

11550

11551

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

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic
Field No. Ph-34 Office No. T-11550
T-11551

LOCALITY

State Alaska
General locality Andreanof Islands
Locality Chugul I. - Tagalak I. -
Fenimore Rk.1953-56

CHIEF OF PARTY

G.A.Nelson, Chief of Party
L.W.Swanson, Div. of Photo. Wash., D.C.

LIBRARY & ARCHIVES

DATE July 26, 1962

USCOMM-DC 5087

11551
11550

DATA RECORD

11550
T - 11551

Project No. (II): Ph-34 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): 31 October 1955

Copy filed in Division of
Photogrammetry (IV)

Office Files

Method of Compilation (III): *shoreline*
Graphic Compilation

Topography
Nine Lens Plotter

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): 11 Dec 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927 adj

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=

UTM 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.

DATA RECORD

Field Inspection by (II): G. W. Clark

Date: 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location): From aerial photos listed on following page and 1956 Field Inspection.

Projection and Grids ruled by (IV): A. Riley

Date: 10-27-55

Projection and Grids checked by (IV): A. Riley

Date: 10-27-55

Control plotted by (III): B. Hale
G.A. Walker, Jr.

Date: 11-21-55
1-16-56

Control checked by (III): D.D. Carrier
K.N. Maki

Date: 11-55
1-19-55

Radial Plot or Stereoscopic Control extension by (III): S. G. Blankenbaker

Date: 2-10-56

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

Date:
Date: 8-57

Manuscript delineated by (III): Shoreline:
T-11550 H. Lucas
T-11551 G.S. Amburn

Date:
11-28-56
11-28-56

Photogrammetric Office Review by (III): E. Ramey - Shoreline
L. Levin - Topography

Date:
8-20-57

Elevations on Manuscript checked by (II) (III): L. Levin

Date: 8-20-57

Camera (kind or source) (III):

Number	Date	Time	Scale	Stage of Tide
41931	9/21/53	2:02	1:20,000	2.5' above MLLW
42109	9/25/53	1:13	"	3.3' " "
42110	"	1:14	"	3.3' " "
42111	"	1:15	"	3.3' " "
42112	"	1:15	"	3.3' " "
42113	"	1:16	"	3.3' " "
42122	"	1:57	"	3.4' " "
42123	"	1:58	"	3.4' " "
42124	"	1:58	"	3.4' " "

Tide (III)

Reference Station: Sweeper Cove

Subordinate Station:

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
		3.7

Washington Office Review by (IV): J. J. Streifler

Final Drafting by (IV): Althea Boldin T-11550
Althea Boldin T-11551

Drafting verified for reproduction by (IV): W O Halluin

Proof Edit by (IV):

Date: Oct. 57

Date: 9-1-60
10-20-60

Date: 11-28-60

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):

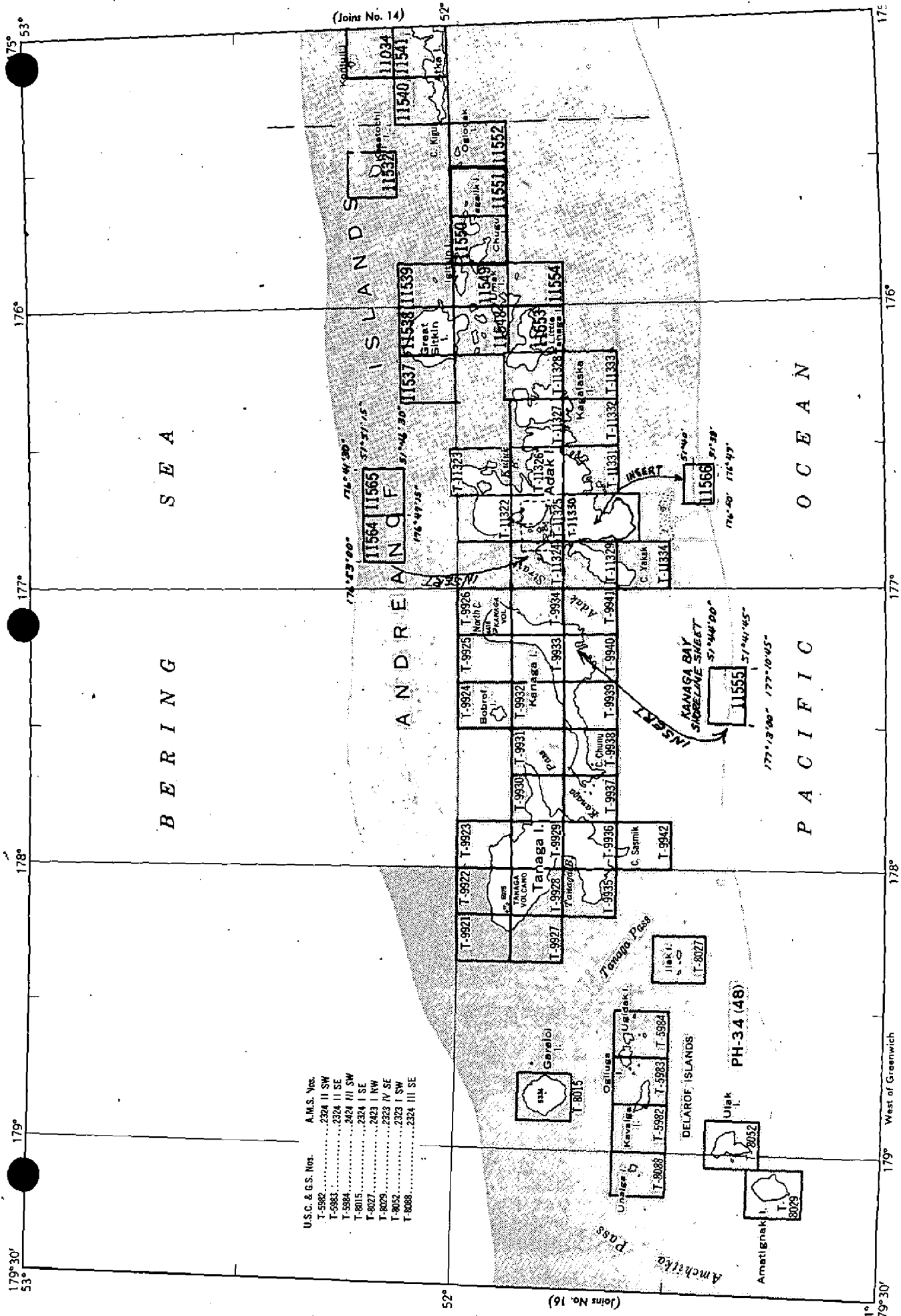
Number of Temporary Photo Hydro Stations established (III):

Remarks:

T-11550 and T-11551

W. Heinbaugh

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



The field inspection report is filed with T-11328.

Photogrammetric Plot Report

21. AREA COVERED

The plot extends from the extreme eastern end of sheet T-11549 eastward to include T-11550, T-11551 and T-11552 in their entirety.

A large plot was laid in February 1956 which included this area. The report on this plot is filed under T-11538. Only office-identified control was available at that time for the plot. This plot, which is based on field-identified control, is considered final.

22. METHOD

The plot was assembled on 1:20,000 scale manuscripts on which polyconic projections and 1000-meter interval UTM grids were ruled. The grid lines were used to junction the manuscripts.

The original templets of the preliminary plot were reused after the addition of the new horizontal and vertical control.

Photograph preparation consisted of adding newly field-identified control - both horizontal and vertical. Previous office-identified control agreed with the field identification and required no corrections in the photographs or templets.

22. METHOD

The plot was begun by holding to three field-identified control stations in the eastern part of T-11549. It was extended eastward to T-11552 by holding to newly field-identified control furnished by the 1956 field party. Positions shifted from the preliminary plot by 0.3 to 0.5 mm. eastward in T-11550 and T-11551 and the eastern part of T-11549. There was no measurable shift for positions in T-11552. The newly-identified control produced a stronger fix for the plot in an east-west direction which accounted for the above shift. For T-11549 only a few points were affected and these have been recircled on the manuscripts.

23. ADEQUACY OF CONTROL

Eight field-identified stations were used to control this plot. Except for station "RIP 1943", all stations

were held in the plot. The plot position of station "RIP 1943" fell 0.8 mm. west of the plotted position. This station fell in a small indentation in a bluff and identification was extremely doubtful.

Control was considered adequate. (See ~~attached~~ plot sketch. ~~FILE T11538~~ filed with the Report for T11538)

24. SUPPLEMENTAL DATA

None

25. PHOTOGRAPHY

The photography is considered adequate as to definition, coverage and overlap.

Submitted by:

Oster P. Battley, Jr.
Oster P. Battley, Jr.
Cartographer

Approved by:

Everett H. Ramey
E. H. Ramey, Chief
Graphic Compilation Unit

SCALE FACTOR

1 FT. = .3048006 METER	COMPUTED BY: B. Hale	DATE 11-21-55	CHECKED BY: K.N.Maki	DATE 11-21-55	COMM. DC-5784
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SCALE FACTOR

1 FT. = 3048008 METER	COMPUTED BY: B. Hale	DATE 11-21-55	CHECKED BY: K.N.Maki	DATE 11-21-55	COMM-DC-5704
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COMPILATION REPORT

T-11550 and T-11551

These manuscripts were compiled as "preliminary" in February, 1956 and were revised as "advance", after shoreline inspection and additional control were obtained during the 1956 field season. The contours and drainage were delineated onto the advance shoreline manuscripts using the Reading Nine-Lens Plotters.

31. Delineation

Shoreline detail was delineated stereoscopically on vinylite worksheets, which were adjusted to the manuscript scale, between common pass points.

The shoreline inspection notes were added and shoreline and foreshore information were changed on the "incomplete" manuscripts as noted on the field inspected photographs. As there was little MHWL delineated on field photographs, only a few changes could be made from the approximate shoreline, as shown on the incomplete manuscripts to the solid line MHWL symbol. The remaining approximate MHWL is in areas of deep shadow and overhanging cliffs etc.

Field inspected photographs (9-lens) used in this compilation, are as follows: 41930, 41931, 41932, 42108, 42109, 42110, 42111, 42112, 42113, 42123, 42124, 46051, and 46052.

32. Control

Control was adequate for compilation purposes. Position shift for this manuscript is described in the Photogrammetric Report for surveys T-11550 thru 11552, par. 22. The datum shift was slight, between 0.3 to 0.5mm eastward. These new positions, on the advance manuscript, were used in replotting the shoreline information including the field inspection report, photos etc. All vertical control furnished by the field party was "held" on the instrument.

33. Supplemental Data

Vinylite impression of T-11550 and T-11551 - "preliminary".

Positions of hydrographic stations were repositioned onto these "advance" manuscripts by holding to the new positions of pass points.

34. Contours and Drainage

There are no areas of doubtful contours or drainage.

35. Shoreline and Alongshore Detail

The photograph coverage for the manuscript was fair, considering shadows, relief displacement and the like which in some instance required delineating an approximate MHWL. Foul limits inside kelp areas were not generally outlined on the photos, but were noted with the word, foul, with some outlined. Other limits of foul and kelp were determined from photographs in the office. Coverage and overlap adequate.

36. Offshore Detail

Foul, kelp, offshore rocks and reefs and other features were compiled as interpreted from field inspection notes.

37. Landmarks and Aids

Chugul Island light falls on T-11550 and is recorded on attached, form 567.(copy).

38. Control for future surveys

NONE

39. Junctions

Junction with all contemporary surveys as shown on attached location diagram, was made.

40. Horizontal and Vertical Accuracy

See par. 32, this report.

46. Comparison with existing maps

ATKA scale 1:250,000 USGS

47. Comparison with Nautical Charts

9138, 9139, scale 1:30,000
9193 1:20,000

Items to be applied to nautical charts immediately--
None.

Items to be carried forward---None.

Submitted by:

Wallace Heinbaugh
Wallace Heinbaugh
Cartographer

Approved by:

Louis Levin
Louis Levin
Super. Cartographer
Nine-lens Stereo Mapping Unit

GEOGRAPHIC NAMES

Survey No.

T-11550

Name on Survey

	A	B	C	D	E	F	G	H	K	
Andreanof Islands										1
Bering Sea										2
Cape Kagalus										3
Cathedral Point										4
Chugul Island										5
Igitkin Island										6
Igitkin Pass										7
Kingfisher Point										8
Pacific Ocean										9
Tagalak Island										10
Tagalak Pass										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names approved
10-2-57. L. Heck

Name on Survey

[illegible]

Project 24050
T-11550 and T-11551

49. Notes to the Hydrographer

The field inspection of the 1956 Season has been applied to these surveys. It covered all shoreline west of Fenimore Pass. Except for final review, these surveys are in final form.

Revisions to these manuscripts comprised the addition of rock data and refinements in shoreline delineation. A datum shift resulted for most features on the surveys. New positions were obtained for photo-hydro stations. All features were compiled on to a new base manuscript.

In some instances shoreline features were badly obstructed on the photographs because of shadows and overhanging bluffs. Such areas are compiled with a dashed shoreline symbol. Generally the surveys are adequate as a topographic base for hydrographic surveys.

Review Report of
Topographic Maps T-11550 and T-11551
October 1957

62. Comparison with Registered Topographic Surveys:

T-6937	USN	1:24422.4	1934
T-6938	USN	1:24422.4	1934

There are some differences of interpretation of shoreline, bluffs and rocky ledges between these surveys. The general character and relative position of the islands are in good agreement. The adequately controlled subject topographic maps are to supersede above-listed surveys for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies:

The only previously published map of this ^{area} is Atka, Alaska of Alaska Reconnaissance Topographic Series of 1952 by the U. S. Geological Survey at scale of 1:250,000. The scale difference is inadequate for comparison.

64. Comparison with Contemporary Hydrographic Surveys:

H-8306	1:20,000	1956
H-8308	1:20,000	1956

T-11550 and T-11551 were originally compiled as shoreline surveys to be furnished for afore-mentioned hydrographic surveys. Subsequent field inspection and final review resulted in minor additions and changes, which do not interfere with the compiled hydrographic information. These corrections have yet to be applied to the effected hydrographic surveys.

65. Comparison with Nautical Charts:

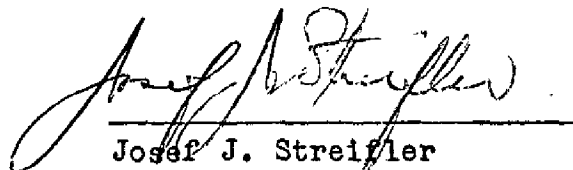
9138	1:30,000	Corrected to 52 7/22
9139	1:120,000	Corrected to 52 6/2

There are noteworthy differences in the shoreline of the larger islands, in the shape and size of numerous smaller islands and the representation of rocky ledges. Contemporary hydrographic surveys (listed under #64) will effect reprinting or new editions of nautical charts of this area.

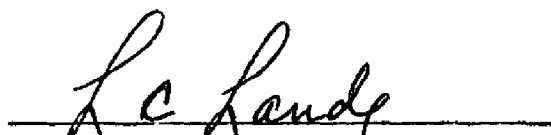
66. Adequacy of Results and Future Surveys:

Field inspection of shoreline, foreshore and offshore is incomplete, however, appeared adequate for the area involved. Delineation by office interpretation only may be subject to minor errors. No other deficiencies in adequacy or accuracy were indicated.

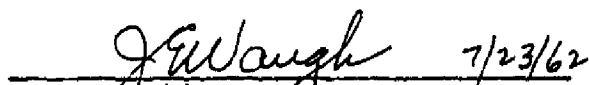
Reviewed by:


Josef J. Streifler

Approved:


Chief, Review & Drafting Sec.
Photogrammetry Division


Chief, Nautical Chart ~~Branch~~
~~Charts Branch~~ Division

 7/23/62
Chief, Photogrammetry Division


Chief, ~~Coastal Surveys~~
Operations Division

Summary
To Accompany Topographic Maps
T-11550 and T-11551

The two subject topographic surveys extend from Chugul Island eastward to Fenimore Rock, Andreanof Islands of the Aleutians, Alaska.

Shoreline, foreshore and offshore were compiled graphically in 1956 from 1953 and 1954 nine-lens photos and completed in 1957 on the Reading Plotter as topographic maps.

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

A "Cronar" film positive at manuscript scale of 1:20000 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-11550

Record of Application to Charts Review Oct 57

DATE	CHART	CARTOGRAPHER	REMARKS
10-23-59	9138 diag 4	E. M. Bragonje	Before After Verification and Review <i>Partly applied</i> <i>Exam - no revisions</i>
9-7-59	9139 diag 8	C. R. Helmer	Before After Verification and Review <i>Partly applied</i> <i>Minor shoreline revisions applied.</i>
2-8-61	9138 chartlet	J. H. Eaton NM 10 (61)	Before After Verification and Review <i>Partly applied</i> <i>Revisions made to agree with chit 9139 diag 8</i>
2-8-61	9140 chartlet	J. H. Eaton NM 10 (61)	Before After Verification and Review <i>Partly applied</i> <i>Revisions made to agree with chit 9139 diag 8</i>
6-9-61	9140	R. E. Elkins	Before After Verification and Review <i>Partly applied</i> <i>Minor shoreline revision app thru chartlet 9140 NM 10 (61), chit 9139 diag 8, chit 9138 diag 4.</i>
7-26-61	9140	R. E. Elkins	Before After Verification and Review <i>Partly applied</i> <i>revised shoreline and elevations.</i>
9-10-58	8863	C. R. Whitman	Before After Verification and Review <i>fully appd</i>
5/63	8862	C. Musfeldt	Before After Verification and Review <i>fully applied</i>
1-14-66	9139	E. M. Bragonje	Before After Verification and Review <i>Partly appd</i> <i>Shoreline detail</i> <i>Part direct part thru chit 9140</i> <i>(to be considered as final appd. till chit is reconstructed)</i>
2/18/66	9193	John P. W. Lin	Before After Verification and Review <i>Part. Applied.</i> <i>consider fully applied until reconstruction.</i>
3/15/68	9138	M. H. Mace	<i>Part applied after V & R., considers</i> <i>fully applied until after reconstr.</i>
8/3/70	9138	J. Allen	<i>Revised inshore topography and labeled every</i> <i>200 ft contours.</i>

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-11551

Record of Application to Charts

[illegible]

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.