

FE51

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Additional Work

FE51

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Additional Work

NOAA FORM 76-35A	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
<i>Type of Survey</i>	Field Examination
<i>Field No.</i>	HI-4045
<i>Office No.</i>	FE-51 & Ad. Wk.
LOCALITY	
<i>State</i>	Virginia
<i>General Locality</i>	Chesapeake Bay
<i>Locality</i>	Entrance to York River
.....	
<u>1945</u>	
CHIEF OF PARTY J.H. Brittain	
LIBRARY & ARCHIVES	
DATE	1945

☆U.S. GOV. PRINTING OFFICE: 1980-766-230

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. 2 & Ad. Wk. 1945

F E No.2 1945

Feb. 1945

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. HI-4045 Office No.

LOCALITY

State VIRGINIA

General locality CHESAPEAKE BAY

Locality ENTRANCE TO YORK RIVER

194 5

CHIEF OF PARTY

John H. Brittain

LIBRARY & ARCHIVES

DATE

F E No.2 1945

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. F.R.No. 2, 1945

Field No. HI-4045

State VIRGINIA

General locality CHESAPEAKE BAY

Locality ENTRANCE TO YORK RIVER

Scale 1-40,000 Date of survey Feb. 26-28, 1945
visor, S.E. District.

Instructions dated March 23, 1945, Telephonic; Chief of Coastal Surveys to Super-

Vessel HILGARD

Chief of party John H. Brittain

Surveyed by Ship's Officers

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

Protracted by A. Kaupa

Soundings penciled by A. Kaupa

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

REMARKS: This sheet was processed in the Hydrographic Section, S.E. District,
Norfolk, Va.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY NO. HI-4045 (Field)

This descriptive report is written in lieu of one by the field party. ✓

INSTRUCTIONS:

This survey was made at the request of the Commandant of the Fifth Naval District, Norfolk, Virginia. Authority to perform this survey was granted by the Chief, Coastal Survey, to the Supervisor of the Southeastern District, during a telephonic conversation on February 23, 1945. ✓

LOCALITY:

This is a survey of the entrance to York River, Va. The purpose of the survey was to ascertain whether or not a naval vessel drawing 32 feet could pass out of the entrance of the York River. ✓

CONTROL & SIGNALS:

Previously established triangulation stations supplemented by hydrographic signals obtained by sextant cuts or fixes were used throughout this survey. ✓

SURVEY METHODS:

The usual method of three-point fixes were used throughout this survey. The soundings were obtained by means of the 808 Fathometer. ✓

SMOOTH PLOTTING:

A preliminary tracing of the survey showing characteristic soundings was furnished the Commandant of the Fifth Naval District at Norfolk, Va., on March 3, 1945. During the course of the survey the U. S. Coast Guard moved buoy S 31 N from the location of Hydrographic Signal SPAR to the location of Hydrographic Signal BOO. (1 Qk Fl W) Bell buoy was moved from the location of Hydrographic Signal BELL to the location of Hydrographic Signal NEW. ✓

Attention is directed to the least depth of 31.8 ft., which lies very close to the middle of the channel between Buoy S 31 N and (1 Qk Fl W) bell buoy. This 31.8 ft. sounding falls in the vicinity of 36 ft. as shown on Chart No. 494. This shoal spot may be the obstruction now plotted on the chart somewhat northward. No indication of this obstruction was found during this survey.

Plotted
32 ft.
(charted as a
hand correction)

LIST OF SIGNALS
SHEET HI-4045

Triangulation Stations

YORK SPIT L.H., 1900 - 1932
(OLD) BACK RIVER L.H., 1852, 1932
FOX HILL MUNICIPAL WATER TANK, 1939
THIMBLE SHOAL L.H., 1919 - 1935

Hydrographic Signals

Bell	Key
Boo	New
Can	Spar
Joe	Trap

Washington Office
March 27, 1945

The survey has been verified and inked and is attached to this report. It has been compared with Chart ~~594~~ ⁴⁹⁴ (Print of Dec. 30, 1944) and with old surveys H-4038 (1918) and H-2866 (1906-07). A 30-ft. depth charted in Lat. $37^{\circ}07.7'$, Long. $76^{\circ}11.8'$ appears dubious on H-2866 and is not verified by H-4038 or the present survey. It can be removed from the chart. The obstruction charted in Lat. $37^{\circ}08.5'$, Long. $76^{\circ}12.0'$ still remains to be investigated by wire drag.

J. A. McCormick.
H. W. M.

CROSSINGS:

The crossings are in excellent agreement. The maximum discrepancy noted is about 1 foot.

TIDAL DATA:

These soundings were reduced to M.L.W. using the Old Point Comfort, Virginia, primary station, direct.

STATISTICS:

<u>Vol.</u>	<u>Day Letter</u>	<u>Date</u> <u>1945</u>	<u>No. of</u> <u>Positions</u>	<u>Statute</u> <u>Miles of sounding</u>
1	A	Feb. 26	118	40.2
2	B	Feb. 28	<u>40</u>	<u>15.7</u>
Totals			158	55.9

Total area 5 square statute miles.

NOTE:

The boat sheet on which this survey was accomplished is also being used as a boat sheet for the end launch on Project CS-313 and will be forwarded at the completion of Project CS-313.

Respectfully submitted,

Isadore M. Zeskind
Isadore M. Zeskind
Cartographic Engineer

Norfolk, Va.
March 7, 1945

Approved and Forwarded

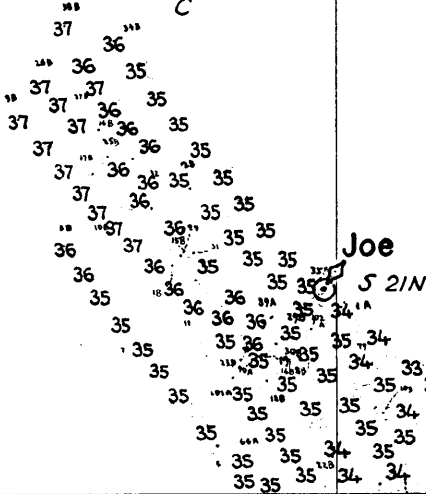
Paul C. Whitney
Paul C. Whitney
Supervisor, S.E. District

14'

76° 12'

FE. No 2. 1945
Part 1

Can



Joe

S 21N

37° 10'

Kay

S 30N

Trap

New (I Qk FI W) BELL

Bell
(temp)

08'

S 31N
Boo
Spar
(temp)

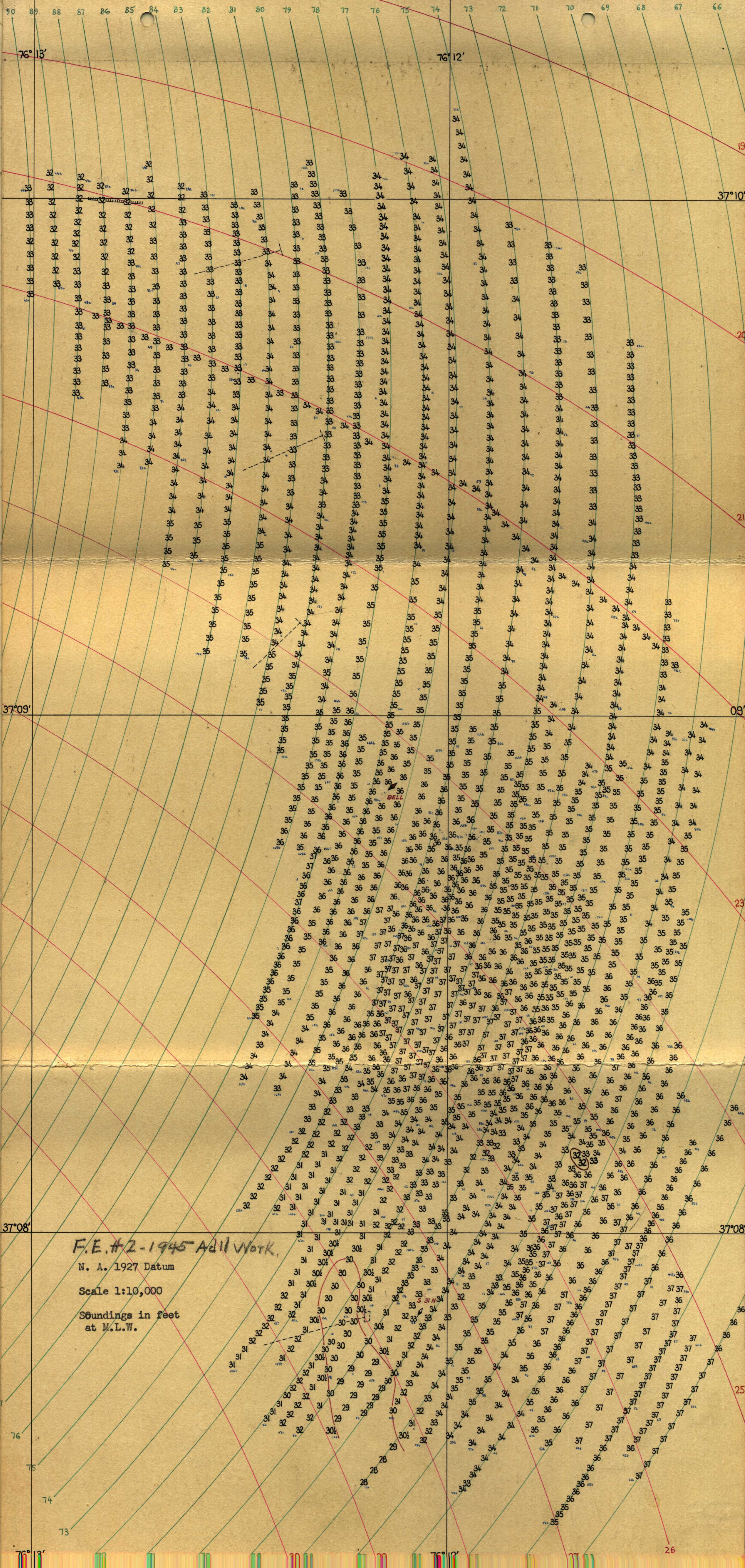
FE No. 2 (1945) Part 1

Scale 1:40,000

Sdgs in ft. at MLW

14'

76° 12'



F.E. #2-1945 Adil Work

N. A. 1927 Datum

Scale 1:10,000

Soundings in feet
at M.L.W.

19

20

21

23

25

26

FENo.2 1945

Addl. Work of Aug. 1945

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. Hi-4045 (add work) Office No. _____

LOCALITY

State VIRGINIA

General locality CHESAPEAKE BAY

Locality ENTRANCE TO YORK RIVER

194 5

CHIEF OF PARTY

Thos B. Reed.

LIBRARY & ARCHIVES

DATE _____

FENo.2
1945

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. F.E.# 2 - Add'l work
1945
Field No. HI-4045 (Add. Work)

State Virginia

General locality Chesapeake Bay

Locality Entrance to York River

Scale 1:10,000 Date of survey August 1 to 3, 1945

Instructions dated 23 July 1945

Vessel COWIE - 25 ft. hydrographic skiff

Chief of party Thos. B. Reed

Surveyed by Clarence R. Reed

Soundings taken by ~~fishhook~~, graphic recorder, ~~incident~~

Protracted by M. E. Byrd

Soundings penciled by M.E. Byrd

Soundings in ~~fishhook~~ feet at MLW ~~MLLW~~

REMARKS: This survey was processed in the Hydrographic Section, S. E. District,
Norfolk, Va.

NOTES TO ACCOMPANY DESCRIPTIVE REPORT FOR SPECIAL
SURVEY IN THE ENTRANCE TO THE YORK RIVER

U. S. C. & G. S. S. COWIE

3 August 1945

These notes were written prior to the processing of the smooth sheet at the Norfolk Processing Office.

- A. This survey was made under instructions from the Director dated 23 July 1945 and in response to a letter dated 19 July 1945 from the Commandant of the Fifth Naval District addressed to the Supervisor, Southeastern District, U. S. C. & G. S.
- B. The survey covers the limits as indicated in red on an ozalid print accompanying the instructions. The work was started on 1 August and completed on 3 August 1945.
- C. The survey was made with a 25 ft. hydrographic skiff.
- D. It is proposed that tide reducers be obtained from the standard tide gage at Old Point Comfort, Virginia.
- E. Signals used for control are as follows:
- | | |
|----------------------------|-----------------------------|
| FOX HILL MUNIC. WATER TANK | (Triangulation, 1939) |
| Tower No. 3 (Observation) | (Radial plot, Feb. 1944) |
| York SPIT LIGHTHOUSE | (Triangulation, 1900, 1932) |
- H & I. 808 depth recorder No. 65 was used for all soundings. The units were installed in a wood block beneath the keel of the skiff. Fixes were plotted using the angular arcs from the three stations listed above. All stations fall off the limits of the sheet. Sounding lines were run along the arcs.
- J. This survey, together with the recent wire drag survey of the area is considered sufficient to disprove the existance of an obstruction in or near the position charted. Agreed.
See attached
copy of
Chart Letter
545 (1945).
- L. A comparison with the prior survey can better be made after the soundings are reduced for actual tide. The soundings on the boat sheet are reduced from predicted tides.

Submitted by

Clarence R. Reed
Clarence R. Reed
Lieut. Comdr., C. & G. S.

The boat sheet and accompanying records for the above survey have been inspected and are approved.

Thos B Reed
Thos. B. Reed
Chief of Party

F.E.#2.1945

A D D E N D U M

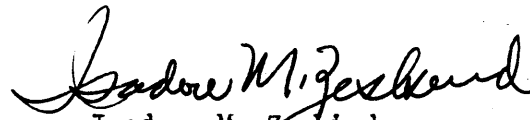
To Accompany

Hi-4045 (Field) Additional Work - Ship COWIE

This additional work accomplished by the Ship COWIE was processed in the Hydrographic Section, Southeastern District, Norfolk, Virginia.

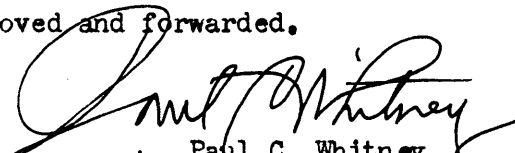
The tidal data was obtained from the Standard Tide Gage at Old Point Comfort, Virginia. No correction for time or height was made.

Respectfully submitted,


Isadore M. Zeskind
Cartographic Engineer

Norfolk, Va.,
August 17, 1945

Approved and forwarded.


Paul C. Whitney,
Supervisor SE District.

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 6, 1945.

~~Division of Hydrography and Topography.~~

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET F. E. No. 2 (1945) Special Project
Hi - 4045 (add work)

Locality Entrance to York River, Chesapeake Bay, Virginia

Chief of Party: T. B. Reed in 1945
Plane of reference is mean low water, reading
2.8 ft. on tide staff at Old Point Comfort
7.8 ft. below B. M. 6

Height of mean high water above plane of reference is 2.5 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY
SOUTHEASTERN DISTRICT HEADQUARTERS
ROOM 418, U.S. POST OFFICE BLDG.
NORFOLK 10, VIRGINIA

17 August 1945.

545

C. J.
8/27/45
83 ph
V.B.P.

22
80
23 *DMC*

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

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

Subject: Hydrographic Examination, Entrance York River.

There is being forwarded this date field data and smooth sheet processed in this office relative to an examination of a charted obstruction at the entrance to York River, done in compliance with Director's letter of 23 July, 1945.

As no evidence was found of this obstruction it is recommended that it be expunged from the chart and a notice be published as early as possible. This recommendation is in line with a conference held recently with the Commandants office.

Paul C. Whitney

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

PCW:H

Applied to ch. 494 9/28/45 d/h.b.

8/24/45

H.O. N. to M. 40 (1943) states that an obstruction was reported to exist in approximate lat. 37°03'30", long. 76°12'00". The H.O. was unable to furnish any details.

The area has been examined three times, twice by sounding and once by wire drag. Captain Whitney's recommendation is concurred with.

J. O. Mc Cormick

545



176 11.36-190-

NAUTICAL CHARTS BRANCH

SURVEY NO. FE No 2 1945

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10/5/45	494	D.H. Benson	Before After Verification and Review
11-23-45	1222	P.H. Andrews	Before After Verification and Review
9 Aug '54	494	Reconst. H. MacLean	Before After Verification and Review <i>Examined - not used.</i>
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

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.