

9933

9934

ORIGINAL

Diag. Cht. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic
Field No. _____ Office No. T-9933
T-9934

LOCALITY

State Alaska
General locality Aleutian Islands
Locality Kanaga Island

1945

CHIEF OF PARTY
S. B. Grenell
Photogrammetry Division
Washington, D. C.

LIBRARY & ARCHIVES

DATE

MAY 6 1950

B-1870-1 (1) + +

DATA RECORD

T - 9933 and T-9934

Project No. (II): **PH-34 (48)** Quadrangle Name (IV): **T-9933 - Belleview Beach**
T-9934 - Westway Bight

Field Office (II): **Ship EXPLORER** Chief of Party: **S. B. Grenell**

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

Instructions dated (II) (III):
Supplemental Instructions 19 March 1952 Copy filed in Division of
" " 20 Feb. 1953 and 23 Dec. 1953 Photogrammetry (IV)
Director's Letter No. 22/MEK, S-1-EX. 4 May 1954
Compilation Instructions 21 Sept. 1954

Method of Compilation (III): **Reading Plotters**
Models A and B

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

Scale Factor (III):

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

Applied to Chart No. Date: Date registered (IV): **1-9-56**

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:

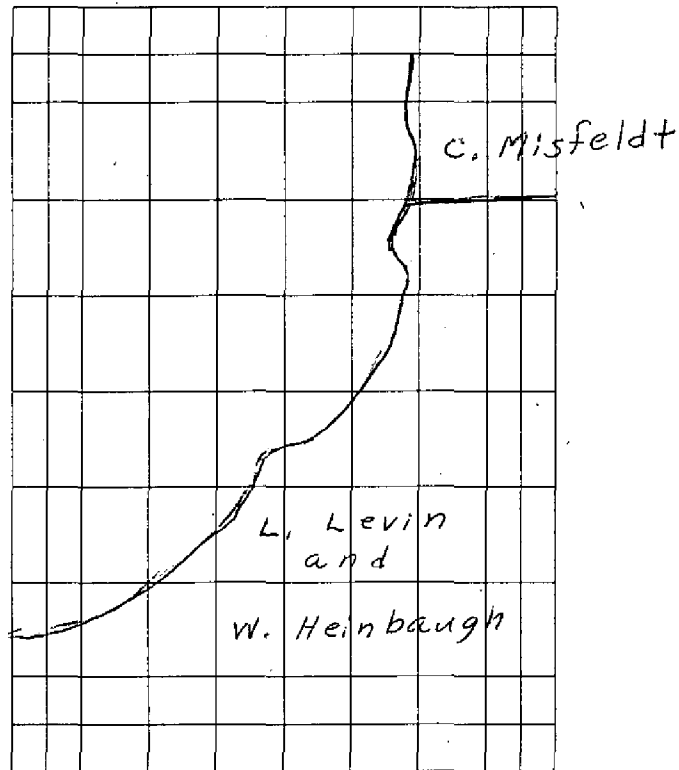
Y= X=

Universal Transverse Mercator Grid Alaska Zone 1
with 1000 meter interval indicated with marginal ticks.

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.

T-9933

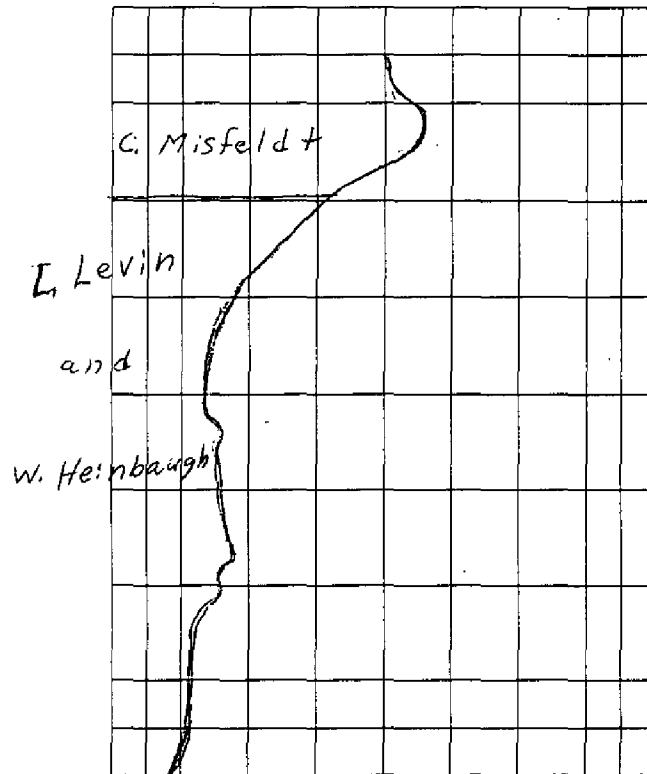


Areas contoured by various personnel

(Show name within area)

(II) (III)

T-9934



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

DATA RECORD

Field Inspection by (II): **Shoreline inspection by C. W. Clark
and H. A. Garcia**

Date: **1953
1954**

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

**Located by nine-lens plotter, using photographs taken 1 July 1952 and 1954
shoreline inspection**

Projection and Grids ruled by (IV): **Austin Riley (T-9933)
Austin Riley (T-9934)**

Date: **9/20/54 1/7/54
4/15/54 3/22/54**

Projection and Grids checked by (IV): **H. D. Wolfe**

Date: **9/20/54 1/8/54
4/16/54**

Control plotted by (III): **C. O. DeMarr and
G. Amburn**

Date: **10/54**

Control checked by (III): **C. O. DeMarr and R. J. French**

Date: **10/54**

Radial Plot ~~and Stereoscopic~~ **S. Blankenbaker**
~~Control checked by (III):~~ **R. J. French**

Date: **Nov. 1954**

Stereoscopic Instrument compilation (III):
Planimetry **C. Misfeldt**
W. Heinbaugh
Contours **C. Misfeldt**
W. Heinbaugh

Date: **Nov. 1954**

Date: **Dec. 1954**

Manuscript delineated by (III): **Shoreline: R. Sugden
Topography: R. Sugden**

Date: **Nov. 1954
Feb. 1955**

Photogrammetric Office Review by (III): **T-9934 - C. Misfeldt**

Date: **July 1955**

Elevations on Manuscript
checked by (II) (III):

Date:

Camera (kind or source) (III): U.S.C.&G.S. Nine-lens camera, Model "B"
f = 8.25 inches

Number	Date	Time	Scale	Stage of Tide
37689 thru 37693	1 July 1952	17:30	1:20,000	-1.1 MHW
37697 thru 37703	1 July 1952	17:40	1:20,000	-1.1 MHW
37709 thru 37710	1 July 1952	17:51	1:20,000	-1.1 MHW
39000 thru 39001	9 Sept. 1952	9:27	1:20,000	-2.0 MHW

Tide (III)

Reference Station: Sweeper Cove - Adak Island
Subordinate Station: Hot Springs, Tanaga (West Coast)
Subordinate Station: Kanaga Bay, Kanaga (East Coast)

Washington Office Review by (IV): L.T. Stevens

Final Drafting by (IV): M. Charity

Drafting verified for reproduction by (IV):

Proof Edit by (IV): E.H. Ramey

Land Area (Sq. Statute Miles) (III): 13 sq. miles
Shoreline (More than 200 meters to opposite shore) (III): 13 miles
Shoreline (Less than 200 meters to opposite shore) (III): None
Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II):
Number of BMs searched for (II):

Recovered:
Recovered:

Identified:
Identified:

Number of Recoverable Photo Stations established (III):
Number of Temporary Photo Hydro Stations established (III):

Remarks:

Tide information, shown above, was based on data furnished directly by the Division of Tides and Currents, not from tide prediction tables.

Diurnal

Ratio of Ranges	Mean Range	Spring Range
		3.9
		3.1
		3.9

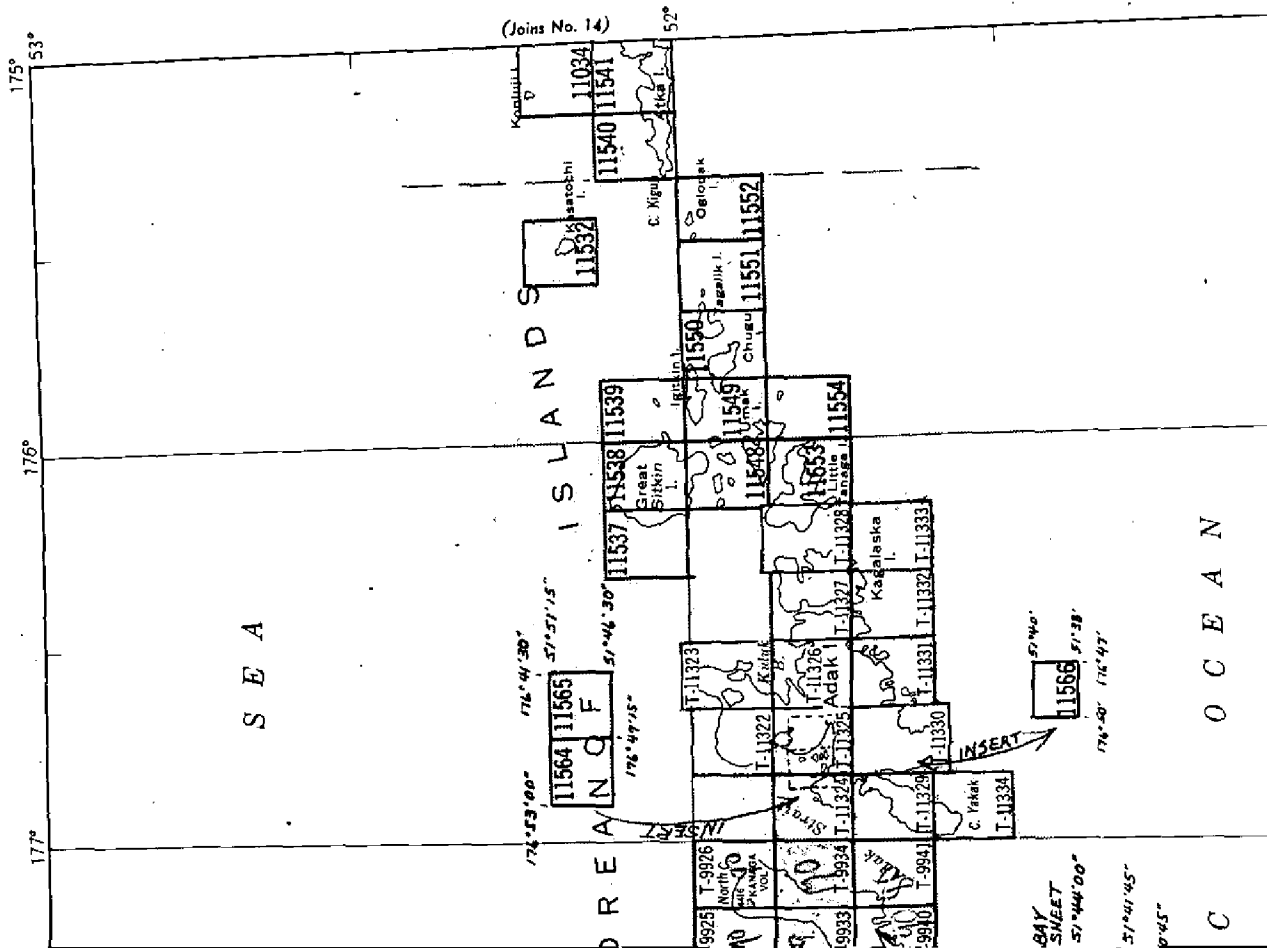
Date:

Date: Sept, 1955

Date:

Date:

RPPING PROJECT PH-34 S ALASKA Part B



Summary to Accompany Descriptive Report
T-9933 and T-9934

T-9933 and T-9934 are two topographic surveys which cover the central portion of Kanaga Island. These maps were compiled on the 9-Lens Reading Plotter. Field operations preceding compilation included field inspection of shoreline and offshore rocks, recovery and establishment of horizontal control, and the determination of elevations required to control a stereo-instrument project vertically. Compilation was at the scale 1:20,000. Contours were drawn at a 50-foot interval with a 25-foot interval supplementary contours. The maps received no field edit.

A cloth-backed lithographic print of each map at manuscript scale and the combined descriptive report will be registered and permanently filed in the Bureau Archives.

FIELD INSPECTION REPORT

included in

Descriptive Report for T-9925 and T-9926

PHOTOGRAMMETRIC PLOT REPORT

included in

Descriptive Report for T-9925 and T-9926

MAP T. T-9933 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

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)
Bet 1943 d.	V 184	NA1927	51-51-54.182 177-12-05.884	1674.6 (179.8) 112.6 (1035.5)			
Mad 1943 d.	184		51-50-18.838 177-12-49.419	582.2 (1272.2) 946.2 (202.7)			
Dog 1943 d.	185		51-46-51.268 177-18-31.474	1584.5 (269.9) 603.4 (546.8)			
Kana 1943 d.m.	V 179		51-45-57.346 177-17-01.805	1772.4 (82.0) 34.6 (1116.0)		on sharp 30-ft pinnacle	
Mid 1943 d.m.	178		51-45-46.530 177-13-58.247	1438.1 (416.3) 1117.1 (33.5)			
North 1943	183		51-45-46.385 177-13-58.682	1433.6 (420.8) 1125.5 (25.1)			
Ana 1943 sub.pt.2 (Kana)	less		51-45 177-17	1707.2 (147.2) 94.3 1056.3			
King 1943 1954	than		51-49-31.429 177-13-45.864	971.4 (883.0) 878.4 (270.7)			
King sub.sta.	third		51-49 177-13	967.5 (886.9) 879.1 (270.0)			
	order						

1 FT. = 3048006 METER

COMPUTED BY: L.C. Lande

DATE Oct. 1954

CHECKED BY: C.O. DeMarr

DATE Oct. 27, 1954

M-2388-12

MAP T. 0934 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
Sharp 1954		NA1927	51-51-52.700 177-04-00.581	1628.8	(225.6)				
Sharp sub. sta.			51-51- 177-03	1637.4	(217.0)				
				1833.1	(150)				
Cameo 1954			51-48-10.819 177-07-34.692	334.4	(1520.0)				
				664.7	(485.0)				
Cameo Sub.Sta.			51-48- 177-07-	295.3	(1559.1)				
				634.1	(515.6)				
Gate 1943	178		51-51-21.026 177-08-56.412	649.9	(1204.5)				
				1079.7	(68.8)				
Roe USN 1933	164		51-45-42.897 177-07-17.556	1325.8	(528.6)				
	Less than 3rd order			336.7	(813.9)				
Rig (Rock) 1954	Topo		51-51-32.267 177-03-16.780	997.3	(857.1)				
				321.1	(827.1)				
Saw 1954 (Rock)	Topo		51-51-44.581 177-03-10.245	1377.9	(476.5)				
				196.1	(952.1)				
P-018 (1954)	Topo		51-52-17.536 177-09-15.320	542.0	(1312.4)				
				293.1	(854.8)				

1 FT. = 3048006 METER

COMPUTED BY: L.C. Lande

DATE: October 1954

CHECKED BY: C.O. DeMarr

DATE: Oct. 27, 1954

M-2388-12

COMPILATION REPORT
T-9933 - T-9934

31. DELINEATION:

See Compilation Report for T-9925 and T-9926 for special methods used in the preparation of the compilation manuscript (re: grids and controls).

Shoreline, contours and interior planimetry were delineated using Reading Plotters (Models A and B) and rectified, metal-mounted nine-lens photographs.

32. CONTROL:

Horizontal control and vertical control were adequate. Refer to Paragraph 23 of Radial Plot Report.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

The quality and coverage of the photographs were fair and, consequently, no unusual difficulty was encountered in delineating the contours and drainage.

35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline inspection was adequate. Some loss of detail along the shoreline was encountered as a result of bluff overhang and shadows but, by constant reference to field inspection photographs during delineation, it is believed that accuracy is adequate.

36. OFFSHORE DETAILS:

Some loss of detail in the many offshore features was encountered as a result of surf, bluff overhang and shadows but, by constant comparison and reference to field inspection photographs during delineation, it is believed that accuracy is adequate.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

One Form 524 has been submitted for each of the two maps.

A list of the photo-hydro and topo stations is included in the notes to the hydrographer.

39. JUNCTIONS:

Junction with T-9933 was made on the west by T-9932, on the south by T-9940, on the east by T-9934, and on the north by T-9925.

Junction with T-9934 was made on the west by T-9933, on the south by T-9941 and on the north by T-9926.

All junctions are in agreement.

40. HORIZONTAL AND VERTICAL ACCURACY:

Not applicable. See Items 31, 32, 34 and 38.

46. COMPARISON WITH EXISTING MAPS:

The manuscripts were compared with the following maps:

ADAK (U.S.G.S.)	N5115-W17600/60 x 120	1:250,000	(1951)
KANAGA ISLAND (War Dept., Corps of Engrs.)	N5141.5-W17704/7.5 x 10	1:25,000	(1943)
KANAGA ISLAND (War Dept., Corps of Engrs.)	N5149-W17703/7.5 x 10	1:25,000	(1943)
KANAGA ISLAND (War Dept., Corps of Engrs.)	N51405-W17714/7.5 x 10	1:25,000	(1943)
PRELIMINARY SHORELINE MANUSCRIPT (U.S.C.&G.S.)	RS-189	1:20,000	(1953)

47. COMPARISON WITH NAUTICAL CHARTS:

The manuscripts were compared with the following charts:

9193	Atka Pass to Adak Strait	1:20,000
8863	Igitkin Island to Semisopochnoi Island	1:300,000

48. GEOGRAPHIC NAME LIST:

Appended.

49. NOTES FOR THE HYDROGRAPHER:

Appended.

Approved:

Respectfully submitted:

Louis Levin
Louis Levin
Supervisory Cartographer

Wallace Heinbaugh
Wallace Heinbaugh
Cartographer

GEOGRAPHIC NAMES

Survey No. **T-9933**
T-9934

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
<u>T-9933</u>									
Alaska									1
Bering Sea									2
Aleutian Islands									3
Belleview Beach									4
Kanaga Island									5
Kanaga Sound									6
Lakeside Point									7
									8
<u>T-9934</u>									9
Alaska									10
Bering Sea									11
Adak Strait									12
Aleutian Islands									13
Kanaga Island									14
Naga Point									15
Ripper Rocks									16
Shoal Point									17
Weed Bight									18
Westway Bight									19
									20
									21
									22
									23
									24
									25
									26
									27

Review Report T-9933 and T-9934
Topographic Maps
26 August 1955

62. Comparison with Registered Topographic Surveys:

There are no prior surveys in the area of T-9933 and T-9934.

63. Comparison with Maps of Other Agencies:

USE, Kanaga Island (Sheets 1, 4, 5) 1:25,000 1943 (Local Datum)

These maps were compiled by multiplex from 1943 photographs and are in general agreement with T-9933 and T-9934, except that the quadrangles use the ledge symbol more extensively. In general, these are the kelp areas on T-9933 and T-9934. The greater detail of shoreline and foreshore features on T-9933 and T-9934 fits them to supersede the quadrangles in this respect for charting purposes.

64. Comparison with Contemporary Hydrographic Surveys:

H-8057 1:60,000 1953 North Tanaga and Kanaga Islands

No hydrographic work was done near shore because of the extreme hazard. The shoreline and foreshore features for H-8057 are those of the contemporary topographic surveys.

H-8143 1:20,000 1954 Northeast Kanaga Island

Blueprints (51866 and 7 of the boat sheet were available for use during review. Except for Weed Bight just north of Shoal Point and from hydro signal PAT to the vicinity of OWL, just south of Shoal Point, no hydrography was done near shore. The 1- and 2-foot soundings at the south end of Weed Bight are very near the shoreline but seem not to be in conflict.

65. Comparison with Nautical Charts:

9193 1:120,000 July 1953

A rock is charted at Belleview Beach ($51^{\circ} 49' / 177^{\circ} 12-1/2'$, T-9933). Field inspection of 7-8-54 (1.7-ft. tide) on photo 37692, and on 7-1-54 (0.6-ft. tide) on photo 37691 found no rocks visible.

Several islets for offshore are not charted (hydro stations Roy, Mal, Sam, topographic station King, 1954). Hydrography did not extend so far landward. (*Hand corrected on chart Aug. 1955*)

66. Accuracy:

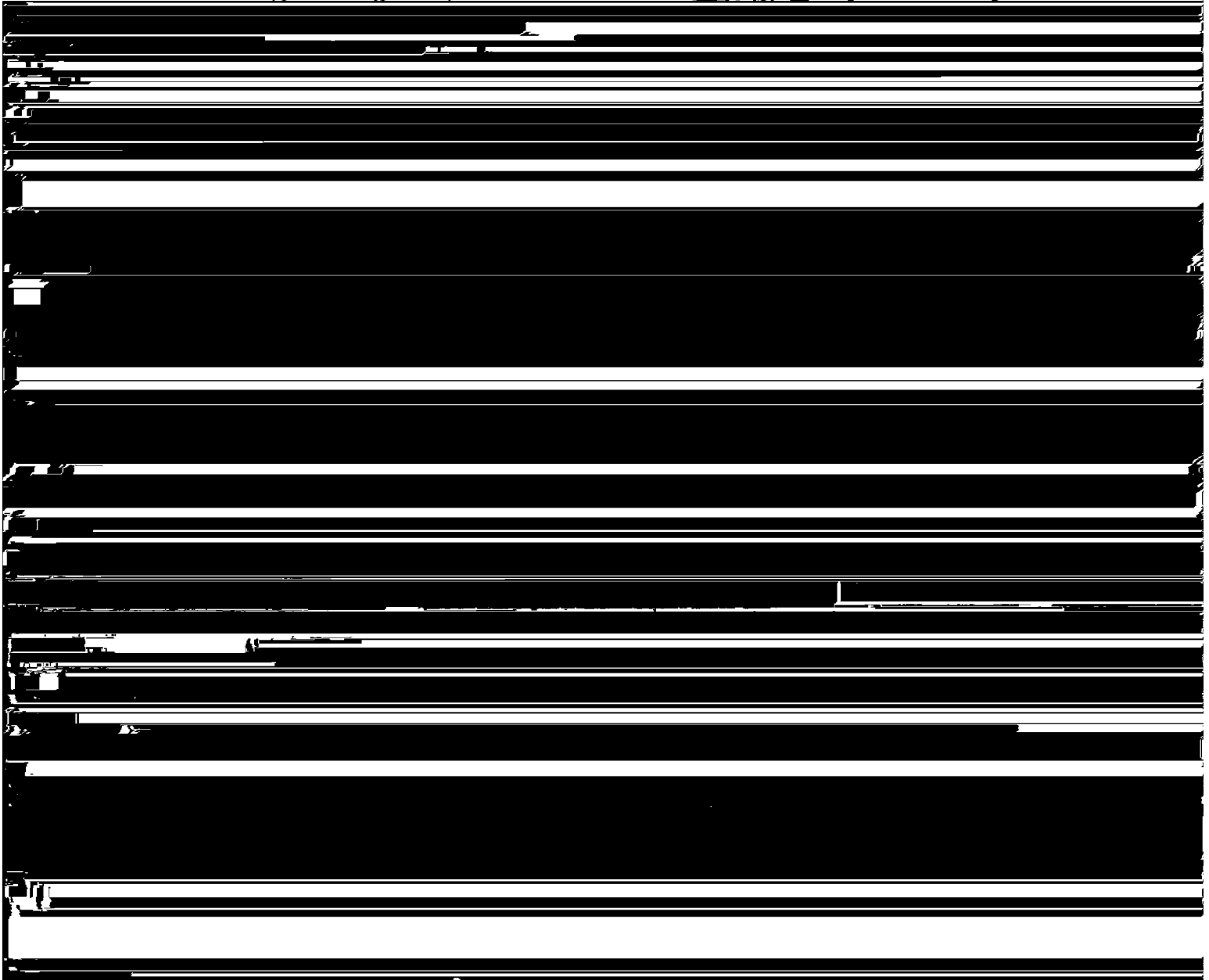
The maps comply with project instructions, are complete and adequate ✓
for charting, and meet the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED:

D. D. C. 1001 f



NOTES TO HYDROGRAPHER

The following topographic stations were established in the field:

T-9933	King 1954 (hydro New (WW) on H-8057)
T-9934	Tide 1954

The following photo-hydro stations were established:

<u>Name</u>	<u>Photograph No.</u>	<u>Description</u>
	<u>T-9933</u>	
BIN	37709	West gable of cabin
JAY	37310	WW
JOB	37691	WW on point of bluff
LIZ	37691	WW
MAL	37692	Highest point of rock, bare 3' at MHW
NAN	37692	WW