

8500 WIRE DRAG

Original

Diag. Cht. No. 1204-3.

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey WIRE DRAG

Field No. HI-WA-1354, WD Office No. H-8500WD

LOCALITY

State MAINE

General locality GULF OF MAINE

Locality MUSCONGUS BAY

19 55

CHIEF OF PARTY

Commander John C. Ellerbe

LIBRARY & ARCHIVES

DATE AUG 1960

B-1870-1 (1)

8500
WIRE DRAG

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. H-8500WD

Field No. Wa-H1-1354WD

State MAINE

General locality GULF OF MAINE

Locality MUSCONGUS BAY

Scale 1:10,000 Date of survey 16 June 1954 - 20 June 1955

Instructions dated 2/6/53, 3/9/54, 2/11/55 & 22/MEK S-2-Wa&H1

Vessel WAINWRIGHT & HILGARD

Chief of party E.B. BROWN & JOHN C. ELLERBE

Surveyed by G.L. SHORT, J.B. WATKINS, J.E. GUTH & L.G. TAYLOR

Soundings taken by ~~fathometer~~, graphic recorder, ~~and lead line~~

Fathograms scaled by SHIP PERSONNEL

Fathograms checked by SHIP PERSONNEL

Protracted by W.W. FEAZEL (NORFOLK PROCESSING OFFICE)

Drag strips inked by:

~~XXXXXXXXXXXX~~ W.W. FEAZEL (NORFOLK PROCESSING OFFICE)

Soundings in ~~XXXXXX~~ feet at MLW ~~XXXXXX~~

REMARKS:

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.....
.....
.....
.....

21

DESCRIPTIVE REPORT

Wire Drag Field Sheet No. HI-WA-1354, W.D.

Project CS-265, WD
Coast of Maine 1954 and 1955
Scale 1:10,000

E. B. Brown	1954	Chief of Party
John C. Ellerbe	1955	Chief of Party

A. PROJECT

Supplemental Instructions dated 2/6/53, 3/9/54 and 2/11/55 22/MEK S-2-WA&HI.

B. SURVEY LIMITS AND DATES

Sheet covers $43^{\circ} 50.5'N$ to $43^{\circ} 58.5'N$ and $69^{\circ} 18.5'W$ to $69^{\circ} 25.0'W$. Field work began 6/16/54 and was completed 20 June 1955.

C. VESSELS AND EQUIPMENT

The Ships WAINWRIGHT and HILGARD acted as guide launch and end launch respectively for most of the survey. C&GS launch No. 171 was used as end launch and a hired lobster boat was used as guide launch for drag work, in narrow waters, on 13 to 15 June 1955. An outboard-powered skiff was used as tender for this operation. Standard wire drag equipment was used throughout. The Ship WAINWRIGHT was equipped with fathometer No. 58S, the HILGARD with fathometer No. 138SPX and launch CS-171 with an unnumbered fathometer.

D. TIDE AND CURRENT STATIONS

Hourly heights for the reduction of soundings and drag depths were obtained from portable automatic tide gages at Friendship Harbor, Port Clyde and New Harbor, Maine.

Reductions from the Friendship Harbor gage were used without corrections on "A", "B", and "C" days, the New Harbor gage without corrections on "D" through "J" days and the Port Clyde gage for the remainder of the sheet. "U" and "V" days had a correction of -0.2 foot applied to the range of the Port Clyde gage. No other time or range corrections were applied.

No current stations were observed.

See also attachment 2.

E. SMOOTH SHEET

To be prepared by the Norfolk Processing Office. In processing field records many situations were considered where the manual required clarification. To insure uniformity of handling by all processors on the party a set of rules was formulated and typed for distribution. These rules are set forth in attachment 7.

There were situations where, for convenience, uprights were left set at depths greater than project depth. In some cases these depths were not uniform and exceeded the $2\frac{1}{2}\%$ rule so that determining effective depths was relatively involved. In some cases the extra depth covered narrow areas whose limits are not positively known due to lack of positive knowledge of the actual shape of the bight. The smooth sheet plotter should use his judgement in not claiming this extra depth where he can gain time without sacrificing needed coverage by so doing.

F. CONTROL STATIONS

All control stations were located by conventional methods. No survey buoys were used. All signals are tabulated individually on attachment No. 1.

Signals shown by red circles on the boat sheet are positive recoveries of marks or remains of former signals; those shown in blue were recovered by other means and are adequately located.

G. SOUNDING AND DRAG TESTS

Soundings were obtained using the 808 fathometer or the hand lead. Tests of the drag followed the method outlined in the manual.

H. CONTROL OF WIRE DRAG

Standard dual control methods were used. Cuts to the end buoy and then to the opposite vessel were taken immediately after the fix. The cuts were called plus (+) if the object was to the right of the signal and minus (-) if to the left. Length of tow line was the distance from the center of the wheelhouse to the end buoy in each case.

J. ADEQUACY OF THE SURVEY

This survey is considered adequate and no further field work is considered necessary.

K. COMPARISON WITH PREVIOUS SURVEYS

In general the wire drag was in good agreement with previous surveys. See Attachment 6 for a tabulation of hangs and hydrographic development indicating changes. Other hangs were of no consequence being due to the drag sagging at the set-out or an inadvertent hanging of the drag on shoals of known lesser depths.

L. AIDS TO NAVIGATION

See Attachment 5 of this report.

M. LANDMARKS FOR CHARTS

No new landmarks for charts are recommended for the area covered by this survey.

N. FATHOMETER CORRECTIONS

a. 1954 Season

Fathometer No. 58-S was used on the Ship WAINWRIGHT throughout this season. Two bar checks affect the work on this sheet. Curves were plotted from the means of these curves and corrections scaled in accordance with Paragraph 822 of the Hydrographic Manual.

Fathometer 138SPX was used on the Ship HILGARD throughout this season. One bar check affects the work on this sheet. Corrections were determined as above.

Fathometer 139SPX was used on Launch CS-171 throughout this season. Two bar checks affect the work on this sheet. Phase correction was determined for this instrument to be ± 2.5 feet to be applied to all "B" range soundings.

The effective radius of the respective stylus arms was measured on all fathometers and found to be within the proper limits.

See Attachment 8 for an abstract of corrections.

b. 1955 Season

Fathometer No. 58S was used on the Ship WAINWRIGHT throughout the season. One bar check affects the work on this sheet. A curve was plotted and corrections scaled in accordance with Paragraph with Paragraph 822 of the Hydrographic Manual. The length of bar uprights was checked and found to be correct. A 2.0 foot index was used throughout. A check of the length of the stylus arm showed negligible corrections.

Fathometer No. 138SPX was used on the Ship HILGARD throughout the season. The same corrections were determined and applied.

An 808 fathometer with no number was used in Launch CS-171 throughout the season. The length of bar uprights was found to require corrections which were applied. Other corrections were made in the same manner as described for Fathometer No. 58S.

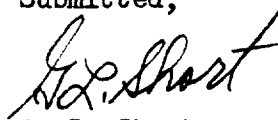
P. TIME

Local time was used to avoid discrepancies. Eastern Standard Time (75° M.T.) was used early in each season and Eastern Daylight Time (60° M.T.) was used subsequent. Date of change in 1955 was 24 April. Proper notation was made of time used.

Q. LIST OF ATTACHMENTS

1. Statistics
2. Tide Note
3. List of Signals
4. Signal Locations
5. Aids to Navigation
6. Hang Data
7. Notice to Processors
8. Fathometer Corrections

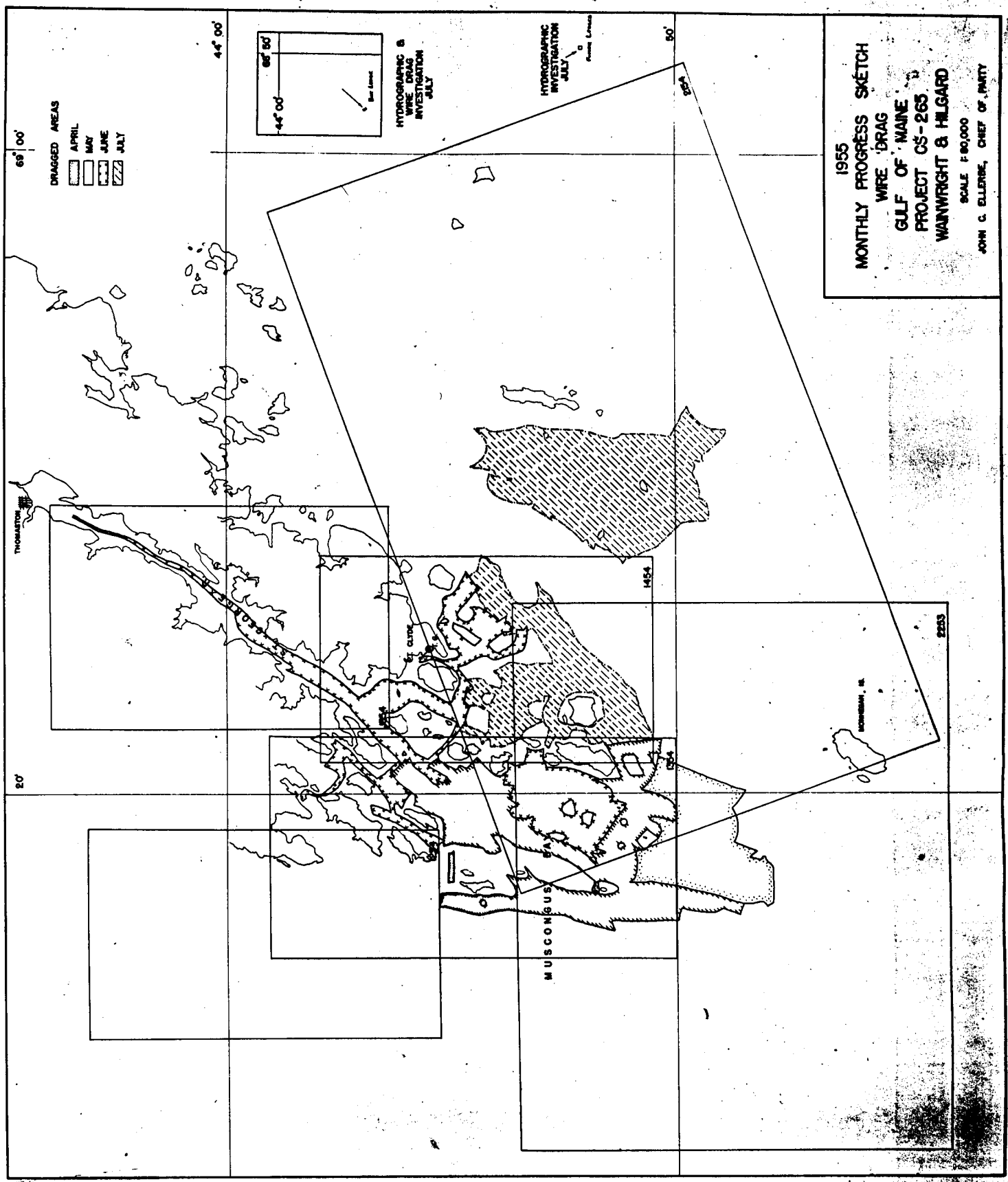
Submitted,



G. L. Short
Lt. Comdr., C&GS

Approved & Forwarded

John C. Ellerbe
Commander, C&GS
Chief of Party

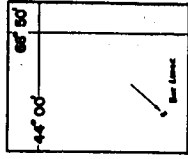


1955
 MONTHLY PROGRESS SKETCH
 WRE DRAG
 GULF OF MAINE
 PROJECT CS-265
 WAINWRIGHT & HILGARD
 SCALE 1:80,000
 JOHN C. ELLENB, CHIEF OF PARTY

HYDROGRAPHIC &
 WRE DRAG
 INVESTIGATION
 JULY

HYDROGRAPHIC
 INVESTIGATION
 JULY

DRAGGED AREAS
 APRIL
 MAY
 JUNE
 JULY



THOMASTON

CLIVE

MUSCONGUS BA

WAINWRIGHT, ME

1454

2253

STATISTICS

<u>VOL. NO.</u>	<u>DAY LETTER</u>	<u>DATE</u>	<u>NO. SDG.</u>	<u>NO. POS.</u>	<u>STAT. MI.</u>	
		1954				
1	A	6-16		47	3.5	
1	B	6-17		33	2.9	
1	C	6-18	2	2	*	
1	D	6-22		73	6.2	
2	E	6-24		61	5.1	
2	F	6-25		61	4.9	
2	G	6-28		34	3.0	
2	H	6-30		26	2.4	
2	J	7-25	5	5	*	
		1955				
3	K	5-2		80	5.8	
3	L	5-3		52	2.8	
3	M	5-5		44	3.9	
3	N	5-6		21	1.8	
4	P	5-9		25	2.2	
4	Q	5-11		14	1.1	
4	R	5-16		35	2.6	
4	S	5/17		36	2.1	
4	T	5-25		7	0.8	
4	U	5-26		37	2.3	
5	V	5-27		136	9.4	
5	W	6-1		62	5.0	
6	X	6-2		36	2.4	
6	Y	6-3		101	6.2	
6	Z	6-6		55	3.8	
7	aa	6-13		45	2.3	
7	ba	6-14		63	3.7	
7	ca	6-15		40	1.3	
7	CA	6-15		20	1.9	
7 & 8	DA	6-16		79	5.5	
8	EA	6-17		12	0.9	
8	FA	6-20		41	2.7	
8	GA	6-21		6	0.3	
				TOTALS	1389	98.8

* Buoy locations

TIDE NOTE

Portable Automatic tide gages were installed and maintained by this party at New Harbor, Maine, latitude $43^{\circ} 52'$ longitude $69^{\circ} 20'$; at Friendship Harbor, Maine latitude $43^{\circ} 58'$ longitude $69^{\circ} 20'$ in 1954, and at Port Clyde, Maine latitude $43^{\circ} 56'$ longitude $69^{\circ} 16'$ in 1955. Height of Mean Low Water above the zero of the tide staff was 3.6 feet, 3.5 feet, and 3.5 feet respectively.

Gages were maintained and hourly heights were scaled from the marigrams by party personnel. All times noted are Eastern Daylight Savings time.

Records from the Friendship Harbor tide gage were used on letter "A", "B", and "C" day only with no correction applied. "D" through "J" days were referred to New Harbor tide gage with no time or range factor applied.

"U" and "V" days were referred to the Port Clyde gage with zero time correction and -0.2 foot range correction and the remainder of the sheet was referred to the Port Clyde gage without corrections.

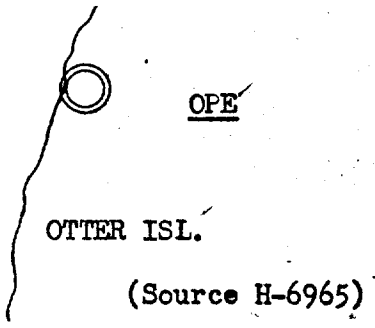
See N.P.O. List

LIST OF SIGNALS

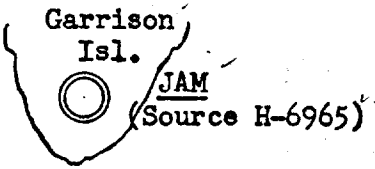
<u>NAME</u>	<u>SOURCE</u>	<u>NAME</u>	<u>SOURCE</u>
AHA	H-6965	GAG	H-6969
AIM	H-6969	GAM	Day beacon on rocks, high point. See cuts Vol. 2 WAIN.
ART	Vol. 1 P. 48 HIL.	GAN	Vol. 4, P. 8 WAIN
BAH	H-6965	GAR	H-6969
BANK	Topo map 5620	GATE	H-6965
BAR	WA-HI 1454	GEE	Vol. 2, P. 57, WAIN.
BAT	Shown as RAT on H-6965	GRASS	WA-HI 1254
BEE	Attachment 4	GULL	Triangulation Station GULL 1934
BEN	H-6967	GUS	H-6967
BEY	Photo (film pos. prick)	HAD	H-6854
BIB	H-6965	HAM	WA-HI 1454
BOAT	WA-HI 1254	HAR	H-6965
BOX	H-6965	HOLE	H-6967
BULL	H-6969	HUT	H-6965
CAL	H-6967	IBEX	H-6969
CAW	WA-HI 1254	JAM	Attachment 4
CITY	WA-HI-1254	JAR	H-6965
CLAM	H-6967	JES	H-6854
COT	WA-HI 1454	JON	H-6967
COW	WA-HI 1254	KILL	WA-HI 1254
DAN	H-6967	LAG	WA-HI 1254
DAR	H-6969	LEM	H-6967
DATE	H-6969	LIZ	H-6965
DAV	Vol. 1, P. 1 HIL.	LOF	1954 location in Vol. 1 or 2 drag record book (HILGARD)
DEV	Photo (film pos. prick)	LOT	H-6854
ED	H-6967	MAL	H-6965
EGG	Eastern Egg Rock Triangu- lation Beacon 1934 - 1943	MAX	H-6965
END	H-6965 (Shown as signal TOM)	MID	H-6854
ERL	H-6967	MINK	H-6969
FAG	H-6965	NED	H-6967
FAT	H-6967	NEW	H-6965
FEAR	WA-HI 1254	NIL	H-6965
FERD	H-6967	OIL	H-6965
FIG	WA-HI 1154 (not on sheet. Used for one fix.)	OPE	Attachment 4
FLY	H-6965		
FOE	H-6965		
FRAN	Franklin I. L.H. Triangulation Station		

*See N. P.O. Signal
List.*

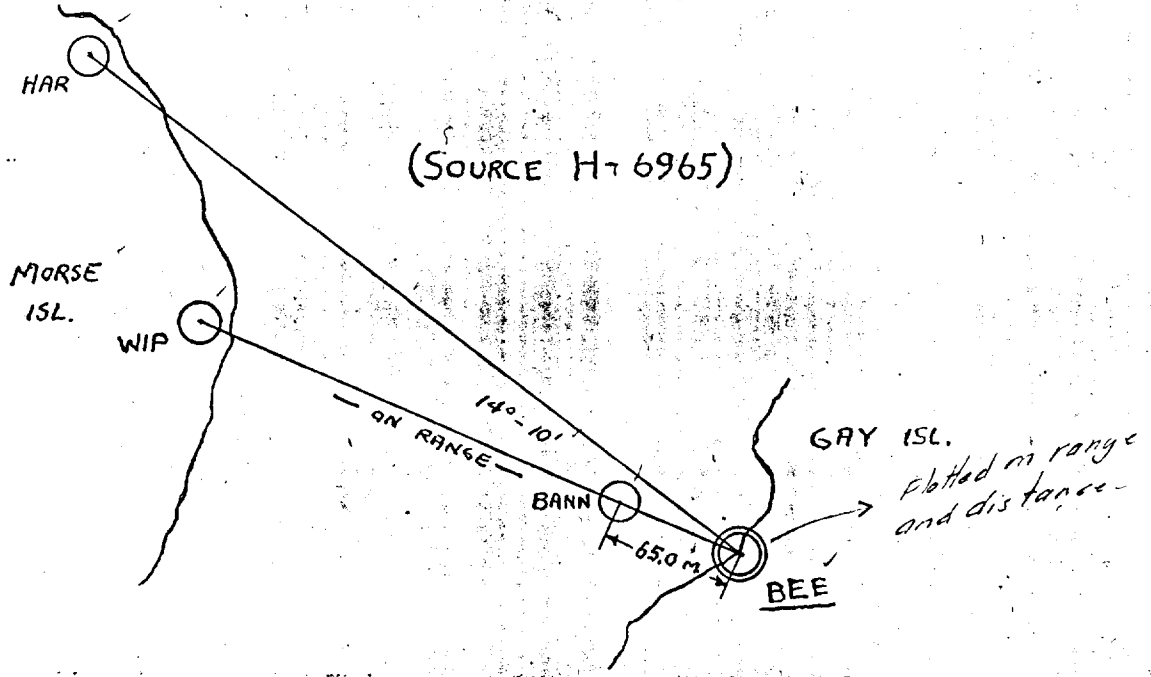
<u>NAME</u>	<u>SOURCE</u>
OTT	Otter I. 1859 triangulation station
OX	H-6969
PAS	Vol. 2, P. 8 WAIN
PIG	Vol. 1, P. 1 HIL
PIP	WA-HI 1254
PIN	WAIN Vol. 3, Pages 6 & 9; Vol. 4 Pages 3 & 8
PIT	WA-HI 1254
POI	H-6965
PUP	H-6965
QUE	H-6967
RAM	H-6969
RAT	WA-HI-1254
REV	H-6965
RACK	H-6967
ROCKY	H-6965
ROY	H-6965
SAG	WA-HI 1254
SUP	H-6967
TALK	WA-HI 1254
TOM	Vol. 2, P. 57 WAIN
TREE	H-6965
TUB	H-6965
WAR	WA-HI 1254
WEE	H-6965
WIL	H-6967
WIP	H-6965



- FRANKLIN Isl. L. H. 58-09 ✓
- ART 62-33 ✓
- PAS 29-46 ✓
- WIL



- NIL
- BAT 71-49 ✓
- RAT 121-08
- ROY 27-17 ✓
- NEW 04-15 ✓
- WEE



*See Norfolk office
List of*

AIDS TO NAVIGATION

<u>OBJECT</u>	<u>RECORDED</u>	<u>SHIP</u>
Garrison Island Buoy C "5"	Vol. 7 P. 2	WAINWRIGHT ✓
Garrison Island Rock Buoy N "6"	Vol. 7 P. 13	WAINWRIGHT ✓
Crotch Island Ledges Buoy N "4"	Vol. 7 P. 10	WAINWRIGHT ✓
Northeast Point Reef Buoy C "1"	Vol. 6 P. 14	HILGARD ✓
Gay Island Buoy N"2"	Vol. 7 P. 24	WAINWRIGHT ✓
Jenks Ledge Buoy N "2JL"	Vol. 3 P. 21	WAINWRIGHT ✓
Seavey Island Ledge Buoy "2"	Vol. 3 P. 21	WAINWRIGHT ✓
Twobush Island Rock Buoy C "1"	Vol. 3 P. 21	WAINWRIGHT ✓
Harbor Island Rock Buoy N "2"	Vol. 4 P. 49	WAINWRIGHT ✓
Seal Ledges Buoy C "7"	Vol. 7 P. 30	HILGARD ✓
Eastern Egg Rock B&W Bell Buoy	Vol. 5 P. 14	WAINWRIGHT ✓
Egg Rock North Ledge Buoy N "12"	Vol. 7 P. 30	HILGARD ✓
Griffin Ledge Buoy S "8"	Vol. 5 P. 54	HILGARD ✓

HANG DATA

	<u>Latitude</u>	<u>Longitude</u>	<u>General Depth</u>	<u>Shoalest Hang Ft.</u>	<u>Position Number</u>	<u>Maximum Clear Feet</u>	<u>Cleared Pos. No.</u>	<u>Shoalest Sdg. Ft.</u>
- 1a	43° 54.1' ⁰⁸	69° 21.4' ³⁶	14	5.0	67D ✓	3 ✓	68-73-D	3.5 ^{85Z} 24.7-25.5-71-72Z
- 1b	43° 53.9' ⁸⁵	69° 20.9' ⁸⁶	19	9.0	20L ✓	* ✓	*	8.0 1d ✓
- 2	43° 54.8'	69° 24.3'	10	31.5 ^{30.0}	10V ✓	25½ 26	19W 54V	28.0 2.83V
- 3	43° 55.1'	69° 19.6'	15	20.0	104V ✓	18.5	109V	21.0 22.0 5V
- 4	43° 53.3'	69° 23.2'	32	22.0	54W 55Y ✓	21.0	22W 65-89Y	22.0 5Y
- 5	43° 52.0'	69° 22.5'	23	26.0	31D ✓	24.0	56-61E ✓	18.0 1/6
- 6	43° 52.0'	69° 21.3'	24	20.0	14B ✓	15.0	19-26B ✓	28.0 3a
- 7	43° 55.5'	69° 23.5'	28	23.0	38A ✓	20.0	39-47A ✓	28.0 3a
- 8	43° 58.0'	69° 21.6'	20	16.0	22A ✓	14.0	23-32A ✓	10.0 2a
- 9	43° 57.4'	69° 21.8'	29	16.0	13A ✓	7.0	27-33B ✓	3.5 19c
- 10	43° 58.1'	69° 20.4'	18	16.0				
- 11	43° 57.9'	69° 20.6'	15					
- 12	43° 57.9'	69° 20.7'	7					

* 3. Hangs at this spot at 10L, 20L 28L, 66K, 74K, 80K. Never cleared except drag began moving after hang at 20L. Later fix Pos. No. 21L showed drag beyond hang creeping of vessels while tender investigated hang and absence of abrupt "fetching-up" indicated kelp. Due to continued failure to clear hang and its position clear of the channel further attempts to clear were abandoned. A 9-foot sounding is recommended here.

See N.P.O. Hang data on smooth sheet.

NOTICE TO PROCESSORS

1. The effective depth of an inclined section shall be assumed to be the effective depth of the shoaler side except as modified by the 2½ percent rule.
2. The drag shall be assumed to have an additional foot of lift between the beginning of the line and the time of assuming normal bight. *No precedent for this rule - Not used on smooth plots as it creates complications H. L. P.*
3. The effective depth of a toppled buoy is indeterminate and drag area claimed shall not include the area affected during the time any buoy is toppled.
4. THE 2½% RULE. If the difference in length of the two uprights of an inclined section is greater than 2½ percent of the length of the section, the depth of the deeper upright shall be reduced to the maximum depth that will meet this requirement. (Note that the section beyond the reduced upright may be affected.)
5. When deep sections of the drag lie between sections inclined to lesser depths, each deeper section adjoining an inclined section shall be reduced to the effective depth of the adjacent inclined section.

FATHOMETER CORRECTIONS

Ship WAINWRIGHT - Fathometer No. 58S - Initial set at 2.0'

1954 Season

A Range - Feet		B Range - Feet	
<u>Depth</u>	<u>Correction</u>	<u>Depth</u>	<u>Correction</u>
0 to 13.9	f 0.5	35 to 64.9	-1.0
14.0 to 50.0	0.0	65.0 to 90	-1.5

Ship WAINWRIGHT - Fathometer No. 58S - Initial set at 2.0'

1955 Season

A Range - Feet		B Range - Feet	
<u>Depth</u>	<u>Correction</u>	<u>Depth</u>	<u>Correction</u>
0-to 13.7	f 0.8	to 44.9	-0.2
13.8 to 18.9	f 0.6	45.0 to 49.9	-0.4
19.0 to 26.6	f 0.4	50.0 to 55.9	-0.6
26.7 to 38.9	f 0.2	56.0 on	-0.8
39.0 on	0.0		

FATHOMETER CORRECTIONS

Ship HILGARD - Fathometer 138SPX - Initial set at 2.0'

1954 Season

A Range - Feet		B Range - Feet	
<u>Depth</u>	<u>Correction</u>	<u>Depth</u>	<u>Correction</u>
0 to 30.5	0.0	35.0 to 44.5	-3.5
31.0 to 44.5	-0.5	45.0 to 55.5	-4.0
45.0 to 50.0	-1.0	56.0 to 64.5	-4.5
		65.0 to 73.5	-5.0
		74.0 on	-5.5

Ship HILGARD - Fathometer 138SPX - Initial set at 2.0'

1955 Season

A Range - Feet

<u>Depth</u>	<u>Correction</u>
0 to 12.5	+0.2
13.0 to 20.5	+0.6
21.0 to 30.0	+1.0

"B" scale - 5.0'
"C" " - 7.0'

Note: Bar check fathogram
Not available - see bar
check tabulation Vol. 4 (E.L.),
pg. 10 - H.L.P.

FATHOMETER CORRECTIONS

Launch CS-171 - Fathometer No. 139SPX - Initial set at 0.0'

1954 Season

A Range - Feet

B Range - Feet

<u>Depth</u>	<u>Correction</u>	<u>Depth</u>	<u>Correction</u>
0 to 44.5	0.0	35.0 to 44.5	0.0
45.0 to 50.0	-0.5	45.0 to 90.0	-0.5

Launch CS-171 - Fathometer No. unknown- Initial set at 0.0'

1955 Season

A Range - Feet

<u>Depth</u>	<u>Correction</u>
0 to 16.2	0.6
16.3 on	0.4

NORFOLK PROCESSING OFFICE
 FLOATING AIDS TO NAVIGATION
 H-8500WD

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
Garrison I. Buoy 5	43-58.22	69-20.04	18	1c	6/18/54
Garrison I. Rock Buoy 6	43-57.88	69-20.00	-	43AA*	6/13/55
Crotch I. Ledges Buoy 4	43-57.53	69-19.45	-	32AA*	"
Northeast Pt. Reef Buoy 1	43-57.37	69-18.12	-	23AA*	"
Gay I. Buoy 2	43-56.69	69-19.45	-	35BA*	6/14/55
Jenks Ledge Buoy 2JL	43-55.45	69-19.46	31	7 1	5/ 3/55
Seavey I. Ledge Buoy 2	43-55.45	69-18.86	35	6 1	5/ 3/55
Twobush I. Rock Buoy 1	43-55.27	69-18.81	40	5 1	5/ 3/55
Harbor I. Rock Buoy 2	43-54.37	69-23.52	61 -	3c 1u	6/18/55 5/26/55
Goose Rock Ledge Buoy 1	43-56.13	69-18.72	- -	79DA* 9FA*	6/16/55 6/20/55
Seal Ledges Buoy 7	43-52.57	69-20.50	35 30 41	2j 3j 1ha	8/25/54 8/25/54 8/ 1/55
Eastern Egg Rock Bell Buoy	43-51.85	69-23.11	106 117	5j 3ha	8/25/54 8/ 1/55
Egg Rock North Ledge Buoy 12	43-51.87	69-22.85	44 41	4j 2ha	8/25/54 8/ 1/55
Griffin Ledge Buoy 8	43-53.45	69-18.45	-	47Z*	6/ 6/55
Western Egg Rock Breakers Buoy 1	43-52.75	69-24.51	44 42	1h 6j	6/30/54 8/25/54

*Positioned by reference

NORFOLK PROCESSING OFFICE
LIST OF SIGNALS
H-8500WD

TRIANGULATION STATIONS

EGG EASTERN EGG ROCK BEACON, 1934-43
FRAN FRANKLIN ISLAND LIGHTHOUSE, 1859-1943
GULL GULL, 1859-1934
PIN THE KEGS, 1953

MARKED TOPOGRAPHIC STATIONS

<u>T-11130N</u>	<u>T-11130S</u>	<u>T-11131N</u>	<u>T-11131S</u>	<u>T-11135N</u>
FEAR, 1943	BANK, 1943 KILL, 1943 GRASS, 1943	BOAT, 1941 CLAM, 1941 CITY, 1941 TALK, 1941	DATE, 1943	BULL, 1943

TOPOGRAPHIC STATIONS

T-11130S Fat

T-11131N Fly Hut New Poi Wil Foe Max Pit Que

T-11131S Rock War

T-5999 Erl

H-6853 Caw Fig

H-6854 Had Jes Lot Mid

H-6965 Aha Bah Bat Bib Box Cow End Fag Gate Har Jar
Lag Lar Liz Mal Nil Oil Pup Rat Rev Rocky Roy
Sag San Tree Tub Wee Wip

H-6967 Ben Cal Dan Ed Ferd Hole Jack Jon Lem Sup

H-6969 Aim Dar Gag Gar Gus Ibex Loco Mink Ox Ram

_____ Ott (Otter I. House Chy., 1859 --- Lost 1934-43)

PLANIMETRIC FEATURES

T-11131S Bey T-11130S Dev

HYDROGRAPHIC STATIONS

Art Vol. 1, pg. 48	Fig Vol. 1, pg. 1	Cot Wa-Hi-1454WD
Dar Vol. 1, pg. 1	Tom Vol. 2, pg. 57	Ham Wa-hi 1454WD
Gan Vol. 4, pg. 8	Bee Attachment #4	Pip Wa-hi 1154WD
Gee Vol. 2, pg. 57	Jam " #4	
Lof Vol. 1, pg. 1	Ope " #4	
Pas Vol. 2, pg. 8	Bar Wa-Hi-1454WD	

NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

WIRE DRAG SURVEY H-8500 (Wa-H1 1354WD)

GENERAL

Very satisfactory results were obtained on the smooth plot considering the difficulties experienced by the field party and the smooth plotter in accomplishing a wire drag survey in an area where the work was complicated by the extremely irregular character of the bottom and the prevalence of heavy kelp in the shoal areas.

Numerous minor inconsistencies and irregularities were resolved by the smooth plotter. The methods used to accomplish these adjustments are covered by copious notes on the individual plotting overlays which are being forwarded with the smooth sheet. Rather extensive office revisions were also necessary to bring some of the drag diagrams into agreement with the recorded data.

All pertinent hang data have been flagged on the smooth sheet with leaders pointing to the separate grounds. All effective depths have been checked against prior hydrographic surveys to avoid conflicts in depths between the two survey methods.

OVERLAYS

Wire drag lines 44 thru 55Y and 56 thru 64Y are being submitted on smooth overlays to avoid congestion on the smooth sheet. The area was covered to an equal or greater depth on other lines.
Not smooth, plotted - on A & B Sheet.

Lines 75 thru 80K, 4 thru 10L and 22 thru 28L, were plotted on overlay work sheets only. They serve no useful purpose as the areas were adequately covered by other lines. *(Work overlay destroyed by Rockville office. not replaced)* 8JS

Hydrographic developments on C', Z and aa days, are being submitted on separate overlays. (See note on page 2, Hydrographic volume 1, concerning work on aa day.

DISCREPANCIES

Splits and areas of insufficient overlap will be found at the following locations:

Lat. 43-56.15	Long. 69-18.78
" 43-55.10	" 69-22.65
" 43-53.75	" 69-19.95
" 43-51.42	" 69-20.62

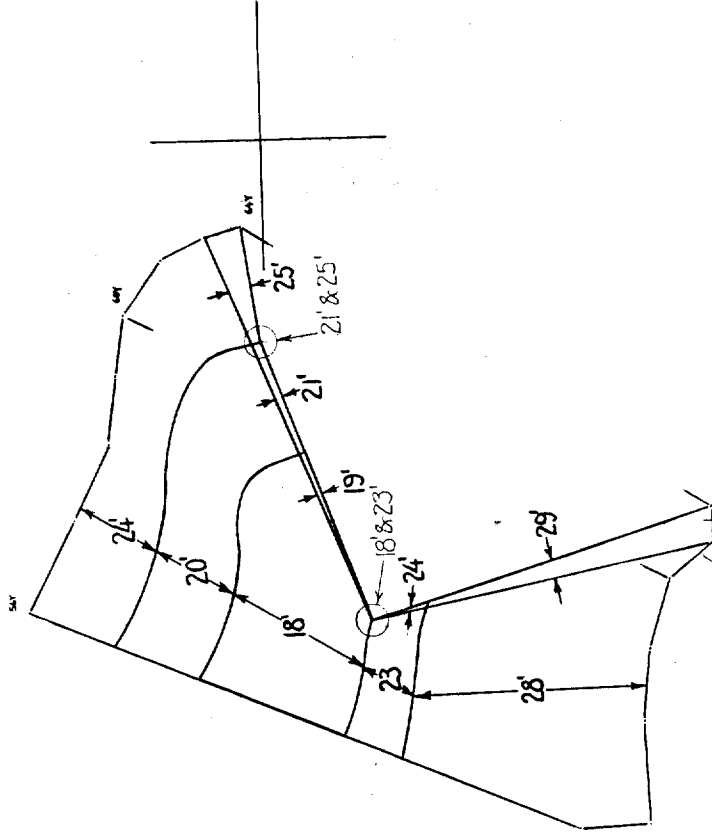
Norfolk, Va.
11 Aug. 1960

Respectfully submitted,
Hugh L. Proffitt
Hugh L. Proffitt
Cartographer

LINE 56 to 64 Y
N/O. 2 Overlay

21'

69° 22'

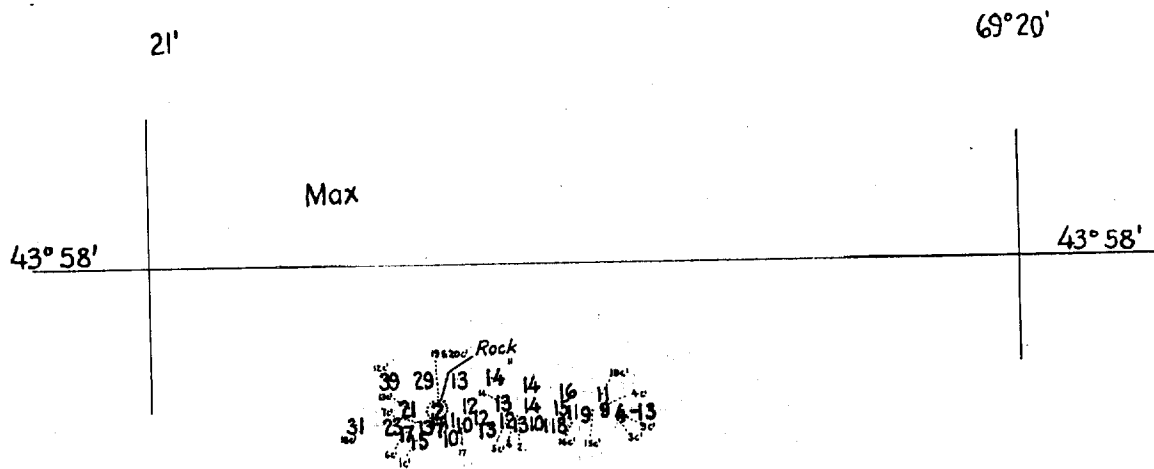


43° 52'

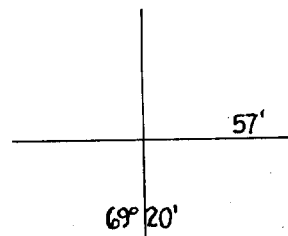
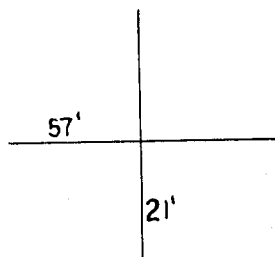
21'

69° 22'

43° 52'



C'day (Posn's. 1 thru 20)
 Development
 Tender Record Page 9.



23'

69° 22'

56'

56'

44
 34
 328 21 32 45
 63 62 52 45 24 13 17 15 19 31 36 44 52 49 40 43 23
 77 66 65 58 47 19 17 15 19 31 36 44 52 49 40 43 23
 53 62 52 45 35 24 15 28 14 19 30 31 47 45 47
 47 45 39 23 14 14 26 31 46 47
 44 32 26 14 43 8 2 1 19 34
 30 20 21 19
 46 19 21 21
 2 30 21
 33 21
 38 7
 44

43° 55'

43° 55'

aa Day development
Posts, 1aa thru 46aa
Hydro. Vol 1.

23'

69° 22'

69° 22'

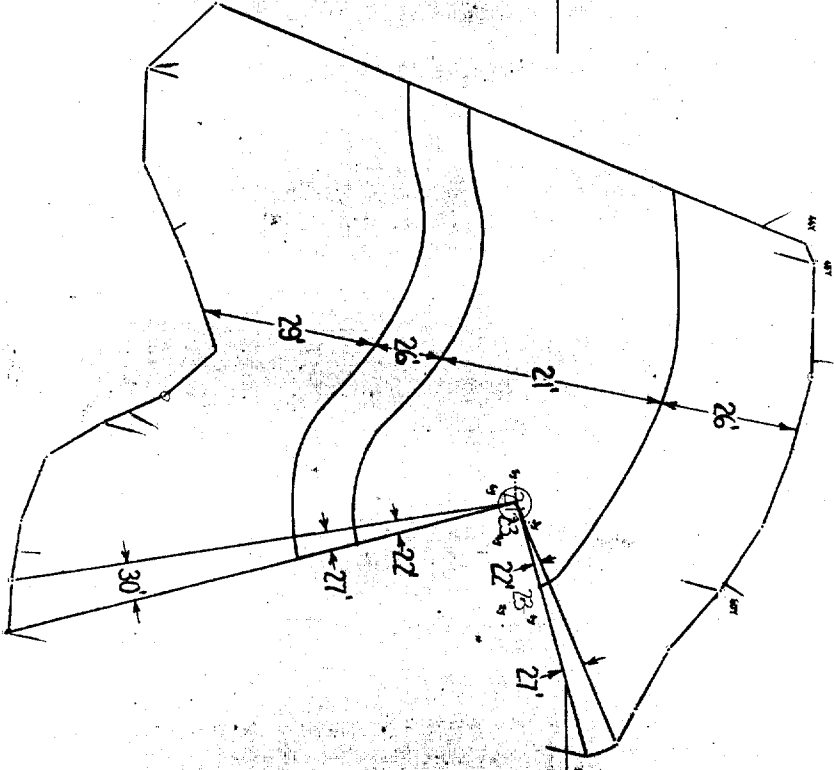
21'

43° 52'

43° 52'

69° 22'

21'



LINR 44 6055Y
No 1. Overlay

GEOGRAPHIC NAMES

Survey No. H-8500 W.D.

Name on Survey	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On Chart No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On previous survey No.</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On U. S. quadrangle Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">From local information</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">On local Maps</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">P. O. Guide or Map</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Rand McNally Atlas</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">U. S. Light List</div> </div>										
	A	B	C	D	E	F	G	H	K		
<u>Maine</u>			(title)								1
<u>Gulf of Maine</u>			"								2
<u>Muscongus Bay</u>			"								3
<u>Allen Island</u>											4
<u>Gay Island</u>											5
<u>Morse Island</u>											6
<u>Garrison Island</u>											7
<u>Friendship Harbor</u>			(tide station)								8
<u>Friendship Island</u>											9
<u>Otter Island</u>											10
<u>Harbor Island</u>											11
<u>Franklin Island</u>											12
<u>Eastern Egg Rock</u>											13
											14
<u>Other tide stations:</u>											15
<u>Port Clyde</u>											16
<u>New Harbor</u>											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names approved 8-23-60. If more names are desired, all on the 9-29-58 revision of chart 313 are also approved.

L. Hook

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..3500..

Records accompanying survey: Smooth sheets ..1...; boat sheets ..2...; sounding vols. ..3...; wire drag vols. ..15...; Descriptive Reports ..1...; graphic recorder envelopes ..3...; special reports, etc. ..1... ~~Cahier-Miscellaneous Data, 1-A & D Sheet,~~ 5-Smooth Sheet Overlays and 1-Roll, Plotting Overlays. *Not received ATAMC*

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

Number of positions on sheet		1389
Number of positions checked		295
Number of positions revised		5
Number of soundings revised (refers to depth only)		None
Number of soundings erroneously spaced		NA
Number of signals erroneously plotted or transferred		0
Topographic details	Time	0
Junctions	Time	16
Verification of soundings from graphic record	Time	0
Special adjustments	Time	0

Verification by *Billy J. Stephenson*... Total time ²⁵⁵243... Date *7/14/74*...

Reviewed by Time Date

VERIFIER'S REPORT OF HYDROGRAPHIC SURVEY NO. H-8500 W.D.

The verifier should deal with the present hydrographic survey only, as the reviewer considers its relation to previous surveys and published charts. He should be thoroughly familiar with Chapters 3, 7 and 9 of the Hydrographic Manual. *Consulted with chart Manual*

1. The descriptive report was consulted and appropriate notes were made in soft pencil regarding action taken. ✓
2. Soundings originating with the survey and mentioned in the descriptive report have been verified, including latitude and longitude.
3. All reference to survey sheets mentioned in the descriptive report include the registry number and year. ✓
4. Geographic names of hydrographic features if on sheet are in slanting lettering and of topographic features in vertical lettering. ✓
5. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken. ✓
6. All positions verified instrumentally were check marked in the sounding records. ✓
7. All critical soundings are clear and legible and are a little larger than the adjacent soundings. ✓
8. The metal protractor has been checked within the last three months. ✓
9. The protracting and plotting of all bad crossings were verified. ✓
10. All detached positions locating critical soundings, rocks or buoys were verified. ✓
11. The boat sheet was compared with the smooth sheet. ✓

12. The spacing of soundings as recorded in the records was closely followed.
13. The bottom characteristics were shown on outstanding shoals.
14. The reduction and plotting of doubtful soundings were checked.
15. The transfer of contemporary topographic information was carefully examined.
16. All junctions were transferred and overlapping curves made identical.
17. The notation "JOINS H- (19--)" was added in ink for all contemporary adjoining or overlapping sheets now registered. Those not verified are shown in pencil.
18. The depth curves have been inspected before inking.
19. All triangulation stations and transfer of topographic and hydrographic signals were checked.
20. Heights of rocks were checked against range of tide.
21. Rocks transferred from topographic surveys have a dotted curve where shown thereon. Rocks located accurately by hydrographer are encircled by dotted red curve.
22. Unnecessary pencil notes have been removed.
23. Objects on which signals are located and which fall outside of the low water line have been described on the sheet.
24. The low water line and delineation of shoal areas have been properly shown.
25. Degree and minutes values and symbols have been checked.
26. Questionable soundings have been checked on the fathograms.

27. Source of shoreline and signals (when not given in report). ✓
28. All notes on sheet are in accordance with figure 171 in the Hydrographic Manual. ✓
29. All aids located, with those on contemporary topographic sheets, have been shown on survey. ✓
30. Depth curves were satisfactory except as follows: ✓
31. Sounding line crossings were satisfactory except as follows: ✓
32. Junctions with contemporary surveys were satisfactory except as follows: ✓
33. Condition of sounding records was satisfactory except as follows: ✓
34. The protracting was satisfactory except as follows: ✓
35. The field plotting of soundings was satisfactory except as follows: ✓
36. Notes to reviewer: *SEE AMC Ver. Notes*

Verified by *Billy J. Stephenson*Date *7/14/72*

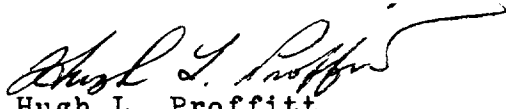
AMC VERIFICATION NOTES
SURVEY H-8500WD

GENERAL

The original smooth plotter's rough drag strip overlays have been lost, so the verification process included the checking of scattered and detached positions and the actual replotting of critical positions controlling the final location of the drag when wrapping shoals and on detached hangs. Forty three of these rough plotting overlays are being forwarded with the records.

The smooth plot was well done and no significant effective depth changes were made. The symbolization and leadered notes were revised to conform with the latest directive. Comparisons were made with prior hydrographic surveys and no conflicts were found with wire drag effective depths.

Junctions were made with adjoining surveys H-8499WD to the Northward and with H-8465WD to the Southward.


Hugh L. Proffitt
Chief, Verification Br., AMC

Norfolk, Va.
Aug. 3, 1972

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Coastal Surveys~~

25 August 1960

Division of Charts R. H. Carstens

Plane of reference approved in
18 volumes of sounding records for

HYDROGRAPHIC SHEET 8500

Locality Muscongus Bay, Maine

E. B. Brown (1954)

Chief of Party: J. C. Ellerbe, (1955)

Plane of reference is mean low water, reading

3.5 ft. on tide staff at Port Clyde

23.0 ft. below B. M. 3 (1944)

3.6 ft. on tide staff at New Harbor, Maine

16.8 ft. below B.M. 1 (1943)

3.5 ft. on tide staff at Port Friendship Harbor, Maine

10.5 ft. below B.M. 1 (1944)

Height of mean high water above plane of reference is:

Port Clyde: 8.9 ft. Friendship Harbor: 9.0 ft.

New Harbor: 8.8 ft.

~~Condition of records satisfactory except as noted below~~

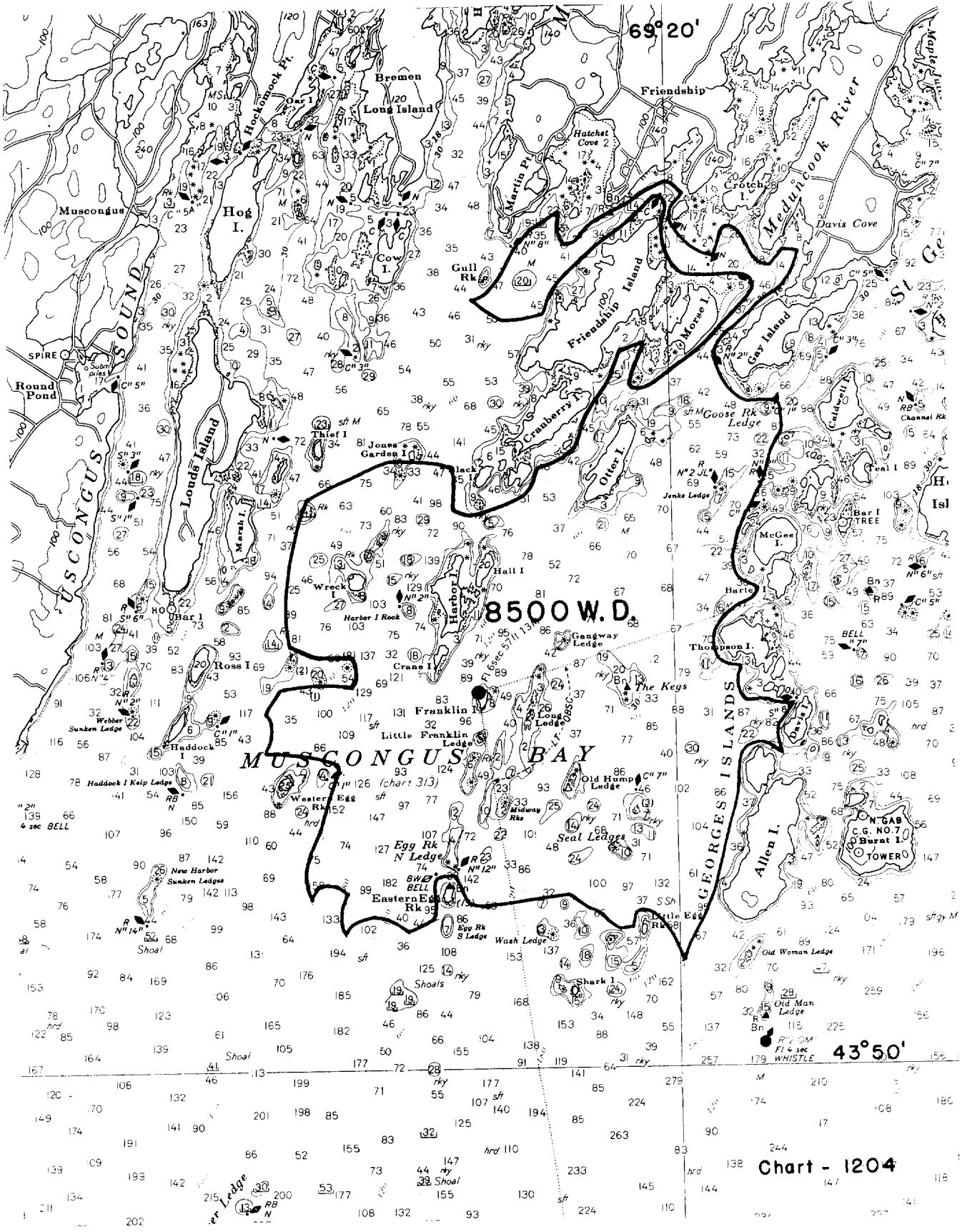
NOTE: Tide reducers for the positions listed below have been revised in red and verified.

<u>Vol.</u>	<u>Positions</u>
1	1 B to 14 B

William Hofus

Chief, Tides Branch

~~Chief, Division of Tides and Currents~~



TIDES: HOURLY HEIGHTS

Station: Muscongus Bay, Maine Year: 1954-55
 Observer: _____ Lat. _____ Long. _____
 Time Meridian: 60° W Height datum is MLW which is _____ ft. below B. M. _____

16-47802-2 U. S. GOVERNMENT PRINTING OFFICE

Month and Day	1954		1954		1955						Horizontal Sum
	mo.	d.	d.	d.	d.	d.	d.	d.	d.		
Day of Series	June 1, Friendship Harbor		Aug 25 Port Clyde		June 6 Port Clyde						
Hour	Feet		Feet		Feet		Feet		Feet		Feet
0
1
2
3
4
5
6
7
8	3.0	
9	6.0	
10
11	.		.		7.3		.		.		.
Noon	.		.		5.3		.		.		.
13	.		.		3.0		.		.		.
14	.		.		1.4		.		.		.
15	.		.		0.6		6.2		.		.
16	.		.		.		4.1		.		.
17	.		.		.		2.4		.		.
18
19
20
21
22
23
Sum

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

Tabulated by gms Date _____ Summed by _____ Date _____

TIDES: HOURLY HEIGHTS

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

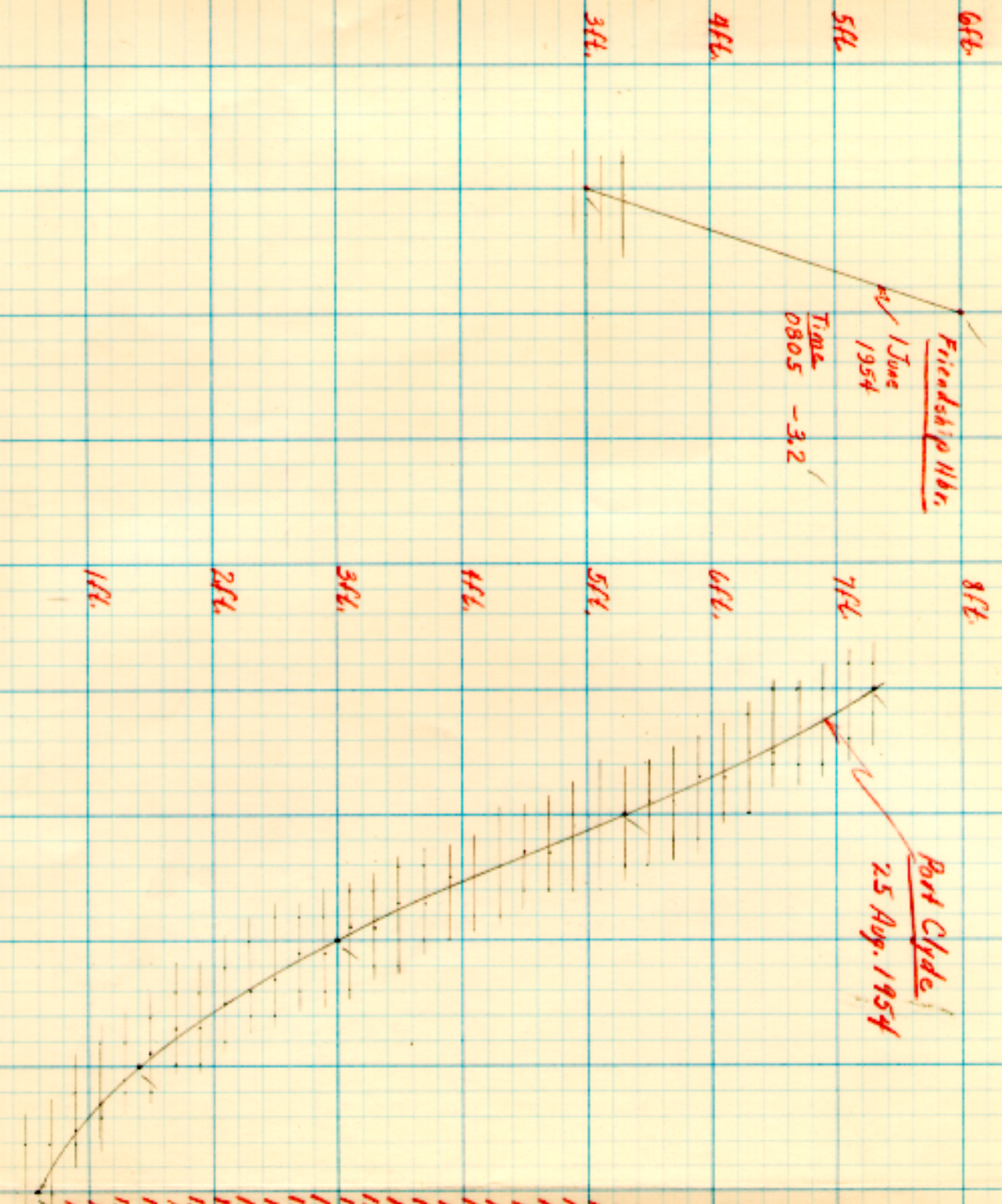
16-47802-2 U. S. GOVERNMENT PRINTING OFFICE

Month and Day	mo. d.		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 _____

08 00 09 00 11 00 12 00 13 00 14 00 15 00



Time	Value
11:00	-110.8
11:04	-111.5
11:16	-112.1
11:22	-112.8
11:29	-113.3
11:34	-114.0
11:41	-114.5
11:46	-115.1
11:52	-115.6
11:57	-120.0
12:01	-120.6
12:07	-121.0
12:11	-121.5
12:16	-122.0
12:21	-122.4
12:25	-123.0
12:31	-123.4
12:35	-124.0
12:41	-124.5
12:46	-125.1
12:52	-125.7
12:58	-130.3
13:04	-130.9
13:10	-131.6
13:17	-132.4
13:25	-133.0
13:31	-133.9
13:40	-134.6
13:47	-135.6
13:57	-140.6
14:07	-141.9
14:14	-143.1
14:32	-150.0

Comp. by - W.M.F.
Checked by - H.L.P.

1500 1600 1700

7.0'

Port Clyde

6. June, 1955

6.0'

5.0'

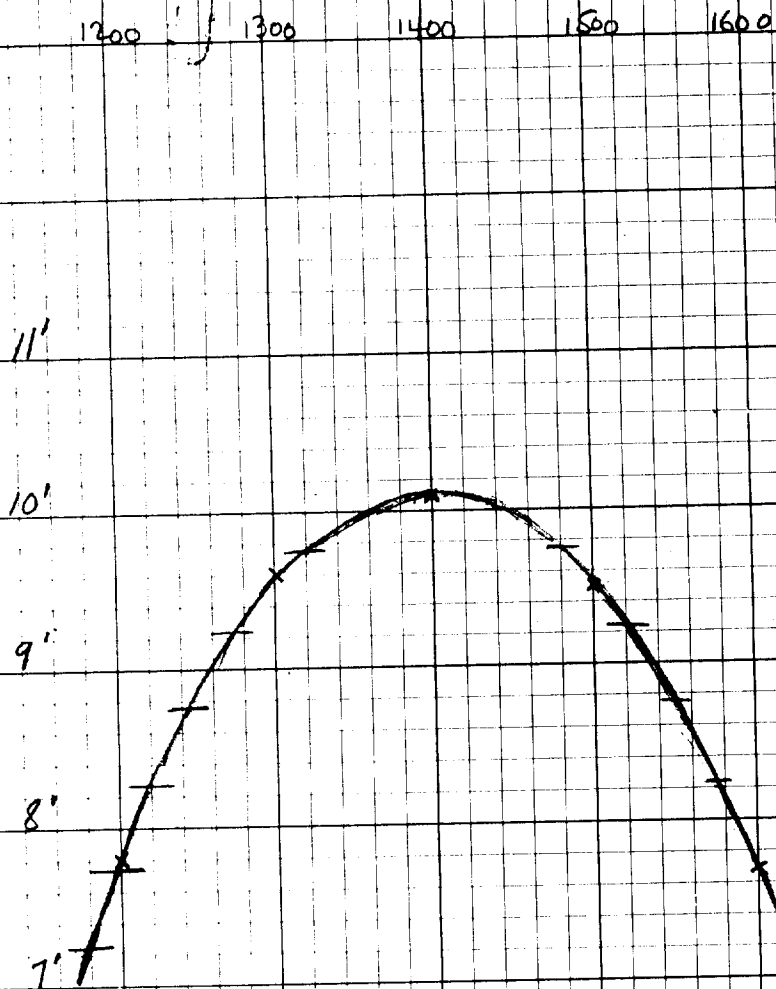
4.0'

3.0'

2.0'

15:00 - 1504	-6.2 ✓
15:05 - 1509	-6.0 ✓
15:10 - 1516	-5.8 ✓
15:17 - 1520	-5.6 ✓
15:21 - 1527	-5.4 ✓
15:28 - 1532	-5.2 ✓
15:33 - 1538	-5.0 ✓
15:39 - 1543	-4.8 ✓
15:44 - 1549	-4.6 ✓
15:50 - 1554	-4.4 ✓
15:55 - 1600	-4.2 ✓
1601 - 1606	-4.0 ✓
1607 - 1613	-3.8 ✓
1614 - 1619	-3.6 ✓
1620 - 1626	-3.4 ✓
1627 - 1633	-3.2 ✓
1634 - 1640	-3.0 ✓
1641 - 1648	-2.8 ✓
1649 - 1656	-2.6 ✓
1657 - 1700	-2.4 ✓

Comp by - W.W.F.
Checked by - H.L.P.



TIDE CURVE - PORT CLYDE, MAINE

22 JULY, 1955

ACTUAL READINGS - HYDRO. DEVELOPMENT

SOUTH BLACK ISLAND - SHEET 1354 MD

PROJECT CS-265

TIDES: COMPARATIVE READINGS

Station: Friendship, Maine Lat. 43° 58.2' N
 Party of E. B. BROWN Time meridian 60 Long. 69° 20.4 W
 Obs. begin _____ Obs. end _____ Tabulated by _____ Date 23 June 1954
 Tide gage No. _____ Scale _____ Preliminary scale setting of datum line _____ feet

DATE		TIME OF STAFF READING		STAFF A	SCALE B Above MLW	DIFFERENCE A-B	PHASE OF TIDE*	REMARKS
Year								
mo.	d.	h.	m.	feet	feet	feet		
		14:33		10.15	6.68		R	These are staff observations for reduction of soundings MLW is 3.47 above staff zero
		14:51		10.75	7.28		R	
		15:00		11.05	7.58		R	
		15:13		11.48	7.88		R	
		15:27:30		11.80	8.33		R	
		15:43		12.20	8.73			
		15:55		12.40	8.93			
								Scale setting for..... to
								Sum of differences.....
								Mean difference.....
								Preliminary setting.....
								Setting for reduction to tide staff.....
								Constant for fixed datum.....
								Setting for reduction to fixed datum.....

* In the column headed "Phases of Tide" write the appropriate one of the four following symbols; H, for high water; L, for low water; R, for rising tide; and F, for falling tide. Use Form 138 for tabulating high and low water.

ATTACHMENT 5

BAR

CHECK

NO. DATE 10 15 20 25 30 35 40 45 50 55 PHASE CORRECTION B TO A SCALE

WAINWRIGHT FATH. 58-S - 2.0' Initial

1	7/19/54	0.00	0.0	-0.1	-0.2	-0.4	-0.8	-1.2	-1.1	-1.4	-0.8	-1.0	-1.1
2	6/3/54	f0.50	f0.40	f0.30	f0.20	f0.25	f0.10	f0.25	f0.20	-0.15			
3	7/20/54	f0.15	0.0	0.0	-0.05	-0.10	-0.10	-0.15	-0.20	-0.20	(-0.10)	f0.85	-0.60 (-0.20)
Mean of 2&3		f0.32	f0.20	f0.15	f0.08	f0.08	f0.00	f0.05	0.0	-0.18	Mean B to A correction is (-)0.87'		

HILDARD FATH. 139 SIX - 2.0' Initial

1	4/19/54	f0.70	(0.0)	f0.25	(-0.30)	0.0	f0.15	f0.15	0.0	0.0			
2	6/3/54	0.0	0.0	-0.30	-0.10	-0.30	-0.40	-0.90	-1.20	-1.0			
3	7/20/54	(0.0)	(-0.30)	(-0.40)	(-0.40)	0.0	0.0	0.0	0.0	-0.3			
FATH. 138 SIX - 2.0' Initial													
Mean B to A correction is (-)2.98'													

(Bar check taken in fathoms)
Mean B to A correction is (-)2.98'

LAUNCH #171 FATH. 139 SIX -

1	6/3/54	0.0	0.0	-0.10	0.0	-0.10	-0.3	-0.45	-0.50	-0.4			
2	7/20/54	f0.20	f0.15	0.0	f0.10	f0.05	0.0	0.0	0.0	-0.15			
Mean of 1&2		f0.10	f0.08	-0.05	f0.05	-0.02	-0.15	-0.22	-0.25	-0.28	Mean B to A correction is (f)2.38'		

() values indicated thus have been rejected

FATHOMETER CORRECTIONS

ATTACHMENT 6

LAUNCH 171

Fathometer No. 139 SPX - Initial set at 0.0

A RANGE		B RANGE	
<u>DEPTH</u>	<u>CORRECTION</u>	<u>DEPTH</u>	<u>CORRECTION</u>
0 - 44'	0.0'	35' - 44'	0.0
45' - 50'	-0.5'	45' - 90'	-0.5'
Range correction B to A use $(\neq)2.5'$			

Fathometer No. 138-SPX - Initial set at 0.0

0 - 30'	0.0	35' - 44'	-0.5'
31' - 44'	-0.5'	45' - 55'	-1.0'
45' - 50'	-1.0'	56' - 64'	-1.5'
		65' - 73'	-2.0'
		74' - On	-2.5'
Range correction B to A use $(-)3.0'$			

SHIP HIGARD

Fathometer No. 139-SPX - Initial set at 2.0'

A RANGE		B RANGE	
<u>DEPTH</u>	<u>CORRECTION</u>	<u>DEPTH</u>	<u>CORRECTION</u>
0- 21.5'	$\neq 0.5'$	35' - 90'	0.0
22' - 50'	0.0		
Range correction B to A use $(\neq)2.5'$			

Fathometer No. 138-SPX - Initial set at 2.0'

0- 30'	0.0'	35' - 44'	-0.5'
31' - 44'	-0.5	45' - 55'	-1.0'
45' - 50'	-1.0	56' - 64'	-1.5'
		65' - 73'	-2.0'
		74' - on	-2.5'
Range correction B to A use $(-)3.0'$			

(Continued)

ATTACHMENT 6 Continued

FATHOMETER CORRECTIONS

SHIP HILGARD

Fathometer No. 138-SPX - Initial set at 0.33 fms.

<u>A RANGE</u>	<u>CORRECTION</u>
0 - 13 fms	0.00 fms
13 - on	-0.50 fms

SHIP WAINWRIGHT

Fathometer No. 58-S, Initial set at 2.0' (period of April thru May)

<u>A RANGE</u>		<u>B RANGE</u>	
<u>DEPTH</u>	<u>CORRECTION</u>	<u>DEPTH</u>	<u>CORRECTION</u>
0 - 24'	0.0'	35' - 45'	-1.0'
25' - 34'	-0.5'	46' - 59'	-1.5'
35' - 46'	-1.0'	60' - 74'	-2.0'
47' - 50'	-1.5'	75' - 90'	-2.5'

Range correction B to A use (-)1.0'

(period of June thru Oct.)

0 - 13'	-0.5'	35' - 64'	0.0'
14' - 50'	0.0'	65' - 90'	-0.5'

Range correction B to A use (-)1.0'

U
Sheet 1357
- 5 -

U. FATHOMETER CORRECTIONS - 1954 Season

Fathometer No. 58-S was used on the Ship WAINWRIGHT throughout the field season. Three bar checks were obtained during this period. An "A" to "B" scale comparison was taken on the first and third bar check and the mean value for correction to the "A" scale obtained. The value thus determined was (-) 0.87 feet to be applied to "B" scale readings. The value actually applied was (-) 1.0 feet in accordance with paragraph 822 of the Hydrographic Manual. A very definite change in corrections was noted between the first bar check and the latter two bar checks. After study of previous conditions of the same general locality it was decided best to use the first bar check for all corrections in the period April through May. The latter two bar checks were found to be in reasonable agreement and corrective values were meaned. Curves were plotted of Correction vs Depth, corrections to be applied to soundings were then scaled from the curves in accordance with paragraph 822 of the Hydrographic Manual. All bar checks for the Ship WAINWRIGHT were referred to a 2.0 foot initial and index corrections were applied when necessary.

On the Ship HILGARD fathometer No. 139 SPX was used through the period 12 May and No. 138 SPX for the remainder of the season. One bar check was made while No. 139 SPX was in use and a curve plotted as explained in above paragraph. The corrections to be applied were determined in the same manner as stated above. No "A" to "B" scale comparison was made while this fathometer was in use aboard the HILGARD but a value of (✓) 2.38 feet was determined from comparisons made when the fathometer was installed in Launch No. 171. This type of error is inherent in the machine and will remain constant in either vessel. The actual correction applied was (✓) 2.5 feet in accordance with paragraph 822 of the Hydrographic Manual. During the period while fathometer No. 138 SPX was in use two bar checks were made. However the latter bar check was considered to be very poor and was rejected. A curve was plotted as explained above and corrections thus determined and applied. All checks were referred to a 2.0 ft. initial.

An "A" to "B" scale comparison was made with fathometer No. 138 and the value determined to be (-) 2.98 feet. The correction applied to all "B" scale readings was (-) 3.0 feet.

Fathometer No. 138 SPX was used in launch 171 to 12 May but no bar checks were made during this period. Because of lack of information the corrections as determined while this machine was aboard the HILGARD were used referring the bar check to a zero initial.

During the remainder of the field season fathometer No. 139 SPK was used in Launch CAGS-171. Two bar checks were obtained and the mean value of the two used in plotting the velocity curve. An "A" to "B" scale comparison was made during each bar check and the mean value determined to be (\bar{x}) 2.38 feet as mentioned in paragraph two (2) above. A correction of (\bar{x}) 2.5 feet was applied to all "B" scale readings.

The effective radius of the stylus arms was measured on all fathometers and found to be within the proper limits.

See attachment 5 for abstract of bar checks and attachment 6 for abstract of fathometer corrections.

use for reference in writing report.
JFW

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
WASHINGTON 25, D.C.

IN REPLY, PLEASE ADDRESS THE
DIRECTOR, COAST AND GEODETIC
SURVEY, AND NOT THE SIGNER
OF THIS LETTER, AND REFER TO


NO. 36-219-267

1960 June 1960

To: Norfolk District Officer
Coast and Geodetic Survey
102 W. Olney Road
Norfolk 10, Virginia

Subject: Tidal Data, Muscongus Bay, Maine
Survey H-8500 (Wa-Hi-1354 W.D.)

As requested in your letter of 18 May 1960,
hourly heights referred to mean low water, are enclosed.
These heights, to be used without correction over the
areas of the survey, are taken from the tide records (as
indicated) for Friendship Harbor and Port Clyde, Maine.


K. G. Crosby, Chief
Tides and Currents Division

Enclosure

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

N-F-4
2/28/55

POST OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS ADDRESS:

Sheet 2354

Strips EG

13 June 55

Position ? AA

length 1500

section 300

upright 22

Tow 37

171 has Southern guide line

Wilson has Northern guide line

3 min files

Tides at Port Clyde

7/22 Port Clyde 3.5' zero - MLW

Time Ht.

12 - 14.3 - 3.5 = 7.8 above M & W

13 - 13.1

14 - 13.6

15 - 13.0

16 - 11.2

sheet 1354

Pos 46

F day 25 June 54

1300

Length = 2400

Section = 300

Uprights = 33

Tow = 104

Hil sets F & 3

Wain sets N & 4 200' on dows tog

Hil has A guide from E to west
strip (L)

N-1-2-~~3~~4 to be raised 7'
to setting 26

Sheet 1354

Gray Pool

28 June

1245

Strip T

Length of drag 1000

Section 200

Upright 36

Tow 104

Hilgard sets F + Z

Wain sets N + Z + 200' double toggle

Hilgard has E line N to S

4.7

Sheet 1354

Pos

149

28 June 1954

1400

Length of Drag 1500

Section 300

Upright 33

Tow 104

Hi sets $F + 2$

Wa sets $X + 2 + 200' \text{ d.T}$

Hi has eastern line running S to N

Strip H

Sheet 1354

Pos 259

28 June 1954

1425

Drag Ship R

Length 1500

sect 300

Upright 12

Tow 74

Hi sets F+2

Wa sets N+2 +200

Hi has Eastern guide line N to S

Sheet 1354

20

T-3-2

Pos 14

Day 22 June 54

1000

Length = 3000

sect = 300

Uprights = 34

Tow = 74 m

Hel Sect F & 4

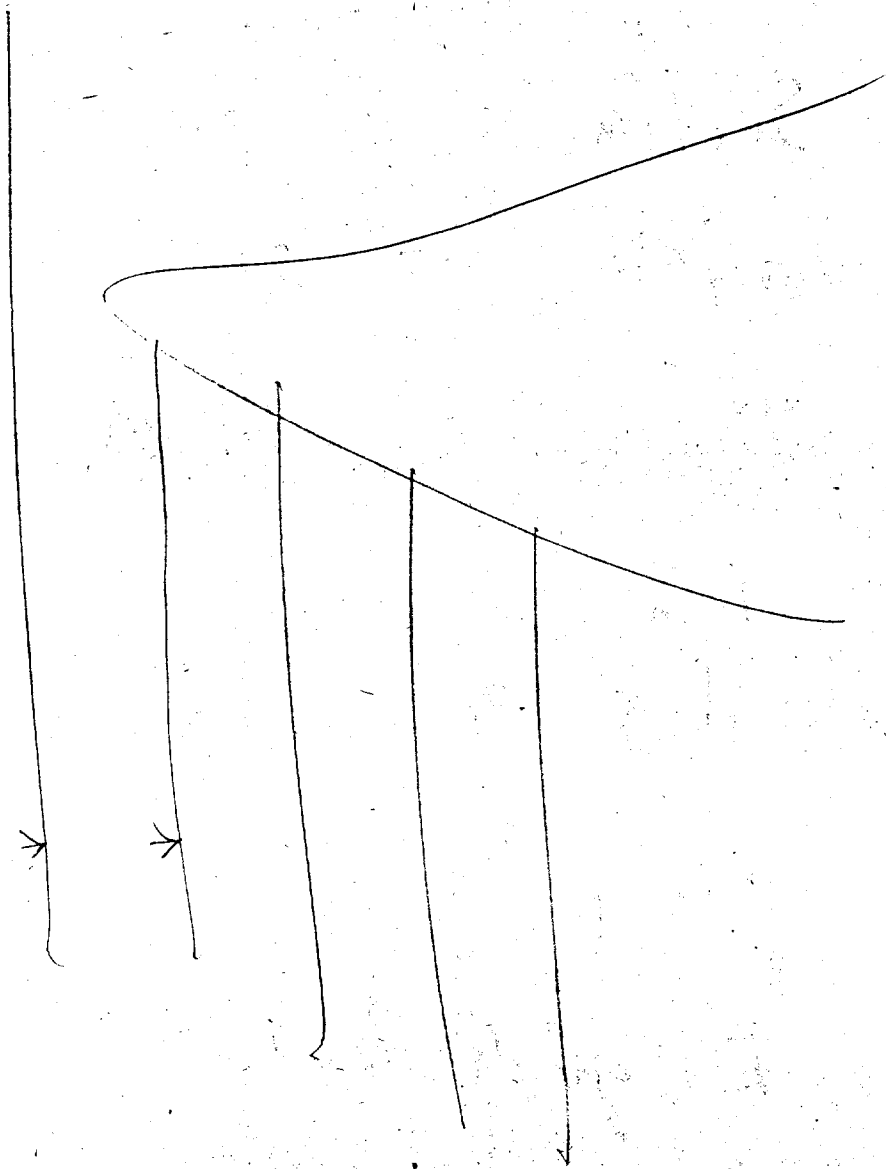
Wain sub N & S 200' m double top

Strip A from N to S

Hel has E guide

Raise 2-3-4
to cross 29

4 feet to 30
5



Sheet 1354

D day 22 June 54 Pos 1300

Length = 1400
Set = 200
Springs = 19
Tows = 74

Hil sets F 2 3
Wain " N 2 3

200' m. darts top

Hil has ~~A~~ W guide from S to N

Start point ϕ 43 54 30 + 245

λ 69 24 30" + 70

True course = 30

Clearing strip ~~for~~ charted 10

Sheet 1354

(6)

18

pos 4.6

D day 22 June 54

13 20

Length = 2700

Section = 300

Uprights = 26

Tow = 74

Hil Sets F & 4

Wain Sets N & 4

200' on
dumb log -

Strip J from S to N

Hil has W guide line to overlap
work pos 1 to 13 D day

Sheet 1354

Pos

D day 22 June 54

1100

Length = 2700

Section = 300

Uprights = 30

Tow = 74

Hel sets F & 4

Wain sets N & 4

200' in dawl top

Strip B from E to W

Hel has N guide line

Sheet 1354

17

B day 17 June 54

1030

Length = 800

Section = 200

Uprights = ~~13~~ 14

Tow Launch 171 = 30 m
Wain = 44 m

Hil vts F

Wain N + 3

Sheet 1354

23⁴

A day 16 June 54

~~16~~
1670

Length = 2400

Section = 300

Oprights = 27

Tow = 74

Hil sets F & H

200' m
dub's toy

Wain sets N + 3

Hil has W guide

SW to NE

Sheet 1354

A day 16 June 54 pos 1
13 30

Length of drag = 1000

Sections = 200

Yprights = 25

Tow = 44

Hil sets F R ~~2~~ 200' on
doubt top

Ward sets N & 2

Hil has SE guide line

sheet 1354

Pos 9

F day · 25 June 54

0930

Length = 3300

Section = 300

Uprights = 41

Tow = 104

Hil set F 25 200' or

Wain " N 25 →

strip F from N to S

Hil has F guide -

Sheet 1354

F day 25 June 54

pos 1

of 30

Length of drag = ~~2700~~²⁷⁰⁰
Section = 300
Uprights = 27
Tows = 74

Hil sets F & \$4

Main sets N & \$4 200' on dows log

Strip dog from N to S

Hil has western guide line

Sheet 1354

F day 24 June 54

Pos 28

1400

Length = 3000

Section = 300

Uprights = * ~~N-1~~ ~~entire drag~~ 37
= ~~30~~

~~2-F~~ = ~~38~~ 37

Tows = 104

Hil sets F & 4

Wain " N & 5

200' on dows top

* N-2 at 38

3-4 at 37 - tender forerwing
those to 38

5-F at 38

sheet 1354

Friday 24 June 54

Pos 1
1020

Length = 2150

Section = 300

Uprights = 34

Tow = 74

Hil 200 F & 3

Wain 200 N & 3 200' in dials top

Strip AF from N to S

Hil has F guide

Strip revised as follows:

start point ϕ 43 55 + 760 \times 69 21.5 + 210
course 187 1/2 T ϕ 43 54.5 + 230 \times 69 21.5 + 425
course 196 to guide line as originally laid out

Sheet 1354

9
2
24
35

E day 24 June 54

Pos 56

1630

Length = 2700

Section = 300

Sprights = 35

Tow = 104

Hil sets F 2 4

Wain sets N 2 4 200' on dark top

Hil has Western guide ~~from~~ running

0° T from ϕ 55' + 710

λ 23½ + 355

sheet 1354

128
11/15/54
2132

F day

24 June 54

~~Pos 1~~
~~0900~~

Length = 2700

Section = 300

Uprights = 23

Tow = 74

Hil sets F & 4

Wairi set N & 4 200' on down to

Hil has western guide from N to S
strip D

Sheet 1354

day 30 June 54

Pos 1
08 30

Length of drag = 1000

Section = 200

Uprights = 27

Tow = 74

Hil sets F & 4

Wain sets N & ~~4~~ 4 200' on dows toq

strip S from E to W

Hil has southern guide line

Sheet 1354

day 30 June 54

Pos 14

1000

Length = 3300

Section = 300

Uprights = 40

Tow = 104

Hil sets F 2 6 200'

Wain sets N 2 4

~~Hil~~ Has Southern guide to
overlap work of last Friday

409
609
409

175

849
549
549

Sheet 1354

Ship EP

16 June 1955

Position ? DA

Length 2100

Section 300

Upright 19

Tow 74

15
2
2
<hr/>
19

Wai sets N + 3 + 200 on double toggle

Hit sets F + 3

Hit has Southern g.l. ~~E to E~~ ^{W to E}

3 min fuses

2 1/2
2 1/2
5

Sheet 1354

Bday 17 June 54 Pos 1
08 15

Length = 2400
Section = 300
Uprights = 25
Tons = 74

Hil sets F & 3

Wairu sets N & 4 200' on deck top

Strip JM

Hil Has ~~SE~~ guide from
SW to NE (over)

after hang raise N 1 & 2

3 feet to

~~effective~~

uprights 2:2

N-2
S-F
2:2
25-

Hang Data Sheet - 1354

No.	h	Grm Profth ft	Fath Sdg	Min Hong	Position	Mo'y clear	Pos. No.	Remarks
1	43°-57.92'	15 to 20	9.5	15	1 to 13A	7	27 to 33B	(See about letter of 6/29/54) Expansion of steel ledges (See Sec. 1.) Known 18' shoal ✓
2	43°-58.08	18	—	16	14 to 22A	14	23 to 32A	See about letter of 6/29/54 Known 25' shoal ✓
3	43°-57.42	25	24.5	23	33 to 38A	21	39 to 47A	(See about letter of 6/29/54) ✓
4	43°-57.97	20	19	20	1 to 14B	15	19 to 26B	Lesser depth - Inside 30' curve ✓
5	43°-55.52	28	—	27	27 to 37D	23	56 to 61E	hamp & pulled free Expansion of steel ledges (See about letter of 6/29/54) Known 10' shoal ✓
6	43°-54.77	10	8	8	64 to 68D	3	68 to 73D	Lesser depth than charted - [See about letter of 2 July 1954] ✓
7	43°-24.60	20	—	29	14 to 24G	—	—	Wapped known shoal ✓
8	43°-23.04	—	—	—	—	—	—	
9	43°-24.60	—	—	—	—	—	—	
10	43°-23.60	—	—	—	—	—	—	
11	43°-24.23	—	—	—	—	—	—	
12	43°-24.60	—	—	—	—	—	—	
13	43°-24.60	—	—	—	—	—	—	
14	43°-24.60	—	—	—	—	—	—	

Sheet 1354

L day

3 May 1955

Pos 1 L

Strip H

Length	1800	9
sect	300	$\frac{1}{2}$
Up	23	$\frac{7}{2}$
Tow	104	<hr/> 18
		13
		$\frac{1}{2}$
		$\frac{3}{2}$
		<hr/> 18

Wain sets $N + 3 + 200$

H_i sets $F + 2$

H_i has E guideline S to N

3 min fits

293 T
140 m

Sheet 1354

K day

27 May 1955

Pos 67K

strip 14

Length 1800

Sect 300

Up 17

Tow 104

Wain set $N+3 + 200$

Hi set $N+2$

Hi has E guideline St N

3 min bits

13
1 1/2
2 1/2
17

170

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

[Faint, illegible handwriting]

Sheet 1354 1 day 2 May 1955
Poo 115 Strip A
Length 3900
Sect 200
Uprights 40
Tow 104

Wain sets $N + 6 + 200'$
Hi sets $F + 6$
Hi has W guide line N to S
Three min files

Sheet 1354

Pos 391K

K day
Strip E

2 May 1955

Length 3900

Sect 300

Uprights 34

Tow 104

Wainsets N+6+200

H_i sets F+6

H_i has E guide line St N

3 min files

30
1
3

Sheet 1354

Drag strip

9 May 1955

Pos 1P

Length

2700

300

20

Section

N-1 30

35

Uprights

3-4-5 40

1st

2 after change

6 35

Tow

74m

7-8-F 30

3ft

Ki sets F + 4 + 200' on double toggle

Wain sets N + 4

Hil has eastern guide line N to S

3 min files

N	1	2	3	4	5	6	7	F	F
	30	30	35	40	40	35	30	30	30
	N	2	3	5	6			F	

Sheet 1354

6 May 1955

Pos 12 NAN

Drag strip G

Length 2100

Section 300

Upright N-F 24'

Tow 74 m.

Wain sets N + 3

Hil sets F + 3 + 200 on double toggle

Hil has eastern guide line S to N

3 m. fixes

20 ✓
2 ✓
2
24

14.88
85.00
1.63
25.40
126.91

248.00
126.91
121.09

248
12
496
248
2976

121.09
116.85
4.24
248.00
.06
148800

60.00
61.09

63.00
58.09
121.09

Sheet 1354

6 May 1955

Pos 1 N

1345

Drag strip ~~1345~~

Length

1800

300

Section

N-3 277

Uprights

4-F 264

Tow

74

17
<u> </u>
26

Main sets N+3

Hi sets F+2 + 200' on double toggle

Hi has eastern guide line N to S

3 min files

Sheet 1354

M day

5 May 1955

Position 23

Drag strip B

Length 3600

Set 300

rip 40

Tow 104

Main set N + 6 + 200

Hi sets F + 5

Hi has Eastern Guideline, N to S

3 m. Piles

30
2
8
40

- N-1 = 20
- 2 = 25
- 3: 45-6 = 30
- 7 = 25
- 8-F 20

Sheet 1354

M day

5 May 1955

Pos 1M

0815

Drag strip F

Length

1800

Sect

300

up

28

Tow

74

20
21
22
23
24
25
26
27
28

Wain sets

N+3+200

Hi sets

F+2

Hi has E guide line N to S

3 min files

Sheet 1354

L Day

3 May, 1955

Position 36 strip F (to South)

Length 1800

Sect 300

Up 23

Tow 104

20
1
2

23

Main sets N + 3 + 200

Hi sets F + 2

Hi has east guide line

3 min Fixes

Sheet 1354

Drag Ship L

9 May, 1955

Pos 17 P

Length 2400

Section 300

upright N-F 37

Tow 74 m.

Hil sets F + 3 + 200 on double toggle

Wai sets N + 41

Hil has eastern guide line N to S

3 min fixes

30
5
<hr/> 2
37

Sheet 1354

O day
Drag Strip *

11 May 1955

Pos 1 Q

Length 3000

Section 300

Eyepoint 28

Law 74 m

20
2
6

28

Hi sets F+4 + 200' on double toggle.
Wa sets N+5

Hi has W guide line S to N

3 min files

Sheet 1354

Diag Strip 'P

17 May '58

Position S

length 3000

Section 300

upright 37

Tow 74

30
41
2
37

Wai sets N + 5

Hil sets F + 4 + 200 on double toggle

Hil has western guide line N to S

3 min fixes

Sheet 1354

Drag trap X

17 May, 1955

Position 1 S

length 2400

section 300

upright 19

Tow 74 -

Wai N + 3

Hil sets $F + 4 + 200$ on double toggle

Hil has northern guide line E + W

3 min fixes

10
8
1
19

Sheet 1354

Drag slip D

¹⁶
~~15~~ May 1958

Position

length 2100

section 300

upright 10

Tow 74 m

Wai N+3

Hil F+3 + 200 on double toggle

Hil has eastern guide line S to N

3 min fixes

8
12
1
10

13.8
12.5

Sheet 1354

Drag Strip C

15 May 1955

Position 1 R

length 2400

section 300

upright 24

Tow 74 m

Pos. 12 R reset drag #1, 2, 3 to B

N, 1, 2, 3, F = 20'

5 - F = 24'

20
2
2
24

Wai sets N + 3

Kel sets F + 4 + 200 on double toggle

Kel has Southern guide line, W to E

3 min fixes

24 M

Sheet 1354

Drag ship N

17 May 55

Position 19 S

length 1800

section 300

Upright 22

Tow 74 m.

Wai sets N + 3

Hil sets F + 2 + 200 on double toggle

Hil has Southeastern guide line N + S

3 min fixes

20
1
1

Sheet 1354

Drag ship M

17 May 55

Position

length 2100

section 300

Upright 22

Tow 74

Wai sets N + 3

Hil sets F + 3 + 200 on double toggle

Hil has Northwestern guide line N to S

3 min fixes

Sheet 1354

strip AB

27 May 55

Position 1 V

length 3900

section 300

upright 32

Tow 104

30
2
0
32

Wai sets N + 6

Hil sets E + 6 + 200 on double toggle

Hil has western guide line

3 min files

102	36
70	

77
38
39

93	36
73	
166	109

25
7
32

89	34
76	
165	110

85	30
80	

8-9-10

Sheet 1354

Strip D

27 May 1955

Position ? V

Length 2700

Section 300

Upright ~~N thru 5 - 41~~ N - 4 - 41

~~6 thru F - 37~~ 5 - 3 - 37

Tow 104 Wai 6 - F 32
74 Hil

Wai sets N + 4

Hil sets F + 4 + 200 on double toggle

Hil has western guide line N + 8

3 min fixes

HILGARD & WAINWRIGHT

~~20
9
7
31~~

21
9
2
32

678 F

Reset 6-F at 30

Reset 6-7 at 27

5 at 34

20
9
1
30

N

Sheet 1354

Strip Z

6 June 1955

Pos ? Z

Length 3600

Sect 300

upright 30

Tow 74

Wai sets

N + ~~5~~

Hil sets

F + ~~6~~ + 200 on double toggle

Hil has Northern guide line, $\frac{W}{E}$ to $\frac{E}{W}$

3 min fixes

Sheet 1354

Strip G

6 June 1955

Pos ? Z

Length 2400

Section 300

upright 15

Tow 74 m.

Wai sets N + 3

Hil sets F + 4 + 200 on double toggle

Hil has - western guide line N to S

3 min fixes

20
8
1
—
30

9
4
2
—
15

Sheet 1354

Strip B

6 June 1955

Pos: ? Z

Length 3000

Section 300

Upright 27

Tow 104

Wai sets N + 4

Hil sets F + 5 + 200 on double toggle

Hil has Southern guide line W to E

3 min fixes

20
15
21
27

Sheet 1354

~~Strip Y~~
~~7 Day~~

6 June 1955

Pos 12

Length 2700

Section 300

Upright 15'

Tow 74 m.

Wai sets N + 4

Hil sets F + 4 + 200 on double toggle

Hil has Northern guide line E to W

3 min fixes

10
3
2

15

Sheet 1354

Strip A

3 June 1955

Position 1V

Length 5200

Section 400

Upright N-6 - 40' 38"

7-8 - 34' 37"

9-F - 40' 38"

Tow 104'

Wai sets N+6

Idel sets F+6 + 200 on double toggle

Idel has Eastern guide line N to S

3 min fives

30
9
2
<hr/>
40
29
8
2
<hr/>
39

sheet 1354

Strip C

2 June 1955

Position 1 X

length 3900

section 300

upright 36 33

Tow 104

Wai sets N + 6

kil sets F + 6 + 200 on double toggle

Hil has Eastern guide line N + S

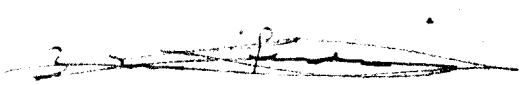
3 min fixes

30

4

2

36



Sheet 1354

Strip E

1 June 1955

Position W

Length 3600

Section 300

upright 33

Tons 104

30
1
2

33

Wai sets N + 5

Hil sets F + 6 + 200 on double toggle

Hil has Southern guide line W to E

3 min files

N-1-2-3 26
3-4-5 22
6 26

Sheet 1354

Strip E

1 June 1955

Position 1 W

Length 3600

Section 300

Upright 30

Tow 104

20
8
2
30

Wai sets N + 5

Hil sets F + 6 + 200 on double toggle

Hil has Eastern guide line N to S

3 min fixes

Sheet 1354

Strip H

1 June 1955

Position 11 W

Length 3600

Section 300

Upright 23

Tow 104
Wai sets N + 5

18
6
2
23

Hil sets F + 6 + 200 on double toggle

Hil has Eastern guide line N to S

3 min fixes

Sheet 1354

Strip I

1 June 55

Position 28 W

length 2100

Section 300

upright 24

tow 74

Idil sets F + 3 + 200 on double toggle

Wai sets N + 3

Idil has western guide line S to N

3 min files

~~20~~
2
~~2~~
24

Sheet 1354

Strip AA

1 June

Position 2 W

length 800

Section 200

upright 33

Tow 74

Wai sets N + 1

Idil sets F + 2 + 200 on double toggle

Idil has southern guide line W to E

3 min files

30
1
~~2~~
33

3600

300

33

104

80
120
16
80
960

Sheet 1354

Strip AC

26 May 1955

Position - 1 U

Length 2700

Section 300

upright 25

Tow 74

16
7
2
—
25

Hil sets F+4 + 200 on double Toggle

Wai sets N+4

Hil has western guide line S to N

3 m fixes

Sheet 1354

Strip AD

26 May 1955

Position 16 U

Length 2700

Section 300

upright 31

Tow 74 m

20
2
9
—
31

Hil sets F+4 + 200 on double toggle

Wai sets N+4

Hil has western guide line N to S

3 m Fixes

Sheet 1354

Strip EA

15 June 1955

Pos 41 CA

Time 1540

Length 1800

Section 300

Uprights 14

Total 37

8
1
5

14

Hi sets E + 2

Wa sets W + 3 + 200'

Hi has W guideline S to N

3 min piles

Sheet 1354

Strip "Extra"

16 June 1955

Pos 1 DA

Length 1800

Section 300

uprights 18'

Tow 37

8

2

8

18

Hil Sets F+2

Wai Sets N+3 + 200 on double toggle

Hil has Western guide line N to S

3 min files

Sheet 1354

Strip E F

14 June 1955

Pos 26 BA

Time

Length 1000

Section 200

Upright 14

Tow 37

Laurel 71 has ~~eastern~~ western guide line

Wilson has ~~western~~ eastern guide line

Buoys N-F = 4

3 min fixes

12
1
1

14

Sheet 1354

14 June 1955

Time 1630

Length 1200
Section 300

8
1
8

17

Upright

Tow 37

Laurich 171 has western guide line

Wilson has eastern guide line

Buoy N-F + 3

3 min files

Sheet 1354

Strip EG

14 June 1955

Box 1 BA ba
(1 ba)

Time 0900

Length 1500 ft
Section 300

12
1
4
—
17

Weights 17

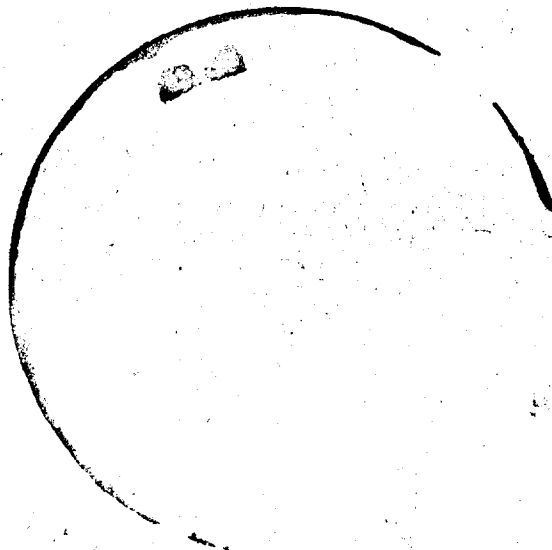
Tow 37 m

Launch 171 has southern guide line

Wilson has northern guide line

Milgard sets N-F-4

3 min files



Sheet 1354

AA day

13 June 1955

Strip EK

Time 1340

Length 400
Section 200
Uprights 18
Tow 37

12
2
4

18

Launch 171 has E guide line N to S

Wilson has W guide line

Wa sets N-F + 1

3 minutes

Sheet 1354

AA day

13 June 1955

Strip EL

Time 1300

Length 1000

Section 200

Uprights 15

Tow 37

12
1
2
15

Launch 171 has NW guide line NE to SW

Wilson has SE guide line

Wainwrights to N-F + 4

3 min files

Sheet 1354

15 June 1955

Pos ~~1ca~~ 1ca

Time 0900

Length 1200

Section 300

Uprights 19

Tow 37

8	8
<u>0.5</u>	<u>3.5</u>
8.5	0

12
<u>6</u>
19

Launch 171 takes eastern guide line N to S

Wilson takes western guide line

Booy N-F+3

3 minutes

Sheet 1354

Strip ED

16 June 1950

Pos DA

Length 2100

Section 300

upright N-1 = 15 ; Z-F = 14

Tow Wai 37 - Hil 74

Wai sets N + 3 + 200 on double foggie

Hil sets F + 3

Hil has Northern guide line E to W

3 min. fixes

8
1
5
14

Sheet 1354

Strip EC

16 June 1955

Ros ? DA

length 2400

section 300

upright 13

Tow 74

Wai sets $N + 7 + 200$ on double toggle

Hil sets $F + 3$

Hil has NE guide line W to E

3 mm fixes

12
1
0

13

sheet 1354

Strip EN (return)

20 June 55

length 1800

section 300

uprights 15

Tow 74

Wai sets $N+3+200$ on d.T.

Kil sets $F+2$

Kil has eastern guide line $N+0.5$

3 min fixes

13.
2
0

15

Sheet 1354

Strip ER

20 June 58

Pos. 5 FA

length 1200

Section 200

upright 18

ton 37

8

8 1/2

1 1/2

18

Nai sets N + 3 + 200 on d.T.

Hil sets F + 2

Hil has Eastern guide line N to S

3 min fives

Sheet 1354

Strip EM

20 June 55

Position FA

length 1800

section 300

upright ~~3~~ 28

Tow 74

Wai sets N+2

Kil sets F+3+200 on d.t.

Kil has eastern guide line N to S

3 min files

20
2
2
28

1530

Wai N+3+200 on doub. Tog

Kil F+2

Buoys at 24

20
2
2
24

Sheet 1354 Strip EN

20 June 55

Pos 10 FA

length 1800

Section 300

Upright ~~37~~ 25

Tons 74

Wai sets N + 2

Hil sets F + 3 + 200 on double Toq.

Hil has Eastern guideline N to S

3 min files

13	10
9 1/2	9 1/2
2 15	2 15
24	32

Sheet 1354

Strip EN (revised) 21 June 1955

Pos 1GA

Time 1400

Length 1800

Sect 300

Up 22

Tow 74

Hi sets F+2

Wa sets N+3 + 200 on double toggle

Hi has eastern guide line N to S

3 min files

13
1

8
22

37/50
79/

28/50
76/30
67/30
41/10
49/90
97/100
82/80 8-22
37/110 6-18
22/130 7-18
55/110 5-22
57/90
39/70
/

E = 32
GA = 6

sheet 1354

Strip D

23 June, 1955

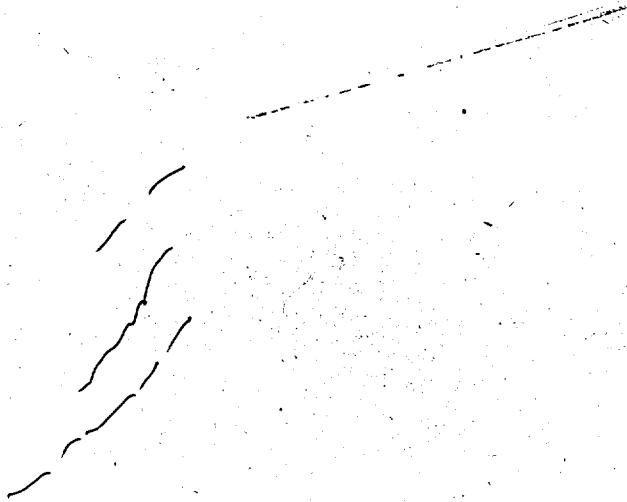
Pos. F
length 1800
section 300
upright 31
Tow 74

20
2
9

31

Wai sets N + 3 ~~+ 200 on double toggle~~
Hil sets F + 2 + 200 on double toggle
Hil has Eastern guide line N to S
3 min fixes

0.7
0.8
2.3



1

$\sqrt[3]{2.4}$

~~8~~
70

Sheet 1354

Strip U

25 May, 1958

Position 1 T

Length 1000

Section 200

upright 17

Tow 74

Wai sets N + 2

Hel sets F + 2 + 200 on double toggle

Hel has southern guide line, ~~E to W~~
W to E

3 min fixes

8
2
7
17

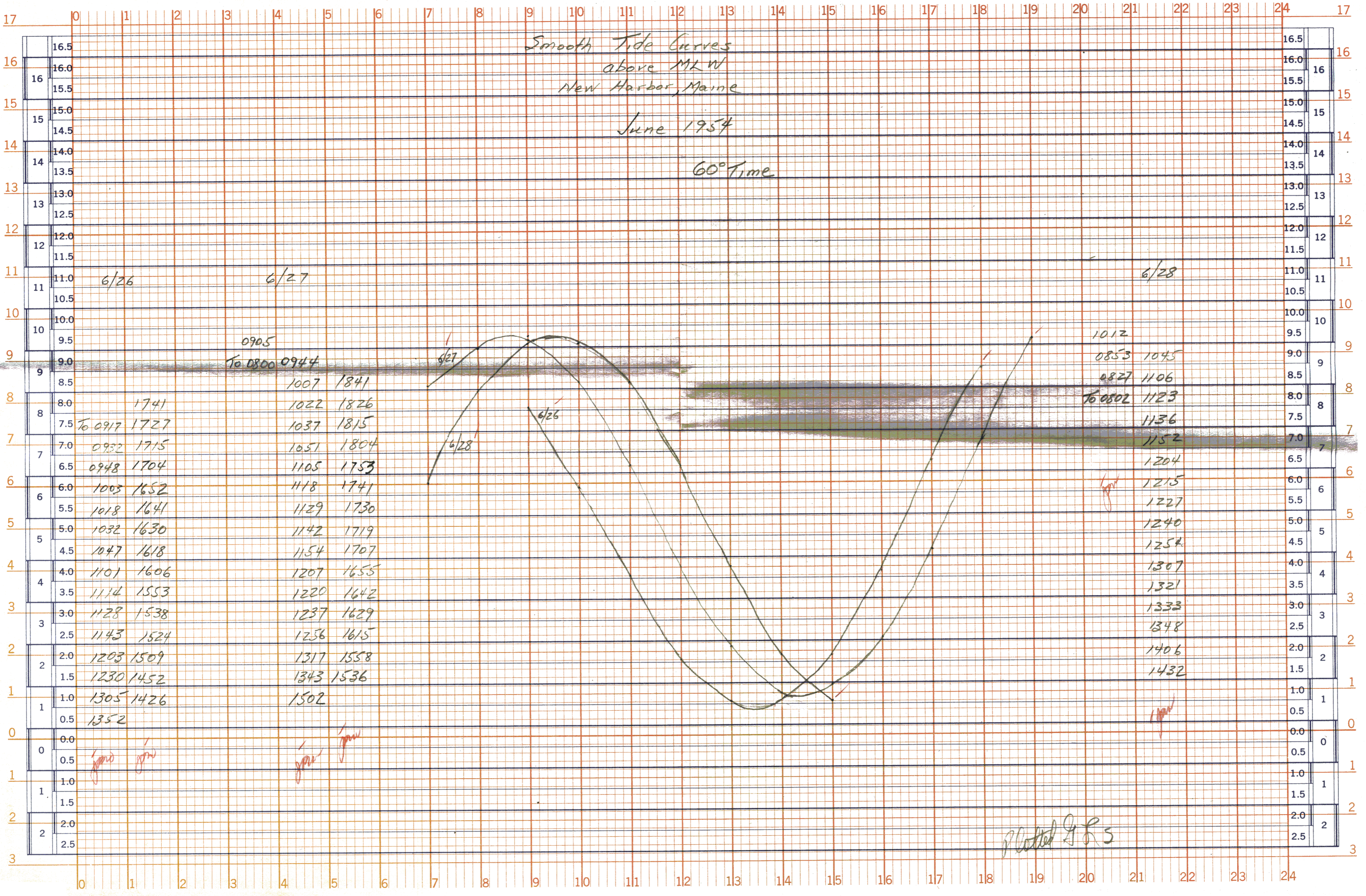
GRAPH FOR TIDE REDUCERS (FATHOMS) (FEET)

Smooth Tide Curves
above MLW
New Harbor, Maine

June 1954

60° Time

Height of tide (above datum)
Tide Reducers (in feet)

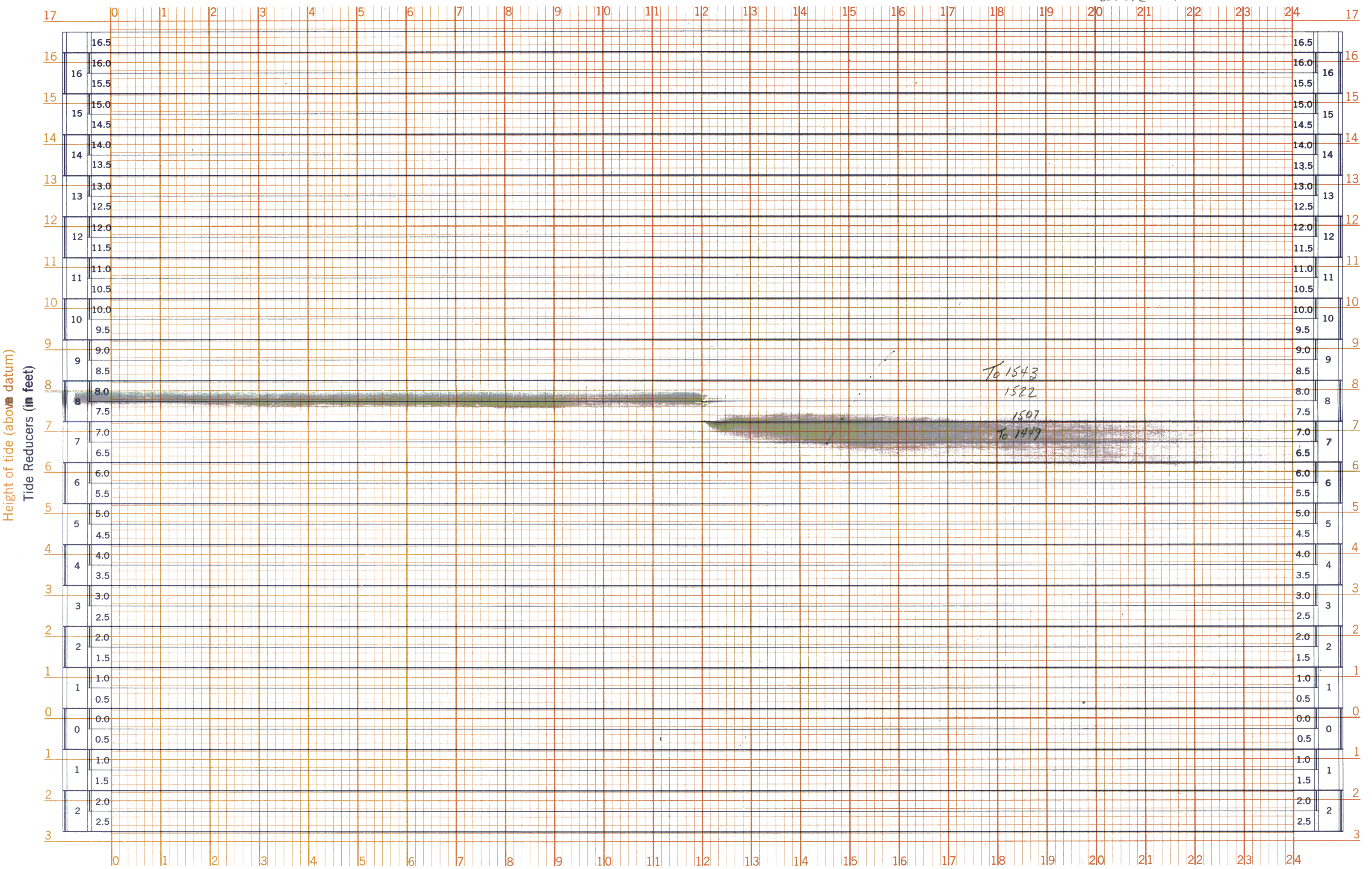


Plotted GRS

Time in hours

GRAPH FOR TIDE REDUCERS ~~FATHOMS~~ (FEET)

Friendship Harbor
Staff readings 23 June 1954
above MLW



GRAPH FOR TIDE REDUCERS ~~(FATHOMS)~~ (FEET)

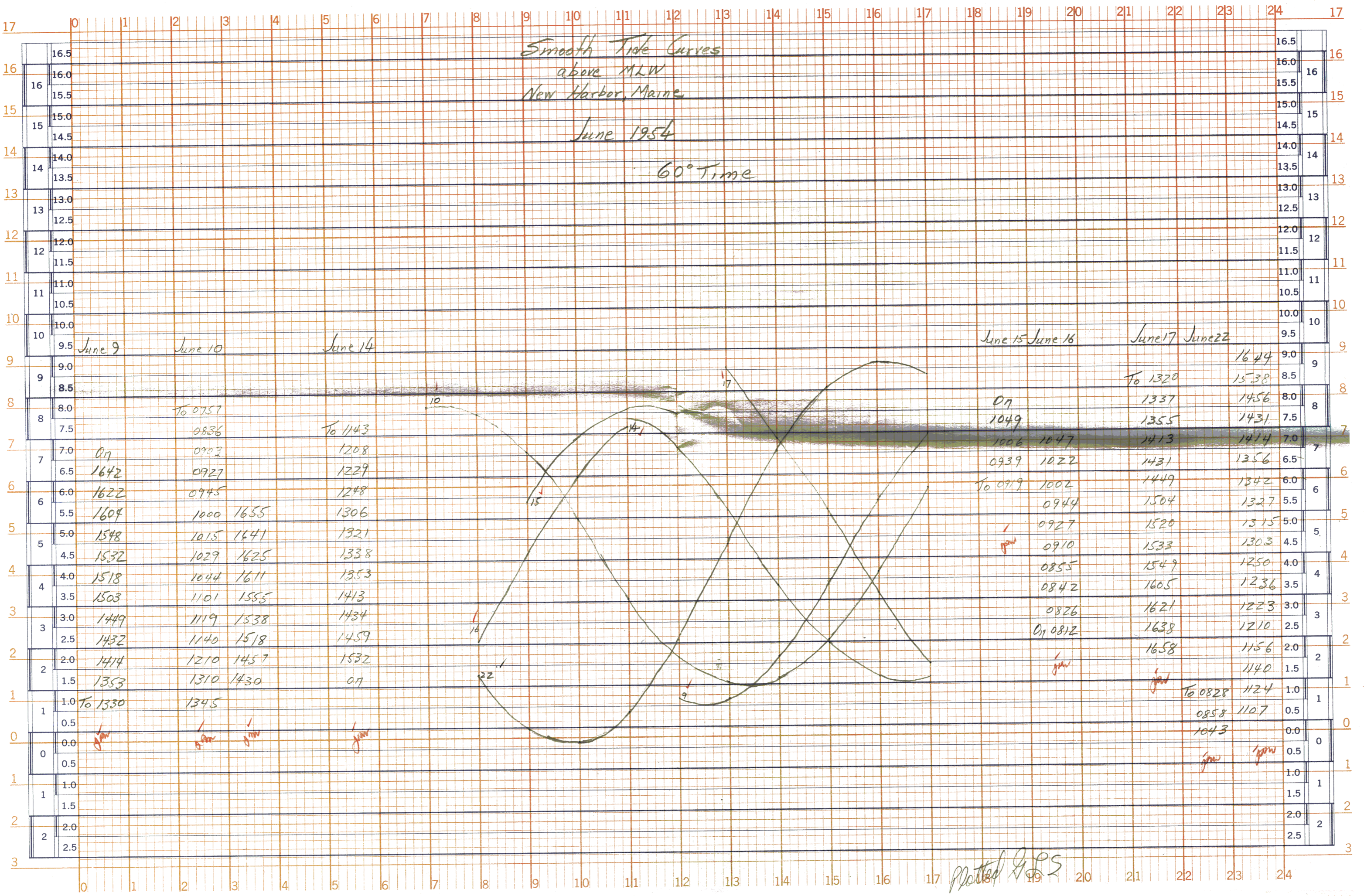
5

Smooth Tide Curves
above MLW
New Harbor, Maine

June 1954

60° Time

Height of tide (above datum)
Tide Reducers (in feet)

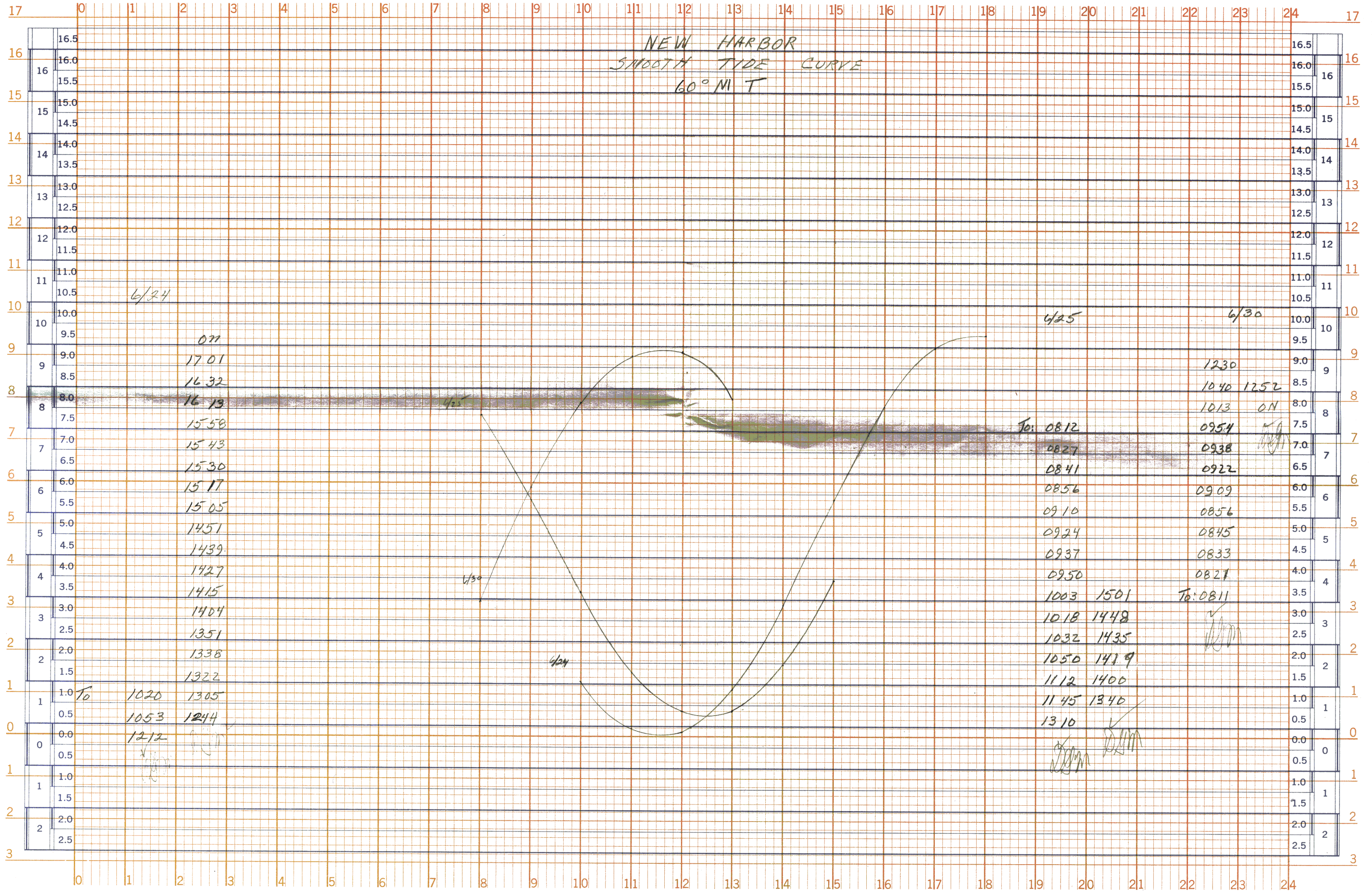


Plotted G.P.S.

GRAPH FOR TIDE REDUCERS ~~(FATHOMS)~~ (FEET)

NEW HARBOR
SMOOTH TIDE CURVE
60° M T

Height of tide (above datum)
Tide Reducers (in feet)



Time in hours

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8500 W.D.

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12/23/60	1204 ¹³²⁸⁸ drg 17	Jane.	Before After Verification and Review <i>Partially</i>
3-14-61	1203 ¹³³⁰⁷	R.E. Elkins	Before After Verification and Review <i>Partly applied thru chrt 1204 drg 17. Revised a few sdps.</i>
3-21-61	70	R.E. Elkins	Before After Verification and Review <i>Partly applied thru chrt 1204 drg 17. No revision.</i>
8-30-61	313 ¹³³⁰¹	G.R. Johnson	Before After Verification and Review <i>Partly applied</i>
5-7-63	1203 Recon.	M. Rogers	<i>All critical work fully applied</i> Before After Verification and Review
5-15-85	13301	Walter J. Fay	<i>Adequately applied before verification & review</i> Before After Verification and Review
6-17-91	13288	K.R. Foster	Before After Verification and Review <i>Adequately Applied. Cat I.</i>
10/29/92	13302	L. Anteman	Before After Verification and Review <i>Re-examined No further application necessary.</i>
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

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.