

FE95

IMPORTANT

PAGE 22 WAS ADDED TO THIS REPORT
IT IS NOT PART OF THE ORIGINAL
DOCUMENT. IT SHOWS DETAIL MISSING
FROM THE SCAN OF ORIGINAL
DOCUMENT PAGE 21.

Diagram No.77-3

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.	CO-1351
Office No.	FE-95
LOCALITY	
State	Maryland
General Locality	Chesapeake Bay
Locality	Bloodsworth Island
1951	
CHIEF OF PARTY J. Bowie Jr.	
LIBRARY & ARCHIVES	
DATE	May 24, 1951

FE95

☆ 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.4 1951

FE No. 4
1951

FE-95

Diag. Cht. No. 77-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. CO-1351 Office No. FE.No.4, 1951

LOCALITY

State MARYLAND

General locality CHESAPEAKE BAY

Locality BLOODSWORTH ISLAND

1951

CHIEF OF PARTY

J. Bowie, Jr.

LIBRARY & ARCHIVES

DATE MAY 24, 1951

B-1870-1 (1)

FE No. 4
1951

MAY 24 1951

Form 587
(Ed. Nov. 1941)

REG. NO.

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. FE 4,1951

Field No. Co-1351

State Maryland

General locality Chesapeake Bay

Locality Bloodsworth Island

Scale 1:10,000 Date of survey 15 to 17 May 1951

Instructions dated 8 May 1951 *supplemental instructions* Proj: CS-287

Vessel COWI

Chief of party John Bowie, Jr.

Surveyed by Ships Officers

Soundings taken by ~~echo sounder~~, graphic recorder, hand lead, ~~wire~~

Protracted by _____

Soundings penciled by _____

Soundings in fathoms feet at MLW MLLW

REMARKS: _____

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS: Post Office Box 351,
Crisfield, Maryland.

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Ship COWIE

18 May 1951

To: The Supervisor, SE District,
U.S. Coast and Geodetic Survey,
Room 418 Post Office B'ldg.,
Norfolk 10, Va.

Subject: Report on Hydrographic Survey West of Bloodsworth Island,
Md., Sheet CO-1351.

HYDROGRAPHY:

1. Hydrographic investigations were conducted to the westward of Bloodsworth Island during period of 14 - 17 May 1951. Soundings were taken by 808 type portable depth recorders from both the Ship COWIE and Launch 102, supplemented by hand lead in drift sounding over shoal spots. The hydrography was conducted in accordance with standard methods as outlined in the Hydrographic Manual.

2. A system of N & S lines spaced 300 meters were run by Launch 102 eastward of Longitude 76 - 07.0, supplemented by 100 meter lines in the area marked by Item 5 and a close spacing of lines plus drift sounding during the investigation of Items 1, 2, and the 6 foot shoal in Item 5. This hydrography plus the investigation of Item 3 were made on Boat Sheet CO-1351, Scale 1:10,000.

To the westward of Longitude 76 - 07.0, sounding lines were spaced in accordance with the blue lines on the chart section (3330) supplied by your office. The chart section was used as a boat sheet to save time. This area can be plotted to a 1:10,000, scale when the smooth sheet is processed.

88
76

3. The results by this survey are in very good agreement with Chart 3330 and additional surveys are not recommended.

(a) Item 1: A 18 ft. sounding was obtained ³⁷ ~~150~~ meters ^E ~~SE~~ of the ^{14 ft Snd deleted from chart 3330 comes straight} 14 ft. on the chart. A 19 ft. depth was obtained on the 14 ft. spot. Investigated by closely spaced lines and drift sounding.

Recommend correcting chart by deleting the 14 ft. sounding and substituting depths as determined by this survey. ^{Plotted 19 - 70 m E + S of position of former 14 ft charted ad on ch 1224 L.S.S.}

(b) Item 2: A system of closely spaced lines failed to record any indication of this ^{charted} 13 ft. depth. Recommend that the 13 be ~~de-~~ ^{deleted 13 on Chart 1224 432 deleted 13 on chart 3330 GMB} leted from the chart.

(c) Item 3: A system of closely spaced lines failed to record any indication of this ^{charted} 20 ft. depth. Recommend that the 20 be ~~de-~~ ^{deleted 20 from 1224 Plotted 25 ft. at pa 75c Deleted 20 ft from 3330 GMB L.S.S.} leted from the chart.

(d) Item 4: The ^{charted} 20 ft. depth verified. ^{Retains 20 on chart 1224 3330}

(e) Item 5: The ^{charted} 6 ft. depth verified. The area circled in blue covered by a spacing of 100 meter lines. The ^{charted} 5 ft. sounding ^{No change in 1224 180 m} 180 meters W of the Navy tower also verified. ^{Lat. 38° 11.72' Long. 76° 05.77'}

4. The Navy Tower off Okahanikan Pt. is 75 meters SE of the ^{See CL-71, 1951 for position} charted position on Chart 3330. The new position was determined by intersection in 1950 (See Sheet 1250), and verified by sextant fixes this week. There are no dolphins off Okahanikan Pt. except at the base of ^{Plotted from L-71 (1951) ch 3330} the steel tower. A tide staff was established on a dolphin at the tower, zero on the staff was set at M L W. Half-hour readings were made at the staff at low water stage for comparisons with tide gage record.

Vessels over $4\frac{1}{2}$ ft. draft should not attempt to go alongside the tower. If the Navy desires to take deeper draft vessels alongside the tower, consideration should be given to dredging or moving the tower westward.

5. The position of the mooring buoy (Item 6) was determined by sextant angles, and is 20 meters eastward of its charted position. Sounding lines were spaced 100 meters to cover the swing distance of a moored vessel.

*Charted in { Lat. 38° 10.18' }
{ Long 76° 08.42' }*

No correction on chart 1224

The mooring is not recommended for vessels with a draft of over 10 ft. as the mooring is only 400 meters west of the 6 ft. curve. Consideration should be given to moving the mooring buoy a considerable distance to the westward if the Navy desires to moor vessels ^{over} 10 ft. draft to this buoy.

6. The position of a steel pile off Bloodsworth ^{Point} Island was determined by sextant. The pile is about $2\frac{1}{2}$ ft. in diameter at the top and extends about 3 ft. above high water.

*See CL-337
1951
for position*

7. Signals used and origins:

BILLY - (White tripod) - 1942 Air photo

BOB - (" ") - Sextant fix

BRASS - (Observation tower) - Previous triangulation

COW - (" ") - Sheet 1250 and checked by sextant fix.

HOOP - (Hooper Strait L.H.) * Previous triangulation

RAT - (20 ft. hydro signal) - Sextant fix

TOW - (Obs. tower on NE Island) - Previous triangulation

8. The following targets, located by triangulation in 1948, have been destroyed by shell fire ^{or} bombs and no longer exist:

ABE, WILL, WRECK, CAT, DOT, EBB, Target U, and Target S.

The southerly observation tower on Adam Island is down and no longer exists as a landmark for charts. See
CL-337
1951

9. STATISTICS:

VESSEL	DAY LETTER	DATE	NO. POS.	Mi. HYDRO. (STAT.)
Launch 102	a	15 May	131	33.7
" "	b	16 May	99	17.2
COWIE	A	16 May	116	61.0
Launch 102	c	17 May	81	12.7
TOTAL:			427	124.6

AREA - (19.4 Square Statute Miles)

10. TIDAL NOTE.

A portable tide gage was established on Holland Island Bar L.H. 14 May 1951 for tidal control for reduction of soundings.

To reduce the marigram graph to M L W, subtract 1.9 ft. from the tide curve.

Time used is Eastern Standard Time (Both hydro. and T.G.)

The tide gage was dismantled 17 May 1951.

Respectfully submitted,

John Bowie, Jr.
John Bowie, Jr.,
Comdr., USC&GS.,
Comdg. Ship COWIE.

80
83419
839

22/MEK
D-1-SE

25 May 1951

To: Supervisor, Southeastern District
U. S. Coast and Geodetic Survey
418 U. S. Post Office Building
Norfolk 10, Virginia

Subject: Surveys north and west of Bloodsworth and Pone Islands

Ref.: (a) Your letter dated 23 May 1951
(b) Copy of your letter dated 22 May 1951 to the Commanding Officer, Naval Amphibious Training Unit, Norfolk, Virginia.

Receipt is acknowledged of references (a) and (b), describing the hydrographic investigations made by the Ship COWIE north and south of Bloodsworth and Pone Islands, and the forwarding of advance information to the Commanding Officer, Naval Amphibious Training Unit.

The records of this work have been received and examined. The Washington Office will complete processing of the records. A copy of the results will be furnished the Commanding Officer, Naval Amphibious Training Unit after the processing has been completed.

I wish to express my appreciation of the comprehensive and expeditious manner in which you evaluated the needs of the Navy in this area and furnished the required information to Navy authorities.

(Signed) R.F.A. Studts

Director.

cc. Division of Charts ✓

*and preliminary information furnished
and considered adequate per Coastal Survey
of the Amphibious Training Unit
with the Commanding Officer, Norfolk, Va.
Re: [unclear] [unclear] after processing will be
furnished to the Commanding Officer, Norfolk, Va.*

80 ~~21~~
83 ~~21~~
839

attach to report FE 4-1951

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
SOUTHEASTERN DISTRICT HEADQUARTERS
ROOM 418, U. S. POST OFFICE BUILDING
NORFOLK 10, VIRGINIA

23 May 1951

To: The Director
U. S. Coast and Geodetic Survey
Department of Commerce Bldg.
Washington 25, D. C.

Subject: Surveys, North and West of Bloodsworth and Pone Islands.

Enclosed is a copy of a letter written by this office to the Commanding Officer of the Naval Amphibious Training Unit, U. S. Naval Amphibious Base, Little Creek, Norfolk, Virginia, describing the results of the hydrographic investigations in the subject area accomplished by the Ship COWIE during the period between 14 and 17 May. In this letter it has also been stated that upon completion of the final processing of these records, a copy of the results will be furnished to the Commanding Officer of the Naval Amphibious Training Unit.

The records of the work accomplished by the Ship COWIE are being forwarded to you in the belief that you will wish to plot this work on the smooth sheets of the 1942 surveys. In case you prefer to have this work done in this office, please return these records with the 1942 smooth sheets which will be needed.

Earl O. Heaton
Captain, USCGS
Supervisor, SE Dist.

EOH:m
Encl.

CC: Chief, Division of Charts ✓

See letter SE District 25/May/51

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ }
~~TO BE DELETED~~ } STRIKE OUT ONE

Crisfield, Maryland

16 May, 1951

I recommend that the following objects which have ~~been~~ ^(have not) been inspected from seaward to determine their value as landmarks be ~~charted on~~ ^(deleted from) the charts indicated.

The positions given have been checked after listing by G. C. Mast

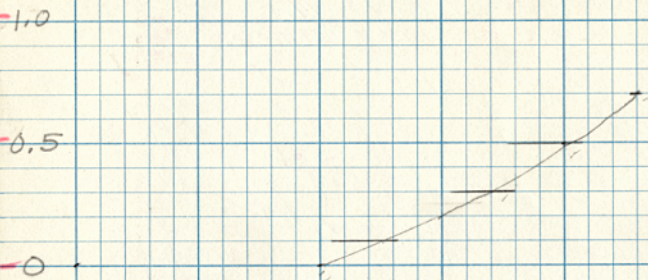
Comdr. John Bowie, Jr., Chief of Party.

STATE <u>MARYLAND</u>			POSITION				METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
CHARTING NAME	DESCRIPTION	SIGNAL NAME	LATITUDE		LONGITUDE							
			° ' "	D. M. METERS	° ' "	D. P. METERS						
TOWER	Observation tower, southerly of 2 on Adam I. (Tower down 5-14-51)	NOT	38 - 08	1252	76 - 05	410	1927		1948			1224 3330
WRECK	No sign of wreck visible on - the - spot inspection 5-14-51	WRECK	38 - 11	10	76 - 05	126	1927		1948			1224 3330

Letter 337 (51)

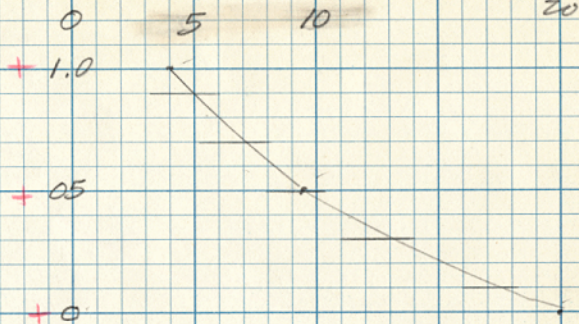
This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

b-day - May 16 - Lch. 102
 5 10 20



0	To	13.0'
-0.2	"	17.0'
-0.4	"	20.0'
-0.6	"	23.0'

a-day - May - 45 -
 Lch - 102
 0 5 10 20

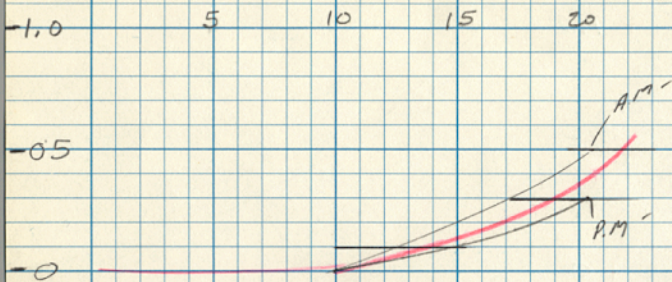


+1.0	4.0	5.0
+0.8	5.5	7.0
+0.6	7.5	9.5
+0.4	10.0	13.0
+0.2	13.5	17.5
0.0	18.0	end

✓ A-day May 16 stops Lewis -
 0 - all day -

Comp by - H.T. D.
 ASK

C-day - Lch. 102, May 17, 1951



0' - 10 to 14.0

-0.2 - 14 1/2 to 17.0

-0.4 - 17 1/2 end

Completed by N. L. P.
AGT

7 8 9 10 11 12 13 14 15 16 17 18

May 14, 1951

-0.4 - 12:00-15:00 ✓
 -0.6 - 15:40 ✓
 -0.8 - 16:36 ✓
 -1.0 - 17:24 ✓
 -1.2 - 18:00 ✓

May 15 →

May 14 →

→ May 14
 ← May 15

May - 15, 1951

-1.4 7:00 - 9:24 ✓
 -1.2 10:00 ✓
 -1.0 11:00 ✓
 -0.8 11:48 ✓
 -0.6 12:24 ✓
 -0.4 16:00 ✓
 -0.6 16:36 ✓
 -0.8 17:20 ✓
 -1.0 18:00 ✓

May 16 →

→ May 16

May 16, 1951

-1.2 7:00 - 10:40 ✓
 -1.0 11:24 ✓
 -0.8 12:00 ✓
 -0.6 12:32 ✓
 -0.4 13:24 ✓
 -0.2 16:00 ✓
 -0.4 16:40 ✓
 -0.6 17:24 ✓
 -0.8 18:00 ✓
 -1.0 18:45 ✓

May - 17, 1951

May 17 →

-1.2 7:00 - 7:20 ✓
 -1.4 8:18 ✓
 -1.6 11:00 ✓
 -1.4 11:48 ✓
 -1.2 12:24 ✓
 -1.0 13:00 ✓
 -0.8 13:38 ✓
 -0.6 14:00 ✓

Comp by H. L. P

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

15 June 1951

~~REVISION OF HYDROGRAPHIC SHEET~~

Division of Charts: R. H. Carstens

Plane of reference approved in
2 volumes of sounding records for

FE No. 4 1951

~~HYDROGRAPHIC SHEET~~

Locality: Bloodsworth Island, Chesapeake Bay, Maryland

Chief of Party: J. Bowie Jr. in 1951

Plane of reference is mean low water, reading
0.90 ft. on tide staff at Holland Island Bar Lighthouse
14.2 ft. below B. M. 3 (1942)

Height of mean high water above plane of reference
is 1.4 feet.

Condition of records satisfactory except as noted below:

E.C. McKay
Section

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

GEOGRAPHIC NAMES

Survey No. **FE.No.4,1951.**

Name on Survey											
	A	B	C	D	E	F	G	H	K		
											1
											2
											3
											4
											5
											6
											7
											8
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											23
											24
											25
											26
											27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. FE. No. 4, 1951

Records accompanying survey:

Boat sheets *..1...;* sounding vols. *..2...;* wire drag vols.;
 bomb vols.; graphic recorder rolls *2 spv.;*
 special reports, etc. *1. Descriptive Report; 1 Chart Section.....*

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

Number of positions on sheet	.....	<i>240</i>
Number of positions checked	.....	<i>12</i>
Number of positions revised	.....	<i>0</i>
Number of soundings revised (refers to depth only)	.....	<i>added several 1/2's to make curves agree with existing survey</i>
Number of soundings erroneously spaced	.....	.....
Number of signals erroneously plotted or transferred	.....	.....
Topographic details	Time	.....
Junctions	Time	.....
Verification of soundings from graphic record	Time	<i>1</i> <i>2</i>

Verification by HM. Zeskind 8 hrs Date 8-21-52
Inking *Verification by J.E. Georhart* 78 hrs Date 7-16-52
 Reviewed by *1. M. Zeskind* Time *3 hrs* Date *8-22-52*

REVIEW OF FIELD EXAMINATION NO. 4, 1951

Project No. CS-287

This is a field examination of that area of the Chesapeake Bay which lies west of Bloodsworth Island. The field examination was made in compliance with Supplemental Instructions for Project No. CS-287, dated 8 May 1951.

The purpose of the field examination was to substantiate or disprove several charted objects and critical depths falling within the limits of the area referred to in the paragraph above.

The results of the field examination are given in paragraphs 3 to 6 of the Descriptive Report and are plotted on the attached tracing cloth and section of boat sheet. The recommendations of the field party are concurred in by the reviewer.

A comparison between the field examination and surveys H-6775 and H-6779 of 1942 shows good agreement in depths, except those referred to in items 1 to 3 of the Descriptive Report.

Critical information of the field examination has been partially applied to Chart 77 (print dated 11-26-51) and completely applied to Charts 557 (drawing dated 11-2-51), 1224 (print dated 8-4-52) and 3330 (drawing dated 4-16-52). Depths charted in the common area are in adequate agreement with the present depths.

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

Reviewed by:

I. M. Zeskind
22 August 1952

Inspected by:

R. H. Carstens

TIDES: HOURLY HEIGHTS

Station: Holland Id. Bar. L.H. Year: 1951

Observer: _____ Lat. _____ Long. _____

Time Meridian: 75 Height datum is M.L.W. which is 0.9 + 1.0 ft. ft. below B. M.

U. S. GOVERNMENT PRINTING OFFICE 11-792

Month and Day	mo.	d.	d.	d.	d.	d.	d.	d.	d.	d.	d.	d.	Horizontal Sum
17 May	14		15		16		17						
Day of Series													
Hour	Feet		Feet		Feet		Feet		Feet		Feet		Feet
0	.		.		.		.		.		.		.
1	.		.		.		.		.		.		.
2	.		.		.		.		.		.		.
3	.		.		.		.		.		.		.
4	.		.		.		.		.		.		.
5	.		.		.		.		.		.		.
6	.		.		.		.		.		.		.
7	.		3.4	1.5	3.1	1.2	3.1	1.2	.		.		.
8	.		3.4	1.5	3.2	1.3	3.3	1.4	.		.		.
9	.		3.3	1.4	3.2	1.3	3.5	1.6	.		.		.
10	.		3.0	1.1	3.1	1.2	3.5	1.6	.		.		.
11	.		2.8	0.9	2.9	1.0	3.4	1.5	.		.		.
Noon	2.3	0.4	2.5	0.6	2.6	0.7	3.1	1.2	.		.		.
13	2.2	0.3	2.3	0.4	2.3	0.4	2.8	0.9	.		.		.
14	2.2	0.3	2.2	0.3	2.1	0.2	2.5	0.6	.		.		.
15	2.4	0.5	2.2	0.3	2.1	0.2	.	.	.		.		.
16	2.7	0.8	2.4	0.5	2.2	0.3	.	.	.		.		.
17	2.9	1.0	2.7	0.8	2.5	0.6	.	.	.		.		.
18	3.2	1.3	3.0	1.1	2.8	0.9	.	.	.		.		.
19	.		.		3.2	1.3	.	.	.		.		.
20	.		.				.	.	.		.		.
21	.		.				.	.	.		.		.
22	.		.				.	.	.		.		.
23	.		.				.	.	.		.		.
Sum	.		.		.		.		.		.		.

Sum for _____ = _____ Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month= _____

Tabulated by _____ Date _____ Summed by _____ Date _____

TIDES: HOURLY HEIGHTS

Station: _____ Year: _____
 Observer: _____ Lat. _____ Long. _____
 Time Meridian: _____ Height datum is _____ which is _____ ft. below B. M. _____

U. S. GOVERNMENT PRINTING OFFICE 11-792

Month and Day	mo.		d.		d.		d.		d.		d.		Horizontal Sum
	Day of Series												
Hour	Feet		Feet		Feet		Feet		Feet		Feet		Feet
0
1
2
3
4
5
6
7
8
9
10
11
Noon
13
14
15
16
17
18
19
20
21
22
23
Sum

Sum for _____ = _____ Divisor=(28d) 672; (29d) 696; (30d) 720; (31d) 744. Mean for month= _____

Tabulated by _____ Date _____ Summed by _____ Date _____

RESTRICTED AREA

RESTRICTED AREA

NOTE: Hydrography east of line shown on attached tracing.

Item 2

Item 5

Item 3

Item 4

(1400) CHESAPEAKE BAY—Bloodsworth Island—Tower—Information.
 The U. S. Navy advises that commencing March 16, 1953, mooring dolphins will be driven in connection with the construction of a spotting tower in 38°09'38" N., 76°06'34" W. During the period of construction, after the dolphins are driven and before the tower is completed, a flashing white light every 4 seconds, visible 3 miles will be exhibited 10 feet above the water on the dolphins.
 Note.—Naval vessels will be operating in the vicinity during the above period.
 (N. M. 13, Mar. 28, 1953.)
 (COMFIVECGD, 16124, Mar. 1953.)
 U. S. Coast Survey Charts 1224, 77.
 U. S. Coast Pilot, Section C, 1947, page 308.

B 533-526

should request tower construction position of it?

See Letter 363 (1953) April 17, 1953

Exam. No. 22744 change except
 Items 1, 2, 3, 6 of hydro on
 Boat sheet done by L. J. L. 1952
 applied dist 3330 sub 1952

FE 4 (1951)

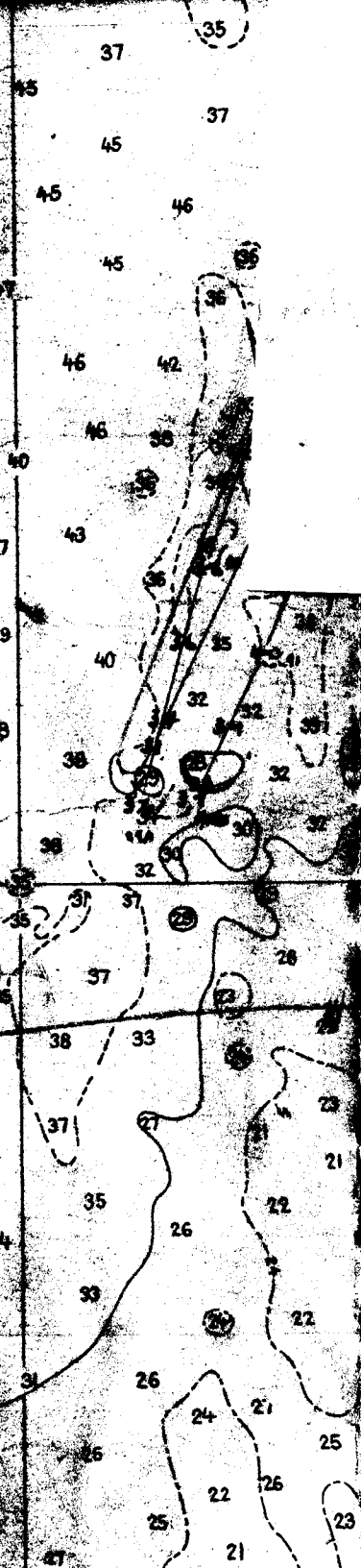
FE No. 4, 1951
Scale 1:30,000
Sheet 1 of 2

FE 4 (1951)

swie

Not using 3 trees observed

1210,000



THIS PAGE WAS ADDED TO THE REPORT
IT SHOWS INFORMATION MISSING
FROM THE ORIGINAL DOCUMENT

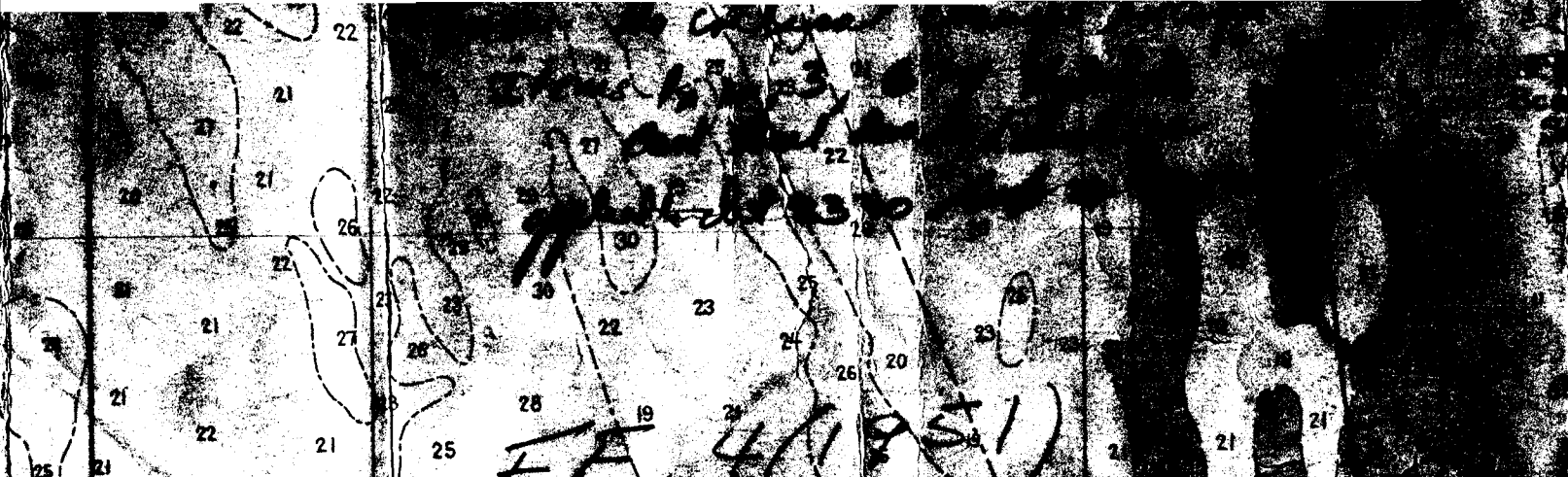
Pg 533 - 534

536

Mr. Edmanston PAGE 21 SCAN

*Do you think we should request
help to follow up on this tower construction
and secure an accurate position of it?*

See Letter 363 (1453) April 17, 1953



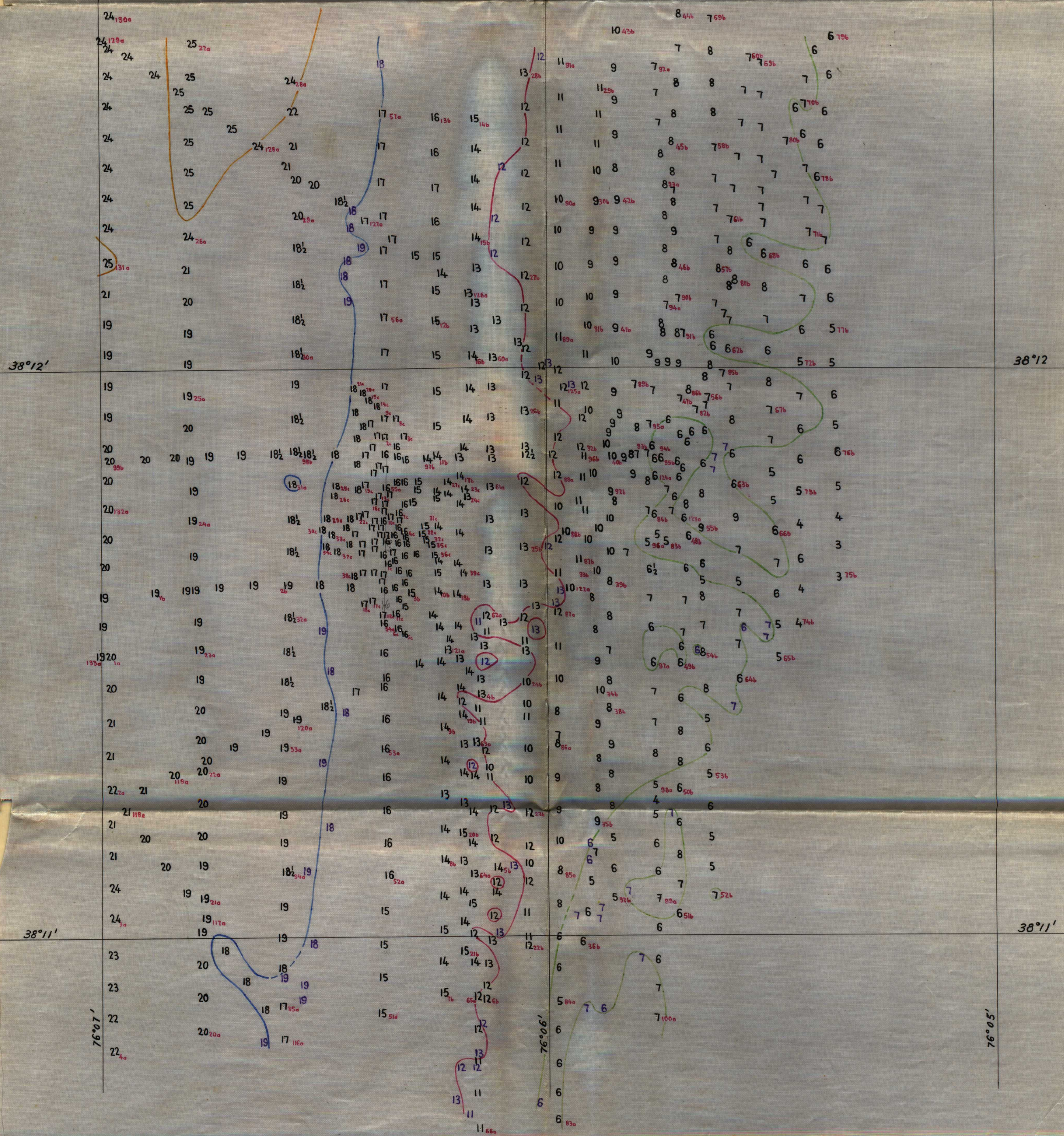
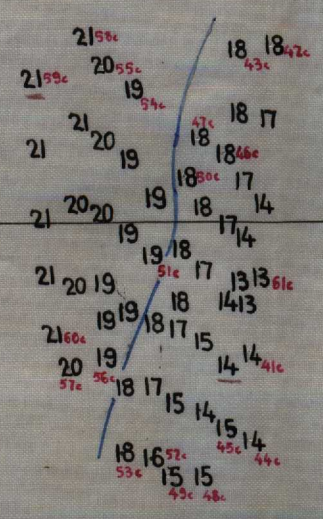
38°13'

38°13'

76°07'

76°06'

76°05'



38°12'

38°12'

38°11'

38°11'

76°07'

76°06'

76°05'

NAUTICAL CHARTS BRANCH

SURVEY NO. FE. No. 4, 1951.

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
7/19/51	1224	<i>R. K. Lawrence</i>	Before After Verification and Review
10-8-51	77	J. H. Eaton	<i>Partially Applied</i> Before After Verification and Review
10-15-51	557	J. H. Eaton	<i>Examined - No Chart Cor.</i> Before After Verification and Review <i>Completely applied</i>
4-29-52	3330	<i>Earl W. Prognys</i>	Before After Verification and Review <i>Complete application</i>
11-24-52	3330	R. K. Lawrence	<i>Exam</i> Before After Verification and Review. <i>No further</i> <i>condition necessary.</i>
3/25/53	555	J. Walker	Before After Verification and Review Thru #6775 & #6779
1953	<i>Reconstn.</i> 1224	G. H. Everett	" " " " <i>via 557 ver. via 555</i>
6-22-53	557	R. K. Lawrence	<i>Exam</i> Before After Verification and Review. <i>No further</i> <i>connection necessary.</i>
			Before After Verification and Review
			Before After Verification and Review
			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.