

4264

Diag. Chy. Nos. 8152-1 & 8252-1

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*  
Field No. \_\_\_\_\_ Office No. *4264*

LOCALITY

State *Alaska*  
General locality *West Coast*  
Locality *of Prince of Wales*  
*J. Coronation Id.*

1922

CHIEF OF PARTY

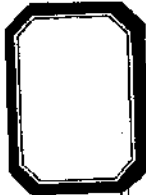
*F. J. Maher*

LIBRARY & ARCHIVES

DATE \_\_\_\_\_

4264

4264



Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

APR 19 1902

State: Alaska

11-5413

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4264

LOCALITY:

West Coast of Prince of Wales I.

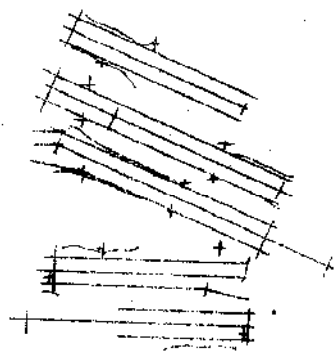
Coronation I. - Aats. Bay + Egg Harbor

1902

CHIEF OF PARTY:

T. J. Maher

4264



Part of  
P/44297

DESCRIPTIVE REPORT

to accompany

Hydrographic Smooth Sheet of the Aats  
Bays and Egg Harbours, Coronation Island,  
S. E. Alaska.

Scale 1:20000

U. S. S. SURVEYOR - T.J.Maher, Chief of Party.

September 28 to October 13

1922.

## DESCRIPTIVE REPORT

to accompany Hydrographic Smooth Sheet of the Aats Bays and Egg Harbours, Coronation Island - Southeastern Alaska.

### LIMITS of SHEET.

This sheet includes a hydrographic survey of the two Aats Bays out to a line due East of  $\Delta$ Aats, and a survey of the two Egg Harbours out to a line due East of  $\Delta$ Nation. The survey consisted of a system of 100 meter lines except North of the Aats Bays where the spacing of lines was increased to 200 meters.

### CHARACTER of SHORE.

The shore line of the Egg Harbours and the Aats Bays are of rock with sand beaches at their heads. Back of the Aats Bays the land rises abruptly, but back of the Egg Harbours is a long valley which extends back to the West coast of Coronation Island, and acts as a funnel, so that with a Southeast and Southwest wind, there is a very strong breeze blowing out of the Egg Harbours, and in times of heavy weather the wind blows in gusts with the strength of heavy gales. The area about and back of the Egg Harbours and the Aats Bays is heavily wooded.

### LANDMARKS.

The point on which  $\Delta$ Aats is situated is a good landmark, approaching from the East, to the entrance to the Aats Bays, and the long point separating the two Egg Harbours, about 150 feet in elevation and heavily wooded is an excellent landmark for the approach from the East to the most Westerly of the Egg Harbours. The point on which  $\Delta$ Nation is situated is a landmark for the approach to the same Egg Harbour from the West.

### DANGERS.

There is a rock which bares at three quarter tide distant 2066 meters  $347\frac{1}{2}^{\circ}$  (true) from  $\Delta$ Aats. There is a sunken rock which breaks at extreme low tide or in heavy weather 1000 meters  $53^{\circ}$  (true) from  $\Delta$ Aats. There is a rock which bares at low tide West of the entrance to the most Westerly Egg Harbour 564 meters  $109^{\circ}$  (true) from  $\Delta$ Nation. There is a rock which is awash at mean high water East of the entrance to Egg Harbour 196 meters  $326^{\circ}$  (true) from  $\odot$ Brak.  $\odot$ Brak is on a small rock island. There is a sunken rock 666 meters  $47^{\circ}$  (true) from  $\odot$ Out in Aats Bay which is marked by a small kelp patch and with a minimum depth of about  $1\frac{1}{2}$  fathoms at mean lower low water.

### DEPTHS and CHARACTER of BOTTOM.

The most Westerly of the Aats Bays has a depth varying from 4

fathoms at the head of the Bay to 30 fathoms at the mouth. The beach at the head of the Bay rises sheer from the 9 fathom curve. At the head of the Bay the bottom is mud which changes to sand at about abeam of @Lik. In the most Easterly of the Aats Bays we have a depth of from 2 fathoms at the head of the Bay to about 15 fathoms at the mouth. The bottom here is of sand. Directly off the point on which @Out is located there is a mass of growing kelp which extends out about 300 meters off the point. This area was carefully sounded out and a minimum depth of about 4 fathoms with rock bottom was obtained. A kelp patch is also present in the most Easterly of the Aats Bays abeam of @Run and @Up but not less than 6 fathoms was obtained here. North of the Aats Bays the depth gradually increased to a maximum of 40 fathoms off A Aats with mud and sand bottom and some rock.

The most Westerly of the Egg Harbours has a uniform depth of from 6 to 8 fathoms throughout most of its length with a maximum of 12 fathoms at the entrance. The bottom at the head of the Bay is muddy which changes to sand North of @Blu. The Easterly Bay of the Egg Harbours slopes gradually to a depth of 15 fathoms at the entrance. The bottom is sand. The survey was carried out North of the Egg Harbours to about the 20 fathom curve and, North of the entrances of the two Egg Harbours the bottom is rocky.

#### ANCHORAGES.

The most Westerly of the Aats Bays affords very poor anchorage. Due to the sheer drop of the beach at the head of the Bay, small boats are in danger of going aground while at anchor, and the depth is too deep for large vessels to anchor in, where they would have plenty of swinging room. It is also exposed to Northerly and Northeasterly sea and wind. The Easterly Bay of the two Aats Bays affords anchorage for small boats and deep-draft vessels in from 4 to 12 fathoms of water with sand bottom. But this Bay is also exposed to and undesirable in Northerly or Northeasterly weather. The most Easterly of the two Egg Harbours is not a very desirable anchorage for it is exposed to Northwest and Northeast sea and wind.

The most desirable anchorage on the North coast of Coronation Island is the most Westerly of the two Egg Harbours. This offers anchorage in depth of from 5 to 8 fathoms with mud bottom at the head of the Bay and sand bottom North of @Blu. The two breakers at the entrance, and the points East and West of the entrance break up the Northeast and Southeast swells, and small boats can obtain protection by anchoring deep in the Bay in the lee of the land. Small boats can also obtain a lee from the strong breeze which blows out of the Bay by anchoring in 6 fathoms just North of @Blu.

Respectfully submitted,

*A. G. Katz*

A. G. Katz,

H. and C. Engineer.

HYDROGRAPHIC STATISTICS

Sheet No. 8 - Aats Bays and Egg Harbours Coronation Island, S.E. Alaska.

Date 1922	Letter	Volume	Positions	Soundings	miles statute	Vessel.
Sept. 28	a	1	84	197	6.9	COSMOS
" 29	b	1	170	353	15.6	"
" 30	c	1	84	164	10.8	"
Oct. 6	a	1	71	195	5.3	Launch #47
" 11	b	1	108	276	8.4	"
" 12	c	1	17	44	1.2	"
" 12	d	2	85	159	7.6	COSMOS
" 13	e	2	126	234	14.0	"
Total			745	1622	69.8	

## COPY TO FIELD RECORDS.

May 1, 1923.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET 4244

Locality: Egg Harbor, Coronation Id., S. E. Alaska.

Chief of Party: T. J. Maher in 1922

Plane of reference is mean lower low water, reading  
2.8 ft. on tide staff at auto. gauge at Steamboat Bay  
2.3 " on tide staff at Egg Harbor.For reduction of soundings, condition of records satisfactory  
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks. **Time incorrect, confusion as to hour.**



Chief, Division of Tides and Currents.



Hydrographic Sheet No 4264.

The work covered by this sheet develops Aato Bay and Egg Harbor and approaches, Coronation Island Alaska.

The work of the party appears good: lines are closely run and sufficient soundings to develop conditions in a satisfactory manner. No additional work appears necessary.

Protracting by Tilla Party good.

Side Gauge located in records at Steamboat Bay off this sheet

Records clear except as noted in "Dir Tides and Currents" report

- (1) "Soundings (whether in feet or fathoms) not clearly shown"
- (2) "Lead line corrections not clearly stated"
- (3) "Time incorrect. Confusion as to hour" This appears only in book of Lannich #47

Boat head by Compass given only in a general way as N, E, S. A.

John D. Torrey  
5/14/23.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

June 20, 1923.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4264.

Aats and Egg Harbor Bays, Coronation Island, Alaska.

Surveyed in 1922. Instructions dated Feb. 25, 1922.

Chief of Party, T. J. Maher.

Surveyed by A. G. Katz.

Protracted by J. Senior.

Soundings plotted by A. L. Shalowitz.

Verified and inked by J. D. Torrey.

1. The following shortcomings are noted in the records:

Is it not indicated whether the soundings are in feet or in fathoms.

Lead line corrections for one day are made to serve for other days.

Boats' courses are noted by cardinal points only. In several cases at least the courses given are clearly erroneous.

Time was incorrectly noted in some cases, resulting in confusion as to the hour.

2. The plan and character of development fulfill the requirements of the General Instructions except that there are no cross sounding lines on the shoaler areas. These could have been run while proceeding to and from the scene of the work.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are adequate.
5. The information is sufficient for drawing the usual depth curves.
6. The sheet was protracted in the field, the plotting being done in the office.

H. 4264 - 2.

7. The adjacent hydrography has not been completed, hence no comparison of overlaps can be made.
8. No further surveying is required within the area covered by this work.
9. The character and scope of the surveying are excellent, except for the defects noted in the records. The protracting is excellent.
10. Reviewed by E. P. Ellis, June, 1923.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4264

State ALASKA

General locality West Coast of Prince of Wales I.  
~~SOUTHEASTERN ALASKA~~

Locality AATS BAYS AND EGG HARBOURS. CORONATION ISLAND.

Chief of party T. J. Maher

Surveyed by A. G. Katz

Date of survey Sept. 28th to October 13th 1922.

Scale 1:20000

Soundings in Fathoms

Plane of reference Mean lower low water

Protracted by J. Senior Soundings in pencil by A. L. Shalowitz

Inked by J. U. Torrey . . . Verified by J. U. Torrey . . .

Records accompanying sheet (check those forwarded):

Des. report,  Tide books,  Marigrams, 1 Boat sheets,

3 Sounding books,  Wire-drag books,  Photographs.

Data from other sources affecting sheet . . . . .

Remarks: Accompanying this sheet also  
1 sheet of Hydrographic Statistics.