8510

Diag. Cht. No. 1201

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC

Field No. WA-HI-2259

Office No. H-8510

LOCALITY

State MAINE

General Locality GULF OF MAINE

Locality NASH ISLAND TO MISTAKE ISLAND

1959

CHIEF OF PARTY
J.R. Plaggmier

LIBRARY & ARCHIVES

DATE December 16, 1960

☆ U.S. GOV. PRINTING OFFICE: 1976—669-441

8510

Form 537
(Ed. June 1946)

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-8510

Field No. (H-8509) WARI-2159) & 2259

State MAINE

General locality GULF ~~COAST~~ OF MAINE

Locality NASH I. to MISTAKE I. ~~NARRAGUAGUS BAY~~

Scale 1:20,000 Date of survey 7/16/59 - 9/16/59 - H-8510 6/6/59 to 9/10/59 - H-8509

Instructions dated 19 DECEMBER 1959

Vessel WAINWRIGHT & HILGARD

Chief of party John R. Plaggmier

Surveyed by John R. Plaggmier; Vello Kiisk; K. R. Anderson; P.T. Redden & John T. Maldari

Soundings taken by fathometer, ~~graphic recorder, hand lead, wire~~

Fathograms scaled by Personnel Ships WAINWRIGHT & HILGARD

Fathograms checked by Personnel Ships WAINWRIGHT & HILGARD

Protracted by J. R. Plaggmier; V. Kiisk; K. R. Anderson; P. Redden; J. Maldari

Soundings penciled by Karl R. Anderson, Pat T. Redden

Soundings in fathoms and tenths ~~feet~~ at MLW ~~MLLW~~ and are true depths.

REMARKS:

U. S. GOVERNMENT PRINTING OFFICE 16—66520-1

DESCRIPTIVE REPORT

* * *

Hydrographic Survey H-8510

Field Number WAHI-~~2359~~-2259

* * *

PROJECT CS-408

COAST OF MAINE

* * *

SCALE 1:20,000

* * * * * * * * * *

John R. Plaggmier Chief of Party

- -

A. PROJECT:

Instructions dated 19 December 1958 and revised instructions dated 18 February 1959.

B. SURVEY LIMITS AND DATES:

These sheets cover an area from longitude 67° 33' to longitude 67° 55'. The outer limits were established by visibility, usually between 8 to 9 miles from the signals. The inshore limit was followed as described in the instructions. These sheets make junctions with WAHI-2156 on ~~its~~ their western limit and with WAHI-2359 on ~~its~~ their eastern limit.

FOR H-8510 JUNCTIONS See Review Part 5

Field work began on ~~6 June~~ 16 July 1959 and ended on ~~10~~ 16 September 1959.

C. VESSELS AND EQUIPMENT:

The Ship HILGARD was used for work on the eastern one-half of sheet 2159 and the western one-third of sheet 2259. The Ship WAINWRIGHT was used for work on the western one-half of sheet 2159 and the eastern two-thirds of sheet 2259. Launch CS-181 was operated from the HILGARD and used for special investigations.

Fathometer 57-33 was used by the HILGARD for all work on sheet 2259 and for A, D, E, F, G, H, J days on sheet 2159 and by launch CS-181 for all work on sheet 2159 and sheet 2259. Fathometer 58S was used by the HILGARD for B & C days on sheet 2159 and by the WAINWRIGHT for E through P days on sheet 2159 and for all work on sheet 2259. Fathometer 139-SP was used by the WAINWRIGHT for A & B days on sheet 2159. Fathometer 139-SP was used by the WAINWRIGHT for C & D days on Sheet 2159.

D. TIDE AND CURRENT STATIONS:

Portable automatic tide gages were installed on a tripod in a shallow cove between Green Island and Petit Manan Island and on a platform on Steele Harbor Island. Tide reducers for sheet 2159 were obtained from the Green Island gage and reducers for sheet 2259 were obtained from the Steele Harbor Island gage. For HILGARD's A day and WAINWRIGHT's D & L days on sheet 2259 the tide gage did not function properly and hourly heights were furnished by the Washington Office.

There are no current stations within the limits of either sheet.

E. SMOOTH SHEET:

The smooth sheet for 2159 was projected in the Washington Office by machine. The smooth sheet for 2259 was projected by personnel of WAINWRIGHT and HILGARD. Shoreline and signals were transferred by conventional methods. The transfer has been verified by personnel of WAINWRIGHT and HILGARD.

F. CONTROL STATIONS:

All control was located by conventional methods. The signals employed are tabulated in Attachment No. 2.

G. SHORELINE AND TOPOGRAPHY:

Shoreline was transferred to sheets from blue line manuscripts. Due to the fact that this is an off-shore survey only the mean high water line was inked and no topography was included.

MANUSCRIPTS LISTED IN Review Part 2.

H. SOUNDINGS:

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

I. CONTROL OF HYDROGRAPHY:

Control was visual using the three-point fix with signals on shore. In the area near the junction of the two sheets and near the offshore limit of visibility control was difficult and infrequent weak fixes were the only fixes available, however due to the extreme depth in this area the soundings and spacing of sounding lines that were obtained are considered adequate.

J. ADEQUACY OF SURVEY:

This survey is considered adequate and no additional field work is necessary. The junction with the prior survey (Field No. 2156) to the westward is adequate. The spacing of the area described in "I" Control of Hydrography" above is in accordance with the project instructions, and as stated above is considered adequate.

H-8504 ← DOES NOT JOIN H-8510

K. CROSSLINES:

Crosslines are in good agreement with longitudinal sounding lines.

L. COMPARISON WITH PRIOR SURVEYS:

Previous surveys covering this area are H-1398, 1878; H-1835, 1888; and H-4032, W.D. 1918. Generally good agreement was noted. There were slight discrepancies discovered over shoal areas by special investigation. Note Attachment No. 1.

and H-1576 1883

M. COMPARISON WITH CHART:

In general good agreement with the chart was noted. The most flagrant disagreement was the discovery of a shoal in the vicinity of latitude 44° 18.70'; longitude 67° 50.35'. See attachment No. 1, item 3. NOT ON H-8510

N. DANGERS AND SHOALS:

The only important newly found shoal was the one mentioned in "M. Comparison with Chart" above and listed as 3. in Attachment No. 1.

O. AIDS TO NAVIGATION:

No fixed aids to navigation were located as all in the vicinity had been done so previously.

Floating aids to navigation are as follows:

2159 H-8509	Latitude	Longitude	Depth (Fms.)	Pos. No.	Date	
Black Can #1	44°20.41'	67°51.22'	17.5	WAM 40	7/27/59	See D.R. for H-8509
RB Nun	44°23.19'	67°47.18'	4.6	WA 88	9/9/59	
RB Nun	44°22.55'	67°46.52'	8.7	WA 89	9/9/59	
BW Bell	44°21.03'	67°51.63'	23.0	WA 22	9/14/59	
Red Nun #2	44°21.55'	67°51.77'	9.4	WA 23	9/14/59	
Red Whistle #6A	44°19.87'	67°48.43'	28.9	HI 6&7	7/20/59	
2259 H-8510						
Red Bell #6	44°25.74'	67°38.61'	20.4	WA 56E	7/28/59	

P. SILTED AREAS:

No extreme silted areas are in evidence.

Submitted,

John R. Plaggmier

John R. Plaggmier
Lt. Commander, C&GS
Commanding WAINWRIGHT
& HILGARD

EXCESSIVE DISCREPANCIES IN PREVIOUS SURVEYS AND CHARTED SOUNDINGS OVER SHOAL AREAS

* See D.R. for H-8509

	Name	Latitude	Longitude	Previous Depth	Present Depth	Remarks
* 1.	"Simm's Rock"	44°20.35'	67°50.90'	3½ fms.*	3.2 fm.	Symbol on chart indicates unknown depth
* 2.		44°20.45'	67°51.20'	6 ft.	2.3 fm.	
* 3.		44°18.70'	67°50.35'		6.6 fm.	No previous sdgs. in this area
* 4.						
* 5.	"Southeast Rock"	44°19.95'	67°48.70'	5 ft.	0.6 fm.	
6.		44°23.58'	67°42.81'	42 ft.	5.8 fm.	← H-8510

* H-1398, 1878

Checked satisfactorily 01 1000 ET

LIST OF SIGNALS

Triangulation:	Name	Source
H-8510	COR	Corea Church Spire, 1902
	DAN	Jordans Delight Ledge Beacon, 1913
	LIGHT	Narraguagus Lighthouse, 1861
	MAN	Petit Manan Lighthouse, 1860
	MOOSE	Moose Peak Lighthouse, 1862
	NASH	Nash Island Lighthouse, 1902
	RUM	Crumple, 1862
	TON	Keaton, 1946

Marked Topographic:	Name	Year	Manuscript
H-8510	CRIS	1945	T-8647 S/2
	FREE	1946	T-8650 N/2
	HIGH	1946	T-8650 N/2
	RED	1944	T-8587
	TOW	1944	T-8587

Topographic:	Name	Manuscript	Method of Location
H-8510	EEL	T-8648 S/2	Angle & distance from triangulation station
	INK	T-8649 N/2	Angle & distance from triangulation station
	PET	T-8647 S/2	Angle & distance from triangulation station

Photo-Hydro:	Name	Manuscript
H-8510	ANT	T-8587
	BAT	T-8647 S/2
	JOR	T-8648 N/2
	OUT	T-8649 N/2
	TAN	T-8587

STATISTICS

Sheet 2159

Volume Number		Day Letter	Date	Number of Positions	Nautical Miles
HILGARD	1	A	6/25/59	99	31.0
	1	B	6/30/59	111	33.0
	2	C	7/1/59	138	47.0
	2 & 3	D	7/8/59	87	33.5
	3	E	7/9/59	78	40.0
	3	F	7/17/59	48	9.0
	4	G	7/20/59	122	28.5
	4	H	7/27/59	114	22.0
	5	J	8/24/59	50	12.5
Launch	1	a	8/26/59	6	1.0
	1	b	9/9/59	76	9.5
	1	c	9/10/59	15	2.0
WAINW'T	1	A	6/24/59	75	25.5
	1	B	6/25/59	123	41.9
	1	C	6/30/59	107	37.0
	2	D	7/1/59	117	39.6
	2	E	7/8/59	103	34.5
	3	F	7/9/59	155	55.5
	3	G	7/16/59	6	2.3
	4	H	7/20/59	50	15.5
	4	J	7/27/59	71	20.5
	5	K	8/19/59	53	24.6
	5	L	8/24/59	15	5.4
	5	M	9/9/59	124	32.0
	6	N	9/14/59	55	14.0
	6	P	9/23/59	30	4.5

STATISTICS - Continued

Sheet 2259

Volume Number		Day Letter	Date	Number of Positions	Nautical Miles
HILGARD	1	A	7/27/59	25	9.0
	1	B	7/28/59	173	53.0
	2	C	8/3/59	70	23.0
	2 & 3	D	8/4/59	146	50.0
	3	E	8/5/59	119	42.5
	3 & 4	F	8/6/59	117	40.5
	4	G	8/7/59	51	16.5
	4	H	8/19/59	48	16.0
	4 & 5	J	8/20/59	98	33.0
	5	K	8/24/59	113	21.7
				760	
Launch	1	a	9/9/59	45	4.6
WAINW'T	1	A	7/16/59	21	7.0
	1	B	7/17/59	45	14.5
	1	C	7/20/59	69	23.5
	1 & 2	D	7/27/59	73	25.3
	2	E	7/28/59	153	60.3
	3	F	7/29/59	14	1.5
	3	G	8/3/59	154	53.2
	3 & 4	H	8/4/59	212	73.5
	5	J	8/5/59	109	38.0
	5	K	8/6/59	101	31.0
	6	L	8/12/59	15	5.3
	6	M	8/14/59	78	24.0
	6	N	8/19/59	35	12.5
	6 & 7	P	8/24/59	152	49.6
	7	Q	8/26/59	11	3.7
	7	R	9/10/59	21	8.1
	7	S	9/14/59	37	7.4
	8	T	9/15/59	88	20.0
	8	U	9/16/59	147	46.0
				1535	

FATHOMETER CORRECTIONS

Bar checks taken to depths of ten (10) fathoms. Temperature and salinity observations were made to depth of fifty (50) fathoms at beginning and ending of field season and found to be in good agreement consequently average was taken. Bar checks were averaged and combined with temperature and salinity observations represented by a smooth curve.

Following corrections were then scaled from this curve:

WAINWRIGHT A through D days - 2159, HILGARD B & C Days

Depth	Correction
0.0 to 7.4 fms.	+0.1 fms.
7.5 to 8.4 fms.	0.0 fms.
8.5 to 16.3 fms.	-0.1 fms.
16.4 to 26.5 fms.	-0.2 fms.
26.6 to 34.3 fms.	-0.4 fms.

WAINWRIGHT E through P days 2159 & A through U days 2259

0.0 to 7.5 fms.	+0.1 fms.
7.6 to 12.4 fms.	+0.2 fms.
12.5 to 17.2 fms.	+0.1 fms.
17.3 to 22.4 fms.	0.0 fms.
22.5 to 27.9 fms.	-0.2 fms.
28.0 to 34.3 fms.	-0.4 fms.
34.4 to 42.0 fms.	-0.6 fms.
42.1 ON	-0.8 fms.

HILGARD	A, D through J days	2159
Launch	a, b, & c days	2159
Launch	a days	2259
HILGARD	A through K days	2259

0.0 to 7.5 fms.	+0.4 fms.
7.6 to 12.4 fms.	+0.3 fms.
12.5 to 16.4 fms.	+0.2 fms.
16.5 to 20.6 fms.	+0.1 fms.
20.7 to 24.3 fms.	0.0 fms.
24.4 to 27.9 fms.	-0.2 fms.
28.0 to 34.3 fms.	-0.4 fms.
34.4 to 42.0 fms.	-0.6 fms.
42.1 ON	-0.8 fms.

SMOOTH PLOTTER'S NOTES

(Sheet H-8510)

1. Hydrography performed by the HILGARD is indicated by blue position dots and numbers. The work of the WAINWRIGHT is shown by red position dots and numbers.

2. Cross lines are in good general agreement with longitudinal sounding lines; the greatest difference being one fathom.

3. Hydrography was plotted by Mr. Pat T. Redden, Ensign; soundings were penciled by Mr. John T. Maldari, Ensign. Office work on smooth sheet H-8510 started on 27 July 1959 and was completed in December, 1960, with no work accomplished during the 1960 Field Season. Buckling of the sheet is due to this time lag. ← SMOOTH PLOTTING

4. Shoals plotted on the Smooth sheet agree with charted shoals. SEE REVIEW

RHC

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. Apr. 1950

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys:~~ 27 January 1961

Division of Charts: R.H.Carstens

Plane of reference approved in
14 volumes of sounding records for

HYDROGRAPHIC SHEET 8510

Locality Narraguagus Bay,Maine

Chief of Party: J.P.Plaggmier (1959)
Plane of reference is mean low water reading.
2.5 ft. on tide staff at Steele Harbor Island,Maine
21.6 ft. below B. M. 1 (1959)
4.3 ft. on tide staff at Green Island,Maine
19.1 ft. below B.M. 1 (1959)

Height of mean high water above plane of reference is:
11.6 ft. at Steele Harbor Island

10.6 ft. at Green Island

Condition of records satisfactory except as noted below:

C M. Symons

Acting Chief,Tides and Currents Branch

~~Chief, Division of Tides and Currents.~~

U. S. GOVERNMENT PRINTING OFFICE 877933

NOAA FORM 76-155
(11-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

SURVEY NUMBER
H-8510

GEOGRAPHIC NAMES

Name on Survey	A ON CHART NO.	B ON PREVIOUS SURVEY NO.	C ON U.S. QUADRANGLE MAPS	D FROM LOCAL INFORMATION	E ON LOCAL MAPS	F P.O. GUIDE OR MAP	G RAND MCNALLY ATLAS	H U.S. LIGHT LIST	K	
BATSON LEDGES		✓								1
BIG NASH ISLAND		✓								2
BLACK LEDGES		✓								3
BLACK ROCK		✓								4
BOIS BUBERT ISLAND		✓								5
BROWNEY ISLAND		✓								6
CHANNEL ROCK		✓								7
CRUMPLE ISLAND		✓								8
CURLEW ROCK		✓								9
DOUGLAS ISLANDS		✓								10
DROWN BOYS LEDGES		✓								11
EGG ROCK		✓								12
EGG ROCK		✓								13
FISHERMAN ISLAND		✓								14
FLAT ISLAND		✓								15
FREEMAN ROCK		✓								16
GREAT WASS ISLAND		✓								17
GREEN ISLAND		✓								18
GULF OF MAINE		✓								19
INNER SAND ISLAND		✓								20
JORDANS DELIGHT		✓				APPROVED				21
LITTLE BOIS BUBERT ISLAND		✓				Chas. E. Hamilton				22
LITTLE POND HEAD		✓				STAFF GEOGRAPHER - C51x2				23
MISTAKE ISLAND		✓				12 Dec. 1977				24
NASH ISLAND		✓								25

NOAA FORM 76-155 SUPERSEDES C&GS 197

☆ U.S. G.P.O. 1972-769-565/516 REG.#6

Form 946

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. 8510

Records accompanying survey: Smooth sheets 1;

boat sheets 2; sounding vols. 15; wire drag vols. ;

Descriptive Reports 1; graphic recorder envelopes 8;

special reports, etc.

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

Number of positions on sheet		2540 ~~2531~~
Number of positions checked		Approx 5%
Number of positions revised		1
Number of soundings revised (refers to depth only)		15
Number of soundings erroneously spaced		15
Number of signals erroneously plotted or transferred		NONE
Topographic details	Time	
Junctions	Time	16 hrs
Verification of soundings from graphic record	Time	28 hrs
Special adjustments The smooth plotter sounded the soundings in fathoms. It was necessary to carry forward the tenths of fathoms to the entire job since chart 1201 is completed in feet.	Time	

Verification by George A. Rozencsak Total time 641 Date Sept 11-1964

Reviewed by Dale E. Westbrook Time 70 hrs. Date 4-22-65

Inspected by:

K. W. Wellman 45 44 hrs. 12-12-77

D. R. Engle 8 hrs 12-22-77

US COMM C&GS DC

H-8510

Information for Future Presurvey Reviews

Only minor changes should be encountered in this area on a future survey.

Several prior least depths were not adequately verified or disproved on the present survey. A future survey should verify these features and obtain their least depths.

The 76-foot (12.6 fathoms) sounding in latitude 44°24.95', longitude 67°39.75' brought forward to the present survey from H-4032 W.D. (1918) was not subsequently cleared on the wire-drag survey. This sounding could appropriately be included for investigation in a future survey.

Position Index		Bottom Change Index	Use Index	Resurvey Cycle
Lat.	Long.			
441	0675	0	1	50 years
441	0674	0	1	50 years
442	0675	2	1	50 years
442	0674	2	1	50 years

NOAA FORM 76-155
(11-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

SURVEY NUMBER

H-8510

GEOGRAPHIC NAMES

Name on Survey	A ON CHART NO.	B ON PREVIOUS SURVEY NO.	C ON U.S. QUADRANGLE MAPS	D FROM LOCAL INFORMATION	E ON LOCAL MAPS	F P.O. GUIDE OR MAP	G RAND MCNALLY ATLAS	H U.S. LIGHT LIST	K	
OUTER SAND ISLAND		✓								1
PETIT MANAN ISLAND		✓								2
POND ISLAND		✓								3
POND POINT		✓								4
RED HEAD		✓								5
SEAL ROCK STANLEY LEDGE		✓								6
THE POND		✓								7
THE SANDS		✓								8
WATER ISLAND		✓								9
WESTERN BAY		✓								10
										11
										12
										13
										14
										15
										16
										17
					APPROVED					18
					Chas. E. Harrington					19
					STAFF GEOGRAPHER - C51x2					20
					12 Dec. 1977					21
										22
										23
										24
										25

☆ U.S. G.P.O. 1972-769-565/516 REG.#6

OFFICE OF MARINE SURVEYS AND MAPS

MARINE SURVEYS DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8510 FIELD NO. WA-HI 2259

Maine, Gulf of Maine, Nash Island to Mistake Island

SURVEYED: July - September 1959

SCALE: 1:20,000 PROJECT NO.: CS-408

SOUNDINGS: 808 Depth Recorders CONTROL: Sextant Fixes on Shore Signals

Chief of Party	J. R. Plaggmier
Surveyed by	J. R. Plaggmier, V. Kiisk
	K. R. Anderson, P. T. Redden
	J. T. Maldari
Protracted by	J. R. Plaggmier, V. Kiisk
	K. R. Anderson, P. T. Redden
	J. T. Maldari
Soundings Plotted by	K. R. Anderson, P. T. Redden
Verified and Inked by	G. A. Kozemczak
Reviewed by	D. E. Westbrook
	Date: April 22, 1965
Inspected by	K. W. Wellman

1. Description of the Area

This survey covers a portion of the Gulf of Maine between Nash Island and Mistake Island and includes the area between approximately 0.5 to 7.0 miles offshore.

Most of the survey area contains general depths of about 10-60 fathoms. However, in the general vicinity of Black Rock, to about 3 miles southward, several features exist which are considerably shoaler.

In latitude 44°23.58', longitude 67°42.81', for example, a rocky knoll having a least depth of 35 feet (5.8 fathoms) rises from general depths of about 150 feet (25 fathoms).

Except for numerous rocky ridges and knolls, most of the bottom is composed of soft brown mud sediments particularly in the deeper portions of the area. In lesser depths, some sand, gravel, and broken shells can be found.

The bottom configuration in the survey area is quite stable and is subject to very little change with the passage of time.

2. Control and Shoreline

The control is adequately described in section I of the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-8648 (1944-48), T-8649 (1948), and T-8650 N/2 (1948). This survey is considered to be an offshore survey. The various topographic features, i.e., islands and ledges, are shown for orientation and guidance purposes only; the true position being shown on the photogrammetric manuscripts previously mentioned.

3. Hydrography

a. Depths at crossings are in good agreement.

b. The usual depth curves are adequately delineated; however, during verification, the 30-fathom depth curve was inadvertently delineated in red violet rather than the standard color of violet for the indicated depths. Numerous features are emphasized by either dashed or solid brown depth curves in accordance with paragraph 6-64 of the Hydrographic Manual.

c. The development of the bottom configuration is considered adequate. However, the investigation of least depths from prior surveys is not considered adequate. As a result several soundings not considered adequately verified or disproved were brought forward from the prior surveys. (See part 6.)

All soundings, regardless of depth, have been inked to the nearest 0.1 fathom to facilitate accurate conversion to feet during application to the charts of the area.

4. Condition of Survey

The field plotting, sounding records, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual except that:

a. MRV (for middle reed vibrating) was entered in the WAINWRIGHT sounding volumes at the top of every page including pages on which no hydrography was recorded. This indicates that the note was routinely entered by the recorder in instances where actual reed checks may not have been made.

b. The sounding records were not signed by the Officer in Charge or the Chief of Party as having been inspected. In most cases, the stamps for this item were improperly filled in by the recorder.

5. Junctions

Adequate junctions were effected with H-8556 (1959-60) on the east and H-8667 (1962) on the south.

The common area between the present survey and H-8667 (1962) to the south is an area of disturbed bottom configuration with significant depth variations generally centered in the vicinity of latitude 44°21.00', longitude 67°34.00'. Such disturbed bottom configuration in conjunction with the 1:3 scale differential between the present survey and H-8667 precludes a ready and precise reconciliation of the depth curves vis-a-vis the commonly accepted requirement of coincidence of depth curves in the common area; however, appropriate revisions were made to depth curves on the larger scale present survey. Accordingly, some depth curves in the common area on the smaller scale (1:60,000) adjoining survey (H-8667) may not be in coincidence with those on the present survey. The present survey should take precedence in such cases.

Bottom characteristics shown in red on the present survey in proximity to transferred soundings from H-8667 (also in red) are not to be considered to originate with the junctional survey. Such bottom characteristics originate with H-1398 (1878) and were inadvertently shown in red ink during the verification of the present survey.

The junction with H-8509 (1959) on the west is discussed in its Review Report.

No contemporary survey joins the present survey on the north; however, present depths are in general harmony with charted depths in the area.

6. Comparison with Prior Surveys

a.

H-1060	(1870)	1:10,000
H-1398	(1878)	1:40,000
H-1576	(1883)	1:40,000
H-1835	(1888)	1:10,000

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

The present survey is generally in good agreement with the prior surveys. For the most part, the smaller scale and the widely spaced lines on the prior surveys preclude a detailed comparison. However, the bottom configuration in the present survey area appears to be quite stable with scattered indications of depth differences of generally ± 3 fathoms with maximum differences of as much as ± 8 fathoms. The areas of maximum

depth differences, however, are not critical and no further discussion is considered necessary. The noted depth differences are attributed to the less detailed and less accurate methods employed on the prior surveys.

The present survey provides a more complete delineation of the area and reveals numerous features which were not detected on the prior surveys.

A few soundings on the prior surveys are not considered to be adequately verified or disproved by the present survey. Therefore, three soundings from H-1835 (1888), one sounding from H-1576 (1883), and one sounding from H-1398 (1878) were brought forward to supplement the present survey.

Bottom characteristics were added to the present survey from H-1398 (1878) and H-1576 (1883).

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

b. H-4032 (1918) W.D. 1:40,000

This wire-drag survey covers a portion of the present survey area. No conflicts exist between the effective drag depths shown thereon and present survey depths.

Two soundings from this wire-drag survey were brought forward to supplement the present survey.

H-4032a (1:40,000) 1918 contains additional soundings obtained during the above wire-drag survey. These soundings are fully superseded by the present survey within the common area.

7. Comparison with Chart 304, 5th Edition, Rev. August 17, 1964
Chart 305, 6th Edition, Rev. March 29, 1965
Chart 1201, 4th Edition, Rev. April 27, 1964

a. Hydrography

Portions of the present survey fall within the areas of the above listed charts. Most of the charted hydrography in the area of the present survey originates with the previously discussed prior surveys which require no further consideration. This charted hydrography is supplemented by several soundings from the unverified smooth sheet of the present survey. The source(s) of several soundings could not be readily ascertained. These soundings do not provide information significant to navigation and are adequately superseded by present depths.

A few soundings from the present survey were revised during verification and review, and the charts should be corrected accordingly. In addition, a few soundings were charted as conversions from whole fathoms. During verification, all soundings were inked to the nearest 0.1 fathom because the charts of the area are in feet. All soundings, then, as charted from the present survey should reflect the depth to the nearest foot when the fathoms and tenths are converted. For example, the 108-foot sounding on chart 304 in latitude 44°21.70', longitude 67°34.47' should be revised to 109 feet (18.2 fathoms).

Attention is directed to the following:

(1) The 64-foot sounding on charts 304 and 305 in latitude 44°23.04', longitude 67°42.67' originates with H-1835 (1888), is discredited by present survey depths, and is thought to be recorded 10 fathoms too shoal. The 64-foot sounding should be deleted from the chart.

(2) The 16.2-fathom (97 feet) sounding brought forward to the present survey from H-1835 (1888) in latitude 44°23.10', longitude 67°42.60' has not previously been charted and should be added to the chart.

(3) The 180-foot sounding on chart 304 in latitude 44°22.12', longitude 67°33.82' originates with the present survey before verification. This sounding was found to have been reduced in error in the sounding volumes. The revised sounding is 50 fathoms (300 feet) and the chart should be corrected accordingly.

(4) The 97-foot (16.2 fathoms) sounding on chart 304 in latitude 44°24.28', longitude 67°37.92' originates with H-4032 W.D. (1918) where it was plotted erroneously. The sounding has been brought forward to the present survey in its correct position (latitude 44°24.43', longitude 67°37.70'). The charted 97-foot sounding should be moved to its correct position.

The present survey is adequate to supersede the charted hydrography within the common area.

b. Aids to Navigation

The aid shown on the present survey is in substantial agreement with its charted position and adequately marks the feature intended.

8. Compliance with Instructions

The survey adequately complies with the project instructions with the following exceptions:

a. No bottom characteristics were obtained in the survey area.

b. A few soundings from the prior survey were not adequately verified or disproved and have been brought forward to supplement the present survey.

c. A charted 64 feet (10.6 fathoms), falling in present depths of 24 to 25 fathoms, was not addressed by the hydrographer. (See section 7.a.(1) above.)

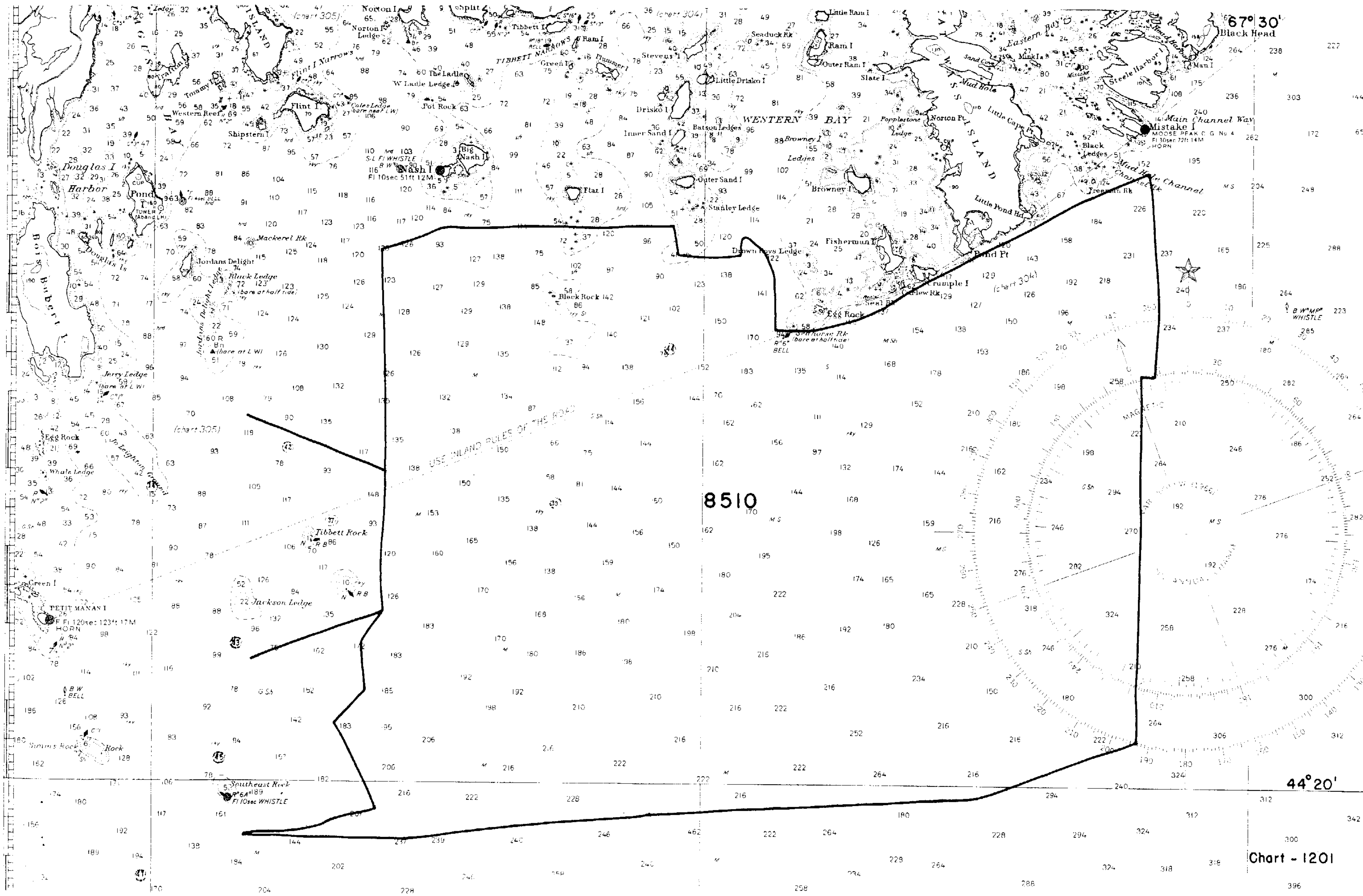
9. Additional Field Work

This survey is considered to be a good basic survey and no additional field work is recommended; however, several soundings carried forward during review to supplement the present survey should be investigated and verified or disproved during future work in the area.

Examined and Approved:

Chief
Marine Surveys Division

Associate Director
Office of Marine Surveys
and Maps



67° 30'
44° 20'
8510
Chart - 1201
WESTERN BAY
USE INLAND RULES OF THE ROAD
Nash I
Big Nash I
Flat I
Black Rock
Jordans Delight
Mackerel Rk
Tibbett Rock
Jackson Ledge
Southeast Rock
PETIT MANAN I
Egg Rock
Mistake I
Black Head
Main Channel Way
Eastern Bay
Steele Harbor
Little Pond Hd
Pond Pt
Douglas I
Harbor
Bois Bubert I
Flint I
Drisko I
Outer Sand I
Browney I
Fisherman I

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8510

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/19/61	1000	E. Thomas	Exam, Revised one sdgs, Considered Partially applied Before ~~After~~ Verification and Review JMA
			without going thru the large scale charts.
1-24-61	1201 #16	J.M. Albert	Before ~~After~~ Verification and Review add 3 sdgs to agree with chart 1000
3-23-61	70	R.E. Elkins	Before ~~After~~ Verification and Review Partly applied thru cht 1201 drg 16. Added two soundings.
5-16-61	304 #11	D.C. Davis	Before ~~After~~ Verification and Review: Partially applied
10-26-61	1106	R.E. Elkins	Before ~~After~~ Verification and Review Partly applied Revised several soundings applied directly from smooth sheet.*
10-4-62	305	G.R. Johnson	Before ~~After~~ Verification and Review Partially Applied App'd in part through cht 304 drg #11
11-24-64	305	b.j. keeler	~~Before~~ After Verification before and Review Part. App'd.
2-8-65	304	G.R. Johnson	~~Before~~ After Verification before and Review Part. App'd. Only review corr'ns need be considered for full applicatn.
3-3-65	305	G.R. Johnson	~~Before~~ After Verification before and Review Partially App'd Consider only review corrections for full application
11-18-65	304	G.R. Johnson	~~Before~~ After Verification and Review & before insp. Partly app'd.
11-18-65	305	G.R. Johnson	After V&R and before insp. - partly app'd.
12-8-65	1201 Recently	G.R. Johnson	After V&R and before insp - partly app'd, thru 304, drg #14; 305, drg #12; & directly.
6-27-70	70	Jeffrey Stuart	After V&R and before insp - Part. App - No further Corr.
* - The application of H-8510 to chart 1201 is not considered sufficiently complete for use on chart 1106 - Elkins 10-26-61			
8-31-70	304	Jeffrey Stuart	After V&R + before Insp. Part App No further Corr.

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.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8510

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
1000	6-16-72	J. Bailey	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via (Before)
	8/8/73		Drawing No. Exam. No critical corrs. Appl. thru Drwg. 70 #~~35~~ 32
1106	11-30-72	J. Bailey	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via (Before)
			Drawing No. 28 Exam. for critical corrs' Revised several sndgs. thru Drwg. 1201 #22
70	1-18-73	O. Chapman	~~Full~~ Part Before After Verification Review Inspection Signed Via (Before)
			Drawing No. Exam for Critical Corr. only revised several sndgs. thru Drwg 1106 - #28
13324 (305)	2-22-80	J. T. Canright	Full ~~Part Before~~ AFTER Verification Review Inspection Signed Via
			Drawing No. 15, EXAMINED THROUGH 1860 REDUCTION AFTER INSPECTION NO CORRECTIONS TO DRAWING
13326 (304)	4/9/80	Barbara Lorentz	Full ~~Part Before~~ After ~~Verification Review~~ Inspection Signed Via
			Drawing No. 18, Exam. for REVISIONS AFTER REVIEW & INSP. ONE CORRECTION - Chg. Sounding
13325 (1201)	4/9/80	Barbara Lorentz	Full ~~Part Before After Verification~~ Review Inspection Signed Via
			Drawing No. 25, EXAMINED for REVISIONS AFTER REVIEW & INSP. Chg. SOME SOUNDINGS
13260 (1106)	4/9/80	Barbara Lorentz	Full ~~Part Before~~ After ~~Verification Review~~ Inspection Signed Via
			Drawing No. 35, EXAMINED for REVISIONS AFTER REVIEW & INSP. REVISED SEVERAL ~~SOUNDINGS~~ SNDGS
13003 (1000)	4/10/80	Barbara Lorentz	Full ~~Part Before~~ After ~~Verification Review~~ Inspection Signed Via
			Drawing No. 57, EXAMINED for REVISIONS ~~AFTER~~ REVIEW & INSP. ~~NO CORRECTIONS~~ REVISED SNDGS
13006 (70)	4/10/80	Barbara Lorentz	Full ~~Part Before~~ After ~~Verification Review~~ Inspection Signed Via
			Drawing No. 44, EXAMINED for REVISIONS AFTER REVIEW & INSP. ~~NO CORRECTIONS~~ REVISED SNDGS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975. USCOMM-DC 8558-P63