

6810



Additional work

Diag'd on Diag. No. 1204-2

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic
Field No. 8 Office No. 6810 & Ad. Wk.

LOCALITY

State Maine
General locality Casco Bay
Locality Lumbo & Temple Ledges

194 2

CHIEF OF PARTY

C. D. Meaney

LIBRARY & ARCHIVES

DATE June 12, 1943

6810

&

Additional work

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 6810
H6810

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.

Field No. 8

REGISTER NO. 6810

State Maine

General locality Casco Bay

Locality Lumbo & TEMPLE LEDGES

Scale 1:20,000 Date of survey August & September, 192

Vessel LYDONIA

Chief of Party C. D. Meaney

Surveyed by Ship's Officers

Protracted by M. Jane Langley

Soundings penciled by M. Jane Langley

Soundings in ~~fathoms~~ feet at ~~MLW~~

Plane of reference M.L.W.

Subdivision of wire dragged areas by

Inked by Leroy King July 27, 1943

Verified by

Instructions dated May 7, 1941, 192

Remarks: This sheet was processed at the Norfolk Processing Office.

H6810

DESCRIPTIVE REPORT

TO ACCOMPANY

HYDROGRAPHIC SHEET H-6810, Field No. 8
Proj. CS-265

The authority for this survey is contained in the following:

| | |
|--------------------------------|--------------------|
| Instructions | May 7, 1941 |
| Supplemental Instructions | March 11, 1942 |
| Supplemental Instructions | June 17, 1942 |
| Outline of areas to be dragged | July 10, 1942 |
| Field Work | September 14, 1942 |

LOCATION AND LIMITS:

This survey includes a development of Lumbo Ledge, Temple Ledge and Charity Ledge and the area between Bald Head to Jaquish Island.

SCALE:

The scale of the survey is 1:20,000.

SURVEY METHODS:

This survey was executed with the LYDONIA, and Launch OGDEN.

A Dorsey number one fathometer and a Submarine Signal Corporation 808 Depth Recorder were used for sounding from the LYDONIA. The 808 Depth Recorder was used while the Dorsey number one fathometer was not in operation because of repeated transformer failures.

The sounding executed from the OGDEN was done with the Submarine Signal Corporation 808 Depth Recorder.

All positions were controlled by frequent three point fixes on triangulation and topographic signals.

Leadline comparisons and serial temperatures were observed to furnish fathometer corrections for all LYDONIA soundings. Serial temperatures supplement bar-checks observed from all hydrographic units.

A standard automatic tide gage at Portland maintained by the Tide Division was used to furnish a plane of reference and tide reducers for all soundings.

DISCREPANCIES:

An addendum to this report will call attention to discrepancies, if found, when the smooth sheet is plotted at the Norfolk Processing Office.

HC810

DANGERS:

Lumbo Ledge

Latitude 43°40'85"
Longitude 69°56'100"

The depth of this shoal shown on Chart 315⁵ is 8 feet. This shoal was developed with the OGDEN. The shoalest depth found was 10 feet. The LYDONIA was used to sound over this shoal at high water. The least depth found while sounding with the LYDONIA is 28 feet. It is recommended that this shoal be wire dragged to determine the least depth. *Item 9 of Review*

83 H. H.

Temple Ledge

Latitude 43°41'
Longitude 69°53'

The least depth of this shoal shown on Chart 315 is 25 feet. The least depth found in 1942 while sounding with the OGDEN and the LYDONIA is 19 feet. This shoal should be wire dragged. *This shoal was cleared to an effective depth of 25 ft. Least depth on H-6674 (1941) W.D. is 25 ft. Item 9 of Review*

83 *

Charity Ledge

Latitude 43°42'85"
Longitude 69°59'14"

The charted depth of this shoal is 11 feet (Chart 315). The least depth found on this shoal in 1942 surveys is 11 feet. *(112 fath) (122 H.L.) G.F.V.*

83 H. H.

A 27 foot shoal is shown on Chart 315 about 0.1 of a mile west southwest of Charity Ledge. The least depth found on this shoal during the 1942 survey is 8 feet. It is recommended that both of these shoals be wire dragged. *Item 9*

83 *

Shoal (33 feet Chart 315)

Latitude 43°42'11"
Longitude 69°53'9"

During 1942 this shoal was developed and 34 feet least depth found. It is recommended that this shoal be wire dragged. *33 ft. sdg cleared on H-6674 (1941) W.D. to 26 ft. Least depth found was 33 ft.*

83 H. H.

CHANNELS:

There is a deep channel between Temple Ledge and Bald Head Ledge

There is deep water within 0.2 of a mile of Lumbo Ledge.

WIRE DRAG GROUNDINGS:

Wire drag groundings is the subject of a separate report. *H-6674 (1941) W.D.*

GEOGRAPHIC NAMES:

Lieutenant Henry O. Fortin has been instructed to submit a report on Geographic names in the area covered by this survey.

Respectfully submitted,

C. D. Meaney,
Lieut. Comd'r. C&GS.

*n to m +
check corrections
4/17/43 H. H.*

S T A T I S T I C S
HYDROGRAPHIC SHEET 8 USC&GSS LYDONIA
C. D. Meaney Comd'g.

| Vol. | Date 1942 | Day Letter | No. of Positions | Statute Miles |
|---------------|--------------|---------------|---------------------|------------------|
| I | 9/14 | A (red) | 154 | 44.3 |
| I | 9/21 | B | 75 | 28.0 |
| II | 9/22 | C | 144 | 48.3 |
| II | 9/23 | D | 70 | 27.0 |
| III | 9/23 | D | 40 | 14.0 |
| Total LYDONIA | | | 483 | 161.6 |

LAUNCH OGDEN - Lieut. Henry J. Healy, in charge.

| | | | | |
|-------|------|----------|------|-------|
| I | 8/10 | A (blue) | 46 | 14.7 |
| I | 8/12 | B | 137 | 38.0 |
| I | 8/13 | C | 12 | 3.4 |
| II | 8/13 | C | 134 | 43.0 |
| II | 8/18 | D | 71 | 21.6 |
| III | 8/18 | D | 55 | 18.4 |
| III | 8/19 | E | 74 | 27.6 |
| IV | 8/24 | F | 72 | 22.9 |
| IV | 8/25 | G | 133 | 46.4 |
| V | 8/25 | G | 9 | 3.0 |
| V | 9/1 | H | 91 | 27.6 |
| V | 9/2 | J | 89 | 29.1 |
| VI | 9/2 | J | 29 | 8.8 |
| VI | 9/4 | K | 1 | 0.0 |
| VI | 9/11 | L | 115 | 24.2 |
| VI | 9/14 | M | 39 | 8.8 |
| Total | | | 1107 | 337.5 |

ADDENDUM

HYDROGRAPHIC SHEET NO. H-6810

H6810

The descriptive report for H-6810 is combined with the Descriptive Report for Sheet H-6730. We are, therefore, sending this combined report for the above two sheets with the request that this report be completed from the information which will be furnished with the addendum for H-6730.

Discrepancies:

Latitude 43°41.88' and Longitude 69°57.38'; 1-3 C (red).
Soundings on this line appear to be 2 to 4 ft. too deep.

unimportant in depth involved

Latitude 43°41.50' and Longitude 69°57.20'; 5-6 E (blue), 28½ ft.

Attention is directed to the fathogram on which this sounding appears. This depth was estimated to be 30 ft. (reduced to 28½ ft.) as it runs off the fathogram and could not be read with certainty. However, a shoal in this vicinity is confirmed by a 34 ft. sounding on line 12 - 13 A (red) which was gotten by the Dorsey No. 2, and which falls in the vicinity of the 28½ ft. sounding. *(See Supervisor, A.E. Fish letter May 18, 1943.)*

28½ & 34 ft. sdgs are probably kelp. These sdgs have not been retained. See item 83 SB of Review

This area is covered by wiredrag Sheet No. H-6674, 1941, which shows an effective depth of 49 ft.

Latitude 43°41.40' and Longitude 69°58.50'; 94 G (blue), 189 ft.

This sounding was obtained by the lead line and appears to be about 40 ft. too deep. *sdg was rejected*

Latitude 43°40.32' and Longitude 69°55.60'; 140 G (blue).

The fathogram shows a sounding of 60½ ft. while the lead line sounding is 89 ft. The lead line sounding appears to have been read 5 fathoms too deep. The sounding was plotted as 60½ ft.

Latitude 43°41.90' and Longitude 69°55.30'; 10-11 J (blue).

Fathogram shows a possible stray to 99 ft. just before position 11 J; also a possible stray to 101 ft. on line 14 - 15 J (blue) just south of 11 J. *strays rejected*

Latitude 43°41.83' and Longitude 69°55.10'; 13-14 J (blue).

Fathogram shows a possible stray to 100 ft. just before position 14 J (blue). *strays rejected*

Latitude 43°40.80' and Longitude 69°55.98'; 30 L (Blue).

A sounding on this position is recorded in the sounding record as 118 ft., although the position is not marked on the fathogram. However, if the time as indicated in the sounding record is scaled on the fathogram and the sounding is read on the "A" scale, a reading of 39 ft. (reduced to 31 ft.) is obtained. This latter depth is in accord with the surrounding hydrography. The sounding on position 30 L is not plotted on the smooth sheet.

probably error in scaling 118. Sdg not needed

** off-hand*

5
-2-

H6810

Latitude 43°41.40' and Longitude 69°57.40'; 36 - 37 A (red).
The 31 foot sounding recorded in the sounding record was not plotted on the smooth sheet as it appears to be a stray.

stray / rejected

Respectfully submitted,



Isadore M. Zeskind
Associate Cartographic Engineer

Norfolk, Va.
June 10, 1943

Approved and forwarded



Paul C. Whitney
Supervisor, S. E. District

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H8810**

Records accompanying survey:

Boat sheets ..1.; sounding vols. ...9; wire drag vols. ...0.;
 bomb vols. 0....; graphic recorder rolls .9...;
 special reports, etc. None.....

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

| | |
|---|--|
| Number of positions on sheet | .1590. |
| Number of positions checked | .21.. |
| Number of positions revised | ..0.. |
| Number of soundings recorded | 13200 Approx. |
| Number of soundings revised (refers to depth only) | ..4.. |
| Number of soundings erroneously spaced | ..0.. |
| Number of signals erroneously plotted or transferred | ..0.. |
| Topographic details | Time |
| Junctions | Time .16 hrs |
| Verification of soundings from graphic record | Time |
| Verification by <i>Levy King</i> | Total time 140 1/2 hrs Date <i>July 27, 1943</i> |
| Review by <i>R.H. Caspers</i> | Time .49 1/2 Date <i>Aug. 6, 1943</i> |

H6810

| | Remarks | Decisions |
|----|------------------------|----------------|
| 1 | | |
| 2 | | 436700 U.S.G.B |
| 3 | | 436699 |
| 4 | | " |
| 5 | | 437699 |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | Location of tide staff | |
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| 27 | | |

GEOGRAPHIC NAMES
 Survey No. **HC810**

| Name on Survey | Source | | | | | | | | | | | |
|----------------------|--------------------------|---|---|---|---|---|---|---|---|--|--|----|
| | A | B | C | D | E | F | G | H | K | | | |
| | On Chart No. | | | | | | | | | | | |
| | On previous survey No. | | | | | | | | | | | |
| | On U. S. Quadrangle Maps | | | | | | | | | | | |
| | From local information | | | | | | | | | | | |
| | On local Maps | | | | | | | | | | | |
| | P. O. Guide or Map | | | | | | | | | | | |
| | Rand McNally Atlas | | | | | | | | | | | |
| | U. S. Light List | | | | | | | | | | | |
| <u>Maine</u> | | | | | | | | | | | | 1 |
| <u>Casco Bay</u> | | | | | | | | | | | | 2 |
| <u>Lumbo Ledge</u> | | | | | | | | | | | | 3 |
| <u>Temple Ledge</u> | | | | | | | | | | | | 4 |
| <u>Charity Ledge</u> | | | | | | | | | | | | 5 |
| | | | | | | | | | | | | 6 |
| | | | | | | | | | | | | 7 |
| | | | | | | | | | | | | 8 |
| <u>Portland</u> | | | | | | | | | | | | 9 |
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| | | | | | | | | | | | | 26 |
| | | | | | | | | | | | | 27 |

Names underlined in red approved
 by Lebeck on 4/16/43

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

} No. H **H6810**
No. T

{ received **June 16, 1943**
registered **June 16, 1943**
verified *July 27, 1943*
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

| ROUTE | | Initial | Attention called to |
|-------|------------------|---------|---------------------|
| 20 | | | |
| 22 | | | |
| 24 | | | |
| 25 | | | |
| 26 | | | |
| 30 | | | |
| 40 | | | |
| 62 | | | |
| 63 | | | |
| 82 | | | |
| ✓ 83 | <i>(Pg 2, 4)</i> | | |
| 88 | | | |
| 90 | | | |
| | | | |
| | | | |

RETURN TO

| | |
|----|-----------------|
| 82 | R.W.Knox |
|----|-----------------|

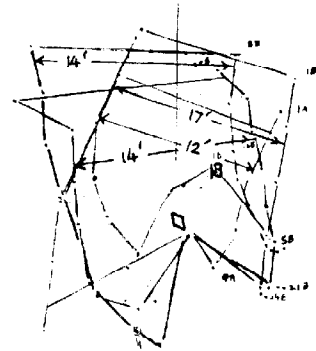
58'

43° 42'

57'

69° 56'

42'



Add. WK. H-6810 (1943)

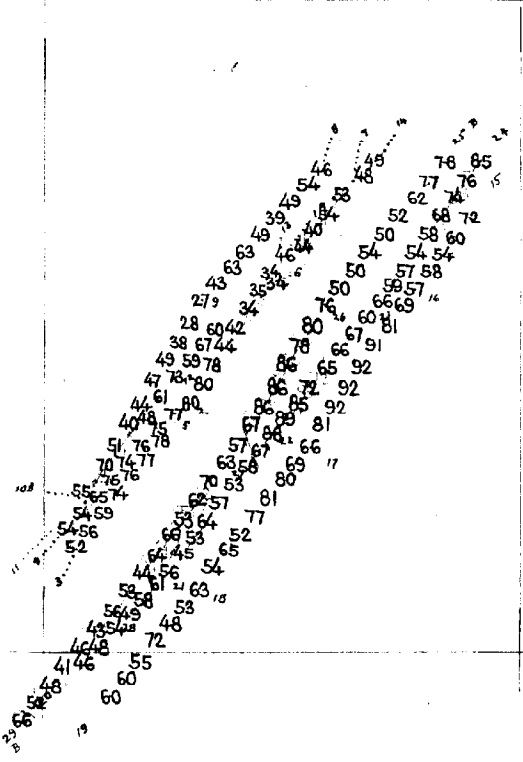
Soundings transferred to smooth sheet

43°-40'

70° 00'

59'

43'



43-42'

Add. Wk. H-6810 (1943)

Scale 1-20 000

Soundings transferred to smooth sheet

41'

82-200K

Charts

6810

*est
jls
HE*

821

22-RCC
1995 LY 4

August 14, 1943

To: Lieut. Comdr. L. P. Raynor
U. S. Coast and Geodetic Survey
P.O. Box 448
Portland 6, Maine

From: The Director
U. S. Coast and Geodetic Survey

Subject: Shoal investigations

Boat sheet No. 6810 is being sent to you for your use in making investigations of doubtful shoal soundings. These soundings were taken from fathograms of portable depth recorders, and because of stray markings on these fathograms it is impossible to make reliable determinations of some of the least depths.

At latitude $43^{\circ} 42.6'$, longitude $69^{\circ} 59.7'$, there is an 8-foot sounding and at latitude $43^{\circ} 42.5'$, longitude $69^{\circ} 59.55'$, an 18-foot sounding which should be verified. It would be desirable to clear these soundings with the wire drag, but it is believed that they fall in the area which the military authorities have requested you not to drag. If such is the case, additional investigation for least depth should be made, using the hand lead. In this same general vicinity there are indicated in red on the boat sheet some split lines which should be run.

The 10-foot sounding on Lumbo Ledge is questionable because of stray markings on the fathogram and because this area was not covered on sheet H-6674 (1941) wire drag. It is probable that you can verify this sounding by using the hand lead, but if any doubt exists, the wire drag should be used.

*10' disproved
by W.D.
9/27/43*

These investigations shall be accomplished this season when your field parties are operating in these localities.

J. H. HAWLEY

Acting Director

CC: LYDONIA (3)
Supervisor, Maritime New York
Charts

22/MEK
1995 LY 4

80
82
83
82
821 HAE

204
06
58

May 20, 1943.

To: Commanding Officer,
U. S. Coast and Geodetic Survey
Ship LYDONIA,
P. O. Box 448,
Portland, Maine.

From: The Director,
U. S. Coast and Geodetic Survey.

Subject: Questionable shoal sounding on Hydrographic Sheet
H-6810, 1942.

85
Enclosed are a copy of a letter received from the Supervisor of the Southeastern District, and a copy of a portion of sheet H-6810, covering an area in which there is a questionable sounding of 28½ feet. The Supervisor stated in his letter that a sounding of 34 feet was obtained on the Dorsey Fathometer No. 2 in the same vicinity, and by inspection of this area it is noted that there are other soundings indicating that there is a shoal in this position, although it is not clear as to how the wire drag set at 49 feet could have passed over the 28½-foot spot. When work is taken up in this vicinity, you shall make an investigation of this shoal by drift sounding, and check the minimum depth by using the hand lead. If a depth of less than 49 feet is found, the wire drag should again be used so that this shoal can be considered satisfactorily covered by the wire drag.

The use of scales on the 808 fathometer, as described in paragraph 2 of the Supervisor's letter, is not the proper procedure, and reference is made to paragraph 3112 (d) Depth Units - Chapter 3. Hydrography, of the new Hydrographic Manual, which reads as follows:

87
(d) When shoal-water graphic-recording echo-sounding instruments, which can be operated to record in either feet or fathoms, are used in areas of irregular bottom, where numerous changes of phases would be required for soundings in feet, the first phase in feet shall be used to its limit (about 50 feet) but fathoms shall be used for greater depths."

(Signed) L. O. COLBERT

Enclosures.

Director.

cc. Supervisor, Southeastern District
Division of Charts ✓

COPY

DEPARTMENT OF COMMERCE
U. S. Coast and Geodetic Survey
Southeastern District Headquarters
1001 Monticello Avenue
Norfolk, Virginia

May 18, 1943

To: The Director
U. S. Coast & Geodetic Survey
Washington, D. C.

From: Supervisor, Southeastern District
U. S. Coast & Geodetic Survey

Subject: Questionable shoal sounding on Hydrographic
Sheet H-6810, 1942.

There is attached a tracing of a section of the Hydrographic Sheet H-6810 now being processed at this office.

There is a shoal sounding of $28\frac{1}{2}$ ft. shown thereon which probably needs further investigation for the following reasons: The sounding was obtained on a line in which the 808 fathometer was used. Just before the sounding was obtained the D scale was being used. As the bottom shoaled the scale was shifted to the C scale and then quickly to the B scale but not to the A scale. The sounding was taken at the top of the fathogram as 30 ft. which reduces to $28\frac{1}{2}$ ft.

On another line a sounding of 62 ft. was obtained practically over the $28\frac{1}{2}$ -ft. by Dorsey No. 2. On a second line a sounding of 34 ft. was obtained on Dorsey No. 2. The reduced soundings being as follows on this line: 64.7, 59.7, 34.2, 88.2. A sounding of 80 ft. was obtained just southeast of the $28\frac{1}{2}$ ft.

What makes it hard to believe that a $28\frac{1}{2}$ -ft. shoal exists here, however, is that this area was covered by wire-drag survey WD-H-6674 of 1941 where the drag passed over the spot set for 49 ft. No mention of this shoal is made in the descriptive report of the sheet left at this office by Comdr. Meaney.

There may be a possibility that the sounding on the fathogram of $28\frac{1}{2}$ ft. is a stray, but the record for the sounding is as strong as any on the fathogram. To throw out the 28-ft., the 34-ft. sounding on the Dorsey will also have to be thrown out.

This information is sent you in case you desire further development on this spot in the season 1943.

/s/ Paul C. Whitney

Paul C. Whitney
Capt. U.S.C. & G.S.
Supervisor

PCW/c

TIDAL DATA

SHEETS H-~~6790~~ and H-6810

In accordance with the Director's letter of September 26, 1942, ref. 36-McC, the tide records obtained from the Portland, Me., primary station, without time or range allowances were used for the reduction of sounding on these surveys.

200
HCE

Form 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

June 21, 1943

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
9 volumes of sounding records for


HYDROGRAPHIC SHEET 6810

Locality Off Bailey Island, Casco Bay, Maine

Chief of Party: C. D. Meaney in 1942
Plane of reference is mean low water reading
8.6 ft. on tide staff at Portland
19.0 ft. below B. M. 31

Height of mean high water above plane of reference is 8.9 feet
at Portland.

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-6810

Field No. 8

Maine, Casco Bay, Lumbo and Temple Ledges
Surveyed in August - September 1942; Scale 1:20,000
Instructions dated May 7, 1941

Soundings:

808 Fathometer
Dorsey Fathometer

Control:

Three-point fix on shore signals

Chief of Party - C. D. Meaney
Surveyed by - Ship's Officers
Protracted by - M. J. Langley
Soundings plotted by - M. J. Langley
Verified and inked by - L. King
Reviewed by - R. H. Carstens
Inspected by - H. R. Edmonston, August 7, 1943

1. Shoreline and Signals

The shoreline and most of the signals originate with T-5960, T-5970 and T-5971 of 1941 and graphic control survey T-6851 (1941). Signals NICK, CON, TOM, BUN and ARMY were located on a graphic control sheet which is still unregistered.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Junctions with Contemporary Surveys

Satisfactory junctions were made with H-6732 (1941) and H-6661 (1941) on the west. The junction with H-6730 (1942) on the east will be considered in the review of that survey. There are no contemporary surveys to the north or south registered at the present time.

5. Comparison with Prior Surveys

- a. H- 664 (1857-58) 1:40,000
 H- 857 (1864-65) 1:10,000
 H-972b (1868) 1:10,000

Agreement with these early surveys is in general fairly good, although some depths differ by as much as 2 fathoms probably because of the displacement of soundings on the irregular bottom. The following soundings charted on chart 315 from H-664 are probably erroneous and should be disregarded:

1. The 13-1/2 fathoms in Lat. 43°42.5'; Long. 69°56.3' charted as 81 feet falls in present depths of 109 feet. The sounding follows several no-bottom soundings and is possibly a no-bottom sounding itself.
2. The line, pos. F-22 to F-24 in Lat. 43°42.25'; Long. 69°56.5' from which an 88 and two 99-ft. depths are charted disagrees with cross lines by as much as 4 fathoms and with depths of the present survey by about the same amount.
3. The 11-3/4-fm. sounding in Lat. 43°41.1'; Long. 69°54.0' charted as 70 feet falls in depths of 116 feet on the present survey. In the sounding record the 11-3/4-fm. sounding followed a series of 21-fm. soundings and may have been misread.

The present survey adequately reveals all the hydrographic information shown on the prior surveys and should supersede them within the common area.

- b. H-6662 (1941) W.D., 1:20,000
H-6674 (1941) W.D., 1:20,000

With the following exceptions the present survey depths are in satisfactory agreement with the effective depths from these wire drag surveys: in Lat. 43°41.07'; Long. 69°55.5' a 34-ft. sounding was cleared by an effective depth of 36 feet and in Lat. 43°41.25'; Long. 69°55.2' a 36-ft. sounding was cleared by an effective depth of 36 feet. Uncertainty with regard to the exact value of the lift of the drag and difficulty in interpreting the fathogram are probably the causes of the discrepancies. The shoaler depths from the present survey have been retained.

The 28-1/2-ft. sounding in Lat. 43°41.42'; Long. 69°57.21' discussed in correspondence attached to the Descriptive Report was cleared by an effective depth of 49 feet, and is probably in error. The fathograms show markings which do not appear to be reflections from the bottom and may possibly indicate kelp. Additional soundings are to be taken on this shoal in 1943 and should the 28-1/2-ft. depth be verified it will be added to the sheet. *28 1/2 ft. disapproved 8/27/43*

6. Comparison with Chart 315 (Latest print date 5-15-43)

a. Hydrography

The charted hydrography within the area of the present survey originates largely with the previously discussed surveys which need no further consideration.

The 11-ft. depth on Charity Ledge in Lat. 43°42.9'; Long. 69°59.35' originates with chart letter 160 (1928) and is verified by the 11-ft. sounding of the present survey. *Additional detail, Review H-6922 (1943)W.D.*

The 8-ft. sounding on Lumbo Ledge probably originates with Letter 2599 (1889) of the Hydrographic Inspector's Office. The present survey depth of 10 feet is questionable because of kelp markings on the fathogram. *Lumbo Ledge cleared to 14' by W.D. 8/27/43*

The 19-ft. hand correction in Lat. 43°40.9'; Long. 69°53.1' originates with the present survey prior to review. The sounding is probably a reflection from kelp and was cleared by the wire drag to an effective depth of 34 feet. The sounding has not been retained on the smooth sheet and should be deleted from the chart.

The 8-ft. sounding and the 18-ft. sounding in the vicinity of Lat. 43°42.5'; Long. 69°59.6' and the 19-ft. sounding in the vicinity of Charity Ledge are hand corrections from the present survey. *17ft } Review
18-43ft } H-6922
19 28ft } (1943)W.D.
12/4/44
G.F.J.*

The 39-ft. depth in Lat. 43°41.4'; Long. 69°57.2' originating with chart letter 69 (1943) is actually the 28-1/2-ft. sounding from the present survey referred to in the correspondence attached to the Descriptive Report. See item 5B of the Review.

b. Aids to Navigation

The present survey position of aids to navigation is in satisfactory agreement with the charted position. Complete descriptions of the buoys are lacking, in certain cases, in the sounding records.

7. Condition of Survey

Satisfactory, except that a list of fathometer corrections was not included in the sounding records and no attempt was made by the field party to investigate any of the apparent stray markings on the fathograms by methods other than by the use of the fathometer. A number of these stray markings have been disproved by the wire drag survey H-6674 (1941) but in areas not covered by the wire drag a number of critical soundings arising from these questionable markings are still in need of investigation. (See item 9 of the review.)

8. Compliance with Instructions for the Project

Satisfactory.

9. Additional Field Work Recommended

Instructions have been issued in the correspondence to the Commanding Officer, Ship LYDONIA, dated May 20, 1943, pertaining to the investigation of the 28-1/2-ft. sounding in Lat. 43°41.45'; Long. 69°57.2'.
Investigated 8/27/43 No depths less than 58 ft. found. 28' disproved.

The present survey depth of 10 feet on Lumbo Ledge is questionable because of the kelp markings and strays on the fathograms. It is recommended that the wire drag be used to find the least depth on this shoal. The area was not covered on H-6674 (1941) W.D. due to the buoy not being lifted.
cleared to 14', grounded at 17 ft. 8/27/43

The 8-ft. sounding in Lat. 43°42.6'; Long. 69°59.7' and the 18-ft. sounding in Lat. 43°42.5'; Long. 69°59.55' may be stray markings on the fathograms and should be investigated by the wire drag. *8 ft., 18 ft., and a 19 ft. disproved by H-6922 (1943) W.D. 12/4/44 - S.F.D.*

An additional split line would be desirable in Lat. 43°42.45'; Long. 69°59.65'. *Accomplished 8/27/43*

10. Superseded Surveys

- H-664 (1857-58) in part
- H-857 (1864-65) " "
- H-972b (1868) entirely

Examined and approved:

Robert W. King
Chief, Surveys Branch

J. S. Borden
Chief, Division of Charts

Earl O. Hester
Chief, Section of Hydrography

G. H. Rude
Chief, Division of Coastal Surveys

Work already accomplished 50 ft. 9/4/43

LQC
HCC

TIDE NOTE FOR HYDROGRAPHIC SHEET

November 4, 1943

~~Division of Hydrography and Topography:~~

Division of Charts: **Attention:** H. R. EDMONSTON

Plane of reference approved in
4 volumes of sounding ~~records for~~ **wire drag**

HYDROGRAPHIC SHEET 6810 - Add'l. Wk.

Locality **Casco Bay, Maine.**

Chief of Party: **J. H. Brittain in 1943**
Plane of reference is **mean low water reading**
8.6 ft. on tide staff at Portland
19.0 ft. below B. M. 31

Height of mean high water above plane of reference
is 8.9 feet.

Condition of records satisfactory except as noted below:

E. K. Green

Chief, Division of Tides and Currents.

Applied to Reconstruction of Ch. 315 - after review 10/26/43 - JFW.

No Correction to Ch. 201 (after review) 11/2/43 - JFW

Applied to Cht. 314 Oct. 29, 1943 - K.P.R.

Ad. wk. 1943 applied to Reconstruction of Ch. 315 - (no review) 11/17/43 - JFW
(to be made)

Partially applied to Cht 1204 after review AFS May 11/44

" " " " 1000 thru Cht 1204 AFS 9/1/44

Applied to Reconst. 314 (thru 315) Everett 1945-1946