11553 11554

11554 • 11553

Diag. Cht. Nos. 8862 amd 8863-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Proj. T 11553

Field No. 24050 Office No. T 11554

LOCALITY

State ALASKA

General locality Andreanof Islands

Locality Little Tanaga Is. - Umak Is.
Anagaksik Is.

19 ~~53-56~~ 1953-56

CHIEF OF PARTY

Field - G. A. Nelson

Office - Div. of Photogrammetry Wash. DC

LIBRARY & ARCHIVES

DATE APR 15 1958

COMM-DC 61300

DATA RECORD

T 11553
11554

Project No. (II): 24050 Quadrangle Name (IV):

Field Office (II): Ship Explorer Chief of Party: G. A. Nelson

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

Instructions dated (II) (III): Supplemental Instructions
Proj. CS-218, dated 16 Dec 1954
Proj. 1218 dated 10 Nov 1955
Compilation instructions dated 25 Oct 1956

Copy filed in Division of Photogrammetry (IV)
Office Files

Method of Compilation (III): Graphic Compilation (Shoreline)
Reading Nine Lens Plotter (Topography)

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): JUL 3 - 1957 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 11 Dec 1957

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

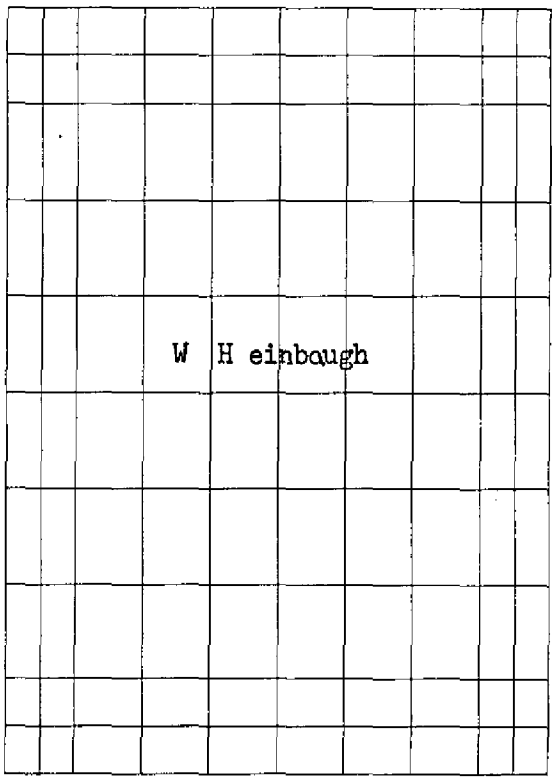
Plane Coordinates (IV): State: Zone:

Y= X=

U. T. M. grid, 1000 meter interval, Zone 1.

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)

DATA RECORD

Field Inspection by (II): C. W. Clark Date: 1956 Season

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): From 1956 field Inspection on 1953 photos.

Projection and Grids ruled by (IV): A. Riley Date: 10-28-55

Projection and Grids checked by (IV): A. Riley Date: 10-28-55

Control plotted by (III): B. Hale Date: 11-23-55

Control checked by (III): D. D. Carrier, Jr. Date: 11-22-55

Radial Plot or Stereoscopic Control extension by (III): S. G. Blankenbaker Date: 2-10-56

Stereoscopic Instrument compilation (III): Planimetry W. Heinbaugh Date: June 1957
Contours Date:

Manuscript delineated by (III): T-11554 (Shoreline)-G. S. Amburn
T-11553 (Shoreline)-R. L. Sugden Date: Nov 1956
T-11553 & 11554 Topography - W. Heinbaugh June 1957

Photogrammetric Office Review by (III): L. Levin Date: 6-21-57

Elevations on Manuscript checked by (II) (III): L. Levin Date: 6-21-57

M-2618-12(4)

Camera (kind or source) (III): C8GS 9-Lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
41914	9/21/53	1:47	1:20,000	2.7 above MLLW
41915	"	1:47	"	2.7 " "
41916	"	1:48	"	2.7 " "
42199	9/25/53	3:28	"	3.7 " "
42130	9/25/53	2:08	"	3.4 " "
42131	"	2:09	"	3.4 " "
42132	"	2:10	"	3.4 " "
42127	"	2:05	"	3.4 " "
42128	"	2:06	"	3.4 " "
42201	"	3:30	"	3.7 " "

Tide (III)

Diurnal

	Ratio of Ranges	Mean Range	~~Spring~~ Range
Reference Station: Sweeper Cove.			3.7
Subordinate Station: ~~GH 13AK~~ CHISAK Bay	0.9		3.3
Subordinate Station:			

Washington Office Review by (IV): J.J. Streifler Date: Oct. 57

Final Drafting by (IV): Date:

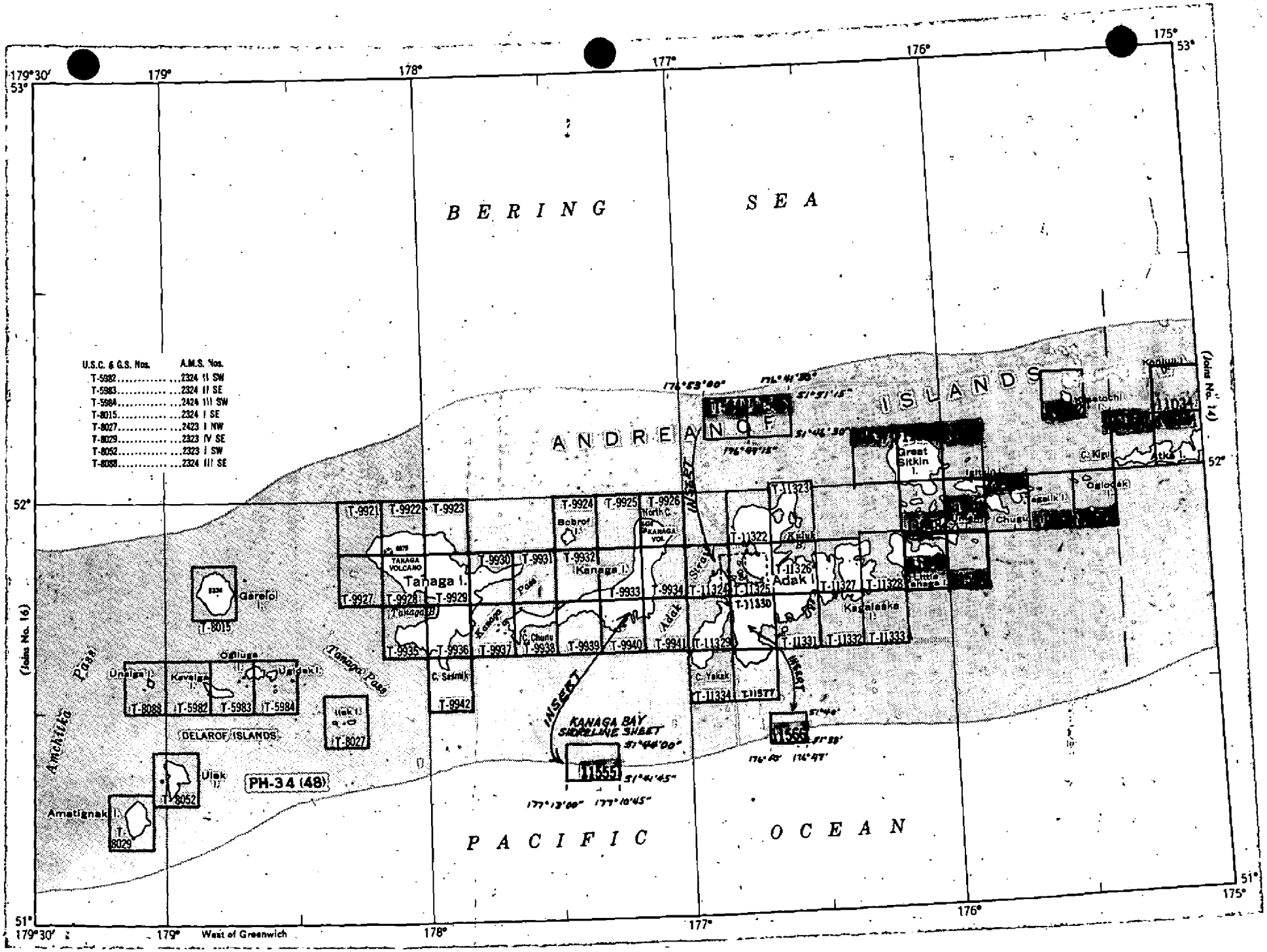
Drafting verified for reproduction by (IV): Date:

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
DELAROF ISLANDS
Amchitka Pass
Tanaga Pass
Tanaga I.
Kanaga I.
Adak I.
Atka I.
Great Sitkin I.
Little Sitkin I.
Kagalaska I.
Chugul I.
Gareloi I.
Ogliuga
Unalga I.
Kavalga I.
Uliaga I.
Ulak I.
Amatignak I.
Bobrof I.
North C.
TANAGA VOLCANO
C. Sedmik
C. Yakak
C. Kiu
Kanaga Bay
KANAGA BAY SHORELINE SHEET
INSET
T-9921
T-9922
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T-11332
T-11333
T-11334
T-11577
T-8015
T-8027
T-8029
T-8052
T-8088
T-5982
T-5983
T-5984
PH-34 (48)
(Joins No. 16)
(Joins No. 14)
U.S.C. & G.S. Nos. A.M.S. Nos.
T-5982 ... 2324 II SW
T-5983 ... 2324 II SE
T-5984 ... 2424 III SW
T-8015 ... 2324 I SE
T-8027 ... 2423 I NW
T-8029 ... 2323 IV SE
T-8052 ... 2323 I SW
T-8088 ... 2324 III SE
179°30′
179°
178°
177°
176°
175°
53°
52°
51°
West of Greenwich

~~Plotted 11/23/55~~ ~~Hole~~

Photogrammetry

MAP T- 11553 PROJECT NO. ~~PH 6034~~ 24050 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
Key (USN) 1934	V160		51 51 47.018	1854.4			1453.2	401.3		
			176 02 57.205	1148.2			1094.7	~~54.1~~	53.5	
BAT (USN) 1934	V160		51 51 31.211	1854.4			964.6	889.9		
			176 08 07.482	1148.3			143.2	1005.1		
~~SCRIP 1934~~	~~V160~~		~~51 50 57.85~~	~~1854.5~~			~~1788.0~~	~~66.5~~		
			~~176 06 47.09~~	~~1148.3~~			~~901.4~~	~~247.1~~		
BOO (USN) 1934	V160		51 51 17.733	1854.5			548.1	1306.4		
			176 04 05.936	1148.8			113.6	1034.8 ~~1035.2~~		
~~SID (USN) 1934~~	~~V160~~		~~51 50 42.286~~	~~1854.4~~			~~1306.9~~	~~547.6~~		
			~~176 01 40.988~~	~~1148.7~~			~~784.7~~	~~363.9~~ ~~364.0~~		
~~JULY 1955 ?~~			~~51 46 51.796~~				~~1600.9~~	~~255.6~~	~~Do not plot to~~	
~~Tole STA~~			~~176 10 65.851~~				~~112.2~~	~~1038.1~~		
SUB STA ~~JULY 1955~~ Key (USN) 1934			51 51	1854.5			1454.6	399.8		
			176 02	1148.2			1101.7	46.5		
SUB STA. BAT, (USN) 1934			51 51	1854.5			960.1	894.3		
			176 08	1148.3			154.2	994.1		
SUB STA #1 SID (USN) 1934			51 50	1854.5			1322.3	532.1		
			176 01	1148.6			818.8	329.8		
SUB STA #2 SID (USN) 1934			51 50	1854.5			1268.6	585.8		
			176 01	1148.6			802.9	345.7		
			~~Plotted on old Base, pricked Thru~~							

1 FT. = .3048006 METER

COMPUTED BY: B. Hole DATE 11/23/55 CHECKED BY: K. H. Sachs DATE 11/23/55

M-2388-12

Photogrammetry

MAP T- T-11553 PROJECT NO. 24050 SCALE OF MAP 1:10000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
			51-50-42.205	1304.4	550.0					
ELBOW 1956			176-01-40.975	784.4	364.2					
			51-51-43.847	1355.2	499.2					
GUSTY 1956			176-00-30.505	583.7	564.4					
			51-47-42.566	1315.6	538.8					
CHISAK 1956			176-08-19.140	366.8	783.1					

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: G. Amburn DATE 11/1/56 CHECKED BY: R. Sugden DATE 11/1/56

Plotted 11/22/55 Hale
Checked 11/22/55 Carrier

Photogrammetry

MAP T- T-11554 PROJECT NO. PH6034 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
ANAGAKSIK '34 USN	V158		51 51 18.065		1854.54		558.3	1296.21	✓	
			175 53 55.089		1148.84		1054.4	94.40	✓	
BUMPY, 1957			51 51 04.740	146.5	(1707.9)					
			175 58 49.002	937.9	(210.5)					
PRA			~~51 48 20.82~~	~~643.5~~	(1210.9)					
			~~175 59 42.40~~	~~814.2~~	(~~335.4~~)					

1 FT. = .3048006 METER

COMPUTED BY: B. Hale DATE 11/22/55 CHECKED BY: K. Schuler DATE 11/22/55

M-2388-12

COMPILATION REPORT

T 11553 & T 11554

The field inspection report is filed with the descriptive report for T-11328.

The radial plot report is filed with the descriptive report for T-11327.

These manuscripts were compiled as "incomplete" in February 1956. The shoreline was revised after shoreline inspection and additional field inspection in November 1956.

31. Delineation:

Shoreline detail was delineated graphically from stereo models on to vinylite work sheets which were adjusted to the manuscript between common pass points. The contours and drainage were delineated on to the advance shoreline manuscript using the Reading Nine Lens plotters.

32. Control:

See the radial plot report for discussion of horizontal control. Two additional control points, (Bumpy 1956 and Moss 1956), which were identified in 1956 were pricked on the office photos and used to verify the existing plot. No datum shift was noted.

All vertical control points which were located and computed in the field were held while orienting the stereo models on the instrument. Inasmuch as there was a plethora of sea level control several of the unchecked and uncomputed field control ~~was~~ were not used.

33. Supplemental Data:

Boat sheets Ex 2256 - b & c.

34. Contours and Drainage:

There are no areas of questionable accuracy.

35 & 36. Shoreline, Alongshore and Offshore Details:

Due to the large amount of overhang and dense shadow some portions of the shoreline were dashed during graphic compilation. These areas were re-examined during the instrument compilation and where the delineation of the shoreline could be verified it was changed to a solid line.

37. Landmarks and Aids:

None

38. Control for Future Suveys:

No topographic stations were established.

39. Junction:

Junction was made with all adjoining sheets.

40. Horizontal and Vertical Accuracy:

See radial plot report for discussion of horizontal accuracy. See paragraph 32 for discussion of vertical accuracy.

46. Comparison with Existing Maps:

T-6940

47. Comparison with Nautical Charts:

No. 9140 1:30,000 scale corrected to 2/25/52

Items to be Applied to Nautical Charts immediately: none

Items to be Carried Forward: none

Submitted by:

Wallace Heinbaugh

Wallace Heinbaugh
Cartographer (Photo.)

Approved by:

Louis Levin

Louis Levin
Superisory Cartographer
Nine Lens Mapping Unit

GEOGRAPHIC NAMES

Survey No.

T-11553

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Agony Point										1
Azamis Cove										2
Cape Azamis										3
Cape Chisak										4
Chisak Bay										5
Chisak Island										6
Elbow Point										7
Little Tanaga Island										8
Narrows Point										9
Pacific Ocean										10
Round Cove										11
Scripps Bay										12
Umak Island										13
Umak Pass										14
Cape Umak										15
				Names approved						16
				8-13-57. L. Heck						17
For title:										18
Alaska										19
Andreanof Islands										20
										21
										22
										23
										24
										25
										26
										27

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GEOGRAPHIC NAMES

Survey No.

T-11554

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
Anagaksik Island										1
Cape Agumsadak										2
Cape Azamis										3
Little Tanaga Island										4
Pacific Ocean										5
Reach Point										6
Umak Island										7
Umak Pass										8
				Names approved						9
				8-13-57. L. Heck						10
For title:										11
Alaska										12
Andreanof Islands										13
										14
										15
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										27

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Review Report of
Topographic Maps T-11553 and T-11554
October 1957

62. Comparison with Registered Topographic Surveys:

T-6940	USN	1:40,000	1934

Differences exist between these surveys--generally in the main shoreline, shapes of some islands and the omission of others. The two subject topographic surveys are to supersede T-6940 for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies:

Adak, Alaska and Atka, Alaska of Alaska Reconnaissance Topographic Series of 1951 and 1952 by the U. S. Geological Survey at scale of 1:250,000.

The considerable difference in scale does not permit a conclusive comparison.

64. Comparison with Contemporary Hydrographic Surveys:

H-8307	1:20,000	1956

Preliminary shoreline of the two topographic surveys was furnished for hydrographic survey H-8307. Changes and additions resulting from subsequent field inspection and final Washington Office review have yet to be applied to the affected hydrographic survey. These corrections do not appear to interfere with the hydrographic information.

65. Comparison with Nautical Charts:

9140	1:30,000	Corrected to 52 2/25
9193	1:120,000	June 1957

There are no major discrepancies, though reprinting of these nautical charts may at the discretion of the Nautical Chart Branch incorporate some or all of these changes.

66. Adequacy of Results and Future Surveys:

Field inspection of shoreline is incomplete and does not include the interior, except for control. However, field inspection appeared adequate. Some detailing as accomplished by office interpretation only may be subject to error and indicate the only cause of deficiencies in accuracy and adequacy.

Reviewed by:

Josef J. Streifler

Approved:

Chief, Review & Drafting Sec.
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Div.
20 March 1958

Chief, Coastal Surveys

Summary
To Accompany Topographic Maps
T-11553 and T-11554

The two subject topographic surveys cover the area from Cape Chisak of Little Tanaga Island eastward to Anagaksik Island. It is part of the Andreanof Islands chain of the Aleutians in Alaska.

Compiled originally as preliminary shoreline surveys in 1955 from 1953 nine-lens photography in support of the hydrographic party, they were revised in 1956 after 1956 season field inspection. In 1957 the two surveys were completed on the Reading Nine-lens Plotter as topographic maps.

They will be published by the Army Map Service as standard topographic quadrangles at scale of 1:25,000 with the addition of hydrographic information.

A "Cronar" film positive at manuscript scale of 1:20,000 and the descriptive report as well as a cloth-backed printed copy in colors after final printing by AMS, will be registered and filed in the Bureau Archives.

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11553

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5-20-60	9141	L.V.E.	~~Before~~ After Verification and Review 3MA
6-9-61	9140	R.E. Elkins	Completely applied except for contours ~~Before~~ After Verification and Review Partly applied
		E. Thomas	a small part applied thru cht 9141 drgs. revised shoreline & elevations.
2/14/66	9193	John R. Weir	~~Before~~ After Verification and Review Completely applied
			except for contours thru Chr 9140 dwg #5
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 11554

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11-17-58	Reconstr. 8863	J.T.W.	~~Before~~ After Verification and Review
6-9-61	9140	R.E. Elkins	Completely applied except for contours ~~Before~~ After Verification and Review Partly applied
			revised shoreline and elevations.
6/63	8862	C Misfeldt	~~Before~~ After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.