9886 THRU 9895

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Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. ..... *Office No.* T-9886-95

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Amlia Island

19 53-58

CHIEF OF PARTY

E.H. Kirsh, Chief of Party
L.W. Swanson, Washington Office

LIBRARY & ARCHIVES

DATE .....

USCOMM-DC 5087

DATA RECORD

T - 9886

Project No. (II): PH-34 Quadrangle Name (IV):

Field Office (II): Ship EXPLORER Chief of Party: E.H. Kirsh (1957)
G.C. Mast (1958)

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): 1:20,000

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): N.A. 1927 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):

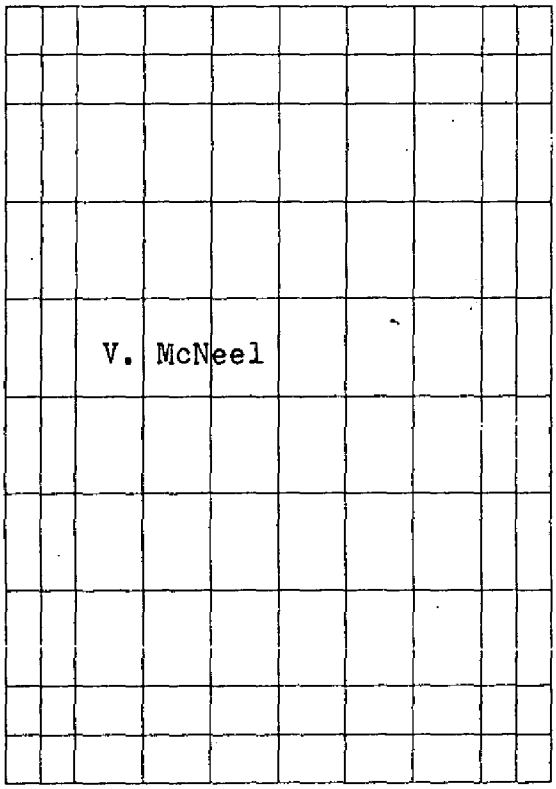
Lat.: Long.: Adjusted
Unadjusted

Plane Coordinates (IV): UTM 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.



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

T-9886	J.P. Battley, Jr.	Jan. 1959
9887	G. Amburn	Feb. 1959
9888	"	Feb. "
9889	J.P. Battley, Jr.	Jan. "
9890	"	Feb. "
9891	"	Feb. "
9892	"	April "
9893	H. Lucas	April "
9894	J.P. Battley, Jr.	April "
9895	"	April "

DATA RECORD

Field Inspection by (II): E.H. Kirsh, G.C. Mast — control only — Date: June-Aug. 1957, June-Sept. 1958

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. Dempsey — Date: 10-9-58

Projection and Grids checked by (IV): Shoup — Date: 10-10-58

Control plotted by (III): G. S. Amburn — Date: 12-15-58

Control checked by (III): F. Wisiecki — Date: 12-15-58

Radial Plot or Stereoscopic Control extension by (III): J. P. Battley, Jr. — Date: 1-15-59

Stereoscopic instrument compilation (III): *Planimetry* — Date:

Contours V. McNeel — Date: Jan.-Mar. 1970

Manuscript delineated by (III): Graphic: J. P. Battley, Jr. (see opposite page) — Date: Jan. - April ~~25-30,~~ 1959

Photogrammetric Office Review by (III): — Date: 1959
R. Sugden T-9893-5
E. Ramey T-9886, 88-92
J. Battley T-9887

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

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
57913-57924	7-1-58	1344-1350	1:20,000	0.4' below MLLW
57834-57859	7-1-58	1139-1151	1:20,000	1.2' below MLLW
51811-57821	7-1-58	1117-1122	1:20,000	1.2' below MLLW
57925-57941	7-1-58	1356-1404	1:20,000	0.4' below MLLW
58900-58906	9-18-58	1002-1005	1:20,000	2.7' above MLLW
58888	9-18-58	0950	1:20,000	2.7' above MLLW
58909	9-18-58	1008	1:20,000	2.7' above MLLW
42240-42250	10-8-53	1222-1235	1:20,000	2.5' above MLLW

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	Spring Range
	3.7	
0.89	3.3	

Reference Station: Sweeper Cove
Subordinate Station: Nazan Bay
Subordinate Station:

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

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

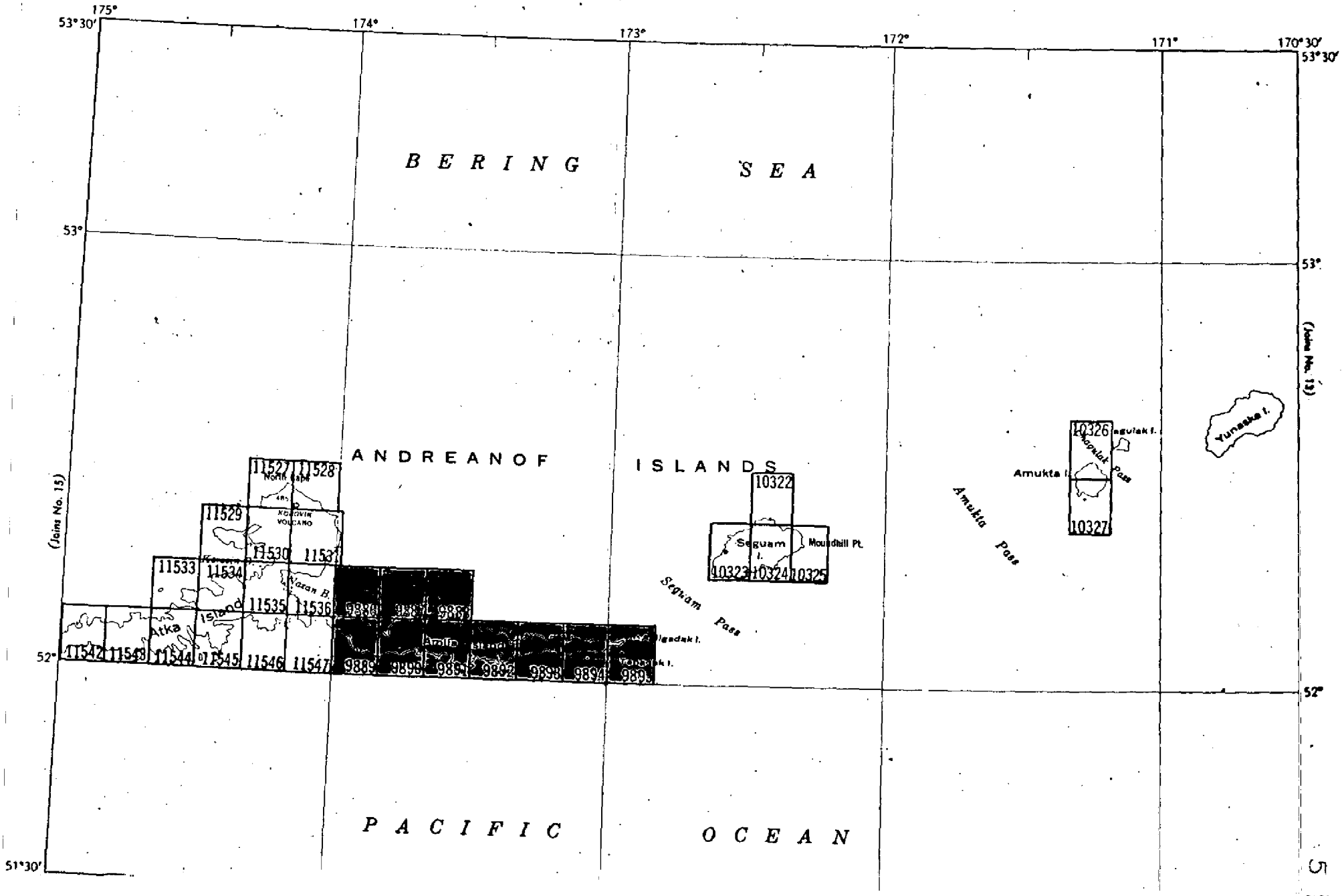
Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: Identified:
Number of BMs searched for (II): Recovered: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

Remarks:

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT FY-91

Aleutian Islands ALASKA Part C



Summary to Accompany Descriptive Report
T-9886 thru T-9895

Topographic maps T-9886 thru T-9895 are ten maps of a series of similar maps covering a part of PH-34, Part C, Andreanof Islands group, Aleutian Islands, Alaska. These ten maps cover all of Amlia Island except the extreme western end which falls on maps T-11536 and T-11547.

The field operations preceding compilation were limited to the recovery of horizontal control and the determination of elevations to control the nine-lens stereoplotter project vertically.

Because both Reading nine-lens plotters were dismantled prior to the start of contouring on Amlia 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-9886 thru T-9895 will consist of one cronaflex positive of each of the ten maps and a single combined Descriptive Report.

Photogrammetric Plot Report

PH-34 - Amlia I. Alaska

January 1959

21. Area Covered

The radial plot covers Amlia Island in its entirety. The manuscripts are T-9886 thru T-9895. The western tip of Amlia I. extends on to manuscripts T-11536 and T-11547. These manuscripts were included in the plot.

22. Method

The plot was laid on four vinylite base sheets with a ruled 2000-meter U.T.M. grid.

The photographs used were metal-mounted, nine-lens. As it was determined at the printing stage that there were no significant transformer errors or paper shrinkage errors a master calibration templet was not used in preparing templets.

The plot was begun at its western extremity. A satisfactory junction was ~~here~~ made with the Atka I. plot previously laid to the west (see attached sketch). It was then extended eastward to complete the island.

The attached sketch shows photographs and control used in the plot.

23. Adequacy of Control

Twenty-one triangulation stations were identified by the field party. Of these, nineteen were used in the plot. The two stations not used were RAIN 1958 and SAG (highest point of Sagigik I.) 1958. Reasons are as follows: RAIN 1958... the description and field photo identification was so indefinite for this station that it was considered doubtful and also of little value in controlling the plot. Other well-identified control held nearby. SAG 1958... this station could not be identified on the photographs used in the plot. The station can be identified on photographs 57811 and 57812. These photographs were not used in the plot as they were centered over water and would not have aided in extending the plot. The photographs can be resected on the manuscript for compilation purposes.

23. Of the 19 field-identified triangulation stations, 18 held within 0.3 mm. (See plot sketch.) TUND 1958 did hold in the plot and is discussed herein: TUND 1958....1.8 mm NW of plotted position. The field photograph position was used in the plot, as the CSI card stated that the white pole with banner boards was pricked on the field photo. Reference measurements taken from the published description did not agree with the field photo position. The field identification is evidently in error. Station ROUND 1941 held nearby.

The control used in the plot was 1941, 1943 published positions and 1958 unadjusted field positions.

24. Supplemental data:

None

25. Photography

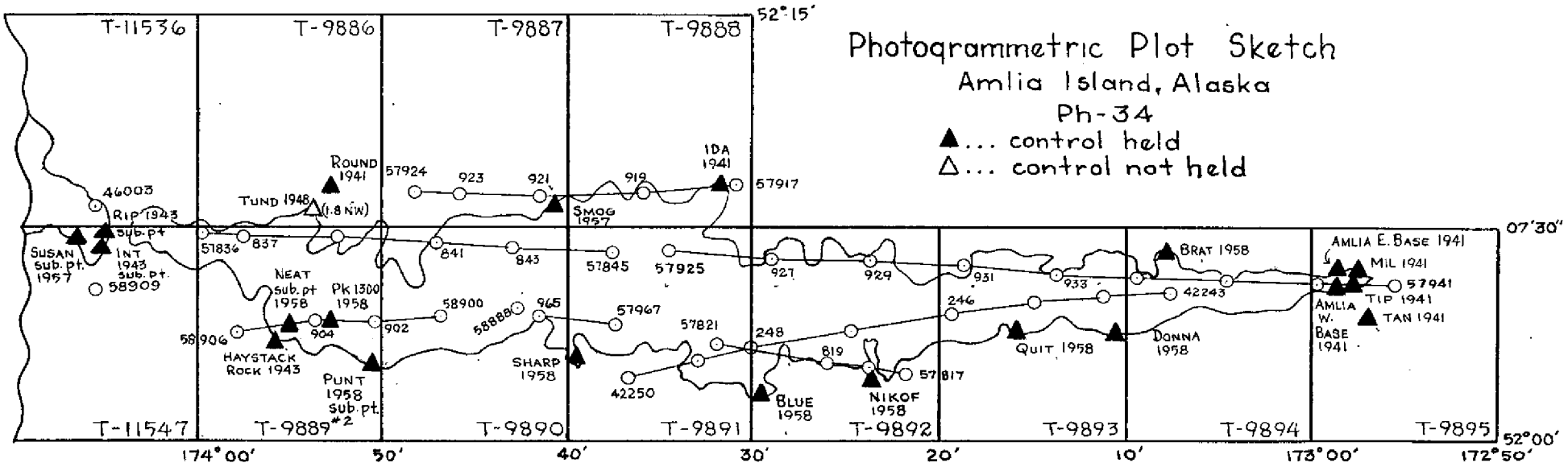
Due to excessive cloud conditions on the photographs, more than the usual amount of photography was used to assure adequate coverage for control and compilation. (See plot sketch).

Submitted by:

Jeter P. Battley, Jr.

Approved by:

Everett H. Ramey
Chief, Graphic Compilation Unit


Photogrammetric Plot Sketch
Amlia Island, Alaska
Ph-34
▲... control held
△... control not held
T-11536
T-9886
T-9887
T-9888
T-11547
T-9889
T-9890
T-9891
T-9892
T-9893
T-9894
T-9895
52°15'
07'30"
52°00'
174°00'
50'
40'
30'
20'
10'
173°00'
172°50'
46003
RIP 1943 sub.pt
SUSAN sub.pt 1957
INT 1943 sub.pt
58909
ROUND 1941
TUND 1948 (1.8 NW)
57924
923
921
SMOG 1957
919
IDA 1941
57917
51836
837
841
843
57845
57925
927
929
931
933
BRAT 1958
AMLIA E. BASE 1941
MIL 1941
57941
TIP 1941
TAN 1941
AMLIA W. BASE 1941
42243
246
NEAT sub.pt 1958
PK 1300 1958
904
902
58900
58906
HAYSTACK ROCK 1943
PUNT 1958 sub.pt
58888
965
SHARP 1958
57967
57821
248
819
57817
42250
BLUE 1958
NIKOF 1958
QUIT 1958
DONNA 1958

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

MAP T- 9886-95 PROJECT NO. PH-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION	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)
			5769 916.5	1916.5	83.5
QUIT, 1958	T-9893		345 151.5	1151.5	848.5
			5767 540.2	1540.2	459.8
NIKOF, 1958	T-9892		335 879.6	1879.6	120.4
			5771 243.7	1243.7	756.3
HAYSTACK ROCK, 1943	T-9889		298 790.9	790.9	1209.1
			5770 078.3	78.3	1921.7
SHARP, 1958	T-9890		317 371.8	1371.8	628.2
			5769 543.9	1543.9	456.1
PUNT, 1958	T-9889		305 477.9	1477.9	522.1
			5771 727.3	1727.3	272.7
NEAT, 1958	T-9889		299 357.1	1357.1	642.9
			5773 357.5	1357.5	642.5
PEAK 1300, 1958	T-9889		300 530.2	530.2	1469.8
			5769 557.6	1557.6	442.4
PUNT sub.	T-9889		305 5729	1572.9	427.1
			5770 069.9	69.9	1930.1
SHARP sub.	T-9890		317 379.6	1379.6	620.4
			5771 797.6	1797.6	202.4
NEAT sub.	T-9889		299 500.3	1500.3	499.7
			5773 099.1	1099.1	900.9
AMLIA E. BASE, 1941	T-9895		365 004.6	1004.6	995.4
			5773 258.9	1258.9	741.1
MIL, 1941	T-9895		365 918.1	1918.1	81.9

COMPUTED BY G. Amburn DATE 12-15-58 CHECKED BY F. Wisiecki DATE 12-15-58

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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

MAP T- 9886-95 PROJECT NO. PH-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION	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)
BLUE, 1958	T-9892		5767 076.9	1076.9	923.1
			328 959.5	959.5	1040.5
TIP, 1941	T-9895		5772 631.9	631.9	1368.1
			365 330.2	1330.2	669.8
TAN, 1941	T-9895		5770 594.4	594.4	1405.6
			365 954.2	1954.2	45.8
TUND, 1948	T-9886		5780 119.8	119.8	1880.2
			302 054.8	054.8	1945.2
BRAT, 1958	T-9894		5775 191.9	1191.9	808.1
			354 844.3	844.3	1155.7
AMLIA WEST BASE, 1941	T-9895		5772 578.9	578.9	1421.1
			364 506.5	506.5	1493.5
SMOG, 1957	T-9887		5779 542.1	1542.2	1457.8
			316 555.7	555.7	1444.3
IDA, 1941	T-9886		5780 586.0	586.0	1414.0
			327 124.6	1124.6	875.4
ROUND, 1941	T-9886		5781 125.7	1125.7	874.3
			303 094.0	1094.0	906.0
RAIN, 1958	T-9887		5779 428.8	1428.8	571.2
			310 640.8	640.8	1359.2
SAG, 1958	T-9894		5764 111.8	111.8	1888.2
			352 151.7	151.7	1848.3
DONNA, 1958	T-9893		5769 780.0	1780.0	220.0
			350 779.0	779.0	1221.0

COMPUTED BY G. Amburn DATE 12-15-58 CHECKED BY F. Wisiecki DATE 12-15-58

COMPILATION REPORT
T-9886 thru T-9895

31. Delineation

Graphic methods were used to compile the shoreline, foreshore and offshore features. No field inspection was accomplished on Amlia Island. Compilation relied entirely on office interpretation of the photography.

32. Control

Refer to the Photogrammetric Plot Report, a part of this Descriptive Report.

33. Supplemental Data

None

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

No special problems were encountered in delineating shoreline and alongshore details. This phase was done graphically from the photography without benefit of field inspection. The shoreline is very intricate and is delineated with a broken line where obscured by shadow overhang or surf.

36. Offshore Details

Offshore details were compiled from office interpretation of the photography.

37 and 38.

Not applicable

39. Junctions

All junctions between the subject maps have been made.

40. Horizontal and Vertical Accuracy

No deficiencies were noted.

46. Comparison with Existing Maps

None

47. Comparison with Nautical Charts

8862 1:30,000 corrected to 10-15-51.

Items to be Applied to Nautical Charts immediately: None

Items to be Carried Forward: None

Submitted by:

Jeter P. Battley Jr

J. P. Battley, Jr.

48. Geographic Name List

T-9886, T-9887, T-9888

>Andreanof Islands (title)
>Amlia Island
>Bering Sea
>Hungry Bay
>chalugas Bay
>Cape Idalug
>Pinnacle Rock

T-9889, T-9890, T-9891, T-9892, T-9893

>Andreanof Islands (title)
>Amlia Island
>Bering Sea
>Pacific Ocean
>Cape Misty
>Hay stack Rock
>Hungry Bay
>Sviechnikof Harbor

T-9894

>Andreanof Islands (title)
>Amlia Island
>Bering Sea
>Pacific Ocean
>Sagigik Island

T-9895

>Andreanof Islands (title)
>Amlia Island
>Agligadak Island
>Agligadak Reefs
>Bering Sea
>Pacific Ocean
>Seguam Pass
>Tanadak Island

Jan. 27, 1972

PREPARED BY

Frank W. Pickett

CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright

CHIEF GEOGRAPHER

Review Report T-9886 thru T-9895
Topographic Maps
January 1972

61. General Statement

Graphic compilation of shoreline was completed in 1959 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 Amlia Island was done 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 manuscripts 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, Chief
Photogrammetric Branch

Jack E. Guth, Chief
Coastal Mapping Division