# 6959

(C)

Form	504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. Office No. H-6959

LOCALITY

State MAINE

General locality KENNEBEC RIVER

Locality MERRYMEETING BAY

CHIEF OF PARTY
W. R. Porter

LIBRARY & ARCHIVES

DATE 9 1945

B-1870-1 (1)

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

## HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No. H-6959

Field No.

StateMAINE
General locality KENNEBEC RIVER
Locality Merrymeeting Bay
Scale 1:5,000 Date of survey May - August, 1944
Instructions dated March 11, 1942 and March 11, 1944
Vessel Launch FARIS
Chief of party W. R. Porter
Surveyed by W. R. Porter
Soundings taken by fathometer, graphic recorder, hand lead, wire
Protracted byJ. D. Curd
Soundings penciled by J. D. Curd
Soundings in factours feet at MLW MILLY
REMARKS: This sheet was processed in the Hydrographic Section, S. E. District,
Norfolk, Va.

U. 5. GOVERNMENT PRINTING OFFICE 428975

#### DESCRIPTIVE REPORT

#### to accompany

#### HYDROGRAPHIC SHEET H-6959

Scale 1:5,000

#### NOTE:

The following descriptive report was written from a combined report for sheets H-6800, 6801 (1944), 6959, 6960 and 6961 submitted by the field party and supplemented by information obtained at this office.

#### PROJECT:

This survey is part of Project CS-265 and was executed under Instructions dated March 7, 1942, Supplemental Instructions dated March 11, 1942 and March 11, 1944, and letter - Triangulation data - Kennebec River and Merrymeeting Bay (reference, 22/MEK and 1995 FA 4) dated May 3, 1944.

#### SURVEY LIMITS AND DATES:

This hydrographic survey extends from a junction with Sheet H-6800, 1942, scale 1:5,000, in the vicinity of Telegraph Point on the Kennebec River north into Merrymeeting Bay to the 44th parallel and southwestward in Merrymeeting Bay to a line connecting latitude 43° 58.93'.

#### VESSELS & EQUIPMENT:

This survey was conducted from the Launch FARIS basing at Bath. Maine. Launch No. 102 and a catamaran operated from the FARIS which was anchored in Merrymeeting Bay.

#### TIDE & CURRENT STATIONS:

A portable automatic tide gage was maintained at Sturgeon Island in Merrymeeting Bay near Chops Point.

Name of Station	Latitude	Longitude
Sturgeon Island	43° 58.831	69° 50.11'

#### CONTROL STATIONS, SHORELINE & TOPOGRAPHY:

The control for the Kennebec River and northeastern portion of Merrymeeting Bay is mostly from the triangulation executed by the U.S. Engineers in 1940 supplemented by hydrographic signals picked from air photographic surveys and signals located by sextant fixes or cuts.

The shoreline for the area is thickly wooded and very similar in appearance throughout. The majority of the islands are wooded and covered with brush and grass with rather indefinite points and edges. Consequently, considerable difficulty was encountered in identifying many signals picked on the air photo map drawings. especially those described simply as point of marsh, bush, tree, point of island, end of dock and group of cedars. Winter storms and ice change the marsh and brush lines considerably. A particular brush or tree is often very difficult to spot in an area covered with brush and trees. The majority of docks are temporarily erected for the summer or hunting seasons and were not in place at the time of this survey. Many buildings back from the waters edge are not visible from any point accessible by boat or sufficiently visible for hydrographic purposes. Many objects suitable for signals either did not show well in the photograph or were not picked for use.

It was found necessary to locate a considerable number of signals by sextant for hydrographic control. Wherever possible these signals were located by strong sextant fixes at the signal or by cuts from previously located signals using triangulation stations when possible or signals from the air photo map drawings that could be picked with assurance.

Since the air photo map drawings/for this area are controlled by plane coordinates and conversion of the plane coordinates to geographic positions do not agree with the geographic positions of the triangulation as computed (see letter May 3, 1944 - reference 22/MEK, 1995 FA 4), it was necessary to superimpose a transverse mercator grid on the polyconic projection in order to use the coordinate system. (Ref. letter filed with Desc. Report for H-6961)

The low water line was determined throughout this survey as far as possible. On steep slopes, especially in the Kennebec River, the low water line could not be located. And, in some instances, it could not be determined without endangering the fish and launch due to rocks or reefs, and in other instances, heavy grass and kelp prevented sounding without undue loss of time.

#### SOUNDINGS:

Depths were measured with the 808 Fathometer No. 71 S throughout this survey. A few lines of pole soundings were run. A pole sounding was obtained on each fix in very shoal area and in areas of kelp and grass as a verification of the fathometer sounding.

The fish was set at eighteen inches on the catamaran and at  $2\frac{1}{2}$  ft.  $\sim$  on Launch 102.

#### CONTROL OF HYDROGRAPHY:

Sounding lines were controlled throughout by sextant fixes taken - from a point close by the fish or by reference to signals when very near them.

#### ADEQUACY OF SURVEY:

This survey is considered complete and adequate to supersede prior surveys for charting purposes. Junctions with previous surveys are good. No holidays are left other than those noted on the boat sheets as covered with heavy grass that could not be sounded by boat.

#### CROSSLINES:

Approximately ten percent of the lines are cross lines. Considering the irregularity of the bottom, the crossings appear to be good, except

Latitude 43° 57.04' and Longitude 69° 49. $\frac{2}{09}$ ', positions 3 & 4, 5 & 6 f (red).

The soundings on 5 & 6 f appear to be about 10 feet too deep. However, the surrounding hydrography seems to indicate the possibility of a deep.

Shoaler line 3-4f plotted. Slope,45 to 55ft depths

#### COMPARISON WITH PRIOR SURVEYS:

A least depth of 2 feet was found on Grace Rock in Latitude 43° \$8.25', and Longitude 69° 49.73'. This is a very small rock with steep sides and soundings on the rock are obtained with difficulty. It is believed that this is the least depth. At the northeast end of Brick Island in Merrymeeting Bay a fix was obtained on only one of three\*rocks and the other two were spotted in by estimation. (See the boat sheet for plotting.) \*(A fourth rock bare at MLW,85m.NE, represents a minus ift sounding on the fathogram, in 3ft depths.) BANGERS & SHOALS:

 $r_{mportant}$  All charted dangers, shoals and rocks were found as charted or shoaler depths were found.

#### COAST PILOT INFORMATION:

The Kennebec River and northern Merrymeeting Bay is well buoyed and is easily navigated at slack waters. Very strong currents, especially during ebb tide prevail in the Kennebec River.

It is believed that buoying would be necessary to follow the channel across Merrymeeting Bay to the Cathance River or to the Androscoggin River.

The Launch FARIS anchored in Merrymeeting Bay in Latitude 43° 59.2' and Longitude 69° 50.31' in 21 feet of water. The bottom is sand and gravel and is a good anchorage in moderate weather.

#### AIDS TO NAVIGATION:

Buoy !	No.	Latitude	Longitude	depth	Vol.	Pos.No.	Date	Sheet No.
N 8		43°57.13'	69°49.30'	17	1	_	May 24	H-6959
C 19		43°57.15'		22	1	_	May 24	H-6959
N 10		43°58.241	69°49.771	31	1	-		<b>н</b> -6959
C 21		43°58.491	69°49.751	14	1	-	May 23	► H-6959
C 23		43°59.09'	69°49.921	28	9	60 d	June 26	6 H-6959
N 12		43°59.371	69°49.74'	27	9	56 d	June 20	6 <b>~</b> H <b>-</b> 6959

#### BAR CHECKS:

All velocity corrections were obtained from daily bar checks.  $\checkmark$ 

#### STATISTICS:

#### Launch 102

Vol. No.	Day letter	Date	No. Pos.	No. Sdg.	No.Stat.Miles
1 & 2 2 & 3 4 3 4 & 5 7 & 6 8	a b c d e f g h	May 25 May 26 May 30 June 2 June 5 June 7 June 8 June 9	169 130 8 97 164 116 192 39		19.9 13.0 0.0 9.0 13.0 8.9 16.2 2.1
	•	Total	915		82.1
Catamaran		Square S	tatute Mil	les = 2.5	
6 6 & 9 10 10 & 11 11 & 12 12 12 & 13 13 & 14 14	a c d e f g h j k l	June 2 June 23 June 26 June 27 June 28 June 29 June 30 July 3 Aug. 14 Aug. 15	47 28 168 137 156 144 91 117 154 14	360 125	4.9 1.5 18.6 13.2 15.6 14.7 12.2 7.7 14.3
	•	Total	1077	485	104.0

Square Statute Miles = 2.5

#### DISCREPANCIES:

Latitude 43° 58.34' and Longitude 69° 49.40', Position 24 g(red); Rock awash.

A note in the sounding record states, - "Rock projections 4 ft. out of water, extending in northerly direction". It is not considered that this note sufficiently defines the position of this rock awash. This rock awash is not shown on the boat sheet. However, this note may refer to the rock awash shown about 30

\_ concur

meters north of position 24 g. - concur

Respectfully submitted,

Norfolk, Va. June 6, 1945

Approved and forwarded

Paul C. Whitney Supervisor, S.E. District

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SHEET H-6959
TRIANGULATION STATIONS
                                  Hydro Stations
ALDERS, U.S.E. 1940
                                  Abe
ANDROS, U.S.E. 1940
                                 Boat
BEEEBE, U.S.E. 1940
                                 Cat
BLIND, U.S.E. 1940
                                 Dim
 BUSHWOOD, U.S.E. 1940
                                 Dog
CENTER, U.S.E. 1940
                                 Far
 CHOPS, U.S.E. 1940
                                 Fix
                                 High
 COTTAGE, U.S.E. 1940
 CRAWFORD, U.S.E. 1940
                                  Imp
                                  Isle
 CROOK, U.S.E. 1940
 FINNIS, U.S.E. 1940
                                  Jet
 JUNCTION, U.S.E. 1940
                                  Kay
 JUNIPER, U.S.E. 1940
                                  Kip
  KEG (WISKEAG, U.S.E. 1940)
                                  Kit
 KENNEY, U.S.E. 1940
                                  Lap
 KIT (WEST LINES, U.S.E. 1940)
                                  Low
                                  Mal
 LILAG, U.S.E. 1940
                                  Mel
 MAIN, U.S.E. 1940
                                  Mis
 MERRYMEETING, U.S.E. 1940
 NORTH LINES, U.S.E. 1940
RACE, U.S.E. 1940
                                  Mop
                                  Nut
 RAM ÍSLAND, U.S.E. 1940
                                  Оро
                                  Old
 SMELT, U.S.E. 1940
 SOL(SOUTH LINES, U.S.E.1940)
                                 On.
                                  Pep
 TELEGRAPH, U.S.E. 1940
                                  Pip
 TENSION, U.S.E. 1940
                                  Quo
 THORNE, U.S.E.1940
 WHEEL, U.S.E. 1940
                                  See
                                  Sip
 Topo Stations
                                  Wil
                                  Yel
 Ace #
          Pole #
                                  Zip
  Ant #
           Red #
  Barn #
           Rod #
  Bat #
           Shed #
  Bet #
           Small #
  Bit #
           Tow #
  Boy #
           Tree #
  Cop #
  Dot 2 #
           Uno #
  East #
            Val *
  End #
           Vic #
           West #
  Eno #
           Yet #
  Fun #
  Gab #
               T-5975 (1443)
  Gay #
               T=5966 75975 (1943)
  Has #
  Hot#
  Ida#
   Jack #
   Jim #
   Last #
   Nan #
   Nor #
```

# Hydrographic Signals Sheet H-6959

```
Signals
                 Origin
 Abe
                Vol. No. 1, page 7
 Асе
                T-5975
 Al
               Alders, U.S.E., 1940
 And
               Andros, U.S.E., 1940
 Ant
                T-5975
 Bat
               T-5975
 Bee
               Beebe, U.S.E., 1940
 Bet
               T-5975
 Bit
               T-5975
 Blind
               Blind, U.S.E., 1940
 Boat
               Vol. No. 1, page 4 & 8
 Bush
               Bushwood, U.S.E., 1940
 Cat
               Vol. No. 1, page 8
 Cent
               Center, U.S.E., 1940
 Chops
               Chops, U.S.E., 1940
 Cot
               Cottage, U.S.E., 1940
 Craw
               Crawford, U.S.E., 1940
 Crook
               Crook, U.S.E., 1940
Dim
               Vol. No. 4, page 5
Dog
               Vol. No. 1, page 3
Dot
               T-5975
East
               T-5975
End
               T-5975
Eno
               T-5975
Far
               Vol. No. 1, page 7
Fin
               Finis, U.S.E., 1940
Fix
               Vol. No. 1, page 7
Fun
               T-5975
Gab
               T-5975
Gay
               T-5975
Has
               T-5975
High
               Vol. No. 1, page 4
Hot
               T-5975
Ida
               T-5975
Imp
               Vol. No. 4, page 6
Isle
               Vol. No. 1, page 4
Jack
               T-5975
Jet
               Vol. No. 8, page 30-31
Jim
               T-5975
Jun
               Juniper, U.S.E., 1940
Kay
               Vol. No. 4, page 8
Keg
               Whiskeag, U.S.E., 1940
Ken
               Kenney, U.S.E., 1940
Kit
              West Lines, U.S.E., 1940
Kip
              Vol. No. 6, page 2
              Vol. No. 8, page 30
Lap
              Vol. No. 6, page 2
              Vol. No. 8, page 30
Last
              T-5975
Lil
              Lilac, U.S.E., 1940
Line
              No. Lines, U.S.E., 1940
Low.
              Vol. No. 4, page 6
Main
              Main, U.S.E., 1940
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#### Sheet H-6959

```
Origin
Signals
                  Vol. No. 4, page 6
Mel
Mer
                  Merrymeeting, U.S.E., 1940
                  Vol. No. 4, page 8
Miss
                  Vol. No. 6, page 2
Mol
                  Vol. No. 8, page 31
Mop
                  Vol. No. 1, page 3 & 4 (H-6960
                  T-5975
Nan
                  T-5975
Nor
                  Vol. No. 4, page 6
Nut
Oba.
                  Vol. No. 8, page 30
                  Vol. No. 1, page 5
Old
on
                  Vol. No. 1, page 10
                  T-5975
Pal
                  Vol. No. 6, page 2
Pep
                  Vol. No. 8, page 31
                  Vol. No. 1, page 7
Pie
                  T-5975
Pole
                  Vol. No. 6, page 2
Quo
                  Race, U.S.E., 1940
Race
                  Ram, U.S.E., 1940
Ram
                  T-5975
Red
Rod
                 T-5975
                  Vol. No. 1, page 4
See
Shed
                  T-5975
                  Vol. No. 6, page 62
Sip
                  T-5975
Small
                  Smelt, U.S.E., 1940
Smelt
Sol
                  So. Lines, U.S.E., 1940
Ten
                  Tension, U.S.E., 1940
Tel
                  Telegraph, U.S.E., 1940
Thor
                  Thorn, U.S.E., 1940
                  T-5975
Tree
                  T-5975
Tow
Úse
                  Junction, U.S.E., 1940
                  T-5975
Uno
                  T-5966
Val
                  Vol. No. 1, page 6
Vic
West
                  T-5975
Wheel
                  Wheel, U.S.E., 1940
                  Vol. No. 1, page 4
Wil
Yet
                   T-5975
                  Vol. No. 1, page 10
Yel
                  Vol. No. 1, page 4 Sheet H-6960
Zip
```

DEPARTMENT OF COMMERCE

OFFICE OF THE DIRECTOR

U. S. COAST AND GEODETIC SURVEY

Refer to No. 22/MEK 1995 FA 4 washington 25 May 3, 1944.

To: Officer in Charge,
U. S. Coast and Geodetic Survey
Launch FARIS,
General Delivery,
Bath, Maine.

From:

The Director,

U. S. Coast and Geodetic Survey.

Subject: Triangulation data -- Dennebec River and Merrymeeting Bay.

With reference to your letter of April 21, 1944, requesting computations of 6 triangulation stations in the Kennebec River, 9 sheets of plane coordinates on the state grid are enclosed. While investigating the possibility of computing positions for the stations which you requested, it was discovered that your air photo map drawings are based on the plane coordinates being forwarded with this letter. Since your map drawings are controlled by plane coordinates, it is believed that your hydrographic work can be most successfully accomplished by their use instead of by the use of geographic positions. The geographic positions computed by Lieutenant Commander C. D. Meaney do not agree with the positions obtained by conversion of plane coordinates to geographic positions. Neither do the adjusted positions at stations SPRAGUE and HUNTER agree with Lieutenant Commander Meaney's computations, or with the positions obtained from the conversion of plane coordinates. All of this confusion will be avoided by using the coordinates upon which the map drawings are based.

The copies of coordinates being forwarded are preliminary copies of poor quality, to be followed by better copies now being made.

Copies of the air photo map drawings are being enlarged to a scale of 1:5,000 and these will be sent to you soon.

Enclosures.

Acting Director.



# Surveys Section (Chart Division)

# HYDROGRAPHIC SURVEY NO. H6959

Records accompanying survey:						
Boat sheets2.; sounding vols; wire drag vols;						
bomb vols; graphic recorder rolls	s .15;					
special reports, etc	• • • • • • • • • • • • • • • • • • • •					
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •					
The following statistics will be submitted rapher's report on the sheet:	with the cartog-					
Number of positions on sheet	1992					
Number of positions checked	<i>સે.</i> !ર્ડ.					
Number of positions revised	7					
Number of soundings recorded	22,000 (Estimat)					
Number of soundings revised (refers to depth only)	.!?					
Number of soundings erroneously spaced	. 4.0.					
Number of signals erroneously plotted or transferred	. <del></del>					
Topographic details Time	24					
Junctions Time	12					
Verification of soundings from graphic record Time	32					
Verification by. A.R. STIRMTotal time G.F.J.  Review by	234 Date 9/10/45					
Review byG.F. JORDAN Time	.47. Date 1/29/45					

•	GEOGRAPHIC NAMES Survey No. II6959	6	No. Or	de jour or	D. Water	S. S	S. Los Moss	O. Guide di	noo hoo hoo	J.S. Jake J.	\$ /
	Name on Survey	A.	В	/c	<u></u>	E	F	G	/н	<u>/ k</u>	_
•	KENNEBEC RIVER								U.S.	6.12	1
	MERRY MEETING BAY			(AI	MAI	nes o	n		11		2
•	ABAGADASSET RIVER				439	698)					3
	WHISKEAG CREEK					· ·			 		4
	TELEGRAPH PT.										5
•	CHOPS PT.										6
	LINES ISLAND										7
	RAM ISLAND										8
	CRAWFORD ISLAND										9
	WOOD ISLAND						·				10
	THORNE ISLAND										11
	STURGEON ISLAND	/		(+69	e sta	EF 1	cati	on)			12
	BRICK ISLAND										13
	CENTERS PT								U	S.6.B	14
	GRACE RK.										15
•	Maine	Gor	title)						v.	s.4.B	16
	East Branch										17
	West Branch										18
	Butler core										19
	Statson Rocks										20
•	Chops Creek										21
											22
		7		,				-			23
				1 1	l	arlined	1	l. i.			24
				1	L'H	ecx(	* [2]	145			25
	·										26
											27
											M 234

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

June 18, 1945.

Division of Hydrography and Topography:

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in 14 volumes of sounding records for

HYDROGRAPHIC SHEET 6959

Locality Kennebec River and Merrymeeting Bay, Bath, Maine

Chief of Party: W. R. Porter in 1944
Plane of reference is mean low water reading
3.7 ft. on tide staff at Sturgeon Island
16.1 ft. below B. M. 1

Height of mean high water above plane of reference is 5.3 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

I Breen

ооуванивант галитиче отугов 15482

#### DIVISION OF CHARTS

#### REVIEW SECTION - NAUTICAL CHART BRANCH

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6959

FIELD NO. -----

Maine, Kennebec River, Merrymeeting Bay Surveyed in May to August, 1944 Scale 1:5,000 Project No. 265

Soundings:

Control:

808 Fathometer Pole

Three-point fix on shore signals

Chief of Party - W. R. Porter Surveyed by - W. R. Porter Protracted by - J. D. Curd Soundings plotted by - J. D. Curd Verified and inked by - A. R. Stirni Reviewed by - G. F. Jordan, Nov. 29, 1945 Inspected by - H. W. Murray

#### 1. Shoreline and Control

(a) The source of the shoreline and control is adequately covered in the descriptive report.

Survey T-5976, north of lat. 44°, is not available for shoreline detail comparison. Only map manuscript T-5975 has been reviewed.

(b) Numerous inshore rocks charted from T-967 (1860) and T-1061 (1859-1865) have been retained, having been neither verified nor disproved on the present hydrographic and topographic surveys. They are shown on the sheet in red as rocks awash.

#### 2. Crosslines

The crosslines are very good in the shallow and smooth areas of Merry-meeting Bay. The agreement is satisfactory in other areas, considering the rough bottom and steep slopes.

#### 3. Depth Curves and Submarine Relief

(a) All important depth curves have been satisfactorily drawn. Split lines and development would have been desirable in some areas so that

the curves could have been drawn with more confidence, as at lat. 43° 57.7', long. 69° 50.3' and at lat. 43° 59.15', long. 69° 51'.

(b) Merrymeeting Bay is at the confluence of the Kennebec, Androscoggin, Cathance and Muddy Rivers. The shoals, deeps, and blocked channels in the sand bottom apparently shift about, acording to comparison with the 1861 survey.

The bottom of the Kennebec River below the confluence is deep and irregular with rocky shoals.

# 4. Junctions with Contemporary Surveys

A satisfactory junction is made on the south with H-6800 (1942-1943). Investigation of rocks and development in the vicinity of lat. 43° 56.5', long. 69° 48.5' which was recommended in the review of H-6800 was accomplished on the present survey. Comparison with adjoining surveys on the north and west will be considered in the review of those now unverified surveys.

#### 5. Comparison with Prior Surveys

The following surveys are superseded in the area of the present survey, with the exception of certain soundings, rocks and bottom characteristics which has been carried forward.

#### H-790 (1861) 1:10,000 scale

The agreement with this prior survey is satisfactory in the main channel of the Kennebec River. Disagreements in Merrymeeting Bay, such as prior 1 ft. depths (charted) in the present 20 ft. deep at lat. 43° 58.95', long. 69° 50.4', prior 11 ft. depths in the present area bare at MLW at lat. 43° 59.2', long. 69° 50.85', and the prior 6 ft. curve on the present low water curve at lat. 43° 59.7', long. 69° 50.1' indicate changeable bottom in this area of confluence.

- (a) A <u>l-ft</u>. prior uncharted sounding at lat. 43° 57.74', long. 69° 50.22', has been carried forward in 9 ft. depths at the end of a present shoal spit with least depth of 6 ft. This prior sounding on line was between 10 ft. and 5 ft. soundings, and may be a submerged ledge.
- (b) Other prior soundings have also been carried forward on the large shoal area southwest of the above 1 ft. sounding.

The apparent crest of the prior shoal falls between present lines spaced 60 meters apart. This area may have deepened, but the present survey does not disprove the prior shoaler depths.

### H-693 (1858) 1:10,000 scale

This prior survey is in fair agreement with the present survey in the deeper areas of the Kennebec River. However, the sounding lines were run across channel on the prior survey and controlled by reference to land features. This placed many of the inshore shoal soundings in present deeper channel areas.

- (d) The 13 ft. prior so unding (Chart 314) at lat. 43° 57.2', long. 69° 49.7', the 4 ft. sounding between Ram and Crawford Islands and the 18 ft curve around the islands are too far offshore when compared with the present survey and should be disregarded.
- (e) The 28 ft. prior sounding (Chart 314) at lat. 43° 57.2', long. 69° 49.2' should be disregarded. This sounding, with four other shoal soundings on line, disagree with the 60 ft. depths obtained by a special development in 1893 and on the present survey.

#### 6. Comparison with Wire Drag Surveys

There are at present no wire drag surveys which cover the area of the present survey.

# 7. Comparison with Chart 314 (Latest print of July 14, 1944)

The hydrography charted within the area of the present survey is entirely from the prior surveys considered in the foregoing paragraphs, with the exception of the rock noted in the next paragraph.

- (a) The <u>rock awash</u> falling in 50 ft. depths at lat. 43° 56.54°, long. 69° 48.54° should be disregarded. The position of the rock which was obtained on H-6800 was questioned in the review of that survey and was disproved by the present survey.
- (b) The <u>rock awash</u> symbol on Grace Rock charted at lat. 43° 58.25°, long. 69° 49.7° should be disregarded. Both the present survey and H-790 (1861) show 2 ft. least depth in this vicinity. The rock awash has been charted for 25 years, superseding a bare rock previously charted.
- (c) The <u>bare rock</u> charted since 1866 at lat. 43° 57.38', long. 69° 50.12' should be disregarded. No authority for the rock appears on the prior topographic survey. H-790 (1861) shows an 8 ft. shoal here.

#### Dredged Channels

No dredged channels are charted within the limits of the present survey.

#### Aids to Navigation

The present survey agrees with the charted aids to navigation, with the exception noted below.

(d) The present survey locates black can buoy No. 21 in 13 ft. depths at lat. 43° 58.5°, long. 69° 49.75°, 160 meters WSW from the charted position. The chart places the buoy in 51 ft. depths, whereas the Light List reports 22 ft. depths. The proper place for this buoy would appear to be in about 28 ft. depths 100 meters southeast of the

survey position.

#### 8. Condition of the Survey

- (a) The sounding records and smooth plotting are satisfactory.
- (b) The descriptive report is complete in all detail.
- (c) The present survey is adequate. The development of the channel areas is very good.

Paragraphs 1(b), 3(a), 5(a) and (b) mention areas where more development would have been desirable. Also development of the 23 ft. and 25 ft. shoals in the vicinity of lat. 43° 58.45', long. 69° 49.6' and closer spacing of lines at lat. 43° 56.97', long. 69° 49.9' would have been desirable.

#### 9. Additional Work

The present survey together with the retention of certain prior rocks, critical soundings and bottom characteristics, is considered a basic survey. No additional work is recommended.

Chief. Nautical Chart Branch

Chief, Section of Hydrography

Chief, Chart Division

Chief, Division of Coastal Surveys

Examined and approved:

# NAUTICAL CHARTS BRANCH

**SURVEY NO.** <u>6959</u>

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3-25-46	314	3.m.a.	Before After Verification and Review application.  Reconstruction of 314 in process.
2/5/46	314 (Reconst)	StE	Before After Verification and Review
5/3/48	1204	HSMac Ewen	Before After Verification and Review Partially appl.
11/16/53	288	SHE	Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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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.

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