

# 8583

Diag'd. on Diag. Ch. No. — 1202

|  |                          |
|--|--------------------------|
| Form 504<br>U. S. COAST AND GEODETIC SURVEY<br>DEPARTMENT OF COMMERCE<br><br><b>DESCRIPTIVE REPORT</b> |                          |
| Type of Survey <u>Planimetric Air Photographic</u><br>(Shoreline)                                      |                          |
| Field No. <u>CS-272-E</u>  | Office No. <u>T-8583</u> |
| LOCALITY   |                          |
| State <u>Maine</u>   |                          |
| General locality <u>Frenchman Bay</u>  |                          |
| Locality <u>Bar Island, Stave Island and</u><br><u>Jordan Island</u>                                   |                          |
| 1944   |                          |
| CHIEF OF PARTY   |                          |
| <u>Fred L. Peacock</u>   |                          |
| LIBRARY & ARCHIVES   |                          |
| DATE <u>Mar 24 - 1949</u>  |                          |

B-1870-1 (1)

# 8583

R.S. 46B  
(T-8583)  
Ph-103(52)

Foreshore and offlying shoal corrections and additions were added from low-water single lens photographs taken in May, 1952, with the "J" camera, and are shown in red on the brown line acetate reproduction of the manuscript. The photographs were ratio printed to scale permitting detail to be added without further radial plotting. Whenever possible recoverable photo-hydro signals previously located were used in applying the new additions, however, it was necessary to apply corrections by holding to identifiable features previously compiled.

Very few corrections were made on this sheet because of (a) poor photo coverage and (b) tide level at time of photos was well above MLW, ranging from +0.5 feet on photo 1043 to +1.3 feet on photo 501.

No new photo-hydro stations were located at this time, nor was any building or road revision made.  
*Building and road revision completed Jan. 1954. Many trees in the SW corner of the sheet were destroyed by fire and have been removed from the manuscript.*

Respectfully submitted:

*DTR*

*Samuel D. Parkinson DTR*  
Samuel D. Parkinson  
Lieutenant, U.S.C. & G.S.  
Mar. 1953

Approved by:

*L. C. Lande*  
L. C. Lande, Chief,  
Graphic Compilation Section  
Division of Photogrammetry

## DATA RECORD

T- 8583

Quadrangle (II):

Project No. (II): CS-272 E

Field Office:

Chief of Party: *Dale E. Sturmer*  
~~Fred. L. Peacock~~

Air Photogrammetric Office

Compilation Office:

Chief of Party: Fred. L. Peacock

Baltimore Photogrammetric Office

Instructions dated (II III):

Copy filed in Descriptive

April 1, 1942 (Additional)

~~Report No. 2~~ (VI)

July 10, 1943 (Horizontal Control Requirements)

Div. of Photogram. Office Files

March 18, April 11 &amp; July 17, 1944 (Supplemental)

August 10, 1944 (Additional)-August 28, 1944 (Amendment to additional  
Completed survey received in office;

Instructions)

*27 Feb. 1946*

Reported to Nautical Chart Section:

Reviewed: *1/15/47*Applied to chart No. *318**306  
1202  
205*Date: *19 Feb. 1946*  
*2/1/47 and 1/7/48*  
*(Dec. 1945 (partial))*Redrafting Completed: *23 Sept. 1947*Registered: *25 March, 1948*Published: *Shoreline (Vault copy only)*

Compilation Scale: 1:10,000

Published Scale: *1:10000*

Scale Factor (III): 1.0000

Geographic Datum (III): N. A. 1927

Datum Plane (III): *M. H. W.*

Reference Station (III): SHEEP, 1934, r. 1944

Lat.:  $44^{\circ} 23' 58.109''$  Long.:  $1793.6$  m  $68^{\circ} 11' 35.340''$  782.1 Adjusted  
~~Unadjusted~~State Plane Coordinates (VI): *East Zone*

X =

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

(Unmounted - Single Lens Ratio Prints)

| Number              | Date    | Time       | Scale    | Stage of Tide      |
|---------------------|---------|------------|----------|--------------------|
| 44-C-937-943, Incl. | 5-16-44 | 12:30 P.M. | 1:10,000 | 1.0' above M.L.W.  |
| 44-C-946 - 947 "    | 5-16-44 | 12:30 P.M. | 1:10,000 | 1.0' above M.L.W.  |
| 44-C-1195-1199 "    | 5-26-44 | 10:15 A.M. | 1:10,000 | 3.4' above M.L.W.  |
| 44-C-1221-1225 "    | 5-26-44 | 10:30 A.M. | 1:10,000 | 4.1' above M.L.W.  |
| 44-C-1548-1549 "    | 5-30-44 | 11:30 A.M. | 1:10,000 | 1.2' above M.L.W.  |
| 44-C-1695-1696 "    | 6-4-44  | 12:00 Noon | 1:10,000 | 5.4' above M.L.W.  |
| 44-C-1678-1679 "    | 6-4-44  | 11:45 A.M. | 1:10,000 | 6.2' above M.L.W.  |
| 44-C-2112-2113 "    | 6-23-44 | 12:00 Noon | 1:10,000 | 10.0' above M.L.W. |
| 44-C-1060&1061      | 5-17-44 | 12:15 P.M. | 1:10,000 | 0.2' below M.L.W.  |

Tide from (III): Predicted Tide Tables, Atlantic Ocean 1944. Reference Station Eastport, Maine, with corrections to Salisbury Cove, Mt. Desert Island, Maine.  
Mean Range: 10.6                                  Spring Range: 12.1

Camera: (Kind or source) U. S. Coast and Geodetic Survey wide angle single lens camera. Type "C" - Focal length 6". All negatives are on file in the Washington Office.

Field Inspection by: Lieutenant Dale E. Sturmer                                  date: Sept. to Nov. 1944

Field Edit by: *None*                                  /                                  date:

Date of Mean High-Water Line Location (III): As of photographs taken on May 16, May 26, May 30, June 4, June 17, and June 23, 1944, supplemented by the field data obtained during September, October, and November, 1944.

Projection and Grids ruled by (III) S.R., Washington Office                                  date: 3-9-45

" " " checked by: S.R. - Murray                                  date: 3-9-45  
Washington Office

Control plotted by: Harry R. Rudolph                                  date: 3/15-16/45

Control checked by: A. L. Goncharsky                                  date: 3/20/45

Radial Plot by: W. E. Schmidt & H. R. Rudolph                                  date: March, 1945

Detailed by: John M. Reinoldi                                  date: May 23 to June 28, 1945

Reviewed in compilation office by: Harry R. Rudolph                                  date: July 2 to July 7, 1945

Elevations on ~~Field Data Sheet~~ <sup>Map manuscript</sup> checked by: *H.W. Thune*                                  date: 1/15/47



STATISTICS (III)

Land Area (Sq. Statute Miles): 1.6

Shoreline (More than 200 meters to opposite shore): 17.4

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

Number of Recoverable Topographic Stations established: \*9

Number of Temporary Hydrographic Stations located by radial plot: 53

Leveling (to control contours) - miles:

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname  
and initials (not initials only).

Remarks:

\* Two of these located by radial plot and seven by field methods.

FIELD REPORT  
SURVEY No. T-8583

COAST OF MAINE  
VICINITY OF MOUNT DESERT ISLAND  
PROJECT No. CS-272-E

1. DESCRIPTION OF THE AREA:

According to Instructions, dated August 10, 1944, the survey for Map Drawing, Survey No. T-8583, is a shoreline survey.

Survey No. T-8583 covers an area of the northeastern part of Mount Desert Island from a point approximately 1/2 mile northwest of Parker Point, southeasterly to a point west southwest of Bar Harbor, the northern portion of Iron Bound Island; the western portion of Jordan Island, and all of Stave Island, Long Porcupine Island, Burnt Porcupine Island, Sheep Porcupine Island, Yellow Island, and Bar Island.

The terrain immediately adjacent to the Mean High-Water Line is, in general, very rocky. The foreshore area is commonly ledge rock with several long stretches of sand and gravel beaches, mostly boulder strewn. The sand and gravel beaches are in or near the coves and along a large portion of the shore of Stave Island. There are some mud flats in the deeper coves.

The interior is mostly tree covered with a few cleared and cultivated areas.

2. COMPLETENESS OF FIELD INSPECTION:

The identification of the horizontal control is complete except for one station, SHEEP, 1934, which was recovered but not identified. The identification and field inspection of the Mean High-Water Line, Mean Low-Water Line, and foreshore and offshore features are complete except for off-lying shoal areas, sunken reef areas, and charted rocks awash not visible on the air photographs. The charting data for these features will become available during contemplated hydrography.

*[11-7199 only 20% processed, Mar. 1948]*

3. INTERPRETATION OF THE PHOTOGRAPHS:

Sufficient notes have been made on the field photographs to enable the Compilation Office to augment the field interpretation by analogy where necessary.



4. HORIZONTAL CONTROL:

Two horizontal control stations "SHEEP, 1934" and "E-2 (U.S.E.)1937, r.1944", were recovered, but only Station E-2 (U.S.E.) 1937, r. 1944 was identified on the field photographs.

Form No. 526, Recovery Note, has been submitted for each of these control stations.

Seven additional horizontal control stations were established and located by approved ground survey methods. All these were identified on the field photographs for use in controlling the radial plot. *See Compilation Report and Identification Report attached hereto*

5. VERTICAL CONTROL:

No vertical control was recovered or identified within the area of this survey.

6. DRAINAGE:

No drainage was identified on the field photographs.

7. MEAN HIGH-WATER LINE:

All of the Mean High-Water Line was inspected from a dinghy kept close to the shore or by traversing on foot. Where the Mean High-Water Line could not be directly identified on the field photographs, reference measurements were taken or the distance estimated from some well defined picture reference image.

Along-shore rocks, offshore rocks, and islets above the plane of Mean High-Water revealed by photography, have been identified on the field photographs with elevations above the plane of Mean High-Water noted.

8. MEAN LOW-WATER LINE:

The Mean Low-Water Line was inspected at or near Mean Low-Water whenever practicable. All of the Mean Low-Water Line within the area of the Survey has been delineated. The position of most of the Mean Low-Water Line has been identified very close to its true position but is to be considered as approximate. However, from just northwest of Cape Levi to the western limit of the Survey and along the northern side of Bar Island, the Mean Low-Water Line has been identified with full charting accuracy.



9. WHARVES AND SHORELINE STRUCTURES:

All piers, cribbings, seawalls, and marine ways visible on the photographs within the area of the Survey have been identified on the field photographs.

10. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

Only a small amount of the detail outside the foreshore area was revealed by photography. It includes several rock ledge areas, a few small islets, rocks awash, and two fish traps.

The character of the foreshore area has been indicated on the field photographs. The extent to which several prominent rocks and rock ledge areas bare or uncover at the time of field inspection, with time and date, have been noted on the field photographs.

11. LANDMARKS AND AIDS TO NAVIGATION:

No previously charted or desirable uncharted landmarks or fixed aids to navigation fall within the limits of the Survey.

12. HYDROGRAPHIC CONTROL:

9 Recoverable Topographic Stations.  
53 Temporary Hydrographic Stations.

*[See "Descr. of Recov. Topog. Sta...."  
attached to this Report.]*

Descriptions have been furnished.

14. ROAD CLASSIFICATION:

In accordance with the Army War College Circular, dated January 12, 1942, "Classification of Roads".

18. GEOGRAPHIC NAMES: *BY ✓*

No investigation.

COMPILATION REPORT  
MAP DRAWING, SURVEY No. T-8583

FRENCHMAN BAY  
STAVE ISLAND - MT. DESERT ISLAND

26. CONTROL:

The horizontal control shown on the Map Drawing for Survey No. T-8583 consists of eighteen stations. They are as follows:

Nine within detail limits

| <u>Name of Station</u>   | <u>Type of Station</u> |
|--------------------------|------------------------|
| BALD, 1944               | Topographic            |
| (a) BURNT, 1944          | Topographic            |
| (a) HOP, 1944            | Topographic            |
| (a) HULL, 1944           | Topographic            |
| (a) LEVI, 1944           | Topographic            |
| (a) POR, 1944            | Topographic            |
| (b) SHEEP, 1934, r. 1944 | Triangulation          |
| (a) STAVE, 1944          | Topographic            |
| E 2 (U.S.E.) 1937        | Triangulation          |

Nine just outside detail limits

| <u>Name of Station</u>                 | <u>Type of Station</u> |
|--|------------------------|
| (a) CRAB, 1934                         | Triangulation          |
| (a) PREBLE, 1944                       | Topographic            |
| (b) CALF, 1860, r. 1944                | Triangulation          |
| CALF I. N.E. gable boathouse, 1944     | Topographic            |
| E 3 (U.S.E.) 1937, r. 1944             | Triangulation          |
| (c) BAR HARBOR, EAST RADIO TOWER, 1944 | Topographic            |
| BAR HARBOR, WEST RADIO TOWER, 1944     | Topographic            |
| (a) WHEELER, 1860, r. 1944             | Triangulation          |
| (a) DUN, 1944                          | Topographic            |

(a) Station identified by a well defined picture point connected to station by a short traverse. The positions of these substitute points have been shown on the Map Drawing with very small black acid ink circles, accompanied by the letters "F.I.P."

(b) Station recovered but not identified.

(c) New station established by approved ground survey methods but not identified.

All but three of the above stations were used to control the radial plot.



27. RADIAL PLOT:

The radial plot for the area of the Survey is part of a combined plot made at the Washington Office with celluloid templates. Satisfactory results were obtained.

The facts concerning the radial plot for the area of this Map Drawing have been fully brought out in the Radial Plot Report for the areas of Surveys Nos. T-8573 to T-8590, inclusive, T-8594 and T-8595, submitted June 5, 1945.

*Div. of Photogrammetry General file*

28. DETAILING:

The field data, horizontal ground control, and radially plotted control points available for the compilation were adequate. In several areas, only two radials could be drawn due to insufficient photography. In general, however, the photography was also adequate.

Only the area in the vicinity of the shore has been detailed in the areas of Mount Desert Island, Stave Island, Jordan Island, and Iron Bound Island. The interior detail of all the other islands has been completely shown.

30. MEAN HIGH-WATER LINE:

Detailed in accordance with the field data and shown with a continuous heavy-weight black acid ink line.

No marsh areas appear on this Map Drawing.

31. MEAN LOW-WATER LINE:

Detailed in accordance with the field data. Where the position determined was approximate, it has been shown with a dotted black acid ink line and where the definite position was determined, it has been shown with an alternate dash and dot black acid ink line.

*See # 8 "Field Report"*

31-A. FORESHORE AREAS:

The foreshore areas shown consist of rock ledge, boulders, detached rocks, and sand and gravel beaches. Detailed in accordance with the field data.

31-B. SHOAL LINES: *(Removed during review)*

Detailed in accordance with the Compilation Office interpretation of the photographs and is for the advance information of the Hydrographic Parties only. Outline is approximate. Shown with a long dashed black acid ink line, accompanied by the note "Shoal".



31-C. REEF LINES:

Detailed in accordance with the Compilation Office interpretation of the photographs. Outline is approximate, shown with a short dashed black acid ink line, accompanied by the note "Reef".

32. DETAILS OFFSHORE FROM THE MEAN HIGH-WATER LINE:

The offshore details include rocks, reefs, islets, and shoal areas. Except for the shoal and reef areas, all of these details shown are in accordance with the field data.

33. WHARVES AND SHORELINE STRUCTURES:

Piers, cribbings, marine ways, and piling areas have been detailed in accordance with the field data.

35. HYDROGRAPHIC CONTROL:

9 Recoverable Topographic Stations - Two located by the radial plot, and seven by ground survey methods.

Form No. 524 is being submitted for the nine recoverable topographic Stations. *Filed in Div. of Photogrammetry General Files.*

53 Temporary Hydrographic Stations - Located by radial plot.

A list of their descriptions is attached to this report.

38. GEOGRAPHIC NAMES:

Taken from Nautical Chart No. 306 and United States Geological Survey Quadrangle Maps.

A list of the names is attached to this report.

39. JUNCTIONS:

The junctions with Survey No. T-8582 to the north, T-8588 to the east, T-8584 to the south, and T-8576 to the west have been made and are in agreement.

The junction with Survey No. T-8577 to the northwest is an all water area.

The area of Map Drawing, Survey No. T-8589 to the northeast has not been detailed. Junction will be made at a later date. *OK*

40. POSITION ACCURACY OF IMPORTANT PLANIMETRIC DETAILS:

Believed to be within 0.5 mm.

41. RECOMMENDATIONS FOR FUTURE SURVEYS:

Map Drawing, Survey No. T-8583, is complete with respect to all known details necessary for charting, except the charted features not definitely revealed by photography, which should be investigated during contemplated hydrography. These features have been noted in "Notes to Hydrographic Parties", attached to this report, and have been indicated on a section of Nautical Chart No. 306, also attached to this report.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

United States Geological Survey Bar Harbor, Maine, Quadrangle 15' series, scale 1:62,500, edition of 1942 (Common area), and United States Geological Survey Mount Desert, Maine, Quadrangle, 15' series, scale 1:62,500, edition of 1942 (Common area).

Details common to the Map Drawing and the Quadrangles are, in general, in good agreement. However, several piers, two fish traps, and Bald Rock Ledge shown on the Map Drawing do not appear on the Quadrangles. The drainage appearing on the quadrangle on the east and west sides of Iron Bound Island has not been shown on the Map Drawing because it could not be identified on the photographs.

45. COMPARISON WITH NAUTICAL CHARTS:

Chart No. 306, scale 1:40,000, published at Washington, D. C., March 1944, corrected to April 7, 1945. (Common area).

Details common to the Map Drawing and the Chart are, in general, in good agreement. However, a charted rock awash just west of Thrumcap, a charted sunken rock just off Cape Levi, all charted floating aids to navigation, two charted streams on Iron Bound Island, and the charted area Sunken Ledge have not been shown on the Map Drawing because they could not be identified on the photographs. All buildings, piers, except the one on the south side of Bar Island, all fish traps, seawalls, all roads north of Hulls Cove on Mount Desert Island, most of the roads south of Hulls Cove on Mount Desert Island, all roads and trails on Bar Island, the trail leading from Bar Island to Bar Harbor (Village), and several geographic names shown on the Map Drawing do not appear on the Chart. The following charted rocks awash have been shown on the Map Drawing as ledge:

One approximately 0.6 miles offshore from Cape Levi,  
One offshore from mouth of Duck Brook, two at Bald Rock Ledge,  
and one just offshore at the northern end of Stave Island.



The Map Drawing for Survey No. T-8583 was compiled under the supervision of J. Edward Deal, Jr., Photogrammetric Engineer, and Harry R. Rudolph, Photogrammetric Aid, and reviewed by Harry R. Rudolph.

Respectfully Submitted,  
July 12, 1945

John M. Reinoldi  
John M. Reinoldi,  
Photogrammetric Aid

and

Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Aid

Approved and Forwarded:  
July 17, 1945

Fred. L. Peacock  
Fred. L. Peacock  
Chief of Party, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office

GEOGRAPHIC NAMES

(Undisputed)

Taken from Nautical Chart No. 306:

- • Bald Rock
- • Bald Rock Ledge
- • Bar Harbor
- • Bar Island
- • Burnt Porcupine Island
- • Cape Levi
- • Duck Brook
- • Frenchman Bay
- • Halibut Hole
- • Halls Cove
- • Halls Cove (Village)
- • Jordan Island
- • Little Calf Island
- • Long Porcupine Island
- • Lookout Point
- • Mount Desert Island
- • Rum Key
- • Sheep Porcupine Island
- • Stave Island
- • Stave Island Harbor
- • The Hop
- • The Porcupines
- • Thrumcap
- • Yellow Island

Names preceded by • are  
approved L. Heck  
7/18/47

GEOGRAPHIC NAMES

Taken from United States Geological Survey Bar Harbor,  
Maine, Quadrangle Map

- • Canoe Point
- • Parker Point
- • The Bluffs
- • Witch Hole Pond
- • Paradise Hill

- • State No 3 - main road N. of Halls Cove plus  
Bay Drive
- • Bay Drive
- • Breakneck Road
- • Breakneck Brook
- • Eden Street

(all names added in ink are  
already on map).

GEOGRAPHIC NAMES

(Disputed)

Nautical Chart No. 306

• Iron Bound Island

U.S. Geological Survey Bar Harbor,  
Maine, Quadrangle

~~Ironbound Island~~

*M.T.O.B.*

1944  
 IDENTIFICATION REPORT  
 HORIZONTAL CONTROL  
 MAP DRAWING, SURVEY No. T-8583  
 Project No. CS-272

| <u>Station</u>  | <u>U.S.G.S.<br/>Quadrangle</u> | <u>Recovery<br/>Date</u> | <u>Pricking<br/>Data</u> |
|---|--------------------------------|--------------------------|--------------------------|
| BALD, 1944  | Bar Harbor                     | 10-4-44                  | Positive                 |
| BURNT, 1944 (Within 2 meters)                                   | Bar Harbor                     | 9-12-44                  | *Good                    |
| HOP, 1944   | Bar Harbor                     | 9-18-44                  | Positive                 |
| HULL, 1944  | Bar Harbor                     | 9-12-44                  | Positive                 |
| LEVI, 1944  | Bar Harbor                     | 9-23-44                  | Positive                 |
| POR, 1944   | Bar Harbor                     | 9-18-44                  | Positive                 |
| SHEEP, 1934 (Station POR established<br>to take place of SHEEP) |                                | 9-18-44                  | *Not pricked             |
| STAVE, 1944   |                                | 9-26-44                  | Positive                 |
| E-2 (U.S.E.) 1937   | Bar Harbor                     | 11-24-44                 | *Good                    |

\* Within 2 or 3 meters.

Stations Just outside limits of Map Drawing

|   |            |          |              |
|---|------------|----------|--------------|
| CRAB, 1934  | Bar Harbor | 9-8-44   | Positive     |
| PREBLE, 1944  | Bar Harbor | 9-26-44  | Positive     |
| CALF, 1860 (See Pricking Card)                            | Bar Harbor | 9-26-44  | Not pricked  |
| CALF I. N.E. GABLE BOATHOUSE                              | Bar Harbor | 9-26-44  | Positive     |
| E-3 (U.S.E.)  | Bar Harbor | 11-25-44 | Positive     |
| BAR HARBOR, EAST RADIO TOWER,<br>1944 (*W. Tower pricked) | Bar Harbor | 9-13-44  | *Not pricked |
| BAR HARBOR, WEST RADIO TOWER,<br>1944                     | Bar Harbor | 9-13-44  | Positive     |
| WHEELER, 1860   | Bar Harbor | 9-18-44  | Positive     |
| DUN, 1944   | Bar Harbor | 10-2-44  | Positive     |

NOTES  
FOR  
REVIEWER

MAP DRAWING, SURVEY No. T-8583  
COAST OF MAINE  
PROJECT No. CS-272-E

All details have been shown with the usual symbols.

The small blue ink circles are the positions of well defined picture points, determined by the radial plot, and are considered very strong. The small green ink circles are the positions of such points determined by only two wide angle radials or by three or more very slim angle radials, and are considered weak.

The large blue ink circles are the very strong positions of the photograph centers determined by the radial plot.

The  $2\frac{1}{2}$  millimeter black acid ink circles are the positions of the Recoverable Topographic Stations and the Temporary Hydrographic Stations. Such circles, accompanied by a name and date (1944) are the positions of the Recoverable Topographic Stations established by ground survey methods or determined by the radial plot. All other such stations are the positions of the Temporary Hydrographic Stations determined by the radial plot.

The very small black acid ink circles are the positions of well defined picture points, identified and located by ground survey methods by the Field Unit, to substitute for horizontal control stations in controlling the radial plot. These circles are accompanied by the letters "F.I.P." and a name.

The photographs contain no appreciable tilt or differential distortion.

The scales of the photographs and the Map Drawing were in good agreement. The vertical projector was not used.

The following disagreements between the Map Drawing and United States Geological Survey Quadrangle Maps and a United States Coast and Geodetic Survey Nautical Chart were found:

United States Geological Survey, Bar Harbor, Maine, Quadrangle, 15' series, edition of 1942 (common area).

All piers, except the one on the south side of Bar Island, all fish traps, all seawalls, and the geographic name Bald Rock Ledge, shown on the Map Drawing, do not appear on the Quadrangle.

Streams on the east and west sides of Iron Bound Island, appearing on the Quadrangle, have not been shown on the Map Drawing because no data were available.

The trail shown on the Map Drawing, leading from Bar Island southward to Bar Harbor (Village) appears on the Quadrangle as a double dashed line road.

United States Geological Survey Mount Desert, Maine, Quadrangle, 15' series, scale 1:62,500, edition of 1942:

A bench mark and a small stream appearing on the quadrangle at Halls Cove have not been shown on the Map Drawing because no data were available.

Chart No. 306, scale 1:40,000, Published at Washington, D. C., March, 1942, corrected to April 7, 1945. (Common area).

All charted Floating Aids to Navigation, the charted geographic name Sunken Ledge, two charted streams on Iron Bound Island, a charted sunken rocks offshore of Cape Levi, and a charted rock awash west of Thrumcap, appearing on the chart, have not been shown on the Map Drawing because no data were available. All roads and trails north of Halls Cove, on Mount Desert Island, most of the roads south of Halls Cove on Mount Desert Island, a road and a trail on Bar Island, a trail leading from Bar Island to Bar Harbor (Village), rock ledge bare at Mean Low-Water between Bar Island and Sheep Porcupine Island, all piers except the one on the south side of Bar Island, fish traps in Halls Cove and between Yellow Island and Jordan Island, all marine ways, a lobster car southeast of Parker Point, several stone retaining walls in the vicinity of Duck Brook and all buildings shown on the Map Drawing, do not appear on the Chart.

Respectfully Submitted,  
July 12, 1945

Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Aid

Approved  
July 17, 1945

Fred. L. Peacock  
Fred. L. Peacock  
Chief of Party, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

**SUPPLEMENTAL**  
**DESCRIPTIVE REPORT**

Type of Survey Planimetric Air Photographic

Field No. \_\_\_\_\_ Office No. T-8583

LOCALITY

State Maine

General locality Coast of Maine

Locality Frenchman Bay  
Vicinity of Steve. Island and Mt. Desert Island

1946

CHIEF OF PARTY

Fred. L. Peacock

LIBRARY & ARCHIVES

DATE \_\_\_\_\_

ADDITIONAL WORK - 1946

T-8583

In accordance with the original and various Supplemental Instructions for Project No. CS-272, the Surveys in the vicinity of Penobscot Bay were Photogrammetric Shoreline Surveys. The compilation of these Surveys were completed by the Baltimore Photogrammetric Office in accordance with these Instructions.

New Instructions, dated January 10, 1946, requested the detailing of portions of the interior on seven Photogrammetric Shoreline Surveys of this area for use in compiling new 1:10,000 scale Harbor Charts Nos. 317, 318, and 319. Survey No. T-8583 is one of these.

The Instructions were accompanied by layouts on which were shown the area within which complete photogrammetric detail was required.

The additional work required on Survey No. T-8583 includes all of the planimetric detail west of the western shoreline of Frenchman Bay to the western limits of the Survey. This planimetric detail includes an area of approximately two square miles.

Good junctions of planimetric details were made with map Manuscript for Survey No. T-8584 to the south.

All details are shown in accordance with the Compilation Office interpretation of the photographs as no field data were furnished the Compilation Office.



Respectfully Submitted,  
February 25, 1946

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Aid

Additional Compilation By:

Ruth E. Rudolph  
Ruth E. Rudolph  
Photogrammetric Aid

Additional Work Reviewed By:

Raymond Glaser  
Raymond Glaser  
Engineering Draftsman

Supervised By:

Harry R. Rudolph  
Harry R. Rudolph  
Photogrammetric Aid

Approved and Forwarded:  
February 27, 1946

Fred. L. Peacock  
Fred. L. Peacock  
Chief of Party, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office

Division of Photogrammetry  
Review Report of  
Shoreline Survey, Manuscript T-8583

Paragraph numbers used in this report refer to paragraph numbers in the Descriptive Report.

23 to 32 Compilation

The shoreline and planimetry shown on the map manuscript are complete and in accordance with project instructions. No significant changes were necessary during the review except the following:

The map manuscript showed a dashed line outside the high and low-water lines, marked "reef" and "shoal". This line was placed on the map manuscript wholly from office interpretation of the photographs. Comparison with existing nautical charts indicates that this line showed no consistency with respect to soundings, and as this line would be of no value to the hydrographer, it has been removed from the map manuscript, except where specifically noted by the field inspectors.

Several rocks were noted on the field inspection photographs giving the height of each rock above sea level at a specific time on a given day. No information is given on the field photograph, or in the Field Inspection Report concerning the time datum used by the field inspector; i.e., whether Eastern War Time or Eastern Standard Time (75th Meridian Time) was used. The tide curves submitted with this manuscript show a correction from Eastern War Time to 75th Meridian Time. With no specific information available to this office it is assumed that this time adjustment was made in the Baltimore office after obtaining some definite explanation from the field inspectors.

44 Comparison with Existing Topographic Quadrangles

This survey (T-8583) supersedes the following older USCGS surveys for common detail in common area:

- (1) 331 1:10,000 1862
- (2) 1334b 1:10,000 1873
- (3) 1364 1:10,000 1874
- (4) 1479 1:10,000 1878
- (5) 1541 1:10,000 1884

Comparison has been made between map manuscript T-8583 and the following USGS quadrangles and good agreement exists in all common detail except as noted under "Notes to the Reviewer", in the Descriptive Report.

- (1) USGS Bar Harbor quadrangle, (Hancock County), Maine, 15 minute series, 1:62,500, edition of 1942.
- (2) USGS Mount Desert quadrangle (Hancock County), Maine, 15 minute series, 1:62,500, edition of 1942.

Comparison has also been made between this manuscript (T-8583) and the following USGS Special Sheet. No additional discrepancies were noted.

- (1) USGS Acadia National Park and vicinity (Hancock County), Maine, 1:31,680, edition of 1942.

#### 45 Comparison with Nautical Charts

This manuscript was compared with USC&GS nautical chart 306, edition of 1942, corrected to June 1946, 1:40,000. Discrepancies between these maps are adequately discussed under item 45 and "Notes to the Reviewer" in the Descriptive Report.

T-8583 was applied in part to USC&GS nautical chart 306 prior to this review. No significant corrections have been made during this review which affect this chart. The minor corrections have been shown on the manuscript in red acid ink.

Reviewed by:

Howard Thune  
Howard Thune  
Photogrammetrist 1/15/47 *K.H.M.*

Under the direction of:

A. V. Griffith  
Chief, Review Section *K.H.M.*

Approved by:

B. J. Jones  
Technical Assistant to the Chief  
Division of Photogrammetry

M. Edmonstone  
Chief, Nautical Chart Branch  
Division of Charts

K. T. Adams  
Chief, Division of Photogrammetry

W. M. Scaife  
Chief, Division of Coastal Surveys



COAST OF MAINE  
PROJECT No. CS-272

DESCRIPTIONS OF THE RECOVERABLE TOPOGRAPHIC  
STATIONS AND TEMPORARY HYDROGRAPHIC STATIONS FOR  
THE AREA OF MAP DRAWING, SURVEY No. T-8583

|   |           |
|---|-----------|
| NUMBER OF RECOVERABLE TOPOGRAPHIC STATIONS..... | 9         |
| NUMBER OF TEMPORARY HYDROGRAPHIC STATIONS.....  | <u>53</u> |
| TOTAL NUMBER OF STATIONS.....                   | 62        |

Listed By: John M. Reinoldi,  
Photogrammetric Aid

Checked By: Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Aid

- 1716 Evergreen. *Rum Key*
- 1717 Evergreen (Closely grown bunch of small evergreens). *Burnt Porcupine I.*
- 1718 Evergreen. " "
- 1719 Center of top of boulder above high-Water Line. *Bar I.*
- 1719½ Northerly of two outcrops of ledge one foot above high-Water Line.
- 1720 Southeast corner off shore end of pier. *Bar I.*
- 1721 Center of water filled depression in ledge. *Long Porcupine*
- 1721½ Outcrop of ledge above High-Water Line (very small). "
- 1722 Center of partly destroyed pier 5 meters off grass line. "
- 1723 20 foot evergreen. "
- 1724 White top boulder. "
- 1725 Evergreen. "
- 1726 Lowest evergreen on ledge. "
- 1729 West corner of ledge. *Iron Island*
- 1730 Twin evergreens "
- 1731 Northeast corner off shore end of pier. "
- 1732 Evergreen. "
- 1733 Evergreen. "
- 1741 25 foot bushy evergreen. *Iron I.*
- 1746 Center of white top of projection of ledge. "
- 1747 North corner off shore end of cribbing. *Yellow I.*
- 1748 "LARGE STONE CHIMNEY" - Station is large stone chimney inside "L" of house. It is located in southeast corner of Yellow Island. Yellow Island is just south of Stave Island Harbor. Recoverable Topographic Station.
- 1749 Evergreen. *Jordan I.*
- 1750 Stone chimney north end of house. "
- 1753 Tall evergreen. *at least*

- MT Desert*
- 1754 Small evergreen on edge of fill.
- 1755 Center off shore end of stone pier.
- 1756 North corner concrete foundation off shore end of pier.
- 1757 North corner off shore end of pier.
- 1758 Tall evergreen on edge of road.
- 1759 North corner off shore end of pier.
- 1760 East gable of shack.
- 1761 "EAST GABLE OF HOUSE" - Station is east gable of house with top half shingled. Lower half stucco with a cement block foundation. Large sun porch on front of house. Station is in Halls Cove approximately 40 meters from Mean High-Water Line, approximately 42 meters southwest of road intersection. Recoverable Topographic Station.
- 1762 East corner off shore end of pier.
- 1763 Southeast corner off shore end of pier. (*Destroyed*)
- 1764 30 foot evergreen.
- 1765 Large white topped boulder.
- 1766 Center of top of small bath house.
- 1767 Evergreen. ?
- 1842 Evergreen. *Slack I*
- 1843 Large evergreen. "
- 1844 Tall evergreen. "
- 1845 Large evergreen. "
- 1846 Center of large white topped boulder. "
- 1847 Evergreen. "
- 1848 Evergreen. "
- 1849 Evergreen. "
- 1850 Evergreen. "
- 1851 Evergreen. "

1852 Evergreen. *Stave I*  
 1970 Evergreen. *Little Calf I*  
 2064 Evergreen. *Islet I*  
 2259 Stone chimney near center of house. *NW Desert 2*  
 2260 North gable large house. "  
 2261 Evergreen.

"BALD, 1944" - Station is about three meters northwest of the highest part of bald rock, which is about one mile north of Bar Harbor, 11.8 meters from top edge of cliff to southeast and 7.3 meters from edge of cliff in line with center part of Stave Island. Marked by a standard Topographic disc stamped "BALD, 1944". Elevation 20 feet. Recoverable Topographic Station.

"BURNT, 1944" - Station is located on the northern end of Burnt Porcupine Island, which is about  $1\frac{1}{2}$  miles northeast of Bar Harbor, 25 meters west of the most northerly part, 5 meters outside the grass line, 2 meters from the Mean High-Water Line. Mark is a standard topographic disc stamped "BURNT, 1944" set in a large flat ledge rock which is about 5 meters square. Elevation 2 feet. Recoverable Topographic Station.

"HOP, 1944" - Station is located on The Hop which is just northeast of Long Porcupine Island and about two miles east northeast of Bar Harbor. Station is on the lower and most southerly of the two humps on the island, about 10 meters south of the highest part on prominent ledge outcrop. Mark is a standard topographic disc stamped "HOP, 1944". Recoverable Topographic Station.

"HULL, 1944" - Station is on the south side of Frenchman Bay, about a 1000 meters southeast of the head of Halls Cove, 150 meters northwest of northwest end of rocky bluff under road, on the most northerly part of a rock point between two gravel beaches, 2 meters from Mean High-Water Line, 14.6 meters from the westerly end of a 5 foot high plaster wall, and 6.5 meters outside the grass line. Standard topographic disc stamped "HULL, 1944". Elevation 6 feet. Recoverable Topographic Station.

"LEVI, 1944" - Station is located on Cape Levi on the southwestern side of Frenchman Bay about  $3\frac{1}{2}$  miles northwest of Bar Harbor, about 200 meters north of an outdoor swimming pool on the beach, about 30 meters south southeast of a small point where shoreline breaks to west for about 50 meters, on a piece of ledge rock that is about 4 meters outside of tree and grass line, and drops off on east, north, and west sides and about two meters from Mean High-Water Line. Mark is a standard disc stamped "LEVI, 1944". Elevation 6 feet. Recoverable Topographic Station.



"POR, 1944" - Station is on the northern side of Sheep Porcupine Island, 25 meters west of the northwesterly tip, 6 meters back of Mean High-Water Line, 1 meter outside grass line. Mark is a standard topographic disc stamped "POR, 1944", set in ledge rock outcrop. Elevation 10 feet. Recoverable Topographic Station.

"STAVE, 1944" - Station is located on the most northwesterly tip of Stave Island, on the flat ledge rock that is about 20 meters off shore in a northwesterly direction, on the highest part of ledge and 24 meters northwest of northwest tip of grass line. Station is standard topographic disc stamped "SHAVE, 1944", set in the ledge rock. Elevation 1 foot. Recoverable Topographic Station.

NOTE: This mark may be stamped "Stave" instead of "Shave".

NOTES  
FOR  
HYDROGRAPHIC PARTIES

MAP DRAWING, SURVEY No. T-8583  
COAST OF MAINE  
PROJECT No. CS-272-E

The  $2\frac{1}{8}$  millimeter ink circles are the positions of the selected hydrographic control stations. Two copies of the Descriptive List have been furnished for your use.

The outline of shoal and sunken reef areas shown are approximate and are for your advance information only. They are shown with long dashed ink lines, respectively.

The alternate dash and dot ink line is the true position of the Mean Low-Water Line. The dotted ink line is an approximate position of the Mean Low-Water Line.

The very small ink circles, accompanied by the letters "F.I.P." and a name, are the positions of well defined picture points located by ground survey methods as substitutes for horizontal control stations used to control the radial plot. A brief description of the F.I.P.'s may be found on the pricking cards, Form No. M-982-1, submitted to the Washington Office.

The following charted features were not definitely revealed by photography and should be investigated during contemplated hydrography:

Nautical Chart No. 306

All floating Aids to Navigation within the area of the survey.  
A rock awash just west of Thrumcap.  
A sunken rock just offshore from Cape Levi.  
Area shown on the Chart as "Sunken Ledge", north of Parker Point.  
Two features which appear to be high-water rocks just off the northern end of Stave Island.

The areas in which the following charted rocks awash are located have been shown on the Map Drawing as rock ledge:

One approximately 0.6 miles offshore from Cape Levi, 2 at Bald Rock Ledge, one offshore from the mouth of Duck Brook and one just north of Stave Island.

The heights to which the highest part of these ledge areas uncover at Mean Low-Water has been shown on the Map Drawing in accordance with the field data. However, the highest point of these ledge areas could not be identified on the photographs. The exact location

of the high points of the rock ledge areas remain to be determined.

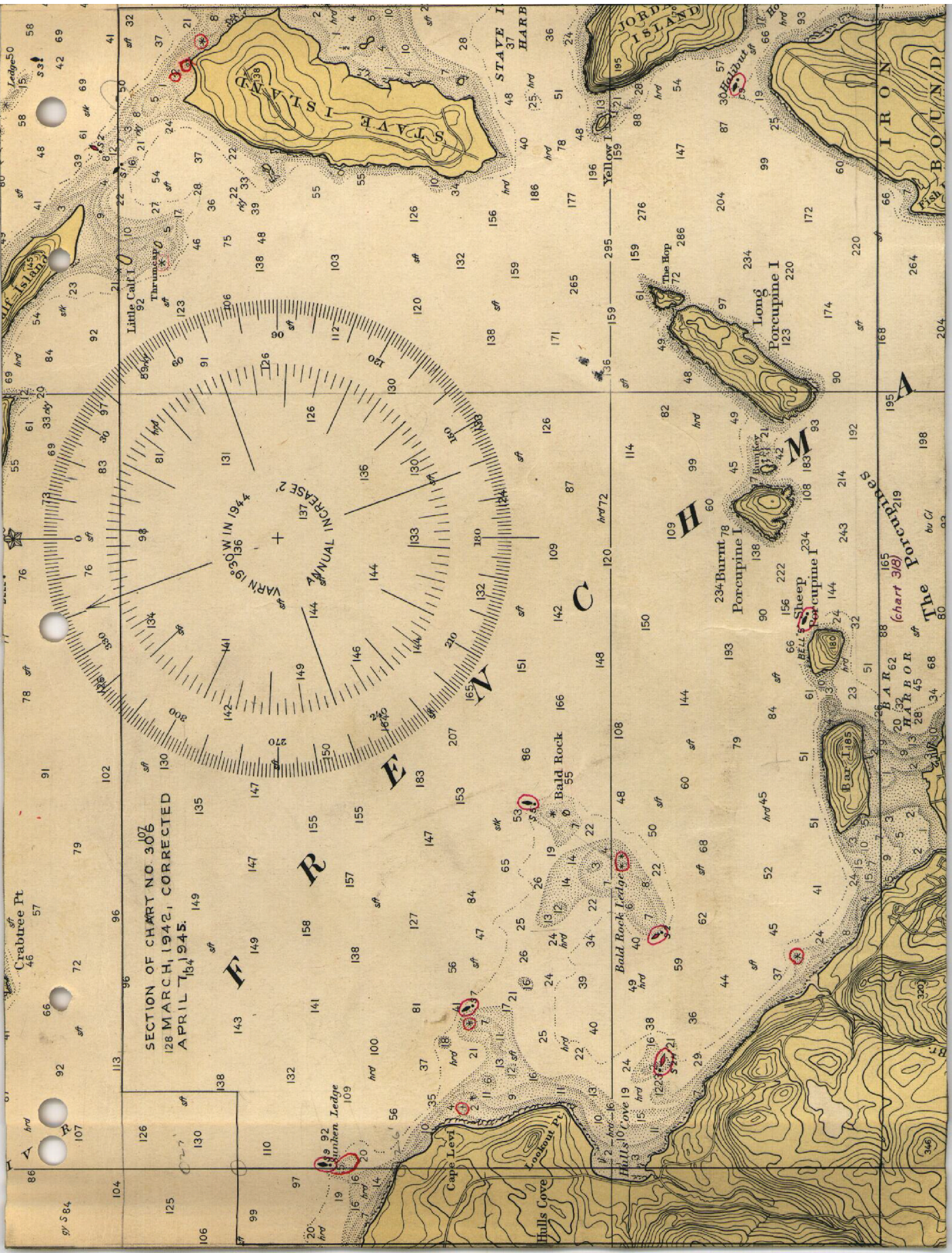
Respectfully Submitted,  
July 12, 1945

Harry R. Rudolph  
Harry R. Rudolph,  
Photogrammetric Aid

Approved:  
July 17, 1945

Fred. L. Peacock  
Fred. L. Peacock  
Chief of Party, C. & G. Survey  
Officer-in-Charge,  
Baltimore Photogrammetric Office





SECTION OF CHART NO 306  
128 MARCH, 1942, CORRECTED  
APRIL 1945.

WARN 1930 W IN 1944  
ANNUAL INCREASE 2

Crabtree Pt  
46

R

E

C

H

M

A

Porcupines  
The Porcupines

BAR HARBOR  
The Porcupines

BAR HARBOR  
The Porcupines

BAR HARBOR  
The Porcupines

BAR HARBOR  
The Porcupines