FE108

Diagram No. 5530-5

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. ... B0-1152

Office No. ... FE-108

LOCALITY

State ... California

General Locality ... Suisun Bay

Locality ... Reserve Fleet Anchorage

1952

CHIEF OF PARTY
Robert A. Marshall

LIBRARY & ARCHIVES

DATE ... November 12, 1952

☆ 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;

6-2

FE No.5 1952

FENO.5 FE-108 1952

Diag. Cht. No. 5530-5

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. B0-1152 Office No. F. R. No. 5,

LOCALITY

CALIFORNIA

General locality SUISUN BAY

Locality RESERVE FLEET ANCHORAGE

1952....

CHIEF OF PARTY

Robert A. Marshall

LIBRARY & ARCHIVES

NOV 12 1952

DATE ..

B-1870-1 (1)

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. No. 5, 1952

Field No. B0-1152

State	CALIFORNIA
General locality	SUISUN BAY
Locality	RESERVE FLEET ANCHORAGE
Scale	1: 10,000 Date of survey 5 August 1952
Instructions dated	Director's Letter 22/MEK, S-2-B0,
Vessel	dated 23 July 1952 USC&GS Ship BOWIE
Chief of party	Robert A. Marshall
Surveyed by	Robert A. Marshall
Soundings taken by	fathometer, graphic recorder xhann kenixwira
Fathograms scaled b	y G. E. LaRoche
Fathograms checked	by F. W. Lingenfelter
Protracted by	Robert A. Marshall
Soundings penciled	byRobert A. Marshall
Soundings in XXX	DOWN feet at MINXMLLW and are true depth;
Remarks:	· /

DESCRIPTIVE NOTES

to accompany

Hydrographic Survey No. ₩ FE No5, 1952

(Field No. BO-1152)

Suisum Bay Scale 1:10,000 Ship BOWIE Reserve Fleet Anchorage
5 August 1952
Robert A. Marshall /
Chief of Party

PROJECT:

The hydrographic survey was conducted in accordance with the Director's Instructions dated 23 July 1952, Reference No. 22/MEK, S-2-BO, and supplemental instructions from the Supervisor, Western District, San Francisco, relative to additional hydrography requested by the U.S. FE5/952 Maritime Commission, San Francisco, in order that a large vessel may be safely maneuvered and anchored in vicinity of the reserve fleet anchorage in Suisun Bay.

SURVEY LIMITS AND DATES:

The survey consists of various hydrographic lines run in vicinity of the vessels anchored in the reserve fleet area in Suisun Bay.

Appended to this report is a blue print copy of a 'tracing made of the boat sheet.

Hydrography was done on 5 August 1952.

VESSELS AND EQUIPMENT:

All hydrography was done with a 45-foot Maritime Patrol Boat, "PF-61", using an 808 fathometer No. S-111. This vessel based at the U. S. Maritime facility, located approximately 1 mile northeast of Benicia.

CONTROL:

Control was furnished by triangulation, "Geographic Positions of Triangulation Stations, California, Zone VII", and from Topographic Sheets T-7136 and T-7137 (Year 1949).

Descriptive Notes to Accompany Hydrographic Survey No. NFE 5.52 Field No. BO-1152: (Continued)

SURVEY METHODS:

Standard methods were used in conducting this survey as prescribed in the Hydrographic Manual.

RESULTS:

No comparison was made with the 1949 surveys.

The results of this survey were adequate for determining a safe anchorage for the SS MONTEREY, an exceptionally deepdraft vessel.

TIDE AND VELOCITY CORRECTIONS:

Tide corrections were obtained from staff readings at the standard tide gage, Benicia, California, Latitude 38° 02.60, Longitude 122° 08.07, in operation at this time. The tide staff readings were recorded in form 277, which accompanies the records for this survey. MLLW corresponds to 4.6 feet on the staff at Benicia, according to records on board the Ship BOWIE. The tides were plotted on coordinate paper and corrections taken directly from the curve. This contains all the tidal data for this survey.

The bar check observations indicate that the velocity ` " correction is zero for all soundings.

Robert A. Marshall

Comdr. USC&GS

STATISTICS

Hydrographic Survey No. * FE5,/952 (Field No. BO-1152)

DAY	VOL. NO.	DATE	NO. POSITIONS	STATUTE MILES
a (red)	1	5 August 195	2 62	11.2

Hydrographic SurveyyNo. # FENo5,1952

(Field No. BO-1152)

LIST OF SIGNALS

Name Used in Hydrographic Survey	Origin of Station
ANT	BENICIA WATER TANK NEAR ARSENNAL, 1949
BAN	Topographic Sheet T-7137
CAM	" "T-7137
DER	" "T-7136
DIA	" "T-7137
EKE	" T-7137
FAR	BENICIA FLAT TOP WATER TANK, 1949
FOR	Topographic Sheet T-7136
GAB	" T-7136
GOODYEAR	GOODYEAR, 1864-78
ITH	Topographic Sheet T-7137
MANX	BENICIA LARGE WATER TANK, 1949
MOC	BULLS HEAD POINT MOCOCO FERTILIZER CO. STACK, 1922, 1939
RYER	RYER ISLAND STACK ON GROUNDED SHIP, 1949
SEM	Topographic Sheet T-7136
SOS	" T-7136
STA	CONCRETE STACK AT OLD SMELTER, 1949
TOP	Topographic Sheet T-7136
WER	CLOCK TOWER FLAGSTAFF, 1909

TIDE NOTE FOR HYDROGRAFHIC SHEET

19 November 1952

Division of Charts:

R. H. Carstens

Plane of reference approved in volumes of sounding records for

HINDRY FRANKLY X X TEXT

FE No. 5 1952

Localityarquinez Strait, Suisun Bay, California

Chief of Party: R. A. Marshall in 1952
Plane of reference is mean lower low water, reading
4.6 ft. on tide staff at Benicia (Arsenal Dock)
45.4 ft. below B. M. 8 (1936)

Height of mean high water above plane of reference is 5.1 feet.

Condition of records satisfactory except as noted below:

E. C. M. Kay
Section of Tides

.

Chief, Division of Tides and Currents.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO.F. E. No. 5, 1952

Records accompanying survey:		
Boat sheets .l; sounding volsl; w	ire drag	g vols;
bomb vols; graphic recorder rolls	l Env.	
special reports, etc! Descriptive Report;	• • • • • •	•••••
•••••••••••	• • • • • •	• • • • • • • • • • • • •
The following statistics will be submitted wirepher's report on the sheet:	th the	cartog-
Number of positions on sheet		. 62
Number of positions checked		.12
Number of positions revised		4
Number of soundings revised (refers to depth only)		2
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		
Topographic details	Time	
Junctions	Time	
Verification of soundings from graphic record	Time	/2.
Verification by	./2.	Date 5-25-53
Reviewed by dufestind Time	5	Date 5-26-53

R. A. Marshall, Commanding

Ship BOWIE

The field examination was made at the request of the U.S. Maritime Commission who wished to know the depth of water in the vicinity of the reserve fleet anchorage in Suisun Bay, California. The authority for the field examination is given in the Descriptive Report.

The field examination in addition to accomplishing the above mentioned purpose also found a safe anchorage for the S.S. MONTEREY, an exceptionally deep draft vessel. The field examination is plotted on the attached section of the boat sheet.

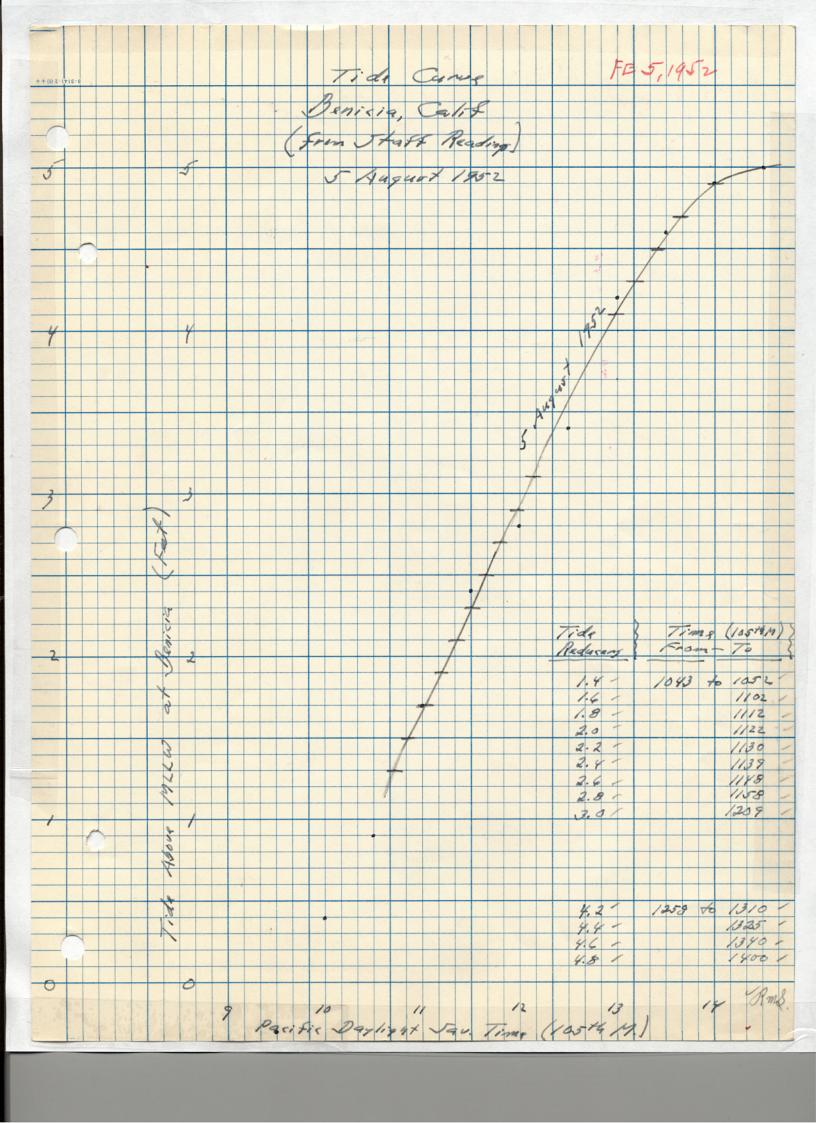
A comparison between H-7786 (1949) and the field examination shows that the bottom has deepened from 2-6 ft., as for example, in lat. 38° 02.86′, long. 122° 07.08′, where a depth of 37 ft. on the field examination falls in prior depths of 31-32 ft.

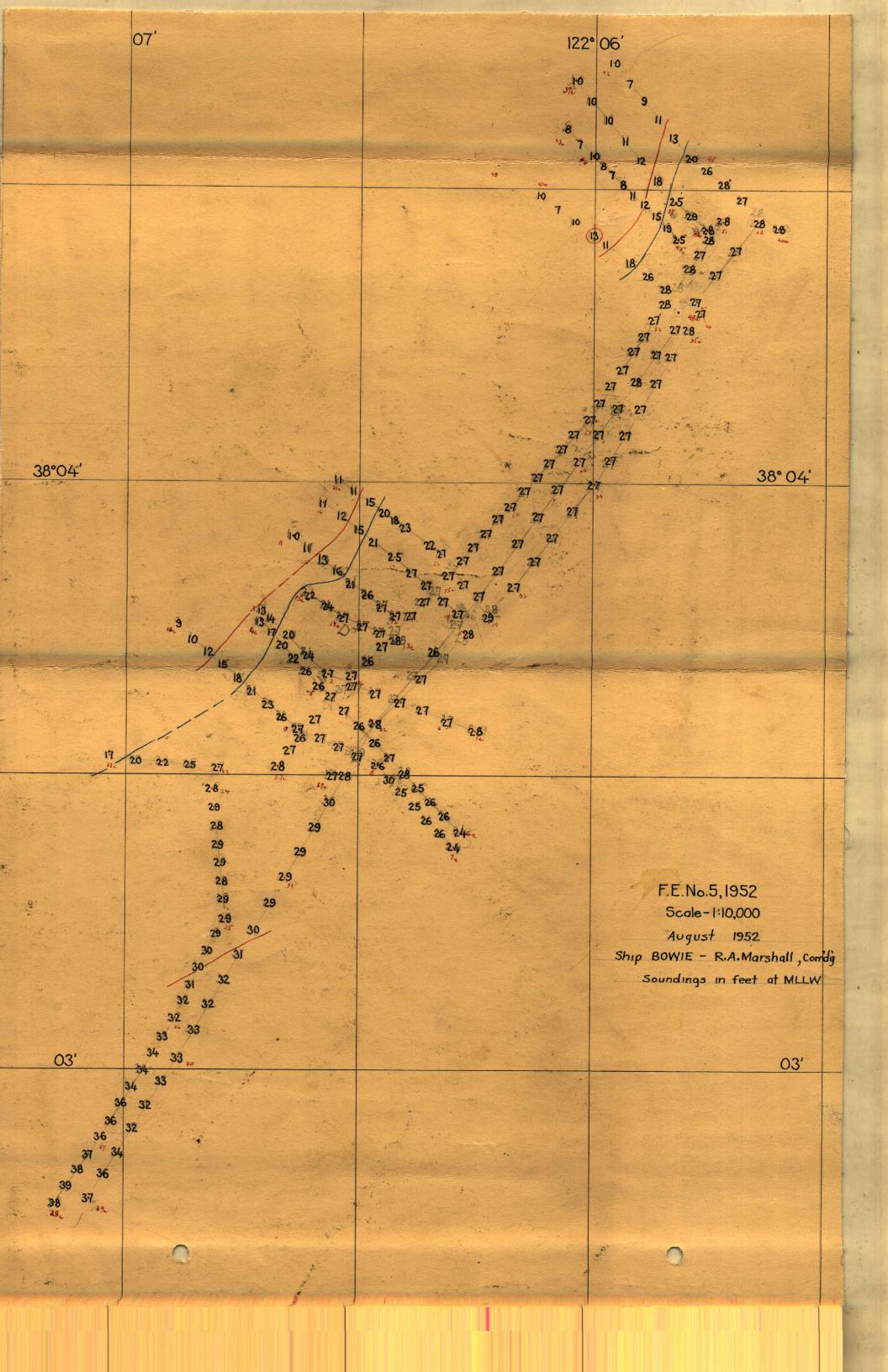
The field examination was applied to chart 5534, dated 9-1-52, prior to verification and review. The charted information is correct, except in the vicinity of lat. 38° 04.45', long. 122° 05.95', where the charted 7-ft. sounding and the 12-and 18-ft. curves should be replotted because of the revision in the location of sounding line 47-48a (red) on the field examination during verification and review.

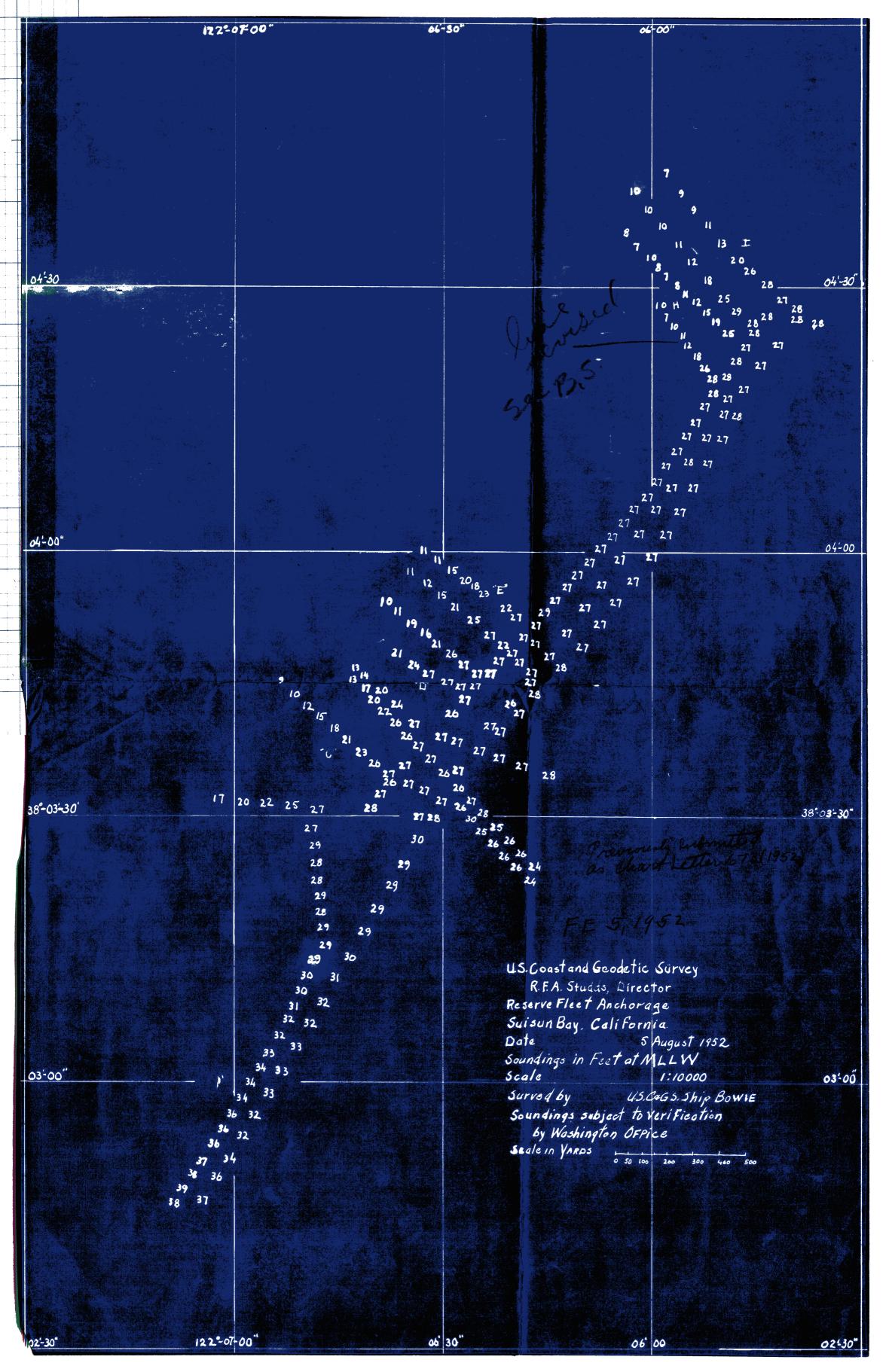
The Descriptive Report adequately covers all other matters pertaining to the examination. No further discussion is considered necessary.

I. M. Zeskind 5-26-53

Inspected by: R. H. Carstens







NAUTICAL CHARTS BRANCH

SURVEY NO. F. E: No. 5, 1952

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10-12-53	5534	R.K. De Lawden	Longlikely applied Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review
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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.

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