NOAA FORM 76-35
(6-80)
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED.

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<tr>
<td>TP-01190</td>
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<table>
<thead>
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<td>CM-8207</td>
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<table>
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<tr>
<td>CLASS III (FINAL)</td>
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<table>
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<table>
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<tr>
<td>TOGIAK BAY TO CAPE CONSTANTINE</td>
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<tr>
<td>CROOKED ISLAND</td>
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| DATE               |

| 1983 TO 19          |

REGISTERED IN ARCHIVES
Noaa Form 76-36A  
National Oceanic and Atmospheric Admin.  

Descriptive Report - Data Record

Photogrammetric Office  
Coastal Mapping Unit, Atlantic Marine Center  
Norfolk, VA

Officer-in-Charge  
A. Y. Bryson, CDR

I. Instructions Dated

<table>
<thead>
<tr>
<th>Office</th>
<th>Field</th>
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<tr>
<td>Aerotriangulation August 13, 1985</td>
<td>Control March 25, 1983</td>
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<td>Office March 18, 1986</td>
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II. Datums

<table>
<thead>
<tr>
<th>Horizontal:</th>
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<tbody>
<tr>
<td>NAD 1927 North American</td>
<td>MEAN HIGH-WATER</td>
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3. Map Projection  
Transverse Mercator Projection

4. Grid(s)  
STATE: Alaska  
ZONE: 6

III. History of Office Operations

<table>
<thead>
<tr>
<th>Operations</th>
<th>Name</th>
<th>Date</th>
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<tr>
<td>1. Aerotriangulation</td>
<td>L. Harrod</td>
<td>Sept 1985</td>
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<td>Method: Analytic</td>
<td>L. Harrod</td>
<td>Sept 1985</td>
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<td>2. Control and Bridge Points</td>
<td>F. Mauldin</td>
<td>Jan 1986</td>
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<tr>
<td>Method: Xytechica 1201</td>
<td>F. Mauldin</td>
<td>Jan 1986</td>
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<tr>
<td>Compilation</td>
<td>L. Neterer</td>
<td>Feb 1986</td>
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<tr>
<td>Instrument: Wild B+8</td>
<td>N.A.</td>
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<td>Method: Smooth drafted</td>
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<td>Mar 1986</td>
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<td>F. Mauldin</td>
<td>Mar 1986</td>
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<td>to Final Review</td>
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<td>6. Application of Field</td>
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<td>7. Compilation Section</td>
<td>F. Mauldin</td>
<td>Mar 1986</td>
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<tr>
<td>Review Class III</td>
<td>L. O. Neterer, Jr.</td>
<td>Apr 1986</td>
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<td>9. Data Forwarded to</td>
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<td>Photogrammetric Branch</td>
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<td>10. Data Examined in</td>
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<td></td>
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<tr>
<td>Photogrammetric Branch</td>
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<td>11. Map Registered - Coastal</td>
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<td>Survey Section</td>
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</table>
1. Compilation Photography

Camera(s) (focal length = 152.74 mm)
Wild R.C. 10 (B)

Tide Stage Reference

Predicted Tides
[] Reference Station Records
[] Tide Controlled Photography

Number and Type | Date | Time | Scale | Stage of Tide
--- | --- | --- | --- | ---
83B(C) 4979-4981 | 07-28-83 | 10:24 | 1:50,000 | 4.5 ft. above MLLW
83B(C) 5004-5007 | 07-28-83 | 11:21 | 1:50,000 | 4.3 ft. above MLLW

Remarks
Compilation/bridging photographs based on predicted tide data, using reference station Nushagak Bay and subordinate station Black Rock (Walrus Island).

2. Source of Mean High-Water Line:

The Mean High Water Line was compiled from office interpretation of the above listed compilation/bridging color photographs using stereo instrument methods.

3. Source of Mean Low-Water or Mean Lower Low-Water Line:

There was no mean lower low water line compiled on this map.

4. Contemporary Hydrographic Surveys (List only those surveys that are sources for photogrammetric survey information.)

Survey Number | Date(s) | Survey Copy Used | Survey Number | Date(s) | Survey Copy Used
--- | --- | --- | --- | --- | ---

5. Final Junctions

North: No Survey
East: No Survey
South: No Survey
West: No Survey

Remarks
HISTORY OF FIELD OPERATIONS

I. FIELD IDENTIFICATION OPERATION

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<tr>
<th>OPERATION</th>
<th>NAME</th>
<th>DATE</th>
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<tr>
<td>1. CHIEF OF FIELD PARTY</td>
<td>R. Melby</td>
<td>Jul 1983</td>
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<td>2. HORIZONTAL CONTROL</td>
<td>R. Melby</td>
<td>Jul 1983</td>
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<td>3. VERTICAL CONTROL</td>
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<td>4. LANDMARKS AND AIDS TO NAVIGATION</td>
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<td>5. GEOGRAPHIC NAMES</td>
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<td>6. PHOTO INSPECTION</td>
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<tr>
<td>7. BOUNDARIES AND LIMITS</td>
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II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
   Premarking: None

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<thead>
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<th>PHOTO NUMBER</th>
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<th>PHOTO NUMBER</th>
<th>STATION DESIGNATION</th>
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<tr>
<td>83B(C)4978</td>
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<td>83B(C)5004</td>
<td>CROOKED AZ.MK, 1948</td>
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3. PHOTO NUMBERS (Clarification of details)
   None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
   None

5. GEOGRAPHIC NAMES: ☑ REPORT ☑ NONE

6. BOUNDARY AND LIMITS: ☑ REPORT ☑ NONE

7. SUPPLEMENTAL MAPS AND PLANS
   None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodetic Division)
   3 NOAA Forms 76-53 CSI Cards
## Record of Survey Use

### I. Manuscript Copies

<table>
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<td>Mar. 1986</td>
<td>Class III Manuscript None None</td>
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<tr>
<td>Final Reviewed</td>
<td>Apr. 1986</td>
<td>Final Class III Map July 17, 1986 July 17, 1986</td>
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### II. Landmarks and Aids to Navigation

None

### III. Federal Records Center Data

1. Bridging photographs; Duplicate bridging report; Computer readouts.
2. Control station identification cards; Form NOS-302 submitted by field parties.
3. Source data (except for Geographic Names Report) as listed in section II, NOAA Form 76-36C.

### IV. Survey Editions

(This section shall be completed each time a new map edition is registered)

<table>
<thead>
<tr>
<th>Second Edition</th>
<th>Survey Number</th>
<th>Job Number</th>
<th>Type of Survey</th>
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<td>III.</td>
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<td>V.</td>
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<td>Type of Survey</td>
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NOAA Form 76-36D

U.S. Department of Commerce National Oceanic and Atmospheric Administration

TP-01190
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-01190

This 1:20,000 scale map is one of nine maps that comprise project CM-8207, Bristol Bay, Cape Constantine to Togiak, Alaska latitude 58°22'00" north, longitude 159°00'00" west latitude 59°10'00" north longitude 160°30'00", including the offshore Walrus Islands.

Photographic coverage was provided in August 1983 with color film at 1:50,000 scale. The Wild RC-10 "B" camera (focal length 152.74 mm) was used for all photography.

Field work prior to compilation accomplished in July 1983 included the identification of horizontal control by premarking techniques to meet aerotriangulation requirements. There was no field inspection of the shoreline.

Analytic aerotriangulation was adequately performed at the Washington Science Center in September 1985. The manuscripts were ruled at the Atlantic Marine Center from data furnished by the aerotriangulation process.

Compilation was performed at the Atlantic Marine Center from office interpretation of the color photographs in March 1986.

Final Review was performed at the Atlantic Marine Center in March 1986. A Chart Maintenance Print and Hydro Print were prepared and forwarded to the Marine Charts Branch and Hydrographic Branch. This map is to be registered as a Final Class III map.

This Descriptive Report contains all pertinent information used to compile this Final Class III Map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.
FIELD INSPECTION

TP-01190

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.
TO: N/CG2313 - Howard D. Wolfe
FROM: N/MOP222 - Robert B. Melby
SUBJECT: Photo, Field Operations Report, Job CM-8207, Bristol Bay, Togiak Bay to Cape Constantine, Alaska, Shoreline Mapping

This report covers the shoreline area of the portion of Bristol Bay from Cape Constantine to the vicinity of the village of Togiak on Togiak Bay, Alaska.

Air photo panels were placed in each office-selected area and, when required, distances and directions were observed in the field to permit the computation of the coordinates of the substitute stations. Most of the stations were paneled direct.

Two additional 1:50,000 horizontal control photo panels were placed on Round Island. The diagram did not indicate a requirement for paneling on this island, although a control flight line was indicated. ROUND 1948 substitute station and ROUND 1948 AZ MK 1983 substitute station were the extra paneled stations.

Six points were paneled at 1:30,000 scale to permit the photo-location of these marks to determine their horizontal position. They could be used as hydrographic control stations in the future.

Each photo-panel has been entered on a form 76-53, Control Station Identification, with information pertinent to the involved station.

Four additional horizontal control stations were established by Third Order Class I methods in paneling areas that did not have an existing horizontal control station.
Photogrammetric Plot Report

Bristol Bay

Togiak Bay to Cape Constantine, Alaska

September 1985

21. Area Covered

This report covers the shoreline area of the portion of Bristol Bay from Cape Constantine to the vicinity of the Village of Togiak on Togiak Bay, Alaska. It is covered by nine 1:20,000 scale manuscripts; TP-01176 and TP-01186 through TP-01193.

22. Method

Seven strips of 1:50,000 scale, and one strip of 1:30,000 scale photography were bridged by analytic aerotriangulation methods and adjusted to ground based on the Alaska State Plane Coordinate System, Zone 6. Paneled control was provided. Strip 50-4 was measured on the NOSAP and was adjusted to ground using the GIANT program. All the other strips were measured on the STK comparator and adjusted to ground with the Analytic Program. Ratio values were determined for the bridging photography. No manuscripts were generated by this unit. Five hydrographic control stations were positioned from the 1:50,000 scale bridging photography. One station, TC-04, was not positioned.

23. Adequacy of Control

The control was adequate. The project meets NOS requirements.

Strip 30-11 was a 3 photo strip of Round Island on TP-01191. This strip was adjusted using two control stations. There were no check points.

24. Supplemental Data

Quads and charts were used.
25. **Photography**

The coverage and quality of the photographs proved adequate for the project. No MHW or MLW infrared photographs were available.

Submitted by:  
Lloyd W. Harrod, Jr.

Approved and Forwarded:

Don O. Norman  
Chief, Aerotriangulation Section
**Togiak Bay to Cape Constantine, Alaska**

**CM-8207**

**Fit to Control - X and Y in Feet**

<table>
<thead>
<tr>
<th>Strip 50-1</th>
<th>Point No.</th>
<th>X</th>
<th>Y</th>
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<tr>
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<td>(872100)</td>
<td>-1.5</td>
<td>-.8</td>
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<tr>
<td>▲ 9. Dry Bay 1947</td>
<td>(876100)</td>
<td>3.1</td>
<td>.3</td>
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<tr>
<td>▲ 10. Pike 1947</td>
<td>(880100)</td>
<td>-4.6</td>
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<td>▲ 11. Judith 1947 RM2</td>
<td>(885101)</td>
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<tr>
<td>▲ 12. See 1910</td>
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<td>1.5</td>
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<td>▲ 7. Metervik</td>
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<td>▲ 6. Metervik AZ MK 1983</td>
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<td>▲ 5. Right Hand 1948</td>
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<tr>
<td>▲ 2. Togiak 1948 RM1</td>
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<td>3. Owens 1948</td>
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<td>(809801)</td>
<td>-6.2</td>
<td>-1.</td>
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<td>(809802)</td>
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<td>▲ Tie from Strip 50-4</td>
<td>(809803)</td>
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<td>3.4</td>
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### Strip 50-6

| Tie from Strip 50-4 | (813801) | 6.1 | 3. |
| ▲ Tie from Strip 50-4 | (813802) | 1.0 | 1. |
| " " " " | (813803) | .2 | 1. |
| " " " " | (814801) | -7 | -. |
| " " " " | (814802) | -1 | -. |
| " " " " | (814803) | -2.0 | 1. |
| " " " " | (815801) | 7.8 | 4. |
| " " " " | (815802) | 13.3 | 5. |
| " " " " | (815803) | 3.0 | 1. |
| ▲ 4. Nuna 1983 | (090100) | 2.2 | 1. |
| ▲ Tie from Strip 50-4 | (817801) | -3.9 | -1. |
| " " " " | (817802) | -2.4 | -4. |
| Tie from Strip 50-4 | (817803) | -6.3 | -6. |

### Strip 50-7

| ▲ 15. Crooked 1948 AZ MK | (104100) | -4.2 | -. |
| ▲ 13. High 1948 | (107100) | -1.9 | -3. |

### Strip 50-9

| ▲ 14. Crooked 1948 | (105100) | 5.5 | 3 |
| ▲ Tie from Strip 50-7 | (979801) | 3.0 | |
| " " " " | (979802) | 1.0 | 2 |
| " " " " | (979803) | -2.1 | -4 |
| " " " " | (980801) | -2.4 | 1 |
| " " " " | (980802) | -2.4 | -1 |
| " " " " | (980803) | -2.0 | -2 |
| " " " " | (981801) | 4.3 | 5 |
| " " " " | (981802) | -5.0 | -5 |
| Tie from Strip 50-7 | (981803) | 5.7 | |

### Strip 30-11

| ▲ 16. Round 1948 AZ MK Sub Pt. | (468101) | .0 |
| ▲ 17. Round 1948 Sub Pt. | (469101) | .0 |

▲ Stations held in the Strip Adjustments
Togiak Bay to Cape Constantine, Alaska
CM-8207
September 1985

Ratio values for 1:50,000 scale color bridging photographs.

83-B-(C) 4978-4981     X 2.55
5004-5007     X 2.52
5052-5057     X 2.55
5082-5094     X 2.56
5813-5817     X 2.51
5872-5889     X 2.53

Ratio values for 1:30,000 scale color bridging photographs.

83-B-(C) 5467-5469     X1.50
### DESCRIPTIVE REPORT CONTROL RECORD

<table>
<thead>
<tr>
<th>STATION NAME</th>
<th>SOURCE OF INFORMATION</th>
<th>AEROTRIANGULATION POINT NUMBER</th>
<th>GEODETIC DATUM</th>
<th>ORIGINATING ACTIVITY</th>
<th>GEOGRAPHIC POSITION</th>
<th>REMARKS</th>
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<tbody>
<tr>
<td>CROOKED, 1948</td>
<td>GP, NOSMOP-pp 1983</td>
<td>105100</td>
<td>N.A. 1927</td>
<td>Coastal Mapping Unit, AMC, Norfolk, VA</td>
<td>$\phi$ 58 42 10.704</td>
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<td>CROOKED A2.MK, 1948</td>
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<td>$\lambda$ 160 17 18.642</td>
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</table>
31 - DELINEATION

Delineation was accomplished using stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale color bridging/compilation photographs. All photographs used to compile this map are listed in NOAA form 76-36B. In several shoreline areas, glare on the water made the selection of offshore rocks difficult. No instrument or graphic compilation of the islands, "The Twins" located at 58°35'00"-58°36'00" latitude, and 160°18'00"-160°19'00" longitude could be done, due to insufficient stereo coverage on the compilation/bridging photographs.

There are no mean lower low water infrared photographs for this project.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated September 1985.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAIL

The mean high water line was compiled from office interpretation of the compilation/bridging color photographs as described in item #31. There was no mean lower low water line compiled on this project.

36 - OFFSHORE DETAILS

Offshore details were compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the limits of this manuscript.

38 - CONTROL FOR FUTURE SURVEYS

None.
39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5, of the Descriptive Report.

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles and U.S. Coast and Geodetic Survey topographic map:
Hagemeister Island (C-1), Alaska; dated 1952; scale 1:63,360 (USGS)
Hagemeister Island (C-2), Alaska; dated 1952; scale 1:63,360 (USGS)
Hagemeister Island (D-2), Alaska; dated 1953; scale 1:63,360 (USGS)
T-9248; scale 1:20,000; compiled 1950 (USC&GS)

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Service Charts:
16011; 31st edition, dated June 29, 1985; scale 1:1,023,188
16315; 1st edition, dated May 9, 1985; scale 1:100,000 (provisional).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Robert R. Kravitz
Cartographic Technician
5 March 1986

Approved

James L. Byrd, Jr.
Chief, Coastal Mapping Unit
GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8207 (Togiak Bay to Cape Constantine, Alaska)

TP-01190

Black Rock
Bristol Bay
Crooked Island
High Island
Walrus Islands

Approved:

Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services
61 - GENERAL STATEMENT

See Summary included with this report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with U.S.C. & G.S. Topographic Map T-9248, 1:20,000 scale, compiled from September 1948 photography.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle:
Hagemeister Island (C-1), Alaska, scale 1:63,360, dated 1952
Hagemeister Island (C-2), Alaska, scale 1:63,360, dated 1952
Hagemeister Island (D-2), Alaska, scale 1:63,360, dated 1953.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys within the limits of this map.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following N.O.S. chart:
16011, 31st edition, dated June 29, 1985, scale 1:1,023,188 and
Provisional Chart 16315, 1st edition, dated May 9, 1985, scale
1:100,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by
Lowell O. Neterer, Jr.
Final Reviewer
April 4, 1986

Approved for forwarding
Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved
Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch, Rockville
**INSTRUCTIONS**

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected charts.

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in.

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