

FE 159

Diagram No. 1210-3

NOAA FORM 76-35A

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

DESCRIPTIVE REPORT (HYDROGRAPHIC)

Type of Survey ... Field Examination

Field No.

Office No. FE-159

LOCALITY

State ... Massachusetts

General Locality

Locality ... Buzzards Bay

1957

CHIEF OF PARTY
C.A. Schoene

LIBRARY & ARCHIVES

DATE ... August 21, 1957

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

NOTE: A new system for registering Field Examinations (FE's) was established in 1980. All FE's are now consecutively numbered as shown hereon. The date shown in the new format is the actual date of survey. This material was previously registered as;

FE No.18, 1957

FE 159

F E No. 18
1957

FE-159

Diag. Cht. No. 1210-3.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Special Hydro. Investiga-
tion

Field No. Office No. F.E. No. 18
(1957)

LOCALITY

State Massachusetts

General locality

Locality Buzzards Bay

194 57

CHIEF OF PARTY

C. A. Schoene

LIBRARY & ARCHIVES

DATE August 21, 1957

B-1870-1 (1)

F E No. 18
1957

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

FE 18(1957)

POST-OFFICE ADDRESS:

USC&GS SHIP GILBERT
P.O. BOX 724
Woods Hole, Massachusetts.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

22 July 1957

To: The Director
Coast & Geodetic Survey
Washington 25, D.C.

Subject: Special Investigation - Buzzard's Bay.

Reference: Letter dated 19 September 1956 and
Letter dated 9 May 1957.

Reported grounding
at $41^{\circ}33'07''$ λ $74^{\circ}46'15''$
Coastal Survey
has letters

The investigation called for in the reference instructions was made on the 16th and 17th of July.

A system of sounding lines spaced about 80 meters apart was run over the entire area using one shoran arc to control the lines and the line spacing. Visual fixes on prominent objects shown on Chart 249 were used to control the position of the ship along the shoran arcs. The line spacing was reduced to 40 meters or less for the area in the vicinity of the charted 31 foot sounding.

There was no indication of a shoal in the area of the reported grounding. The charted 31 foot sounding was not verified, but shoal indications were found and some strays or side echoes picked up by the fathometer in that vicinity. About an hour was spent drifting over the area and taking soundings with the hand lead. If the 31 foot sounding is actually there, it evidently does not cover a very large area.

$41^{\circ}33'07''$ λ $74^{\circ}46'15''$
 32 ft sdg. in
 $41^{\circ}33.05''$
 λ $74^{\circ}46.5''$
(39-40A)
Plotted on
Boat sheet

The soundings were reduced for plotting on Chart 249 by using the predicted tides "West Island (West Side)" station No. 618 in Buzzard's Bay, on the NEWPORT standard station. No Fathometer corrections were applied. The shoran distances were calibrated against a visual fix on Chart No. 249, but no corrections applied.

Chart No. 249 showing the positions and some of the soundings, and one sounding volume are being forwarded under separate cover. It is recommended that any additional investigation in this area be done with a wire drag survey.

WD
Instructions
dated
6 Aug 1957

Charles A. Schoene
Comdg. Ship GILBERT

cc: Boston District Officer Charted 31' sdg from H-3556 WD

WD H-3391 shows position of grounding at $41^{\circ}33'07''$ λ $74^{\circ}46'15''$ to be cleared 34-40 f but plotting of adjacent area in error.

23

MB

in Coastal Surveys Division

22/MB

Under

✓ 8-1-51

19 September 1956

D-1-50

To: Commanding Officer
USCGC GILBERT
P. O. Box 724
Woods Hole, Massachusetts

Subject: Special investigation

Enclosed is a copy of a letter from the Boston District Officer which is self-explanatory.

If a sufficient number of objects are visible from the position of the grounding referred to in the Boston District Officer's letter, an area covering one square mile centered on latitude $41^{\circ} 33' 07''$, longitude $70^{\circ} 46' 15''$, shall be investigated prior to departure from Woods Hole. Chart 249 shall be used as the best sheet.

The line spacing for this investigation shall not exceed 100 meters, and all indications shall be developed. The 31-foot sounding, approximately 500 meters, 250° true, from the reported grounding shall also be developed.

The primary tide station at Woods Hole shall be used for the reduction of soundings. Hourly heights will be furnished upon request.

Two copies of chart 249 and triangulation data for the area will be furnished under separate cover.

The receipt of this letter shall be acknowledged.

(Signed) Robert W. Knox

Assistant Director

cc. Boston District Officer
Norfolk District Officer
Chart Division

Enclosure

9 May 1957

Under

To: Commanding Officer
U.S.C. & G.S. Ship GILBERT
P.O. Box 724
Woods Hole, Massachusetts

Subject: Special Investigation

Reference: (a) Letter dated 19 September 1956, copy
attached

By reference (a) the Commanding Officer, Ship GILBERT, was instructed to conduct a special investigation of a reported shoal and 31-foot sounding in Buzzards Bay prior to the close of the 1956 field season.

Since the necessary field work was not accomplished in 1956, this investigation is again assigned to your command. This obstruction lies on or near the center of the channel and is a serious menace to navigation. It is requested that an examination of the reported shoal be accomplished in the near future and results forwarded immediately to this office.

(Signed) Charles Pierce

Acting Director

cc: New York District Officer
Boston District Officer

83
22 (2)

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

17 September 1957

Plane of reference approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET F E No. 18 (1957)

Locality Buzzards Bay, Mass.

Chief of Party: C. A. Schoene in 1957

Plane of reference is mean low water

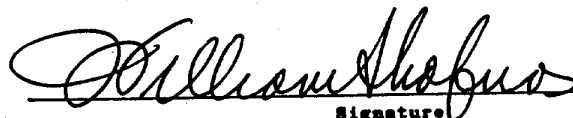
ft. on tide staff at

ft. below B.M.

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:

NOTE: Tide reducers were entered and verified using Newport, R.I. observations with a time difference of +15 minutes and zero height correction.



Signature

Chief, Tides Branch

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~F. E. No.~~ 18
(1957)

Records accompanying survey:

Boat sheets; sounding vols. ..1...; wire drag vols.;
bomb vols.; graphic recorder rolls 1-Envelope
special reports, etc. 1-Chart with soundings plotted,.....
.....

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

Number of positions on sheet	.....	134
Number of positions checked	.....	7
Number of positions revised	.....	0
Number of soundings revised (refers to depth only)	.....	1
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	.....0
Junctions	Time	.....0
Verification of soundings from graphic record	Time	.....1

Verification by *J. J. [Signature]* Total time 11 Date 1-24-58

Reviewed by *J. J. [Signature]* Time 2 Date 1-27-58

REVIEW OF FIELD EXAMINATION NO. 18, 1957

The field examination was made in compliance with the Director's letters dated 19 September 1956 and 9 May 1957.

The purpose of the examination was to verify or disprove a reported grounding in lat. $41^{\circ}33'07''$, long. $70^{\circ}46'15''$, and the charted 31 ft. sounding 500 yards, 250° true, from the reported grounding in Buzzards Bay, Massachusetts. The instructions stated an area one square mile centered on the reported location of the grounding should be investigated.

The results of the field examination are shown on the accompanying section of Chart 249, dated 6 August 1956.

Depths of 44-47 were obtained in the vicinity of the reported location of the grounding.

A depth of 32 ft. was obtained about 40 meters to the eastward of the charted 31 ft. sounding.

↳ 7963

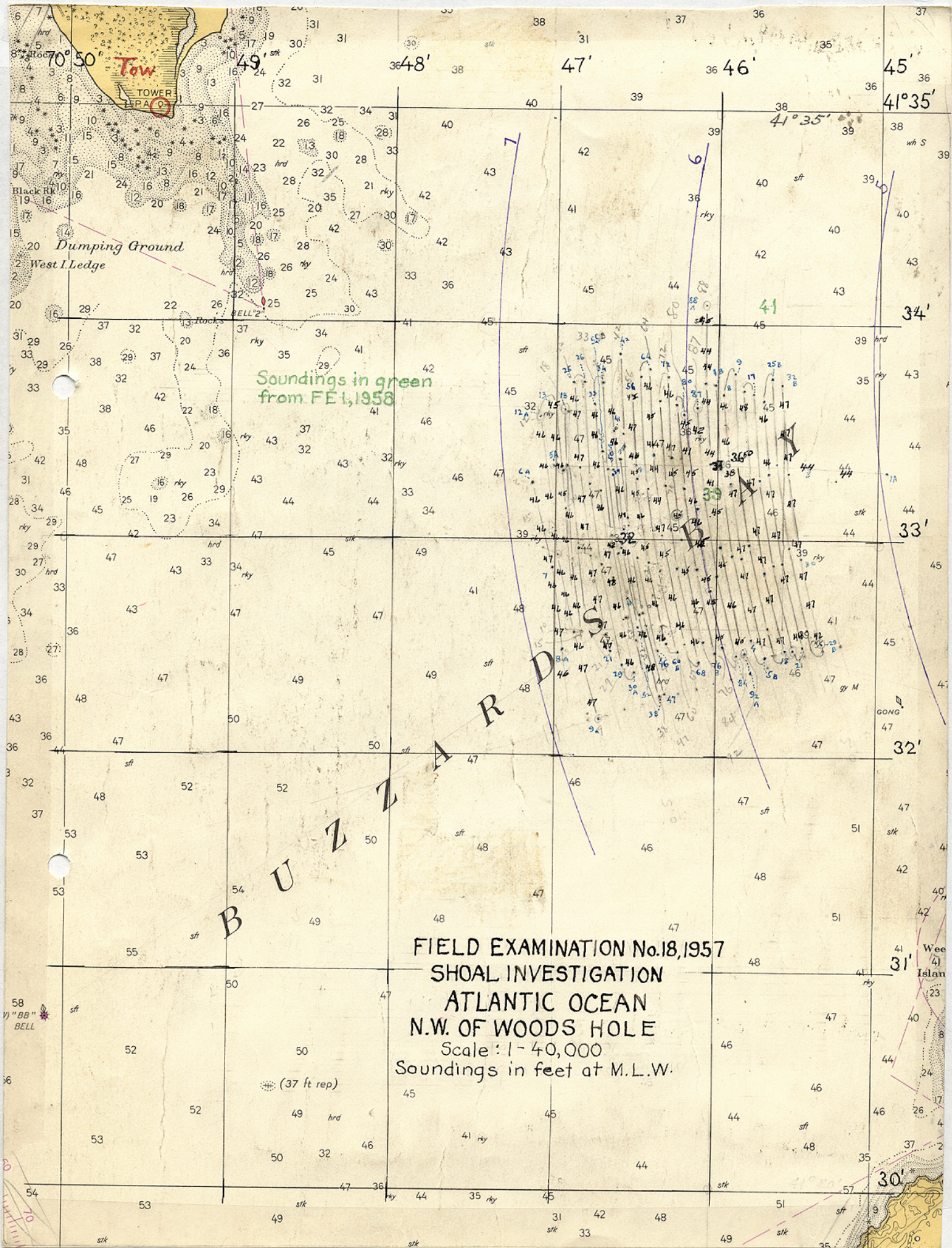
The work has not been charted. A comparison of chart 249 dated 17 June 1957 with the field examination reveals in general only minor 1-3 ft. differences in depths, except in lat. $41^{\circ}33.5'$, long. $70^{\circ}46.2'$, where a charted 36 ft. sounding falls in depths of 42-45 ft. on the field examination.

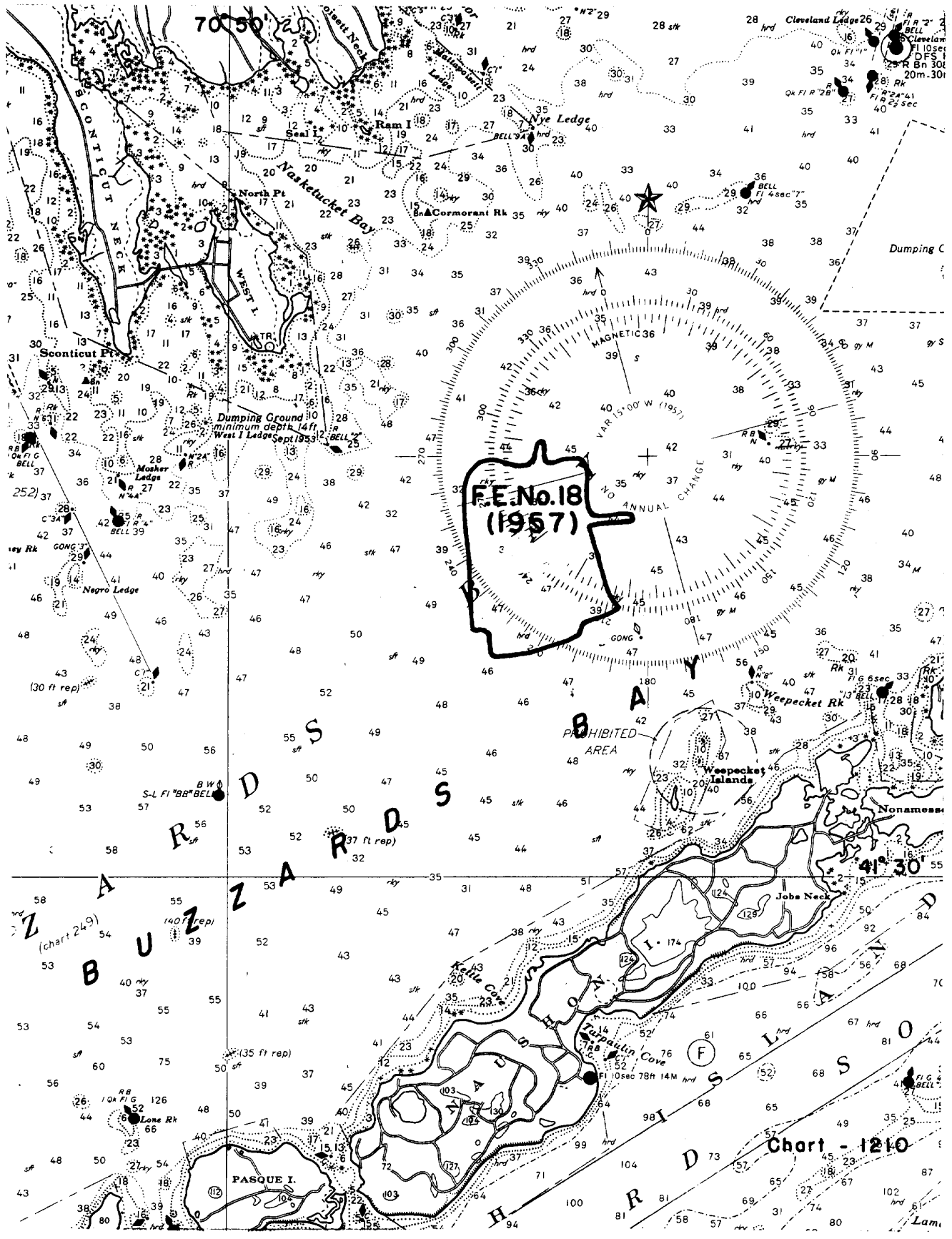
The area is not considered adequately developed by the field examination to verify or disprove the existence of the grounding. The area was subsequently wire dragged on FE 1 (1958).

The Descriptive Report and attached correspondence cover all matters pertaining to this examination. No further discussion is considered necessary.

Reviewed by: I. M. Zeskind
24 January 1958

Inspected by: R. H. Carstens





NAUTICAL CHARTS BRANCH

SURVEY NO. F.E.No.18
(1957)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
Oct 7, 1957	1210	Benson	Before After Verification and Review <i>No correction</i>
30 Jan '58	252	H. E. MacEwen	Before After Verification and Review <i>No correction</i>
4-15-58	249	A. J. Hoffman	Before After Verification and Review <i>No correction</i> 3rd
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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.