# 8626

# FOR OFFICIAL USE ONLY

Diag. Cht. No. 9400

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Planimetric (Photogrammetric)

Field No Ph-29 (47) Office No. T-8626

LOCALITY

State Arctic Coast, Alaska

General locality Barter Island Area

Locality Hulahula River - Okpilak River

194 8...

CHIEF OF PARTY Hubert A. Paton, Chief of Field Party L. C. Lande, Office, Div. of Photo. Wash, I C.

**LIBRARY & ARCHIVES** 

DATE \_\_\_\_JUNE 28, 1955

B-1870-1 (1)



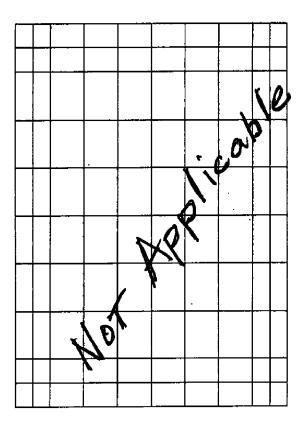
# DATA RECORD

T-8626

| Project No. (II): Ph-29 (  | 47) Quadrangle  | Name (IV):    |  |   |
|--|---|---------------|--|---|
| Photogrammetric Office (III) Instructions dated (II) (III):  4 Feb., 1948                    | Graphic Comp<br>Division of<br>grammetry -                    | Photo-        | Officer-in-Charge: L. C  | A. Rator Lande y filed in Division of ogrammetry (IV) |
| Method of Compilation (III):   | Radial Plot   |               |  |   |
| Manuscript Scale (III): 1:2  |   | Stereoscopic  | Plotting Instrument Scale  | (III):  |
| Scale Factor (III): 1.0  | 00  |               |  |   |
| Date received in Washington  | Office (IV):6-9-49  | Date reported | to Nautical Chart Branch   | (IV):6-15-49  |
| Applied to Chart No.   | Date:   |               | Date registered (IV): /5~  |   |
| Publication Scale (IV):  |   |               | Publication date   | (IV):   |
| Geographic Datum (III): Ba  The difference between and preliminary N.A. 197  40 m. and long. | rter Island,  Barter Island, 194  27 Datum is Lat. 216 m. 160 |               | Vertical Datum  Vertical Datum | r to mean high water                                  |
| Reference Station (III): Car   | pella, 1948   |               | ALLA Y   | tisg  |
| Lat.: 1 0 1 80, 1 1  | Long.:  | 1448-02       | *-51 1226*   | Adjusted Unadjusted                                   |
| Plane Coordinates (IV):  |   | State:        | Zone:  |   |
| Y=   |   |               |  |   |

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)

| 3(47) SCALE OF MAP 1:20,000 SCALE FACTOR |   | 12.849 398.2 1461.3<br>44.905 474.0 159.3 | 12.576 1319.5 540.0<br>18.027 190.5 443.6 | 23.764 736.5 1123.0<br>14.304 151.6 484.2 | 135 4.2 14.2 226 330.2 | 35.541 1101.5 758.0<br>42.464 45.464 186.1 | 480.9 1<br>202.2 | 39.0 1           | 893.5       |     |     |         | N - 2348-12       |
|--|---|---|---|---|------------------------|--|------------------|------------------|-------------|-----|-----|---------|-------------------|
| :20,000                                  |   |   |   |   |                        |  |                  |                  |             |     |     |         |                   |
| SCALE OF MAP.                            | DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METER FORWARD (BACK) |   |   |   |                        |  |                  |                  |             |     |     |         |                   |
|  | LATITUDE OR #-COORDINATE LONGITUDE OR *-COORDINATE C                  | 12.8                                      | 12.                                       | 23.                                       | 31.                    | 35.541                                     |                  | 1                |             |     |     |         |                   |
| PROJECT NOPh29(4.7                       | LATITUDE O  | 70 06<br>143 56                           | 00 thr                                    | 70 07<br>143 57                           | 70 04<br>144 02        | 69 69<br>144 08                            | 70 02<br>141 09  | 70 02<br>1141 13 | }           |     | . ! |         |                   |
| PROJEC                                   | DATUM   | Barter<br>Island                          | =   | E   | 4                      | *  | =                | =                | =           |     |     |         |                   |
|  | SOURCE OF<br>INFORMATION<br>(INDEX)                                   |   |   | ons<br>Park                               | ITISC<br>(A , AS       |  | (gard)           | Y GEC            | HAMIM<br>AG | 1 7 |     | / језка |                   |
| 8626                                     |   | β†/6τ                                     | 8461                                      | 8ή6τ                                      | 1948                   | 1948                                       | 1948             | 1948             | 1948        |     |     |         | METER             |
| MAP T. 8626                              | STATION   | VENUS                                     | LEFFING                                   | DELTA                                     | CAPELLA                | VENTURA                                    | BARABRA          | NEPTUNE          | TAURI '     |     |     |         | 1 FT3048000 METER |

### DATA RECORD

Field inspection by (ii): Hubert A. Paton, Chief of Party Date: Summer 1948

Date: Planetable contouring by (Ii):

Date: Completion Surveys by (II):

Mean High Water Location (iii) (State date and method of location): Photographs taken 7/29/47 (see page 4)

Date: 12/31/48 Projection and Grids ruled by (IV): W. E. Ward

Date: 12/31/48 Projection and Grids checked by (IV): W.E. Ward

Date: Jan. 1949 Control plotted by (III): S. G. Blankenbaker

Date: Jan. 1949 Control checked by (III): C. Hanavich

Date: Jan. 1949 Radial Plot or Stereoscopic S. G. Blankenbaker

Control extension by (III):

Date: **Planimetry** 

Stereoscopic Instrument compilation (III):

Contours

Date: Feb. 1949 Manuscript delineated by (III): S. G. Blankenbaker

Photogrammetric Office Review by (III): S. J. Hathorn Date: Aug. 1950

Date: Aug. 1950 Elevations on Manuscript S. J. Hathorn

checked by (II) (III):

Date:

# Camera (kind or source) (III): U. S. Coast and Geodetic Survey Nine Lens

|        |         | PHOTOGRAPHS (II | 1)       |               |
|--------|---------|-----------------|----------|---------------|
| Number | Date    | Time            | Scale    | Stage of Tide |
| 20170  | 7/29/47 | 12:34           | 1:20,000 |               |
| 20174  | 7/29/47 | 12:45           | 1:20,000 |               |
| 20175  | 7/29/47 | 12:46           | 1:20,000 |               |
| 20176  | 7/29/47 | 12:47           | 1:20,000 | •             |
| 20239  | 7/29/47 | 15:01           | 1:20,000 |               |
| 20240  | 7/29/47 | 15:01           | 1:20,000 |               |

Predicted Tide (III)

Reference Station: Kodiak

# Subordinate Station: Plaxman Island

Subordinate Station:

\*Same as observed tide at Barter Island 16 July - 21 Sept 1948.
Washington Office Review by (IV): Level J. Structure Date: 10 det 195

Final Drafting by (IV): Data:

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:

|Ratio of | Mean |

Range

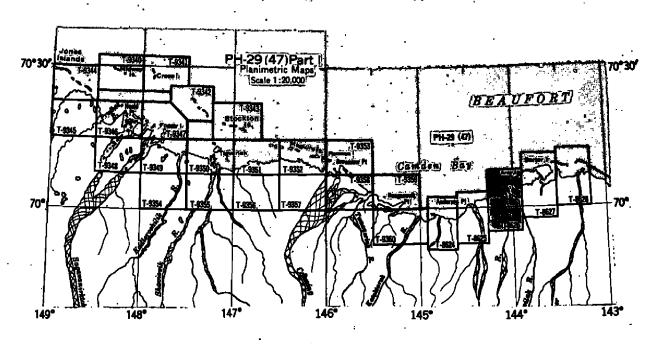
Ranges

Spring

# PLANIMETRIC MAPPING PROJECT PH-29 (47)

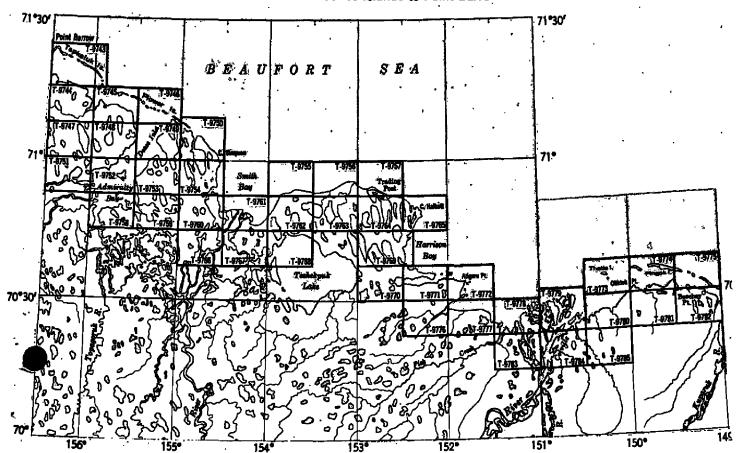
Photographs taken July 1947 Scale 1:20,000

Part I ALASKA Barter Island to Jones Islands



Part II

ALASKA Jones Islands to Point Barrow



### SUMMARY TO ACCOMPANY T-8626

Planimetric project Ph-29(47) consists of 69 maps, scale 1:20,000, - 26 in Part I(Barter Island westward to Jones Islands) and 43 in Part II (Jones Islands to Point Barrow). The project covers that part of the Arctic Ocean coastal area (Beaufort Sea) which extends from 143°10' to 156°30' west longitude.

This project was designed as surveys for new nautical charts at a much larger scale than the present nautical chart, and to furnish bases to the U.S. Geological Survey for projected topographic maps.

T-8626 is one of the Part I group. It includes the eastern part of Camden Bay, the western part of Arey Lagoon and of Arey Island, and the Hulahula and Okpilak Rivers.

\* \* \* \* \* \* \* \* \* \* \* \* \* \* \* \*

When all the map manuscripts in this project have been reviewed, smooth-drafted, reproduced, and registered, a Completion Report will be filed in the Bureau Archives. This report will describe the project as a whole, and will list the materials received, with a statement of their disposition.

FIELD INSPECTION REPORT Map Manuscript T-8626 Project Ph-29(47)

Refer to:

REPORT OF PHOTOGRAPH INSPECTION
Barter Island Alaska
Project CS-320
1948

Hubert A. Paton, Chief of Party

Descriptive Report: T-8626

Project: Ph-29(47) Arctic Coast, Alaska

Location: Barter Islands Area

Scale: 1:20,000

This report is concerned with the third of a series of shoreline sheets which extend along the Arctic Coast from Simpson Cove 144° 55' to Martin Point, 143° 10'. This sheet extends from 143° 54' to 144° 16' and is centered on the Hula Hula and Okpilak rivers. See descriptive report T-8624 for further general description.

Compilation Report: T-8626

Control: The threefield identified control stations on this sheet were used in the plot. Barabra, 1948 (sub station "A"); Capella, 1948 (sub station "A"); Venus, 1948 (sub station "A"). The following control stations listed in the geographic position list as described and marked have been plotted on the manuscript: Tauri, 1948; Ventura, 1948; Delta, 1948; Neptune, 1948; Leffing, 1948.

Radial Plot Report: See descriptive report for T-8624

Detailing: The photographs and the field inspection were satisfactory for office detailing. Office interpretation was used.

S. B. Blanken Aaken

approad by L.c. Lands

# SUPPLEMENTAL COMPILATION REPORT T-8626

Detail was revised where field inspection of the photographs was incomplete, as recommended by personnel familiar with this area.

The delineation of detail was extended inshore to the limit of the photographic coverage, changing T-8626 from a Shoreline Manuscript to a Plamimetric Manuscript.

N. S. Schultz

5 June 1950

G. B. Willey

::

M-2661-12

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 8626

| 1. Projection and grids 1911 2. Title 1914 3. Manuscript numbers 1914 4. Manuscript size 1914   |
|---|
| CONTROL STATIONS  5. Horizontal control stations of third-order or higher accuracy 16. Recoverable horizontal stations of less than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks9. Plotting of sextant fixes10. Photogrammetric plot report 11. Detail points 19. |
| ALONGSHORE AREAS  (Nautical Chart Data)  12. Shoreline 19H 13. Low-water line 19H 14. Rocks, shoals, etc. 15. Bridges 16. Aids to navigation 17. Landmarks 19H 18. Other alongshore physical features 19H 19. Other alongshore cultural features 19H  |
| PHYSICAL FEATURES  20. Water features 19H 21. Natural ground cover 22. Planetable contours 23. Stereoscopic instrument contours 24. Contours in general 25. Spot elevations 19H 26. Other physical features   |
| CULTURAL FEATURES  27. Roads 28. Buildings 29. Railroads 30. Other cultural features  |
| BOUNDARIES  31. Boundary lines 32. Public land lines  |
| MISCELLANEOUS  33. Geographic names 94 34. Junctions 94 35. Legibility of the manuscript 94 36. Discrepancy overlay 37. Descriptive Report 94 38. Field inspection photographs 94 39. Forms 94 40. Starley 9. Tallow Supervisor, Review Section or Unit L.C. Lande  41. 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.   |
| Compiler Supervisor   |

43. Remarks:

# Photogrammetric Office Review

### T-8626

- 17. Three landmarks shown on Arctic Coast Chart No. 8, corrected to 3/13/50, were added to the manuscript and reported on Form 567. Form 524 was submitted for the two not located as triangulation. No record of field Form 567's recommending these landmarks could be found, and Lewis V. Evans, a member of the hydrographic party, stated that he had no knowledge of their having been recommended.
- The preliminary GP listing contained in "Alaska No. 89 - Barter Island, Alaska" includes unadjusted trigonometric elevations of stations, and these elevations were added to the manuscript.

Submitted 9 August 1950

Stanley J. Hathorn

Photogrammetrist

Form 567 April 1945

# DEPARTMEN OF COMMERCE U. S. COAST AND GEODETIC SURVEY

# MOMENTANDAMINECALDSCOR LANDMARKS FOR CHARTS

| STRIKE OUT ONE |               |
|----------------|---------------|
| HARTED         | KIKENTE       |
| O BE C         | THE REPORT OF |
| $\vdash$       | ×             |

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

11 June

Washington, D. C.

S. G. Blankenbaker The positions given have been checked after listing by

|          |  |                                    |                                    |              |              |              |                 |  | Ö                            | 9     | Aief     | Chief of Party.   |
|----------|--|------------------------------------|------------------------------------|--------------|--------------|--------------|-----------------|--|------------------------------|-------|----------|-------------------|
| STATE    |  |                                    |                                    |              | POSITION     |              |                 | METHOD                                       |                              | THA   | THANS    |                   |
|          |  |                                    | LΑΠ                                | LATITUDE     | LONG         | LONGITUDE    |                 | LOCATION                                     | PAT P                        | HO B  | JNO      | CHARTS            |
| CHARTING | DRECRIPTION  | SIGNAL                             | -                                  | D. M. METERS | -            | D. P. METERS | DATUM           | GURVEY<br>No.                                | LOCATION                     | DESAM | Harto    | AFFECTED          |
| TRIPOD   | Wood, 16' high (legs of 2" x4", Al 12' high with 3"X3" center pole | APEX<br>1e)                        | 70 07                              | 655          | मंड ध्नार    | 19%          | Barter<br>Ι,19μ | Barter Transi<br>I,1948HS-7658               | 1948                         |       | K        | 9400              |
| TRIPOD   | 11   | OLA                                | 70 05                              | 069          | 144 00       | 558          |                 | =  | 1948                         |       | K        | <del>,</del> οοη6 |
| TRIPOD   |  | PEL                                | 10 O/                              | 4.2          | 2,05   330.2 | 330.2        | E               | Triang.                                      | 1948                         |       | K        | 0046              |
|          |  |                                    |                                    | · · ·        |              |              |                 | *  |                              |       |          | 1                 |
|          | The above were not recommended                                     | mmended                            | , ,                                | dmarks       | by the       | field        | partie          | as landmarks by the field parties (according | rding                        |       |          |                   |
|          | to Lew Evans), but are   | shown on Arctif Coast Chart No. 8, | n Arcti                            | & Coas       | Chart        | No. 8,       |                 | cted to                                      | corrected to 3/13/50         | 6     |          |                   |
|          | Position of "APEX" and   | "OLA" s                            | spaled from smooth sheet by S.J.H. | rom smo      | oth sh       | set by       | S.J.H.          | 7/11/5                                       | 7/11/50. (forms 512 4 Filed) | 5     | <u> </u> | ( <i>pe/i</i>     |
|          |  | i                                  |                                    | <br>-        |              |              |                 |  |                              |       |          |                   |

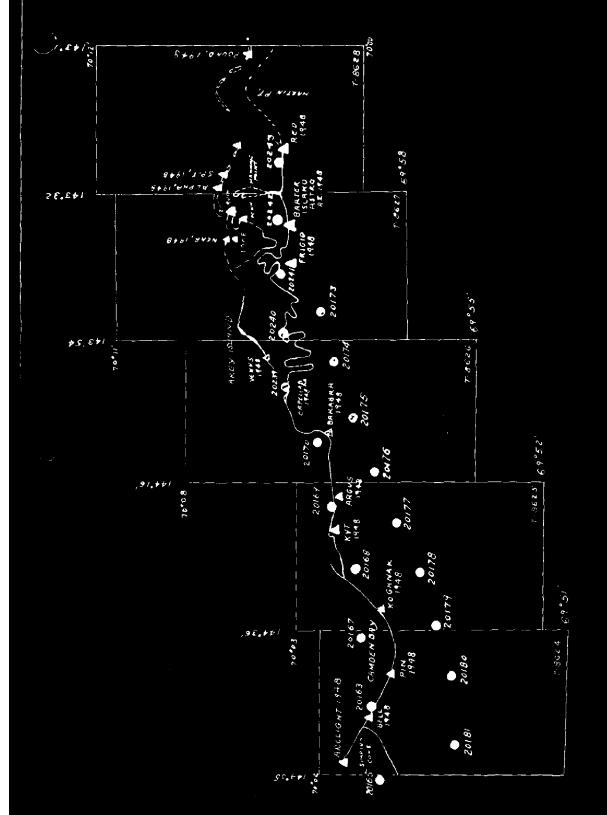
This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating what to naviewtion if redetermined shall be remorted on this form. The data should be considered for the charts of the area and not by

| Survey No. T-862 | ;O<br>_/   | Char.  | Reviou       | S HOOS      | K. Co. Kingle | Zen W          | / cijide     | N. Heck         | / jæ       |
|------------------|--|--|--------------|-------------|---------------|----------------|--------------|-----------------|------------|
| Name on Survey   | A  | B B  | C Ko. O      | D D         | or local rior | Or lego Has    | G. G.        | H Spord Hoteley | N K        |
| Aleske           |  |  |              | (for        | ti tle)       |                |              |                 | ,          |
| Arctic Coast     |  |  |              | 12          | n             |                | ]            | ,               |            |
| Barter Island    | <u> </u>   |  |              | 11 ·        |               |                |              |                 | USCB       |
| Beaufort Sea     |  |  |              |             | ļ             |                |              |                 | <b>n</b> ` |
| Camden Bay       | •  | <u> </u>   | _            | ļ. <u>-</u> |               | <u> </u>       | <u> </u>     | <u> </u>        | <u> </u>   |
| Hulahula River   | <u> </u>   | <u> </u>   | <u> </u>     | (one        | vord)         | <u> </u>       | <u> </u>     |                 |            |
| Okpilak River    | <u> </u>   | <u> </u>   | <u> </u>     |             |               | ļ              | ļ            |                 |            |
| Arey Island      |  | <u> </u>   | <u> </u>     |             |               |                | <u> </u>     | ļ               |            |
| Arey Lagoon      | <u> </u>   | <del> </del>                                     | ļ            |             |               | <del> </del>   | <u> </u>     | <u> </u>        |            |
| Nataroarok C.    | reek   | <del> </del>                                     | <u> </u>     |             |               |                |              | ļ               | <u> </u>   |
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BARTER ISLAND AREA SIMPSON COVE TO MARTIN PI. COUNTY AND TO COMPILE From From From times photographs

# NAUTICAL CHARTS BRANCH

# SURVEY NO. 7.8626

# Record of Application to Charts

| DATE    | CHART | CARTOGRAPHER                                     | REMARKS  |
|---------|-------|--|--|
| Tug /49 | 9400  | Riegari  | Thru Actic Chi.#8.  Before After Verification and Review |
| 3/50    | 9403  | Buggere<br>HELLACSwen                            | Before After Verification and Review                     |
| ahr 55  | 9403  | HELLIAC Swen                                     | Before After Verification and Review Hun Clv. 9475       |
|         |       |  | 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                     |
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|         |       |  | Before After Verification and Review                     |
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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.

# REVIEW REPORT T-8626 Planimetric Map 10 October 1951

# 62. Comparison with Registered Topographic Surveys:

No earlier surveys have been made for this area.

63. Comparison with Maps of Other Agencies:

Nane

## 64. Comparison with Contemporary Hydrographic Surveys:

- H-7658 1:20,000, 1948 (Boat Sheet ARN 2248)

At 69° 02½ latitude, 146° 15' longitude, the following note is entered on the map manuscript: Very fine anchorage, 6 to 8 ft. water. The information was taken from field inspection photograph 20169. The note also says the anchorage is for launches, and is free of flow ice because the ice grounds on the bars. Entrance to the anchorage was also drawn on the photograph, and it has been put on the map manuscript during review.

An inspection of H-7658 reveals that these field notes do not conform well with depths recorded on the survey. "Wery fine an charage" added to H-7658. H-1658 Shows reconneissance lines, 5-7 detts H-7658 . 4 depths in entrance Channel.

#### 65. Acouracy:

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As a shoreline survey T-8626 meets the National Standards of Accuracy. The interior planimetry is adequate for charting purposes.

## 67. Geographic Names:

The names in this project are from "Geographic Names Report, Alaska Arctic Coast, Demarcation Foint to Cross Island, Project CS-320" submitted by the hydrographic party (no signature) September, 1948. Supplementary and additional names, same area, was submitted October, 1949.

Reviewed by:

Lina T. Stevens

# Approved:

Chief, Review Section
Div. of Photogrammetry

Chief Div. Photogrammetry

ku 7,1981

Chief, Nautical Chart Branch Division of Charts

Chief, Div. of Coastal Surveys

# Control to be smooth-drafted on T-8626

| Topographic                  |  |  |  |  |
|------------------------------|--|--|--|--|
| Tripod, 1948<br>Tripod, 1948 |  |  |  |  |
|                              |  |  |  |  |