Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey: Shoreline (Photogrammetric)
Field No.: Ph-87  Office No.: T-10403

LOCALITY
State: Southeastern Alaska
General locality: Davidson Inlet
Locality: Gas Rock

1953-1957
CHIEF OF PARTY
E. W. Richards, Chief of Field Party
W. F. Deane, Baltimore District Officer

LIBRARY & ARCHIVES

DATE
DESCRIPTIVE REPORT - DATA RECORD

T-10403

Project No. (II): Ph-87

Quadrangle Name (IV):

Field Office (II): C&GS Ship Hodgson

Photogrammetric Office (III): Baltimore, Md.

Chief of Party: R. A. Earle - 1956

E. W. Richards - 1957

Officer-in-Charge: William F. Deane

Instructions dated (II) (III):

Field: 25 Jan. 1955 13 Nov. 1956

21 Nov. 1956 23 Nov. 1956

30 Oct. 1957

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

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): MHW

Mean sea level except as follows:

Elevations shown as (+) refer to mean high water
Elevations shown as (-) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): FLAT, 1904

Lat.: 55° 55' 13.11" (405.6m)

Long.: 133° 33' 10.115" (176.1m)

Adjusted

Plane Coordinates (IV):

State: Alaska

Zone: 8

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.
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): L. D. Thurman
M. D. Christensen
J. P. Randall

Date: Aug.-Sept. 1957

Planetable contouring by (II):

Completion Surveys by (II): Some of the operations listed above

Mean High Water Location (III) (State date and method of location): 1955 Photographs - Office interpretation - Field inspection, 1957

Projection and Grids ruled by (IV): A. Riley
Date: 11/9/55

Projection and Grids checked by (IV): A. Riley
Date: 11/9/55

Control plotted by (III): F. M. Wisielecki
E. L. Williams
Date: 12/8/55
2/13/57

Control checked by (III): A. Queen
L. A. Senasack
Date: 12/16/55
2/18/57

Radial Plot Contouring by (III): L. A. Senasack
Date: 3/14/57

Stereoscopic Instrument compilation (III):

Contours

Manuscript delineated by (III): J. Honick
Date: 11/18/57

Photogrammetric Office Review by (III): R. Glaser
Date: 11/21/57

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

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<th>Scale</th>
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<td>0915</td>
<td>1:10,000</td>
<td>1.4 ft above MLLW</td>
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<td>n n</td>
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<td>n n</td>
<td>0936</td>
<td>n n</td>
<td>1.2 ft above MLLW</td>
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</table>

Tide (III)

From Predicted Tide Tables

| Reference Station: | Sitka, Alaska |
| Subordinate Station: | Fort Alice, Heceta Island |

Washington Office Review by: Lee F. Bagnard, Atlantic Marine Center

Date: March 1969

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
7

Shoreline (More than 200 meters to opposite shore) (III):
7

Shoreline (Less than 200 meters to opposite shore) (III):
0

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 2
Recovered: 2
Identified: 2

Number of BMs searched for (II): 1
Recovered: 2
Identified: 2

Number of Recoverable Photo Stations established (III): 1

Number of Temporary Photo Hydro Stations established (III): None

Remarks:
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<th>Remarks</th>
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<td>1957</td>
<td>Superseded</td>
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<td>Compiled &quot;ADVANCE&quot;</td>
<td>Nov. 1957</td>
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<tr>
<td>Final Review</td>
<td>Mar. 1969</td>
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-10403

Shoreline survey T-10403 is one of 58 similar surveys in project PH-87. It covers a part of the north shore of Heceta Island in the vicinity of Gas Rock. The primary purpose of the survey was to furnish new shoreline for nautical charts and photo-hydro support data for hydrographic surveys.

This survey was originally compiled as a preliminary manuscript. After field identification of horizontal control and field inspection, the radial plot was adjusted and the manuscript corrected from field inspection notes. The manuscript was then classified as advance.

Compilation was at 1:10,000 scale by graphic methods using the nine-lens photography of August 1955. A cronaflex copy of the manuscript along with a blueline tracing, ozalids and specially prepared photographs were subsequently furnished for preparation of the boat sheet, field edit and photo-hydro support.

The manuscript was a vinylite sheet 3 3/4 minutes in latitude by 5 minutes in longitude which was smooth drafted and reproduced on cronaflex. One cronaflex positive and one negative are forwarded for record and registry.
FIELD INSPECTION REPORT
HECETA ISLAND AND SOUTHWEST TUXEKN ISLAND

NO OTHER SECTIONS APPLICABLE.

3. HORIZONTAL CONTROL:

All triangulation stations on Manuscripts 10402, 10403 and 10405 thru 10409, and also in those areas on the south side of Heceta Island not covered by manuscripts, for which photographic identification was required, were recovered and pricked on photographs.

Stations identified were as follows:

| HEN 1904 | SURF 1903 | LOST 1907 |
| CWL 1904 | BAY 1903 | SILLA 1914 |
| COON 1904 | LYNCH 1907 | SKIP 1914 |
| TIP 1904 | GULL ROCK 1903-21 | NAeful 1914 |
| SNIP 1904 | MIKE 1907 | SPIKE 1914 |
| GRASS 1903 | EMERALD 1907-22 | SWIFT 1914 |
| PINE 1903 | WHITE CLIFF 1907-22 | QUINCE 1914 |

14. SUPPLEMENTAL DATA:

Forwarded to the Director:

1. Control Station Identification Cards - forwarded via transmitting letter HDG 56-7 (4 Aug.) and HDG-56-13 (16 Oct.).


Respectfully submitted,

James P. Randall,
Lt.(jg), USCGS

Approved and forwarded:

Robert A. Earle,
CDR, USCGS
Comdg., Ship HODGSON

1950
2. AREAL FIELD INSPECTION

Sea Otter Sound and Karheen Passage are used principally by fishermen, logging companies and freight boats.

Rock outcappings are metamorphic limestone and shale and are covered by a black scale at and above mean high water for a vertical span of from 2 to 4 feet.

Within the limits of this survey there are a number of cultural features.

On the north shore of Heceta Island at the extreme southern end of Sea Otter Sound, Lat. 55° 57' 00", Long. 133° 21' 36", there are four unoccupied buildings. There are four buildings still standing at Karheen, 800 meters south of station FLORA 1904-56 there is an abandoned fish trapper's cabin. A trapper's cabin can be found 500 meters south of station BARK 1904-57 and another is located at Lat. 55° 46' 15", Long. 133° 20' 15".

Three operating logging camps fall within or near the limits of this survey. Two of the camps show on the photographs, the third is a small gypco outfit that has been logging in Fort Alice. The camp is located on floats at the very head of Fort Alice but the logging is being done just south and behind station FINE 1904-57.

The ruin of a barge is located in the long narrow gut immediately north of Karheen.

Densities and tones were not inspected inshore of the storm high water line.

Skeletal and kelp areas were noted, where discernible, on the photographs.

3. HORIZONTAL CONTROL

(a) Station FINE 1903-57, being in error in 1956, was reidentified and a Control Station Identification Card submitted.

(b) Stations HEN, 1904-56 and COON 1904-56 were not reidentified.

(c) Stations MARS 1914-52, STEAD 1952, QUINCE 1914 and WAR 1914 were reidentified and Control Station Identification Cards were submitted.

(d) PEPP ROCK LIGHT 1957, CHAPIN ISLAND RANGE FRONT DAYBEACON 1957 and CHAPIN ISLAND RANGE REAR DAYBEACON 1957 were located by 3rd order triangulation.

4. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

Contours - inapplicable.
Within the limits of this survey there are a number of small streams, none of major importance.

6. WOODLAND COVER

All land areas not covered by storm high water are densely forested with the exception of muskegs, logged areas and the higher mountains.

Conifers - hemlocks, spruce and cedars, comprise the major portions of the cover, with the cedars favoring the low wet areas.

Many small logging operations have been conducted in this area and though they span a number of years all are well defined.

Scattered patches of alder and crabapple can be found along the beaches, and show as a dark globular mass against the lighter conifers.

7. SHORELINE AND ALONGSHORE FEATURES

The shoreline was inspected from the beach at all photo-hydro signals locations and from the boat in all other areas.

(a) The office interpretation of the mean high water line was, in general, quite accurate, even in the heavily shadowed areas. In all the large areas of shadowed shoreline, the mean high water line was located by sextant angles taken to photo-hydro signals. The angles were recorded on the back of the photographs. In smaller areas the shoreline was readily discernable and was delineated directly on the photographs.

(b) The low water line corresponds closely with the darker color tone at the offshore edge of alongshore and offshore features.

(c) The foreshore consists of rock outcrops and boulders, with the exception of deltaic muds, sands, and gravels, at the mouths of the larger streams.

(d) There are no noteworthy bluffs or cliffs.

8. OFFSHORE FEATURES

All offshore features were visited. All shoal and foul areas were indicated on the photographs.

Visible rocks were indicated and their heights or depths, time and dates were noted.

All rocks not visible on the photographs were located by sextant angles to photo-hydro signals. The fixes were recorded on the back of the photographs along with the heights or depths, time, and date.
9. **LANDMARKS AND AIDS**

There are six (6) floating aids to and four (4) fixed aids to navigation located within the limits of this survey. They are:

- Karheen Passage Daybeacon
- Point Swift Shoal Buoy 2
- Karheen Passage Buoy 1
- Karheen Passage Buoy 2A
- Ham Island Reef Buoy 3
- Chapin Island Range Front Daybeacon
- Chapin Island Range Rear Daybeacon
- Cob Island Reef Buoy 4
- Karheen Reef Buoy 6
- Peep Rock Light

Landmarks - none.

10. **BOUNDARIES, MONUMENTS**

Inapplicable.

11. **OTHER CONTROL**

None.

12. **OTHER INTERIOR FEATURES**

Not applicable.

13. **GEOGRAPHIC NAMES**

Geographic names will be covered in a separate report.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

(a) Forwarded to the Director:

2. Tidal Data, Port Alice Tide Gage, via transmitting letter, 14 Oct. 1957.
3. 9 Lens Field and Office Photographs, Scale 1/10,000, via transmitting letter 15 Oct. 1957.

(b) Forwarded with this report:

1. Control Station Identification Card
2. Nine Lens Field and Office Photographs, Scale 1/10,000
(c) To be forwarded to the Director:

1. Description of Triangulation Stations
2. Geographic Names Report
3. Coast Pilot Notes

Respectfully submitted,

Loyd D. Thurman
Ens., C&GS

Approved and forwarded:

E. W. Richards,
LCDR, C&GS
Comdg., Ship KODGSON
PHOTOGRAMMETRIC PLOT REPORT

Project 27070 (6087)
Surveys T-10402 thru T-10409 & T-11427

21. AREA COVERED

This radial plot covers the area of surveys T-10402 thru T-10409
and the southwest corner of T-11427. They are shoreline surveys along
north shore of Heceta Island near Prince of Wales Island, Alaska, from
Tuxekan Island to Cape Lynch.

22. METHOD - RADIAL PLOT

Map Manuscripts:
Vinylite sheets with polyconic projections in black and U.T.M.
Alaska, Zone 8 grids in red, at a scale of 1:10,000 were furnished by
the Washington Office.

All control stations and some substitute stations were plotted
using the meter bar and beam compass, the remaining substitute stations
were plotted graphically.

Base sheets were prepared in this office.

A sketch, showing the layout of surveys and distribution of control
and photograph centers, and a list of unidentified stations which are
numbered on the sketch, are attached to this report.

Photographs:
There were forty-nine (49) nine-lens unmounted photographs, at a
scale of 1:10,000 used in this plot. The photographs are numbered as
follows:

41320 thru 41325
41691 and 41692
41713 and 41714
41728 and 41729

51994 thru 52006
52029 thru 52035
52037B thru 52041
52073 thru 52079
52165 thru 52169

Templets:
Vinylite templets were made for all photographs using a master
templot to correct for errors due to paper distortion and chamber dis-
placement.

Closure and Adjustment to Control:
This radial plot is an extension of the supplementary plot for
Surveys T-10397 thru T-10399 (See Descriptive Report for surveys No.
T-10382 thru T-10384). The radial plot was constructed starting from
T-10404 and running southward to T-10409, tying into control identified
in the field in 1952. The plot was then bridged westward across Hecata
Island, to survey T-10405 and to the pass points previously established
on survey T-10401. Eight (8) of the thirty-eight (38) field identified control stations could not be held, but a satisfactory plot was obtained.

Transfer of Points:
Each map manuscript was placed over the finished plot and oriented holding common grids and all pass points and photograph centers were pricked on the map manuscript.

23. ADEQUACY OF CONTROL

There was adequate control to obtain a satisfactory radial plot.

The following stations could not be held in the plot.

LIME, 1952 - The radially plotted position falls approximately 10 meters to the SSW of the plotted position. This station falls outside of the delineation area. The error is probably due to difficulty of transfer to new photography. Since there were sufficient other stations to control the plot, no further investigation was made.

QUINCE, 1914 - The radially plotted position falls approximately 27 meters to the SE of the plotted position. This is believed to be misidentified in the field. The point which is identified can not be seen from NUT, 1914 and ANON, 1914, to the southwest.

HEN, 1904 - The radially plotted position for the Sub. Pt. falls 196 meters to the east of the plotted position. This was misidentified in the field on another reef. It was not re-identified in the office.

COON, 1904 - The radially plotted position falls 6 meters to the west of the plotted position. This station was misidentified in the field. It could not be re-identified accurately in the office.

NAPUL, 1914 - This station was not held in the radial plot but due to lack of a sketch re-identification could not be made. It is probably misidentified on another boulder. This station is outside of the project limits and there is sufficient other control for a satisfactory plot.

FINE, 1903 - The radially plotted position falls approximately 980 meters (0.6 mile) south of the plotted position. The sketch did not agree with the area at the true position and no attempt was made in this office to try to re-identify it.

LEAN, 1903 - The geographic position for this station plots in deep water on chart 8171. No rocks or other detail show on the photographs in this area. It is assumed that the published position might be incorrect. The position is unchecked.

SOUTH POINT, LOW BLACK POINT, 1903 - The geographic position for this station plots in deep water on Chart 8171. No rocks or other detail show on the photographs in this area. It is assumed that the published position might be incorrect. The position is unchecked.
BAY, 1903 - The radially plotted position for Sub. Pt. No. 1 falls 13 meters to the south southwest of the plotted position. The radially plotted position of Sub. Pt. No. 2 falls 47 meters to south of the plotted position. These are believed to be misidentified in the field. The Sub. Pts. are potholes in an area where they are numerous. It was not possible to re-identify the correct image points.

WHITE CLIFF, 1907-22 - This station is believed to be misidentified in the field. Since this station is far outside of the project limits; stations MIKE, 1907 and EMERALD, 1907-22, which are closer to the project were held.

More time was consumed in identifying the control in this plot than in a normal plot. The greatest amount of time was used in trying to prick on the office photographs points identified on the field photographs that did not agree for various reasons such as, with the information on the identification cards and/or Form 526. The following is a list of some of the stations where a great deal of time was consumed:

MIKE, 1907
SILLA, 1914
OWL, 1904
COON, 1904
LIME, 1952
SWIFT, 1914
MARS, 1914
HEN, 1904
GRASS, 1903
BAY, 1903
WHITE CLIFF, 1907-22

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

The photograph definition and photograph coverage for this plot was good. It was noted, however, when making templets that some difficulty was encountered in trying to adjust the templet to the fiducial marks on the photographs in the center chambers. A study was made of this 1955 copy but there seemed to be no apparent answer for this trouble.

Respectfully submitted
14 March 1957

Leroy A. Senasack
Carto. Photo. Aid
LIST OF CONTROL NOT IDENTIFIED

Project 27070 (6067)

Surveys - T-10402 thru 10409 & T-11427

1. SOUTH POINT, LOW BLACK POINT, 1903
2. OTTER, 1903
3. COVE MOUNTAIN, 1903
4. CLIFF, 1903
5. POW, 1903
6. SPRAY, 1903
7. FOAM, 1903
8. LEAN, 1903
9. CORN, 1903
10. FLAT, 1904
11. FLY, 1904
12. MANO, 1914
13. WAR, 1914
14. NUT, 1914
15. MAST, 1914
16. ANON, 1914
17. SURF, 1914
18. BATO, 1904
19. DENT, 1914
20. LOG POINT, 1904
21. HOPE, 1904
22. TRIM, 1904-14
23. COB, 1904-14
24. VEX, 1904
25. CHOP, 1904
26. LEDGE, 1904-14
27. AID, 1904
28. BARN, 1904
29. DEAD, 1904 (Reported lost 1956)
30. FUF, 1904
31. BOLD, 1904
32. SAW, 1904
33. PEEP, 1904
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<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
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<th>LONGITUDE OR X-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>G-609 p. 290</td>
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COMPUTED BY: L. A. Senasack  
DATE: 11 January 1956

CHECKED BY: H. R. Rudolph  
DATE: 13 January 1956
31. **DELINEATION**

Delineation of the manuscript was by graphic methods.

The photographs and field inspection were satisfactory.

32. **CONTROL**

The density and placement of horizontal control was adequate.

Identification of control is discussed in the Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**

A copy of hydrographic Survey H-8393 (HO-1557) was available for comparison.

34. **CONTOURS AND DRAINAGE**

Contours: Inapplicable.

Drainage: No comment.

35. **SHORELINE AND ALONGSHORE DETAILS**

Preliminary compilation by office interpretation was corrected using field inspection furnished by the 1957 Hydrographic Party.

Shoreline inspection was adequate.

The low water line, where shown, is the office interpretation of the offshore limits of the foreshore area.

Foul lines were based partly on office interpretation and partly on field inspection. The foul line was used to outline questionable features and kelp as well as areas containing rocks.

36. **OFFSHORE DETAILS**

No comment.

37. **LANDMARKS AND AIDS**

None.
38. CONTROL FOR FUTURE SURVEYS

One recoverable topographic station, GAS, 1956, was plotted on the manuscript using the geographic position furnished by the field party on Form 524.

There was no photographic identification for this station.

39. JUNCTIONS

Junctions with T-10402 on the west and T-10407 to the south have been made and are in agreement.

The manuscript joins T-10397 to the north and T-11427 to the east in water areas.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. - 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with the U.S.G.S. CRAIG quadrangle, scale 1:250,000 edition of 1952.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8171, scale 1:40,000, published January 9, 1956.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
22 November 1957

R. Glaser
Carto. (Photo.)

Approved and forwarded

William F. Deane
William F. Deane, CDR C&GS
Baltimore District Officer
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-87 (Davidson Inlet, Alaska)

T-10403

Davidson Inlet
Gas Rock
Heceta Island
Sea Otter Sound

Approved by:

A. Joseph Wraft
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician
PHOTOGRAFMETRIC OFFICE REVIEW
T-10403


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy  6. Recoverable horizontal stations of less than third-order accuracy (topographic stations)  7. Photo-hydro stations  8. Bench marks:


ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline  13. Low-water line  14. Rocks, shoals, etc.  15. Bridges  16. Aids to navigation:
17. Landmarks  18. Other alongshore physical features  19. Other alongshore cultural features

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines  32. Public land lines

MISCELLANEOUS
33. Geographic names  34. Junctions  35. Legibility of the manuscript  36. Discrepancy overlay

Reviewer

Supervisor, Review Section or Unit

40. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

Refer to Compilation Report, Item 35.

Compiler

Supervisor

43. Remarks:
61. **GENERAL STATEMENT:**

See Summary which is page 5 of the Descriptive Report.

There is no field edit report or field edit sheet for the survey. Field inspection was accomplished after compilation and the manuscript then corrected from the field inspection notes.

62. **COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:**

Comparison was made with a copy of registered survey No. 2691, 1:20,000 scale, made in 1904. The passage of time has made that survey obsolete, it is superseded by T-10403 for nautical chart construction purposes.

63. **COMPARISON WITH MAPS OF OTHER AGENCIES:**

Comparison was made with USGS CRAIG (D-5), ALASKA, 15x20 minute quadrangle, 1:63,360 scale, edition of 1951. The two surveys are in good general agreement, the USGS quadrangle is generalized because of its scale.

64. **COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:**

Comparison was made with copies of reviewed surveys H-8288, H-8393 and H-8443. None of the shoreline on this survey, T-10403, falls within the limits of H-8288. The shoreline of this survey is in agreement with the shoreline of H-8393 and H-8443. All rocks and reefs within the limits of T-10403 also appear on the hydrographic surveys.

The mean lower low water lines of H-8393 and T-10403 are not in perfect agreement. This has been noted on the comparison print in purple.

65. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison was made with chart 8171, 8th edition, June 10, 1968. The shoreline of the two surveys are in good agreement. Five rocks that appear on the chart appear only as reefs on the photographs. These have been noted on the comparison print in red.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with instructions and meets the National Standards of Map Accuracy.

Field photographs 51999, 52001, 52002 and office photographs 51998 thru 52002 were used to review the survey during final review.

Approved by: Allen L. Powell, RADM, USESAA Director, Atlantic Marine Center
Reviewed by: Leo F. Beugnet

Chief, Photogrammetric Branch Chief, Photogrammetry Division

Chief, Nautical Chart Division