10322, 10323, 10324,

10325

10322, 10323, 10324, 10325

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. T-10322, 10323 *Office No.* 10324 & 10325

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Seguam Island

19 58-59

CHIEF OF PARTY

E. B. Brown, Chief of Party
L. W. Swanson, Washington Office

LIBRARY & ARCHIVES

DATE

USCOMM-DC 5087

DATA RECORD

T - 10322-10325

Project No. (II): PH-34 Quadrangle Name (IV): T-10322, 10323, 10324 & 10325

Field Office (II): Ship EXPLORER Chief of Party: E. B. Brown

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):
Project Instructions 16 Dec. 1954
Supplemental Instructions 10 Nov. 1955
Supplemental Instructions 1 Nov. 1956
Compilation Instructions 5 Nov. 1957

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III): Graphic Contours: A-7 Autograph Stereoplotter

Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.0

Date received in Washington Office (IV): Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): 1927 North American Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): ~~UTM~~

Lat.: Long.: Adjusted / Unadjusted

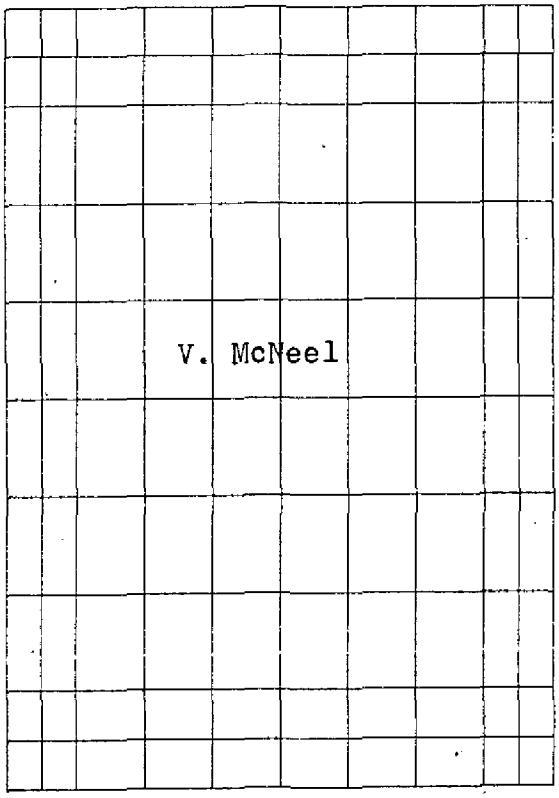
Plane Coordinates (IV): U T M State: Alaska Zone: 2

Y= X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
(II) (III)

DATA RECORD

Field Inspection by (II): E. B. Brown — Date: 31 July 1959

Planetable contouring by (II): None — Date:

Completion Surveys by (II): None — Date:

Mean High Water Location (III) (State date and method of location):
Office interpretation of photographs

Projection and Grids ruled by (IV): P. J. Dempsey — Date: 10 Sept. 1959

Projection and Grids checked by (IV): Shoup — Date: 10 Sept. 1959

Control plotted by (III): F. Wisiecki — Date: 26 Jan. 1960

Control checked by (III): R. Sugden — Date: 28 Jan 1960

Radial Plot or Stereoscopic ~~Control~~ by (III): R. Sugden — Date: Feb. 1960

Stereoscopic Instrument compilation (III):
Planimetry — Date:
Contours V. McNeel — Date: March 1970

Manuscript delineated by (III): G. Amburn T-10323 & T-10324 — Date: March 1960
H. Lucas T-10322 & T-10325 — May 1960

Photogrammetric Office Review by (III): J. P. Battley, Jr. — Date: May 1960

Elevations on Manuscript checked by (II) (III): K. N. Maki (contours) — Date: Jan. 1972

M-2618-12(4)

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
57890to 98	1 July 1958	1312:1316	1:20,000	0.9 below MLLW
57900to 12	"	1327:1333	"	0.9 " "
57786to 57796	"	1041:1046	"	1.1 " "

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
.87		3.2

Reference Station: Sweeper Cove
Subordinate Station: Finch Cove - Seguam Island
Subordinate Station:

Washington Office Review by (IV): K. N. Maki Date: February 1972

Final Drafting by (IV): Date:

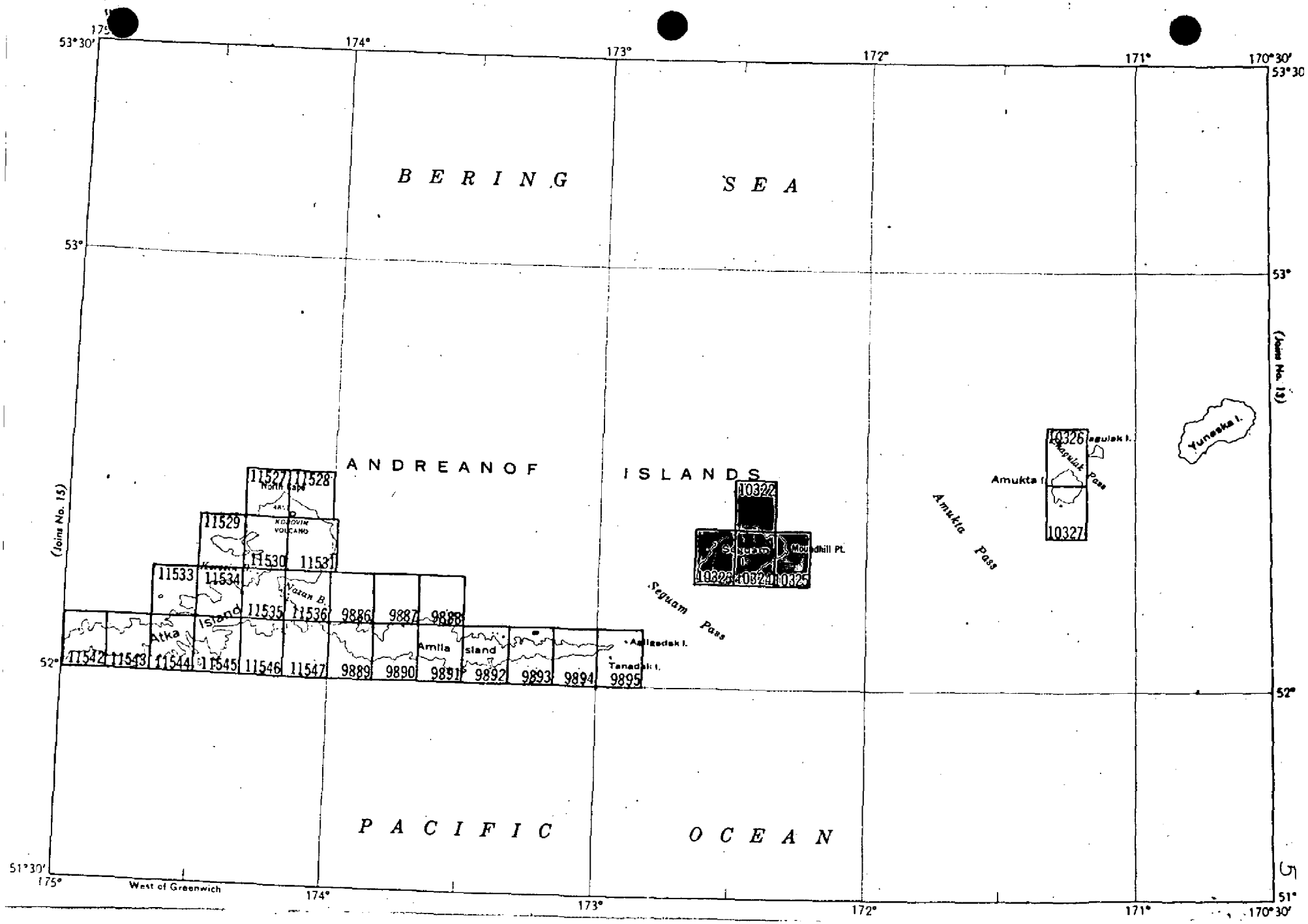
Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: Identified:
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

M-2618-12(4)


BERING SEA
ANDREANOF ISLANDS
PACIFIC OCEAN
53°30'
53°
52°
51°30'
175°
174°
173°
172°
171°
170°30'
West of Greenwich
(Joins No. 15)
(Joins No. 13)
11527
11528
11529
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9886
9887
9888
9889
9890
9891
9892
9893
9894
9895
10322
10323
10324
10325
10326
10327
Atka Island
Amlia Island
Segula I.
Amukta I.
Amukta Pass
Seguam Pass
Yunaska I.
Kasatochi I.
Tanadak I.

Summary to Accompany Descriptive Report
T-10322 thru T-10325

Topographic maps T-10322 thru T-10325 are four maps of a series of similar maps covering a part of PH-34, Part C, Andreanof Islands group, Aleutian Islands, Alaska. These four maps cover all of Seguam Island.

The field operations preceding compilation were limited to the recovery of horizontal control.

Because both Reading nine-lens plotters were dismantled prior to the start of contouring on Seguam Island, contours were compiled on the Wild A-7 Autograph stereoplotter. The Wild A-7 compilation of contours was preceded by a graphic compilation of shoreline, foreshore and offshore features for hydrographic survey needs based on the field recovery of horizontal control with no field inspection of shoreline and related features.

The contour interval is 50 feet with a first 25-foot contour where contour spacing permitted and where better expression of near shore terrain configuration could be obtained.

The registered copies under T-10322 thru T-10325 will consist of one cronaflex positive of each of the four maps and a single combined Descriptive Report.

PHOTOGRAMMETRIC PLOT REPORT
Job PH-34
Seguam Island, Alaska
February 1960

21. Area Covered

This report discusses the radial plot covering Seguam Island in its entirety. The manuscripts are T-10322 thru T-10325.

22. Method

The plot was laid on vinylite manuscripts ruled at 1:20,000 scale with projections and 2000 meter UTM grid. The manuscripts were joined together holding to the grid lines.

The nine-lens metal-mounted photographs of the area were prepared and templets were made using a master templet for correction of paper distortion and transforming errors. (See photogrammetric plot sketch for the layout of manuscripts, photographs and distribution of control.

The field identified control was supplemented by office identified control for better control coverage to strengthen the plot. Because of the concentration and the coverage of nine-lens photographs, the solution to the central section of the plot was first obtained. With the addition of the office identified control, extension of the plot to the outer edges was achieved resulting in a satisfactory solution of the graphic radial line plot.

23. Adequacy of Control

Six office identified control stations were added in the plot to supplement the field identified control. The field identification of some of the stations could not be substantiated by office stereo examination of the photographs. In these instances, the field photograph position was used although the object, as described, could not be identified.

Seven of the eight field identified stations were held in the plot and three of six office identified stations were held.

Field station TURF 1941 is described as a white tripod over station. At 1:20,000, the tripod is not visible. The station

was missed 3.0 mm east of the plotted position and is apparently misidentified. Office identified station PIKE 1941, which is a sharp tip of a rock island and well defined, held in the plot nearby. Both office identified stations RUE 1941 and CRATER 1941, which were missed by 0.7 mm east and 1.0 mm east, respectively, could have been identified on detail which would have placed them in correct geographic position. Station BOS 1941, which fell 1.0 mm northwest of the plotted position, was also misidentified in the office. Detail fitting the published description would have held in the plot. LAVA 1941 held nearby and was better defined.

24. Supplemental Data

Inapplicable

25. Photography

Photography was adequate in all respects for the plot except for clouds in the vicinity of station AIR 1941. In order to use this station to advantage in the plot, photographs 46093 and 46094 were added.

26 thru 30.

Inapplicable

Respectfully submitted:

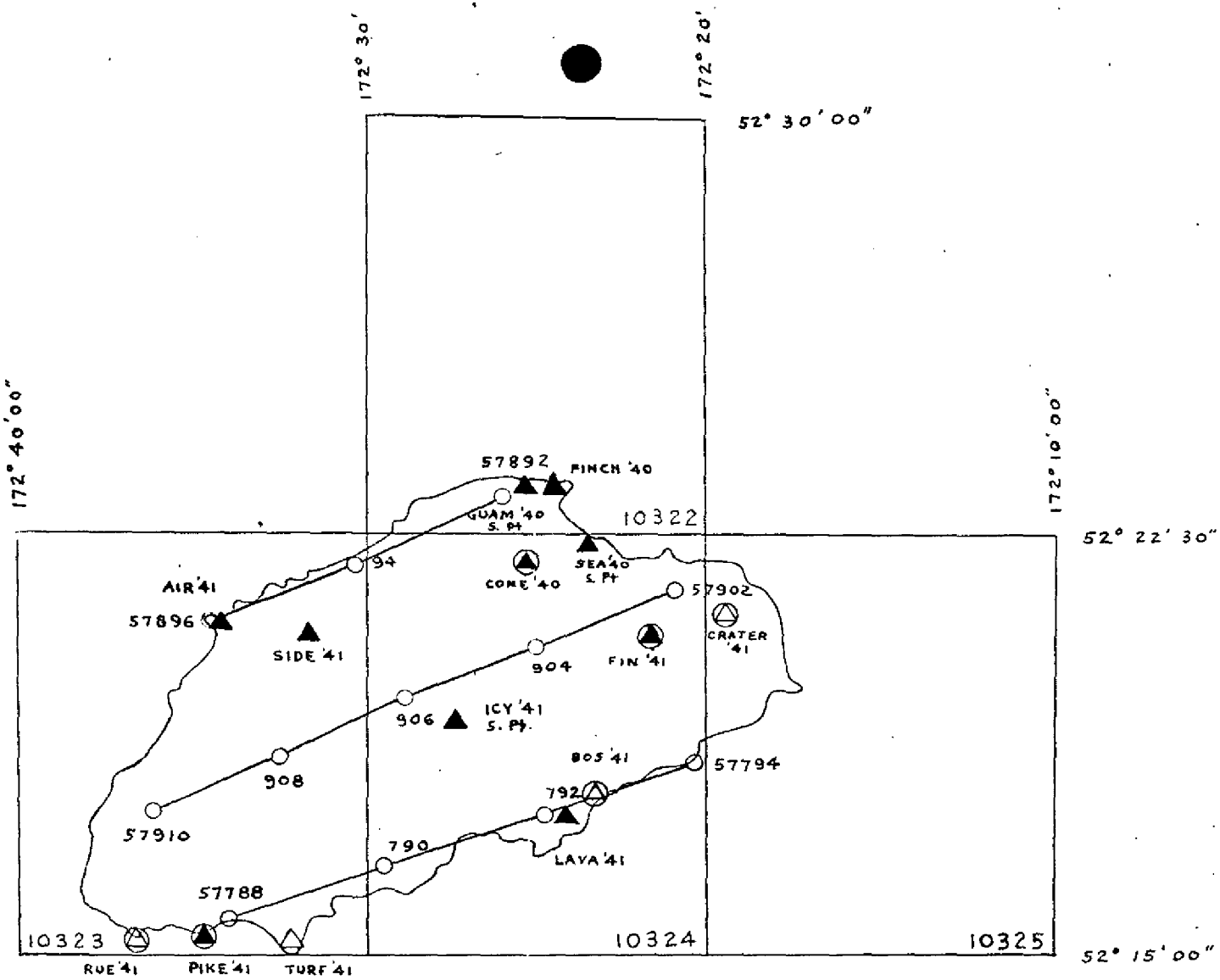
R. L. Sugden

R. L. Sugden

Approved by:

J. P. Battley Jr

J. P. Battley, Jr.



SEGUAM ISLAND, ALASKA

Photogrammetric Plot Sketch Feb '60

▲ Field identified control held

△ Field identified control not held

Ⓐ Office identified control held

Ⓐ Office identified control not held

○ Nine lens photos used in plot

FORM C&GS-16
(4-68)
USCOMM-DC
50318-P68

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

MAP T- T-10323 T-10324 PROJECT NO. PH-34 (CS-218) SCALE OF MAP 1:20,000 SCALE FACTOR 0.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
FINCH, 1940	pg. 72	NA	52-23-23.635	730.6	1124.0
			172 24 44.881	848.7	286.0
GUAM, 1940	"	"	52 23 06.735	208.2	1646.4
			172 25 10.157	192.1	942.7
SEA, 1940	"	"	52 22 10.770	332.9	1521.7
			172 23 14.948	282.8	852.4
LAVA, 1941	pg.73	"	52 17 10.160	314.0	1540.6
			172 24 10.542	199.8	937.5
ICY, 1941	"	"	52 19 03.848	118.9	1735.7
			172 26 52.030	985.6	151.0
TURF, 1941	pg. 74	"	52 14 57.574	1779.6	74.9
			172 32 00.102	1.9	1136.4
SIDE, 1941	pg. 75		52 20 05.480	169.4	1685.2
			172 32 07.661	145.1	991.1
CRATER, 1941	pg. 836	"	52 20 56.356	1741.9	112.7
			172 19 18.378	347.9	787.8
CONE, 1940	pg. 72	"	52 21 26.296	812.8	1041.8
			172 25 08.902	168.5	967.0
BOS, 1941	pg. 837	"	52 18 05.094	157.5	1697.1
			172 22 51.952	984.5	152.5
PIKE, 1941	"	"	52 15 16.74	517.4	1337.1
			172 33 56.84	1078.2	60.0
RUE, 1941	"	"	52 15 07.35	227.2	1627.4
			172 36 13.08	248.1	890.1

COMPUTED BY Wisiecki DATE 1/26/60 CHECKED BY Sugden DATE 1/26/60

O

FORM C&GS-164
(4-68)
USCOMM-DC
50318-P68

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT CONTROL RECORD

T-10323
MAP T- T-10324 PROJECT NO. PH-34 (CS-218) SCALE OF MAP 1:20,000 SCALE FACTOR 0.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD	(BACK)
JAG, 1940	Pg. 836	NA	52 20 53.304	1647.6	207.0
			172 21 47.563	900.4	235.4
(TIT, 1940)			52 20 04.598	142.1	1712.5
FIN, 1941	"	"	172 22 14.559	275.7	860.5
Sub pt	Office Compilation	"	52 23	224.5	1630.1
GUAM, 1940			172 25	175.2	959.6
			52 20 57.664	1782.4	72.2
AIR, 1941	Pg. 75	"	172 34 13.419	254.0	881.7
Sub pt	Office Compilation	"	52 20	1772.6	82.0
AIR, 1941			172 34	232.1	903.6
Sub pt 2	"	"	52 19	79.2	1775.4
ICY, 1941			172 26	972.0	164.6
Sub pt	"	"	52 22	341.7	1512.9
SEA, 1940			172 23	287.5	847.7
ICY (RM 2)			52 19	114.5	1740.1
			172 26	1003.3	133.3

COMPUTED BY WisiecKi DATE 1/26/60 CHECKED BY Sugden DATE 1/22/60

COMPILATION REPORT
T-10322 thru T-10325
Seguam Island, Alaska
March 1960

31. Delineation

Manuscripts at 1:20,000 scale were compiled by graphic methods from 9-lens metal-mounted office photographs. The reflecting projector was used to adjust the photointerpreted detail to the manuscript scale.

32. Control

See Photogrammetric Plot Report

33. Supplemental Data

Hydrographic surveys H-6696 and H-6697, scale 1:20,000, August-September 1941.

34. Contours and Drainage

Water elevation corrected from tide data, was used for vertical control. Contours were compiled on the Wild A-7 Autograph stereoplotter. The contour interval is 50 feet with a first 25-foot contour.

35. Shoreline and Alongshore Details

The mean high water line was interpreted from 9-lens photography. Offshore rocks, ledges, etc., were compared with hydrographic surveys H-6696 and H-6697.

36. Offshore Details

Rocks that bare, rocks awash, islands, etc., were included with data or material mentioned in item 35. Hydrographic sheets were used to check offshore rocks and islands.

37. Landmarks and Aids

Inapplicable

38. Control for Future Surveys

No comment

39. Junctions

Junctions have been made with adjoining manuscripts.

40. Horizontal and Vertical Accuracy

See Photogrammetric Plot Report

41. thru 45.

Inapplicable

46. Comparison with Existing Maps

USC&GS hydrographic surveys H-6696 and H-6697, dated August-September 1941.

47. Comparison with Nautical Charts

USC&GS charts No. 8862 and No. 9102, dated October 1951. No difference evident.

Items to be applied to nautical charts immediately: None

Items to be carried forward: None

Submitted by:

Henri Lucas

Henri Lucas and
G. Amburn

G. Amburn

Approved by:

J. P. Battley Jr

J. P. Battley

Feb. 9, 1972

48. Geographic Name List

T-10322

>Andreanof Islands (title)
>Bering Sea
>Finch Cove
>Finch Point
>Seguam Island

T-10323

>Andreanof Islands (title)
>Bering Sea
>Pacific Ocean
>Seguam Island
>Seguam Pass
>Turf Point
>Pyre Peak >Saddleridge Point

T-10324

>Andreanof Islands (title)
>Bering Sea
>Finch Cove
>Lava Cove
>Lava Point
>Pacific Ocean
>Seguam Island

T-10325

>Andreanof Islands (title)
>Amukta Pass
>Bering Sea
>Moundhill Point
>Pacific Ocean
>Seguam Island
>Wharf Point

APPROVED BY
A. Joseph Wraight
CHIEF GEOGRAPHER

PREPARED BY
Frank W. Pickett
CARTOGRAPHIC TECHNICIAN

Review Report T-10322 thru T-10325
Topographic Maps
February 1972

61. General Statement

Graphic compilation of shoreline was completed in 1960 to fulfill hydrographic survey needs. As a result of the dismantling of the last of the two Reading nine-lens plotters in 1965, prior to the beginning of contouring, the entire contouring phase for Seguam Island was compiled with the Wild A-7 Autograph stereoplotter. This was accomplished by the use of photographic reductions of the nine-lens photographs to accommodate the 9 x 9 inch format of the A-7 plotter.

62. through 65. Comparison with Other Surveys

The map manuscripts were compared with all prior registered topographic surveys, maps of other agencies, contemporary hydrographic surveys and nautical charts during compilation. Discrepancies and conflicts between the map manuscript and the prior surveys were resolved at the time comparisons were made.

66. Adequacy of Results and Future Surveys

Shoreline and related features, including contours, are considered to be delineated adequately, although field work was limited to photoidentification of horizontal control.

Reviewed by:

K. N. Maki

K. N. Maki

Approved by:

Charles Theurer

Charles Theurer, Chief
Photogrammetric Branch

Jack E. Guth

Jack E. Guth, Chief
Coastal Mapping Division