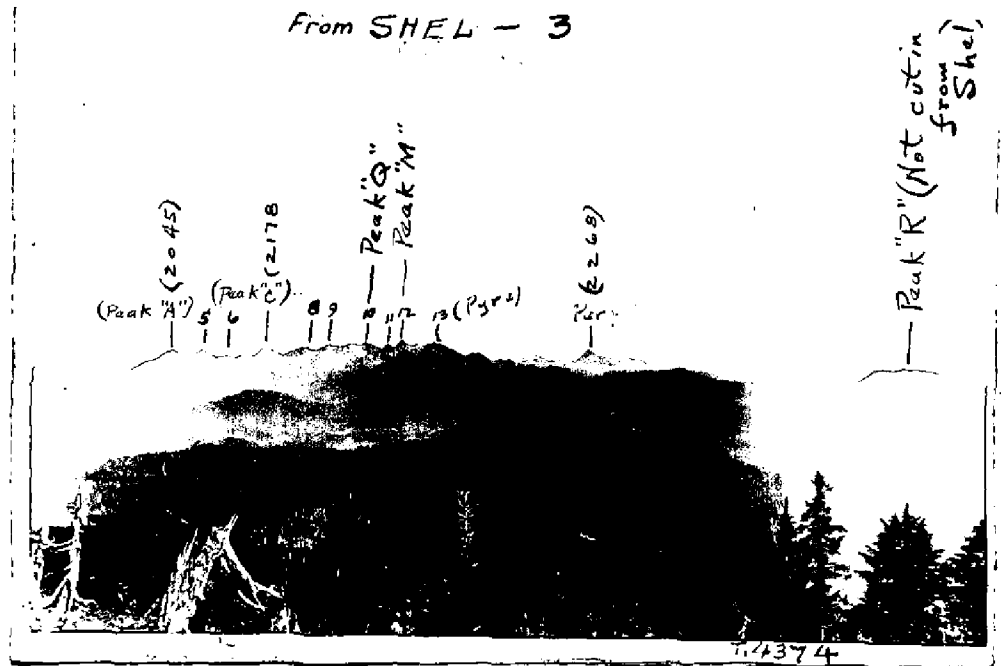
Peak "C"

Peak "D"

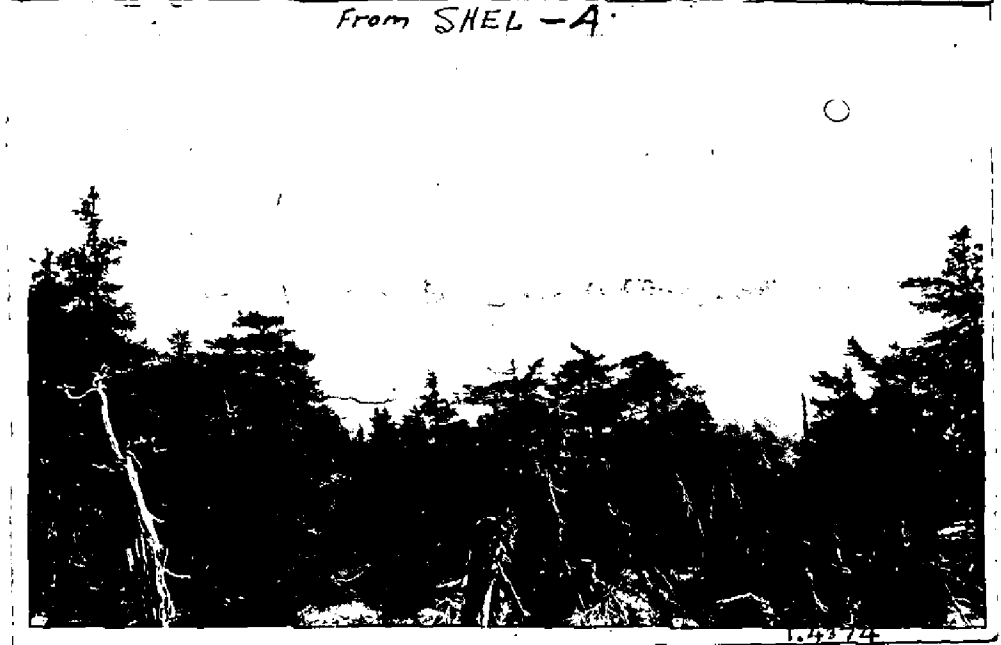
Peak "E"

T.4374

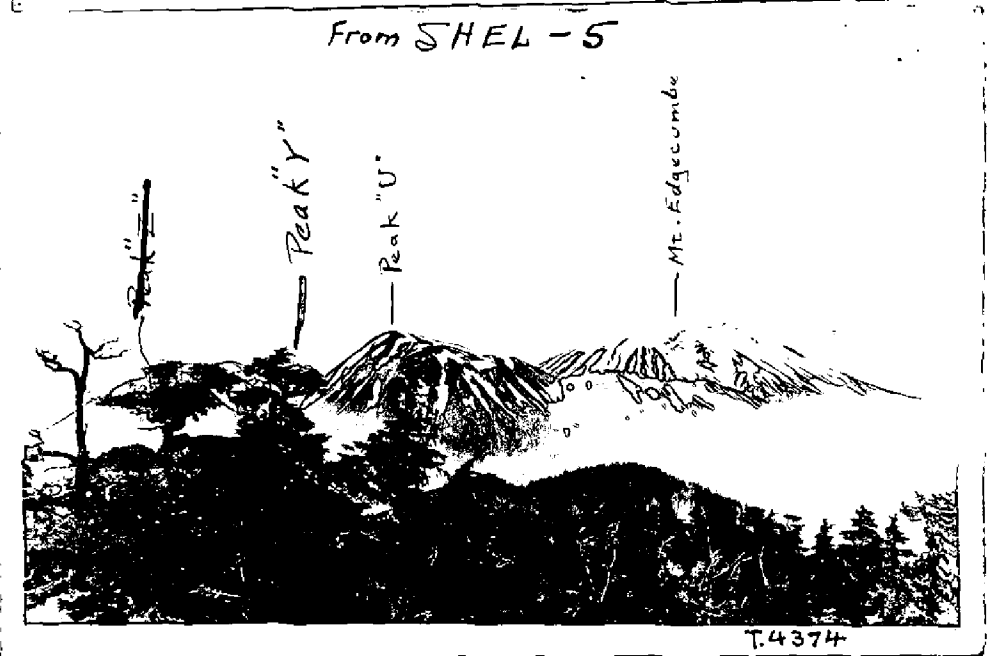
From SHEL - 3



From SHEL - A



From SHEL - 5



DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4374

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. E

REGISTER NO.

4374

State S. E. Alaska

General locality Kruzof Island

Locality Interior of Kruzof Island

Scale 1:40,000 Date of survey June V October, 192 8

Vessel Explorer

Chief of Party Harold A. Cotton

Surveyed by Wm. M. Scaife

Inked by Wm. M. Scaife

Heights in feet above M. H. W. to ground to tops of trees

~~Contour, approximate contour~~ Contour, Form line interval 200 feet

Instructions dated February 13, 192 8

Remarks: Interior Areas