

8504

Diag. Cht. No. 1202-2.

<p>Form 504</p> <p>U. S. COAST AND GEODETIC SURVEY</p> <p>DEPARTMENT OF COMMERCE</p> <p>DESCRIPTIVE REPORT</p>	
Type of Survey	Hydrographic
Field No.	WA-HI-2156
Office No.	H-8504
<p>LOCALITY</p>	
State	Maine
General locality	Gulf of Maine
Locality	Southeast of Schoodic Peninsula
<p><u>194 56-58</u></p> <p>CHIEF OF PARTY</p> <p>J. C. Ellerbe & N. E. Taylor</p>	
<p>LIBRARY & ARCHIVES</p>	
DATE	Feb. 26, 1960

8504

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-8504

Field No. WAI-2156

State Maine

General locality GULF Coast of Maine

Locality SOUTHEAST OF Schoodic Peninsula

Scale 1:20,000 Date of survey 9/5/56 to 10/14/58

Instructions dated 8/5/55; 12/5/55; 10/9/56; 10/22/57

Vessel USC&GS Ships WAINWRIGHT & HILGARD

Chief of party John C. Ellerbe - Norman E. Taylor

Surveyed by John C. Ellerbe, Donald E. Jones
Norman E. Taylor, Jack E. Guth, Charles E. Fuller
Philip L. Rotondo

Soundings taken by fathometer, ~~graphically reduced~~

Fathograms scaled by Personnel of Ships WAINWRIGHT & HILGARD

Fathograms checked by ditto

Protracted by Jack E. Guth - Norman E. Taylor

Soundings penciled by Philip L. Rotondo - J. T. Maldari

Soundings in ~~Orthometric~~ feet at MLW ~~Orthometric~~ and are true depths.

REMARKS:

DESCRIPTIVE REPORT

TO ACCOMPANY HYDROGRAPHIC SURVEY H-

(FIELD NO. 2156)

PROJECT 12650

COAST OF MAINE

SCALE: 1:20,000

John C. Ellerbe
Norman E. Taylor

Chief of Party (1956)
Chief of Party (1957-58)

A. Project

Revised Instructions dated 5 August 1955, Supplemental Instructions dated 5 December 1955, 9 October 1956 and 22 October 1957. ✓

B. Survey Limits and Dates

This sheet covers an area from Latitude 44-19.5, Longitude 67-48.0 to Latitude 44-27.0, Longitude 67-57.0 to Latitude 44-16.0, Longitude 68-14.0 to Latitude 44-08.5, Longitude 68-05.0. Field work began on 5 September 1956 and was completed on 14 October 1958. *Outline of Sheet area. See Part 4 Review*

C. Vessels and Equipment

The Ship HILGARD was used on red A, B and C days (9/5/56, 8/29/57 and 8/30/57), and the Ship WAINWRIGHT was used on blue A thru H days (9/6/57 through 9/30/57). The 808 fathometer 139SP was used on the HILGARD for A, B and C days while the WAINWRIGHT used 808 fathometer 58SP for A thru H days and fathometer 57-33 for J thru U days. ✓

D. Tide and Current Stations

In addition to the standard automatic tide gage in operation at Bar Harbor, a portable automatic tide gage was installed at Prospect Harbor, Maine. Hourly heights for the reduction of soundings were furnished by the Washington Office for the 1957 season. For the 1958 season, the portable automatic tide gage was again installed at Prospect Harbor. All tide reducers for soundings on sheet 2156 were obtained from this gage. ✓

E. Smooth Sheet

Plotted and penciled by field party.
~~To be prepared by the Norfolk Processing Office.~~

F. Control Stations

All control was located by conventional methods. The signals used are tabulated individually on Attachment No. 2. ✓

G. Shoreline and Topography

Projection was made in the Washington Office and shoreline and signals applied by the Air Photo party. ✓

H. Soundings

All soundings were obtained by conventional methods with 808 fathometers on A scale and in fathoms.

J. Control of Hydrography

All control was by three point fix method on shore signals.

K. Fathometer Corrections

Fathometer corrections were determined by bar checks taken daily or as frequently as possible. Curves were drawn from these bar checks and the corrections then scaled. The corrections are listed in Attachment Number 3.

L. Adequacy of Survey

This survey is considered adequate and no additional field work is necessary. Bottom samples on the chart are considered adequate. Consequently, no additional samples were taken.

Adequate crosslines with good agreement were obtained.

M. Comparison With Prior Surveys and Charts

Agreement in general was good with shoaler soundings obtained on known shoals. Prior surveys were ~~taken from~~ H-2697, 1904, 1:40,000 and H-1398, 1878, 1:40,000. See Attachment No. 5.

N. Dangers and Shoals

No additional dangers or shoals were found.

O. Aids to Navigation

See Attachment Number 4.

P. Silted Area

Silting was noted in an area approximately three (3) square miles centered at Latitude 44-19, Longitude 67-56. This silting occurred between pinnacles distinguishable to a depth of four (4) fathoms in a depth of thirty seven (37) fathoms.

Silting was also noted in an area one mile square centered at Latitude 44-16, Longitude 68-00.

This silting was noted using fathometer 57-33. Silting was not found in the previous years using fathometer 58SP on adjacent lines. Fathometer 58SP was unable to give a clear profile of ocean bottom and silt was not noted, on B-day HILGARD.

Silting in low places offshore throughout area.

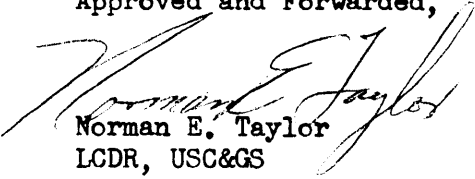
Q. List of Attachments

1. Statistics
2. List of Signals
3. Fathometer Corrections
4. Aids to Navigation
5. Special Investigations

Submitted,

John R. Plaggmier
LCDR, USC&GS

Approved and Forwarded,



Norman E. Taylor
LCDR, USC&GS
Chief of Party

Attachment Number 1

STATISTICS

<u>Vol. No.</u>	<u>Day Letter</u>	<u>Date</u>	<u>Number of Pos.</u>	<u>Nautical Miles</u>
1	A	9/5/56 (1957)	63	15.3
2	B	8/29	95	41.4
2	C	8/30	78	32.3
1	A	9/6	90	30.1
1-2	B	9/9	119	46.7
2-3	C	9/10	130	56.4
3-4	D	9/18	103	42.1
4	E	9/19	130	68.0
5	F	9/24	55	21.1
5	G	9/25	90	40.9
6	H	9/30 (1958)	123	50.2
7	J	9/3	141	59.4
8	K	9/8	143	57.8
9	L	9/9	152	50.0
10	M	9/12	97	43.4
10-11	N	9/23	196	55.2
11-12	P	9/24	96	30.9
12	Q	10/3	27	12.7
12-13	R	10/6	192	50.0
13	S	10/8	85	29.9
14	T	10/13	35	9.7
14-15	U	10/14	201	49.9

2440

Attachment Number 2

List of Signals

<u>Name</u>		<u>Source</u>
BAK	Baker Is. Lt. Ho. 1861, r. 1944	Triangulation
COR	Corea Church Spire, 1902	Triangulation
HAR	Prospect Harbor Lt. Ho., 1902	Triangulation
PET	Petit Manan Lt. Ho., 1860	Triangulation
✓ CONE	1945	Topographic T-8647
✓ CRIS	1945	Topographic T-8587
✓ HOOD	1944	Topographic T-8587
✓ RED	SOUTH TOWER, 1944	Topographic T-8587
TOW	1944	Topographic T-11351
ANT		Photo-Hydro T-8647
BAT		Photo-Hydro T-8588
BIG		Photo-Hydro T-8647
✓ BUS BUS		Photo-Hydro T-8587
✓ HOOD		Photo-Hydro T-8587
✓ JIM		Photo-Hydro T-8647
✓ POD		Photo-Hydro T-8587
✓ NIB		Photo-Hydro T-8588
✓ RAN		Photo-Hydro T-8587
✓ REX		Photo-Hydro T-8647
✓ TAN		Photo-Hydro T-8587
COB		Photo-Hydro T-8587

field prints

Attachment Number 3

FATHOMETER CORRECTIONS

HILGARD - Fathometer 139SP, Initial set at 2.0 feet.
WAINWRIGHT - Fathometer 58SP, Initial set at 2.0 feet.

Date - 9/5/56, Depth - A Scale (fathoms), Correction - all 0.00 ft.

During the 1957 field season, bar checks were made to a depth of 60 feet, and temperature and salinity observations were made at greater depths to a depth of 245 feet. The velocity correction curve was drawn by using the average bar check curve (since all bar checks agreed fairly well), up to 60 feet and at this depth, smoothing the curve slightly so it would make the transition to the curve drawn from the results of the temperature and salinity observations. The following corrections were then scaled from this curve.

<u>WAINWRIGHT - A thru H days</u>		<u>HILGARD - B and C days</u>	
<u>Depth</u>	<u>Correction</u>	<u>Depth</u>	<u>Correction</u>
0 to 8.8 fms.	0.0 fms.	0 to 6.7 fms.	0.0 ft.
8.9 to 28.2 fms.	-0.2 fms.	6.8 to 9.0 fms.	-0.2 ft.
28.3 to 48.2 fms.	-0.4 fms.	9.1 to 10.7 fms.	-0.4 ft.
		10.8 to 13.3 fms.	-0.6 ft.
		13.4 to 21.8 fms.	-1.0 ft.
		21.9 to 30.3 fms.	-1.5 ft.
		30.4 to 38.7 fms.	-2.0 ft.
		38.8 on	-2.5

Since all sounding for this sheet was done in fathoms, on A scale only, there is no phase correction. The correction due to settlement and squat was found to be of negligible magnitude for sounding in fathoms. The initial corrections were scaled from the fathograms and entered directly into the sounding volumes.

In the 1958 season, the fathometer corrections were computed as follows; to a depth of 10 fathoms, the bar check corrections were used exclusively. At depths greater than 10 fathoms, the temperature and salinity and fathometer error determined from bar checks to 10 fathoms were incorporated. The corrections were found as follows:

<u>Depth (Fathoms)</u>	<u>Correction (Fathoms)</u>
0 to 3.8	+0.4
3.9 to 10	+0.2
10 to 18	0.0
19 to 24.8	-0.2
24.8 to 31.7	-0.4
31.7 to 42.0	-0.6
42 and below	-1.0

Attachment Number 4

AIDS TO NAVIGATION

Black & White Whistle Buoy A - Vol. 7, Page 21, WAINWRIGHT
LIGHTED

*WHISTLE BUOY "85" south of Schoodic Island not located on
this survey.*

Attachment Number 5

See
Pre-Survey Review
CS-265

SPECIAL INVESTIGATIONS

<u>Latitude</u>	<u>Longitude</u>	<u>Previous Depth</u>	<u>Present Depth</u>	<u>Remarks</u>
44-14.45	68-01.9 ₈₈	90	95 87	Discovered 125 M. to the at east of previously reported position. ✓
44-14.2 ⁵⁵	67-57.2 ¹⁰	102	107 108	90 M. ENE. ✓
44-16.0 _{15.85}	67-57.0	120	196 185	No indication of a 120 ft. sounding at this position. ✓
44-15.8 ⁷	67-55.65	96	167 ⁶	96 foot sounding was incorrect. ✓
44-16.7 ⁵⁷	67-55.4 ⁶	72 & 102	65 ⁶⁰	60 ⁶⁵ foot sounding was the shoalest found in the area. ✓
44-17.6 ⁵⁸	67-58.1	102	93 ⁵	100 M. SSW. ✓
44-17.82	68-01.7 ₆₅	72 & 84	69 8	69 ⁸ foot sounding was the shoalest in the area. ✓
44-18.6 ⁵⁵	67-54.0 ¹²	108	102 ₁₀₃	100 M. W. ✓
44-19.1	67-57.0	117	65 66	450 M. NE. 400 M. NE. ✓
44-19.78	67-54.0 _{53.98}	60	50 54	250 M. SNE. ✓

SHEET 2156

SMOOTH PLOTTING NOTES

SMOOTH SHEET

The Smooth Sheet was projected by ruling machine, in the Washington office. Shoreline & signals were transferred by the usual methods.

PLOTTING THE SMOOTH SHEET

Plotting of this sheet was begun in Southwest Harbor, Maine and finished at Ships Base, Norfolk, Virginia by Ensigns K. R. Anderson, P. T. Redden, and John T. Maldari. Soundings were penciled by Ens. Maldari.

It may be mentioned that the plotted positions 15-65 "B" day HILGARD are weak, this is because the distance from the signals used was excessive. In plotting these positions a three arm protractor with two extensions plus added straightedges were used. It can be seen that some inaccuracies can be encountered in this method but it was the only feasible method that could be employed.

CROSS LINES

The cross lines on this sheet check out very well. In checking these crosslines consideration must be given the fact that the original soundings were read in fathoms and fathograms were read to the nearest 1/2 fathom. These soundings were then converted to feet by the processing personnel. These soundings in feet were then plotted on the smooth sheet.

A discrepancy concerning Black and White Whistle Buoy "A" (See Aids to Navigation, Attachment No. 4) was noted. According to C&GS Chart 1202 corrected through 28 February 1959, this buoy no longer exists. Its position (as given by Vol. 7, page 21 - WAINWRIGHT) was not plotted on the Smooth Sheet.

Buoy
Shown on
Chart 1202.
Position
plotted by
Verifier.

John T. Maldari
John T. Maldari
Ensign, C&GS

Approved & Forwarded:

Dewey G. Rushford
Dewey G. Rushford, LCDR, C&GS
Commanding WAINWRIGHT & HILGARD

GEOGRAPHIC NAMES

Survey No. H-8504

Name on Survey	Sources										BGN	
	A	B	C	D	E	F	G	H	K			
✓ SCHODDIE ^C ISLAND	✓											1
✓ SCHODDIE ^C PENINSULA (TIDE)										✓		2
✓ SCHODDIE ^C POINT	✓									✓		3
✓ BAKER ISLAND	✓											4
✓ PETIT MANAN I.	✓											5
✓ SALLY ISLANDS	✓											6
												7
												8
												9
												10
												11
STONE HORSE LEDGE												12
												13
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George M. Bure
Geographic Names Section
12/April 1960

CH 305 (128/63)

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

11 July 1960

Division of Charts: R. H. Carstens:

Plane of reference approved in
17 volumes of sounding records for

HYDROGRAPHIC SHEET 8504

Locality Schoodic Peninsula, Maine

J.C. Ellerbe)
Chief of Party: N.E. Taylor) 1956-58
Plane of reference is mean low water reading
3.0 ft. on tide staff at Prospect Harbor
13.4 ft. below B. M. 1 (1929)

Height of mean high water above plane of reference is 10.5 feet.

Condition of records satisfactory except as noted below:

William Hobbs

Chief, Tides Branch

~~Chief, Division of Tides and Currents~~

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8504...

Records accompanying survey: Smooth sheets ..1...;

boat sheets .1...; sounding vols. ...17; wire drag vols.;

Descriptive Reports ..1...; graphic recorder envelopes ..9...;

special reports, etc.

.....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet		2440
Number of positions checked		..17.
Number of positions revised		0
Number of soundings revised (refers to depth only)	Maximum change was one foot	About 50, but merely to straighten curves or to agree with crosslines
Number of soundings erroneously spaced	0
Number of signals erroneously plotted or transferred	0
Topographic details	Time	..1 hr.
Junctions { extremely involved - especially with H-866? and H-803? }	Time	2 hrs. { Two entire sides of H-8514 junction with this survey }
Verification of soundings from graphic record	Time	13 hrs.
Special adjustments { pos. 104-109 "K" } Vol. 8, { See P.R. } { pos. 142-147 "L" } Vol. 9, P. 26	Time	2 hrs.

Verification by *A. Rose* Total time 486 hrs Date Jan. 4, 1965

Reviewed by *Del. E. Westbrook* Time 38 hrs Date March 18, 1965

probably due to layer
of silt in several
areas. Shoaler depths
taken as correct.

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8504

FIELD NO. WA HI 2156

Maine, Gulf of Maine, Southeast of Schoodic Peninsula

SURVEYED: September 1956 to
October 1958

SCALE: 1:20,000

PROJECT NO. CS-265

SOUNDINGS: 808 Depth Recorders

CONTROL: Sextant fixes
on shore signals

Chief of Party-----J. C. Ellerbe (1956)
N. E. Taylor (1957-58)
Surveyed by-----J. C. Ellerbe
D. A. Jones
N. E. Taylor
J. E. Guth
C. E. Fuller
P. L. Rotondo
Protracted by-----J. E. Guth
N. E. Taylor
Soundings Plotted by-----P. L. Rotondo
J. T. Maldari
Verified and Inked by-----S. Rose
Reviewed by-----D. E. Westbrook
Inspected by-----R. H. Carstens

Date: 3/18/65

1. Description of the Area

This survey covers an area in the Gulf of Maine generally southeast of Schoodic Peninsula. This area extends from the southern tip of the peninsula southward about 8 miles and eastward about 7 miles.

A sedimentary bottom exists throughout the survey, with hard or rocky knolls and ridges creating numerous irregularities. The area is characteristic of this portion of the Gulf of Maine.

Although many features rise sharply from comparatively deep depths on this survey, only two shoal areas can be classified as dangers to surface navigation. These dangers are Stone Horse Ledge, and the irregular bottom area in the vicinity of Lat. $44^{\circ}21.5'$, Long. $67^{\circ}56.0'$ just east of Moulton Ledge.

2. Control and Shoreline

The control is adequately described in the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-8587 (1944-45), T-8588 (1944-45), T-8647 (1944-48), T-8648 (1944-48) and T-11351 (1952-53).

3. Hydrography

A. Depths at crossings are in good agreement.

B. The usual depth curves were adequately delineated except that a few additional lines could have been run to aid in drawing curves in the following areas:

1. Lat. $44^{\circ}13.7'$, Long. $67^{\circ}58.6'$
2. Lat. $44^{\circ}15.1'$, Long. $67^{\circ}56.3'$
3. Lat. $44^{\circ}16.6'$, Long. $67^{\circ}57.4'$
4. Lat. $44^{\circ}18.3'$, Long. $67^{\circ}58.9'$
5. Lat. $44^{\circ}17.5'$, Long. $67^{\circ}55.6'$

Numerous features were emphasized by either dashed or solid brown depth curves in accordance with Par. 6-64 of the Hydrographic Manual.

C. The development of the bottom configuration and the investigation of least depths is considered adequate.

- D. The accuracy of the positions plotted in the off-shore limits of the sheet is somewhat weak because of small angles and the extreme distances from the signals.

4. Condition of the Survey

The sounding records and the Descriptive Report are considered adequate and conform to the requirements of the Hydrographic Manual except that on several days the sounding volumes were not signed as having been inspected by either the Officer-in-Charge or the Chief of Party.

The smooth plotting of this sheet was done by field personnel, and in some respects was not accomplished in accordance with the Hydrographic Manual as listed below:

- A. Hydrography was plotted too close to the southeast edge of the smooth sheet. This could have been avoided by using a wider piece of paper, cut down if necessary. (Ref. Par. 2-20 Hydro. Manual).
- B. The inked circles at photo-hydro stations were about 4 mm. in diameter. They should have been 3 mm. (Ref. Par. 6-21 Hydro. Manual).
- C. To provide more accurate plotting of fixes in the southwest corner of the survey, and to preclude the use of long extensions on the protractor, a "circle sheet" could have been utilized to good advantage. Circle sheets are discussed in Par. 5-13 of the Hydrographic Manual.

5. Junctions

Adequate junctions were effected with H-7643 (1948) on the northwest; H-7153 (1946) on the southwest; H-8031 (1953) on the south; H-8667 (1962) on the southeast; H-8514 (1957-58) on the north; H-8114 (1953-57) on the west; and H-8509 (1959) on the east.

No contemporary survey exists which junctions with the extreme northeast corner of this sheet. However, present survey depths are in harmony with charted depths in this vicinity.

6. Comparison with Prior Surveys

- A. H-938 (1:10,000) 1867
H-1127 (1:10,000) 1871
H-1372 (1:40,000) 1878
H-1398 (1:40,000) 1878
H-1424 (1:20,000) 1879

Taken together, the above listed surveys comprise the prior coverage of the area of the present survey.

In general, there is little significant change in the bottom except that some movement and change in the configuration of the shoals and ridges in the southern portion of the present survey is noticeable. Lack of complete development on the prior surveys will not permit a detailed comparison.

The present survey, in providing a more complete delineation of the bottom, shows numerous lesser depths than those obtained on the prior surveys.

To supplement the present survey, however, several shoal soundings and numerous bottom characteristics were brought forward from the prior surveys to the present survey.

With the addition of the above mentioned soundings and bottom characteristics, the present survey is adequate to supersede the prior surveys within the common area.

B. H-2697 (1:40,000) 1904

This prior survey was a special investigation which was used in charting to supplement the earlier surveys in their common area. Most of the soundings on this survey were made with a pressure tube. A comparison with the present survey shows several discrepancies in depth which are believed caused by inaccuracies in the tube

soundings, in addition to some slight changes which have taken place in the bottom configuration in the 50 years between surveys.

Although the present survey is believed to show the depths and bottom configuration as they presently exist more accurately than does the prior survey, a few bottom characteristics have been brought forward to supplement the present survey.

With the addition of the above mentioned bottom characteristics, the present survey is adequate to supersede the prior survey within the common area.

7. Comparison with Charts 305, 6th Ed., 1/28/63
306, 6th Ed., 3/16/64
1202, 7th Ed., 10/28/63

A. Hydrography

Chart 305 and Chart 1202

Most of the charted hydrography originates with the previously discussed prior surveys which require no further consideration, supplemented by several soundings from the present survey prior to verification and review.

Chart 306

Most of the charted hydrography originates with the smooth sheet of the present survey prior to verification and review. Numerous soundings were revised on the survey during verification and the chart should be corrected accordingly..

The 250-ft. sounding charted in Lat. $44^{\circ}15.76'$, Long. $68^{\circ}05.11'$ was penciled in error on the smooth sheet of the present survey and should be deleted from the chart.

The present survey is adequate to supersede the

charted hydrography within the common area on all three charts.

B. Aids to Navigation

Whistle buoy "8S" south of Schoodic Island was not located on the present survey.

Whistle buoy "A" on Chart 1202 was located on the present survey. Its position is in substantial agreement with its charted position; however, it is a coastal navigation buoy and marks no particular feature.


8. Compliance with Instructions


The survey adequately complies with the Project Instructions.

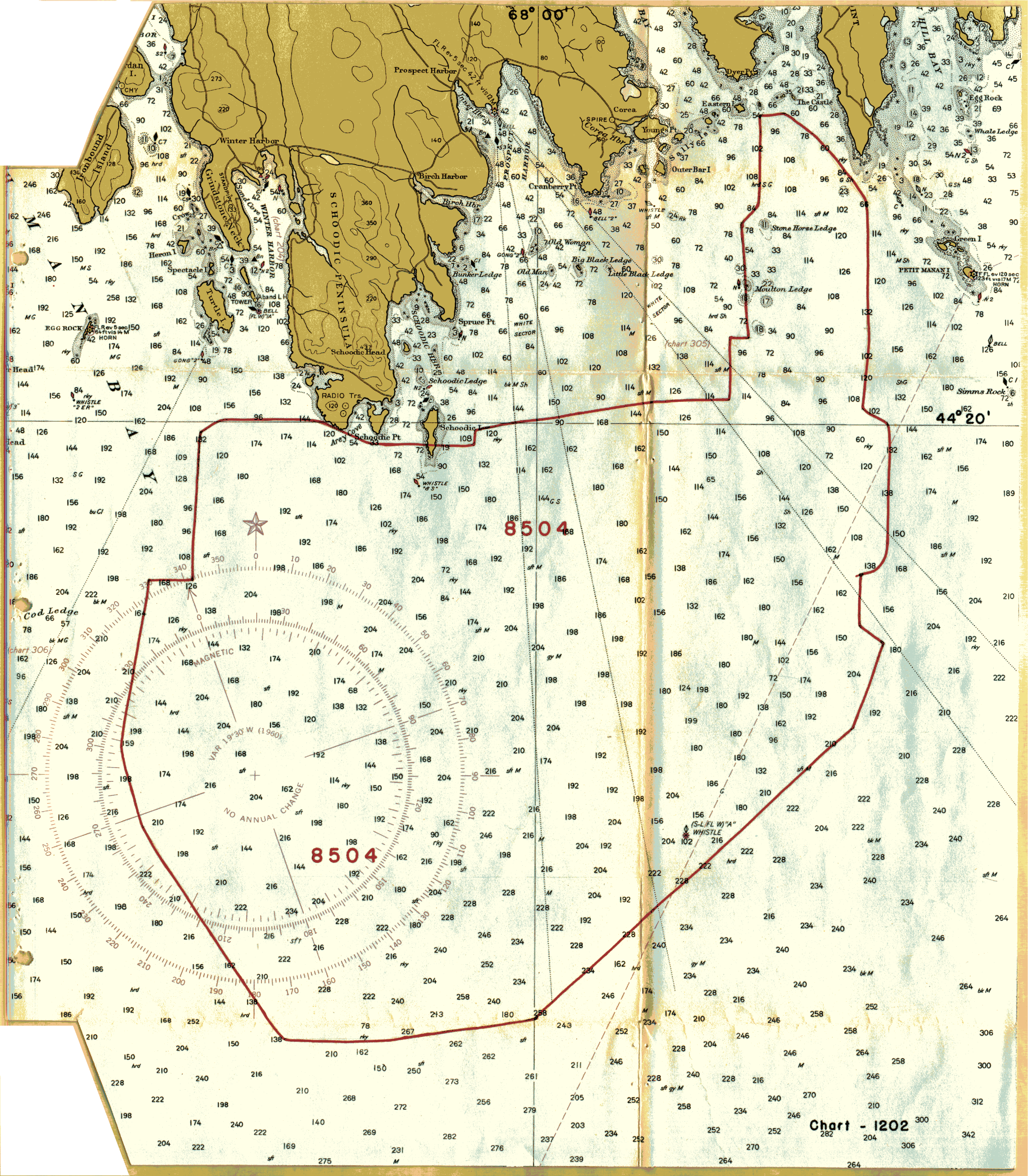
9. Additional Field Work

This survey is considered to be a good basic survey and no additional field work is recommended.

Examined and Approved:


Chief, Marine Chart
Division


Acting
Associate Director,
Hydrography and Oceanography



8504

8504

Chart - 1202

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8504

Review 3-18-65

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/27/60	1000	<i>J. J. Walker</i>	Before After Verification and Review <i>Examined - not applied</i> <i>SMC</i>
8-11-60	305 #9	<i>J. M. Albert</i>	Before After Verification and Review <i>add about 15 sdgs.</i>
8-25-60	70	<i>John P. Wallman</i>	Before After Verification and Review <i>1 sdg added.</i>
3-30-61	1202	<i>R. E. Elkin</i>	Before After Verification and Review <i>Partly applied thru chart 305 drg 9. Revised soundings.</i>
10-14-61	306	<i>O. Svendsen</i>	Before After Verification and Review <i>Partial - App. 5 sdgs thru Chart 305 Drg #9</i>
4/9/62	306 Reconst	<i>Helmer</i>	Before After Verification and Review <i>Fully app'd</i>
11-23-64	305	<i>H. Keeler</i>	Before After Verification and Review <i>part, app'd.</i>
5-28-65	305	<i>G. R. Johnson</i>	Before After Verification and Review <i>Fully Applied</i>
6-22-65	1201 Reconst	<i>G. R. Johnson</i>	Before After Verification and Review <i>Fully App'd thru cht 305, drg #12.</i>
12/15/65	1202 Reconst	<i>John P. Wallman</i>	Before After Verification and Review <i>Fully applied to reconstruction in area not covered by large scale charts.</i>
2-26-66	306	<i>G. R. Johnson</i>	After V&R - Fully Applied - in part thru cht 305, drg #12
1/3/67	1106	<i>Frank Parlat</i>	After V&R - Fully Applied thru 1202 Reconstruction.
3/5/68	1000	<i>Svendsen</i>	After vert. f. c. review. App. fully thru 1006

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.