

VALUABLE

SUBJECT

New Monument at New River Inlet as replacement for Sta. "Ward"

Mon. U.S.M.C. #52

RETURN TO
PUBLIC WORKS
OFFICE
CAMP LEJEUNE
NORTH CAROLINA

FIELD PARTY
Dillov IN CHARGE
INSTRUMENT
NOTES
TAPE READ
TAPE OR ROD
TAPE OR ROD
INSTRUMENT NO.
TAPE NO.

WEATHER
CLEAR
CLOUDY
WINDY
RAIN
FAIR
SNOW
HOT
MODERATE
COLD
FOG
FIGURED BY
NOTES CHECKED BY
PLOTTED BY

FILE No. *260-C*
FLDR. No.
SHEET *1-0/2*
DATE *5-29 1959*

Quad. No. *NEW MONUMENT*

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER. ANG. DIFF.	ELEVATION
---------	-------	----------------	---	------------------	--------------------	-----------

"Ward"

on slow beach water tank

Sight on
Onslow Beach Water Tank

"A"
83° 50' 30" (D)
251° 31' 15" (3)
83° 50' 25" (M)

"Courthouse 132y Water Tank"

"B"
166° 28' 15" (D)
139° 24' 00" (3)
166° 28' 00" (M)

"Sneads Ferry Fire Tower"

"C"
186° 09' 15" (D)
198° 27' 15" (3)
186° 09' 05" (M)

U.S.M.C.

#

52

To ~~Ward #2~~ U.S.M.C. #52

Ah- 704.12

Bk- 704.22

M- 704.17 + .07 = 704.24 incl. Temp. Corr.

Temp. 83°

Old station

5.03 18.31

13.28

New station

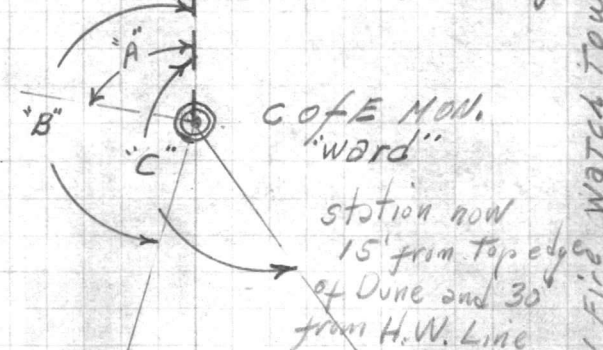
0.93 17.58

"Ward"

*Wald #2
C. H. Bay water
TANK*

*Marked
U.S.M.C. #52
6/8/59*

*NEW MONUMENT
~~Ward #2~~
~~Unmarked at Present~~
On most easterly dune
100' from edge of brush on
Dune covered by vegetation*



Sneads Ferry Fire Watch Tower

83-50-30
3

251-31-30
151 75

251-31-15

83-50-25

186-09-15
3

558-27-45

360

198

3(558-27-15)

186-09-05

166-28-15
3

499-24-45

360

139 84

3(499-24-00)

166-28-00

VALUABLE

SUBJECT _____

RETURN TO
 PUBLIC WORKS
 OFFICE
 CAMP LEJEUNE
 NORTH CAROLINA

FIELD PARTY

_____ IN CHARGE
 _____ INSTRUMENT
 _____ NOTES
 _____ TAPE READ
 _____ TAPE OR ROD
 _____ TAPE OR ROD
 _____ INSTRUMENT NO.
 _____ TAPE NO.

WEATHER

CLEAR SNOW
 CLOUDY HOT
 WINDY MODERATE
 RAIN COLD
 FAIR FOG

FILE No. _____
 FLDR. No. _____
 SHEET # 2 of 2
 DATE _____ 19__

FIGURED BY _____
 NOTES CHECKED BY _____
 PLOTTED BY _____
 Quad. No. _____

STATION	DIST.	ANGLE ° ' "	+	H. I. BEARING	VER: ANG. DIFF.	ELEVATION
---------	-------	----------------	---	------------------	--------------------	-----------

To ~~Word # 52~~ U.S.M.C. # 52

Sight on "Word"

To
 Fire Tower at Speeds Ferry
 15° 59' 00" (1) — Counter Clock-wise
 17° 56' 30" (2)
 5° 58' 50" (M)

To Channel Marker # 2A — Center of Light
 25° 29' — Counter Clock-wise

To
 Courthouse Bay Water Tank
 13° 03' 15" (1) Clock-wise
 39° 09' 30" (2)
 13° 03' 10" (M)

To
 Water Tank at Onslow Beach
 94° 23' 15" (1) Clock-wise
 283° 10' 15" (2)
 94° 23' 25" (M)

5-59
3
170 57

174 150
3(170 56 30)
50 58 50

13-03-15
3

39-09-45

3(39-09-30)
13-03-10

94-23-15
3

283-09-45
20 75

3(283-10-15)
94-23-25

PUBLIC WORKS DEPARTMENT
Camp Lejeune, North Carolina
Survey Department

File 260-C
Quadrangle _____
Date 6/1/59
Sheet 1 of 1

Traverse Computation
Description

Auxiliary Monument to sta. "Ward" at New River Inlet

Station	Distance	Bearing	Cosine	Sine	Latitude	Departure	Y Coordinate North	X Coordinate East
C of E A "ward"		N 46°-32'-21" W			TO SNEEDS FERRY FIRE WATCH TOWER		289,574.40	2,500,816.09
MONUMENT WARD #2 U.S.M.C. #52	704.17	S 40-23-16 E	761677	647957	536.35	456.27		
C of E A "ward"		N 26°51'09" W			TO COURT HOUSE BAY WATER TANK		289,574.40	2,500,816.09
* MONUMENT WARD #2 U.S.M.C. #52	704.17 ²⁴	S 40-23-09 E O.K.	761699	647932	536.37 ⁴²	456.25 ³⁰	289,037.98	2,501,272.39
C of E A "ward"		N 55°-46'-32" E			TO ONSTOW BEACH WATER TANK			
MONUMENT WARD #2 U.S.M.C. #52	704.17	S 40-23-03 E	761717	647909	536.38	456.24		
WARD #2	} U.S.M.C. # 52	N 46°-21'59" W			TO SNEEDS FERRY FIRE WATCH TOWER			
WARD #2		N 65°-52'09" W			TO CHANNEL LIGHT 2-A			
WARD #2		N 27°-19'-59" W			TO COURTHOUSE BAY WATER TANK			
WARD #2		N 54°-00'-16" E			TO ONSTOW BEACH WATER TANK			

* USE AS MEAN OF THREE BEARINGS

FEDERAL BUREAU OF INVESTIGATION
SURVEY DEPARTMENT

Date

Traveler's Description

Station

X Coordinate

Y Coordinate

Longitude

Latitude

Time

Course

Bearing

Distance

Station

East

North

0 10

Sheet #1

Tide Reading

River Inlet

Hourly Heights

2376
110
120

Nov. 1953
November

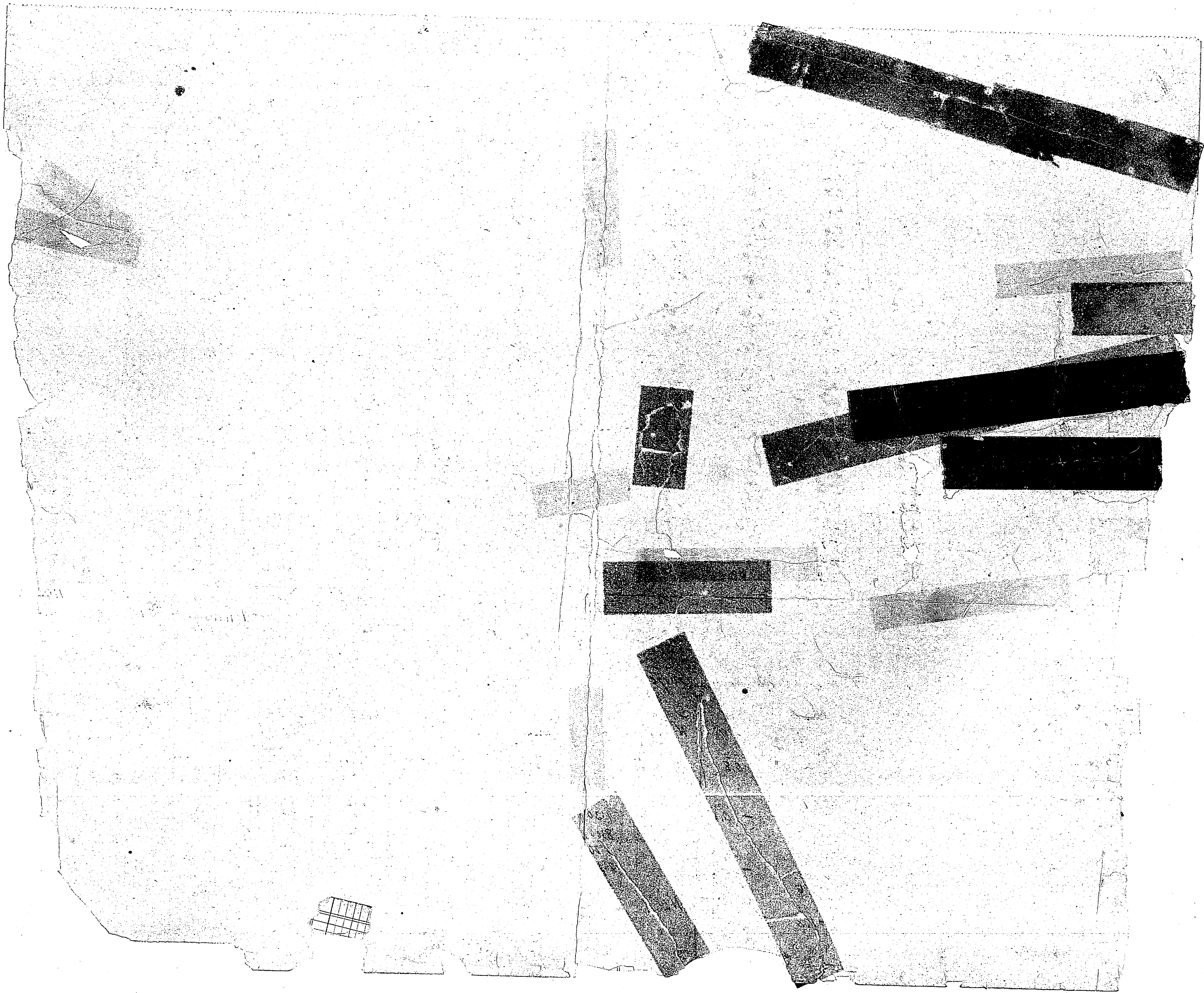
Hour	Nov. 1	Nov. 2	Nov. 3	Nov. 4	Nov. 5	Nov. 6	Nov. 7	Nov. 8	Nov. 9	Nov. 10	Nov. 11	Horizontal Sum
0	3.2	3.6	3.4	3.9	3.9	4.0	5.1	5.3	5.7	5.6	5.6	43.7
1	3.4	3.6	3.3	3.6	3.7	3.5	4.4	4.8	5.2	5.2	5.2	41.1
2	4.1	4.0	3.7	3.7	3.7	3.4	3.8	4.1	4.6	4.6	4.7	40.8
3	4.9	4.5	4.2	4.0	3.7	3.4	3.6	3.7	4.1	4.1	4.7	40.8
4	5.6	5.2	4.9	4.6	4.0	3.6	3.6	3.6	3.8	3.8	4.2	43.1
5	5.9	5.8	5.5	5.5	4.8	4.0	4.0	3.7	3.6	3.6	3.8	46.5
6	6.1	6.2	6.1	6.1	5.3	4.5	4.5	4.0	3.7	3.4	3.4	50.1
7	6.0	6.6	6.4	6.7	5.8	5.3	5.1	4.5	4.0	3.4	3.4	53.6
8	5.7	6.2	6.4	6.7	6.3	6.2	5.7	5.1	4.4	3.6	3.6	56.5
9	5.1	5.8	6.1	6.5	6.3	6.6	6.2	5.7	5.1	3.9	3.9	57.3
10	4.5	5.1	5.5	6.0	6.2	6.6	6.4	6.1	5.8	4.6	4.6	56.8
11	3.7	4.3	4.7	5.2	5.6	6.0	6.4	6.2	6.1	5.2	5.2	53.6
12	3.5	3.7	4.1	4.4	4.7	5.5	5.9	5.9	6.3	5.7	5.7	49.8
13	3.5	3.6	4.0	4.0	4.0	4.5	5.3	5.5	6.1	5.8	5.8	49.2
14	3.5	3.7	4.0	4.0	3.8	4.0	4.4	4.9	5.5	5.6	5.6	46.5
15	3.0	3.0	3.5	3.5	3.6	3.7	4.0	4.2	5.0	5.1	5.1	46.1
16	2.5	2.5	3.0	3.0	3.8	3.8	3.9	3.9	4.4	4.5	4.5	47.6
17	2.5	3.0	3.5	4.0	4.2	4.1	3.9	3.7	4.0	3.9	4.0	48.8
18	2.5	3.0	3.5	4.0	4.7	4.3	4.1	3.8	3.8	3.5	3.5	52.2
19	2.3	2.8	3.5	4.0	5.0	4.8	4.5	3.9	3.6	3.3	3.3	53.7
20	2.1	2.8	3.5	4.0	5.4	5.3	5.0	4.3	3.8	3.2	3.2	54.7
21	1.9	2.9	3.5	4.0	5.5	5.7	5.4	4.9	4.1	3.3	3.3	54.4
22	1.5	2.3	2.8	3.4	4.8	5.6	5.8	5.4	4.8	3.7	3.7	53.3
23	1.3	1.9	2.5	3.1	4.8	5.5	5.7	5.8	5.4	4.6	4.6	51.7
Sum	48.9	113.5	116.0	113.7	114.1	116.7	113.1	112.9	115.4	119.2	119.2	1192

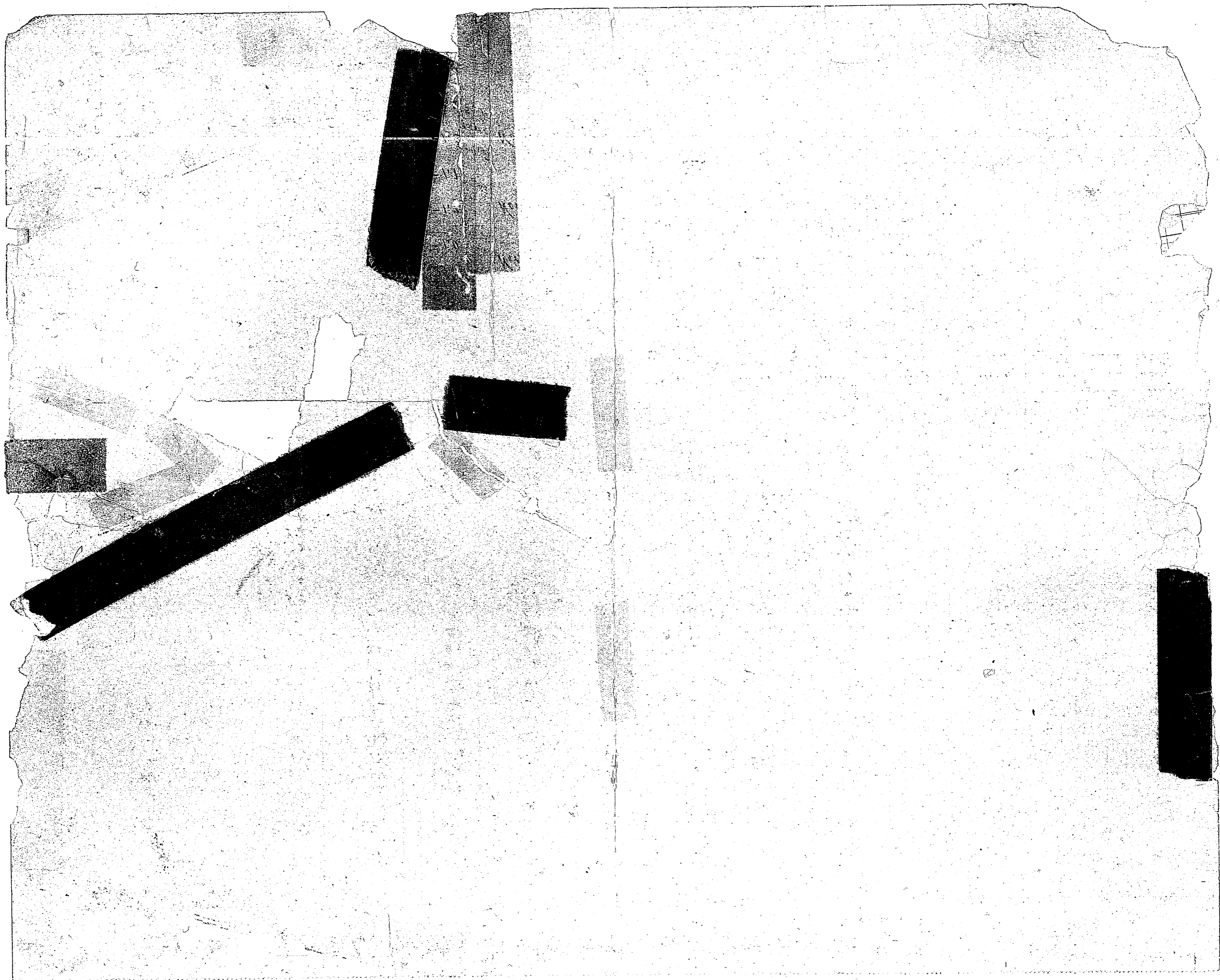
New Moon

Total Readings = 251 Ave 4.7

Tides Read from set on Mean Sea Level as established by U.S.C.G. Datum

Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.
Nov. 4	11:30 A.M.	-0.1	-0.7	Nov. 10	2:35 A.M.	+2.8	-0.6
	5:10 P.M.	+2.6	-0.4		9:25 A.M.	+1.8	-0.4
	11:45 P.M.	+2.5	-0.4	Nov. 11	2:00 A.M.	+2.5	-0.4
Nov. 5	6:40 A.M.	+2.1	-0.2		10:30 A.M.	+1.8	-0.2
	12:20 P.M.	+1.5	-0.4	Nov. 12	6:10 A.M.	+2.2	-0.4
	6:30 P.M.	+1.5	-0.3		10:55 A.M.	+1.8	-0.3
					4:55 P.M.	+1.8	-0.4
Nov. 6	12:15 A.M.	+0.4	-0.4	Nov. 13	4:45 A.M.	+2.3	-0.4
	7:15 A.M.	+2.0	-0.4		12:00 A.M.	+1.8	-0.4
	1:05 P.M.	+1.5	-0.4		7:00 P.M.	+1.6	-0.6
	7:15 P.M.	+1.5	-0.4	Nov. 14	12:30 A.M.	+1.8	-0.8
					6:45 A.M.	+1.8	-0.8
					12:50 A.M.	+1.8	-0.8
					7:45 P.M.	+1.6	-0.8





Sheet #3

Hourly Heights

New River Inlet

313-6110.9

18-4-5

November

Month and Day	mo. day	mo. day	mo. day	mo. day	mo. day	Horizontal Sum
Day of Series	Nov 23	Nov 24	Nov 25	Nov 26	Nov 27	
Hour	FT.	FT.	FT.	FT.	FT.	
0	5.2	5.5	5.0	4.7	4.7	25.1
1	4.8	5.3	5.1	5.0	5.1	25.3
2	4.3	4.7	4.9 2:16	5.1	5.0	29.2
3	3.8	4.2	4.5	5.0	5.0	22.7
4	3.5	3.9	3.9	4.6	5.0	20.9
5	3.4	3.5	3.5	4.2	4.5	19.1
6	3.5	3.5	3.3	3.7	4.2	18.2
7	4.1	3.5	3.1	3.3	3.6	17.6
8	4.6	3.9	3.8	3.2	3.3	18.2
9	5.3	4.5	3.5	3.3	3.2	19.8
10	5.7	5.2	3.9	3.8	3.8	22.0
11	5.9	5.6	4.6	4.3	3.8	24.2
12	5.9	5.6	5.0	4.8	4.2	25.5
13		5.4	5.2	5.1	4.6	25.8
14		5.1	5.0	5.0	4.4	25.0
15		4.7	4.5	4.8	5.0	23.4
16		4.3	3.9	4.6	4.7	21.5
17		3.9	3.4	4.3	4.6	19.7
18			3.1	4.0	4.2	18.1
19			2.9	3.4	3.6	16.7
20				3.0	3.1	15.9
21				3.1	3.0	17.0
22				3.3	3.0	18.8
23				4.0	3.7	21.7
Sum			5.0	99.6	99.7	506.4

Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.
Nov. 26	5:00 A.M.		-0.6	Nov 30	2:10 P.M.	+1.2	
	11:30 A.M.	+2.0			8:45 A.M.		-0.8
	6:30 P.M.		-0.6		2:50 P.M.	+1.0	
Nov. 27	11:50 P.M.	+1.5			9:20 P.M.		-1.1
	5:50 A.M.		-0.5				
	11:30 A.M.	+1.6					
Nov. 28	7:15 P.M.		-0.8				
	1:00 A.M.	+1.1					
	6:55 A.M.		-0.9				
	1:10 P.M.	+1.2					
	8:05 P.M.		-1.1				
Nov.	1:40 A.M.	+1.1					
			-0.9				

Tide gauge Reading of 4.0 =
 0.0 Mean Sea Level, Camp Datum
 established by U.S. Coast & Geodetic Survey

For Month of November:
 635 Hourly Heights for Sum of 2875.1 =
 Average Hourly Height of 4.53 Mean Water Level
 $4.53 - 4.00 = +0.53$ above M.S.L. Datum.

51 High Waters = Sum of 301.5 = 5.91 Mean H.W.
 $5.91 - 4.00 = +1.91$ above M.S.L. Datum
 Highest High Water = 7.1 or +3.1 above M.S.L. Datum

52 Low Waters = Sum of 170.1 = 3.27 Mean L.W.
 $4.00 - 3.27 = -0.73$ below M.S.L. Datum
 Lowest Low Water = 2.7 or -1.3 below M.S.L. Datum

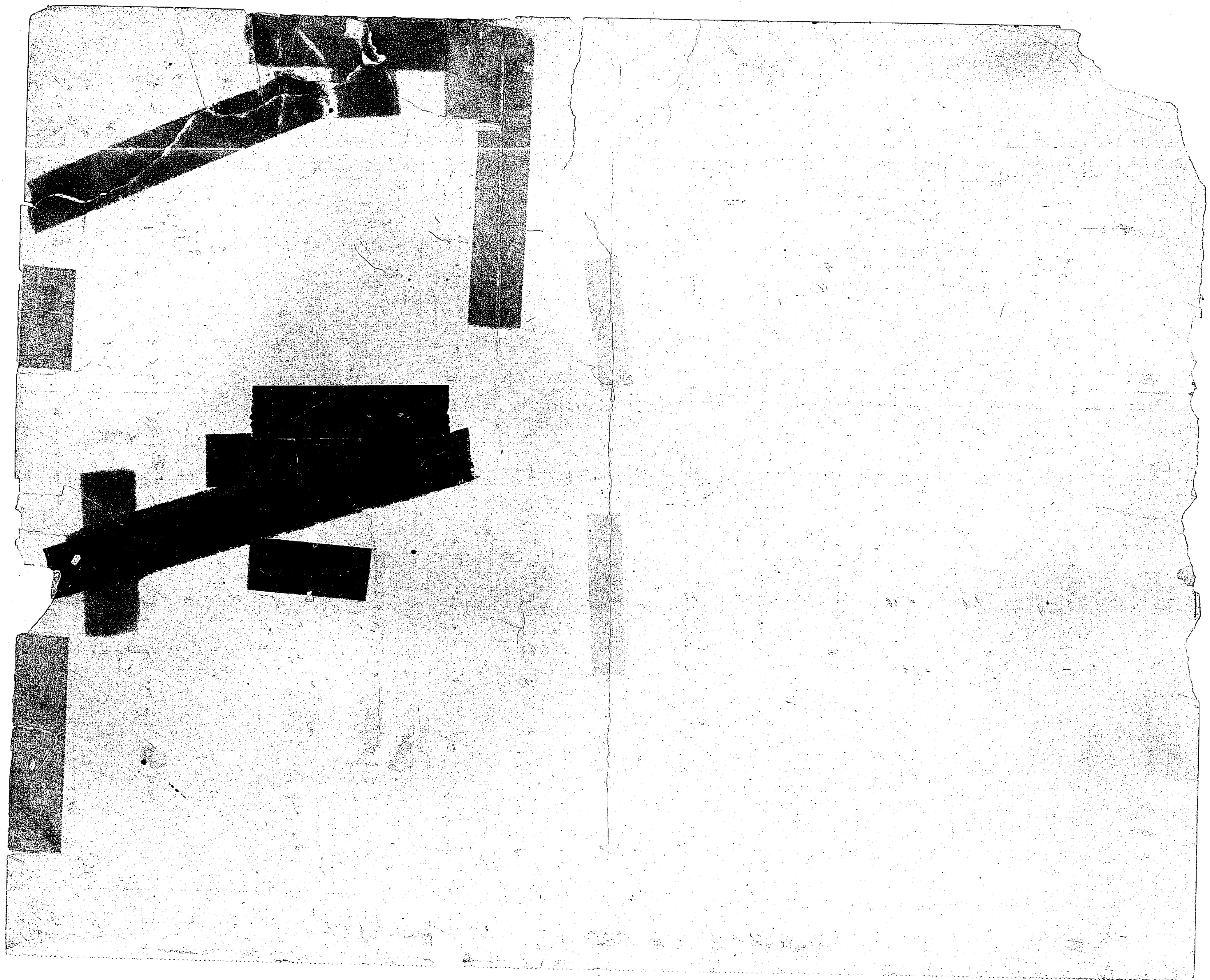
Range of Tide from -1.3 to +3.1 = 4.4'
 Mean Range of Tide from -0.73 to +1.91 = 2.64'

Total Readings = 120
 Average 4.22

Readings taken from Tide Gauge based on
 0.00 Mean Sea Level - Camp Datum

(51) Mean High Waters = +1.91
 (52) Mean Low Waters = -0.73
 Mean Water Level = +0.59

Highest High Water = +3.1
 Lowest Low Water = -1.3

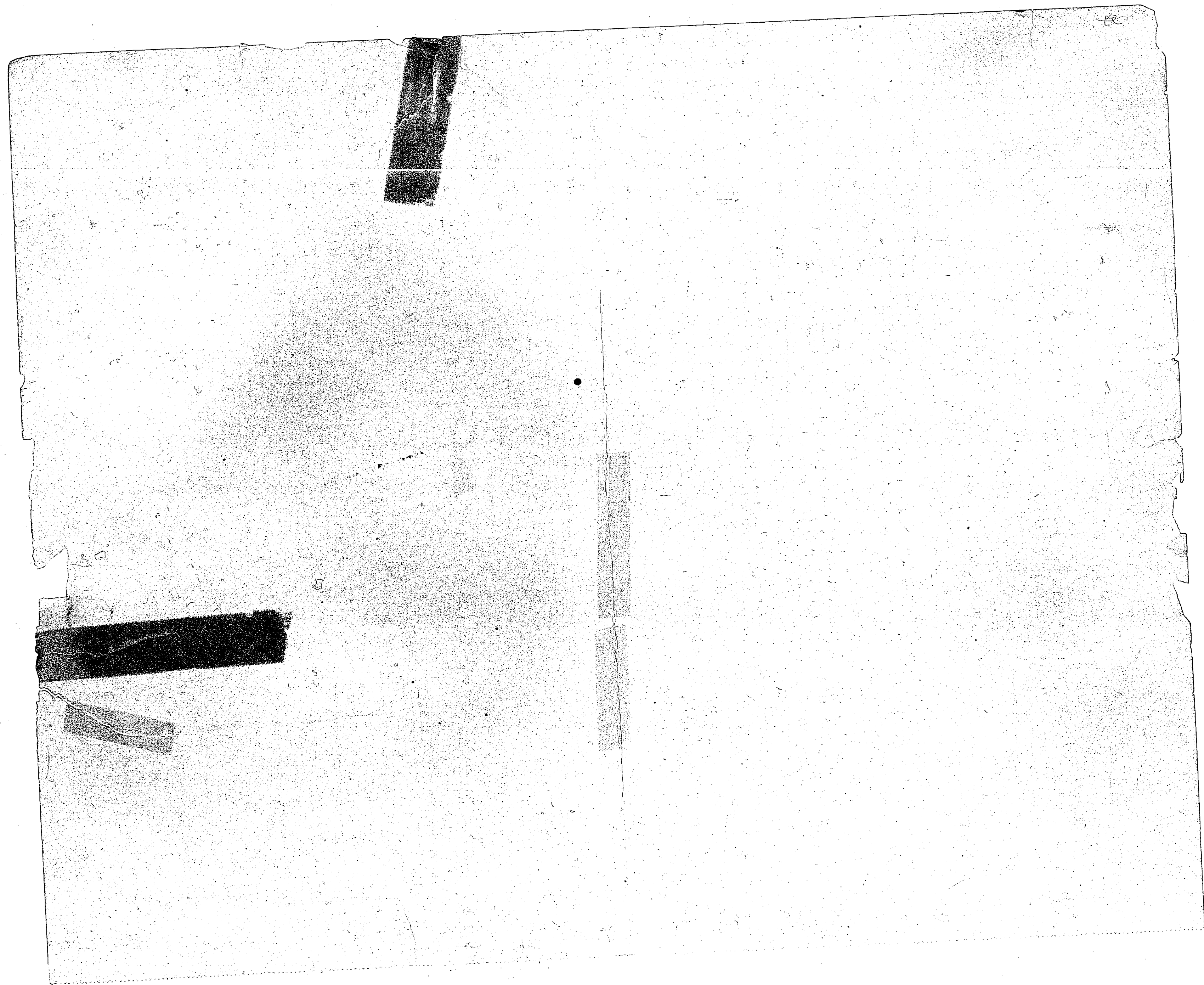


Sheet #4

Hourly Heights New River Inlet
December 1953

Month and Day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	Horizontal Sum
Day of Series	Dec. 28	29	30	31	32	33	34	35	36	37	38	
Hour	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	
0	4.2	4.0	3.6	3.5	3.7	3.1	3.2	3.2	3.1	3.1	3.0	41.5
1	4.6	4.5	4.2	3.8	3.8	3.1	3.2	2.8	2.8	2.8	2.9	40.9
2	4.9	4.9	4.8	4.4	3.9	3.3	3.2	2.8	2.8	2.9	2.9	41.6
3	5.0	5.3	5.4	5.0	4.4	3.9	3.4	2.8	3.0	2.9	2.8	43.8
4	5.1	5.6	5.9	5.6	5.2	4.8	3.8	3.2	3.2	3.2	2.9	47.9
5	5.1	5.6	6.0	6.2	6.0	5.5	4.8	4.3	3.5	3.2	2.9	52.5
6	4.9	5.4	5.8	6.2	6.2	6.1	5.0	4.9	4.4	4.0	3.7	56.0
7	4.4	4.8	5.4	6.2	6.1	6.2	5.7	5.5	5.2	4.7	3.7	57.7
8	3.8	4.0	4.7	5.3	5.5	6.0	6.0	6.0	5.8	5.3	5.1	56.8
9	3.2	3.5	4.0	4.7	4.7	5.4	5.5	6.0	6.0	5.7	5.1	53.8
10	3.0	3.3	3.6	4.2	4.0	4.7	4.7	5.2	5.2	5.7	5.6	50.2
11	3.3	3.3	3.3	3.8	3.6	4.0	3.9	4.8	5.1	5.4	5.7	46.4
12	4.0	3.6	3.4	3.6	3.4	3.4	3.1	4.0	4.7	4.9	5.7	43.5
13	4.5	4.0	3.7	3.6	3.4	3.2	3.0	3.2	3.8	4.1	4.8	41.3
14	4.6	4.4	4.2	4.0	3.5	3.3	3.0	3.0	3.2	3.5	3.9	40.9
15	4.7	4.9	4.6	4.6	3.9	3.5	3.1	2.9	2.8	3.0	3.1	43.9
16	4.8	5.3	5.1	5.1	4.6	4.2	3.3	3.1	2.9	3.0	2.8	41.6
17	4.7	5.4	5.4	5.6	5.0	4.9	4.0	3.6	3.2	3.2	3.0	49.5
18	4.4	5.1	5.3	5.6	5.3	5.2	4.4	4.2	4.4	3.4	3.2	49.9
19	3.8	4.6	5.0	5.3	5.1	5.5	4.9	4.7	4.8	4.1	3.8	48.8
20	3.2	3.9	4.3	4.7	4.6	5.3	5.1	5.0	4.8	4.7	4.5	47.0
21	2.8	3.3	3.6	4.2	4.1	4.8	4.9	5.0	5.1	5.0	5.1	45.1
22	2.6	3.1	3.3	3.7	3.6	4.3	4.4	4.8	5.0	5.0	5.1	43.6
23	3.2	3.2	3.3	3.6	3.2	3.7	3.8	4.4	4.9	5.0	5.3	
Sum	99.0	105.0	107.9	112.3	106.3	107.4	98.7	99.7	100.4	98.2	96.1	1131.0
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	
Dec. 1	4:30 A.M.	+1.2	-1.0	Dec. 5	7:15 A.M.	+2.2	-0.7	Dec. 10	3:30 A.M.	+1.7	-1.2	
	9:45 A.M.	+0.8	-1.2		1:00 P.M.	+1.3	-1.0		9:45 A.M.	+1.0	-1.1	
	3:30 P.M.	+1.6	-0.8	Dec. 6	6:20 P.M.	+2.2	-0.8	Dec. 11	4:15 P.M.	+1.7	-1.2	
Dec. 2	9:20 P.M.	+1.4	-0.9		12:35 A.M.	+1.5	-0.9		10:30 P.M.	+2.1	-1.1	
	4:40 A.M.	+2.0	-1.0	Dec. 7	6:45 A.M.	+2.0	-1.0		4:30 A.M.	+2.1	-1.1	
Dec. 3	10:20 A.M.	+1.4	-1.0		1:00 P.M.	+2.1	-1.1		11:00 A.M.	+2.1	-1.1	
	4:50 P.M.	+2.2	-1.1		6:50 P.M.	+2.1	-1.1		4:50 P.M.	+2.1	-1.1	
Dec. 4	10:35 P.M.	+1.6	-1.1	Dec. 8	1:15 A.M.	+2.1	-1.1		11:00 P.M.	+2.1	-1.1	
	5:30 A.M.	+2.2	-1.1		8:00 A.M.	+2.1	-1.1					
	12:15 P.M.	+1.6	-1.1		1:45 P.M.	+2.1	-1.1					
	5:30 P.M.	+1.6	-1.1	Dec. 9	8:00 P.M.	+2.1	-1.1					
	11:00 P.M.	+1.6	-1.1		2:15 A.M.	+2.0	-1.2					
					9:00 A.M.	+2.0	-1.2					
					3:30 P.M.	+1.2	-0.7					
					9:40 P.M.	+1.2	-0.7					

To check H.W. +1.8
L.W. -0.93
H.W. +1.0
L.W. -0.37



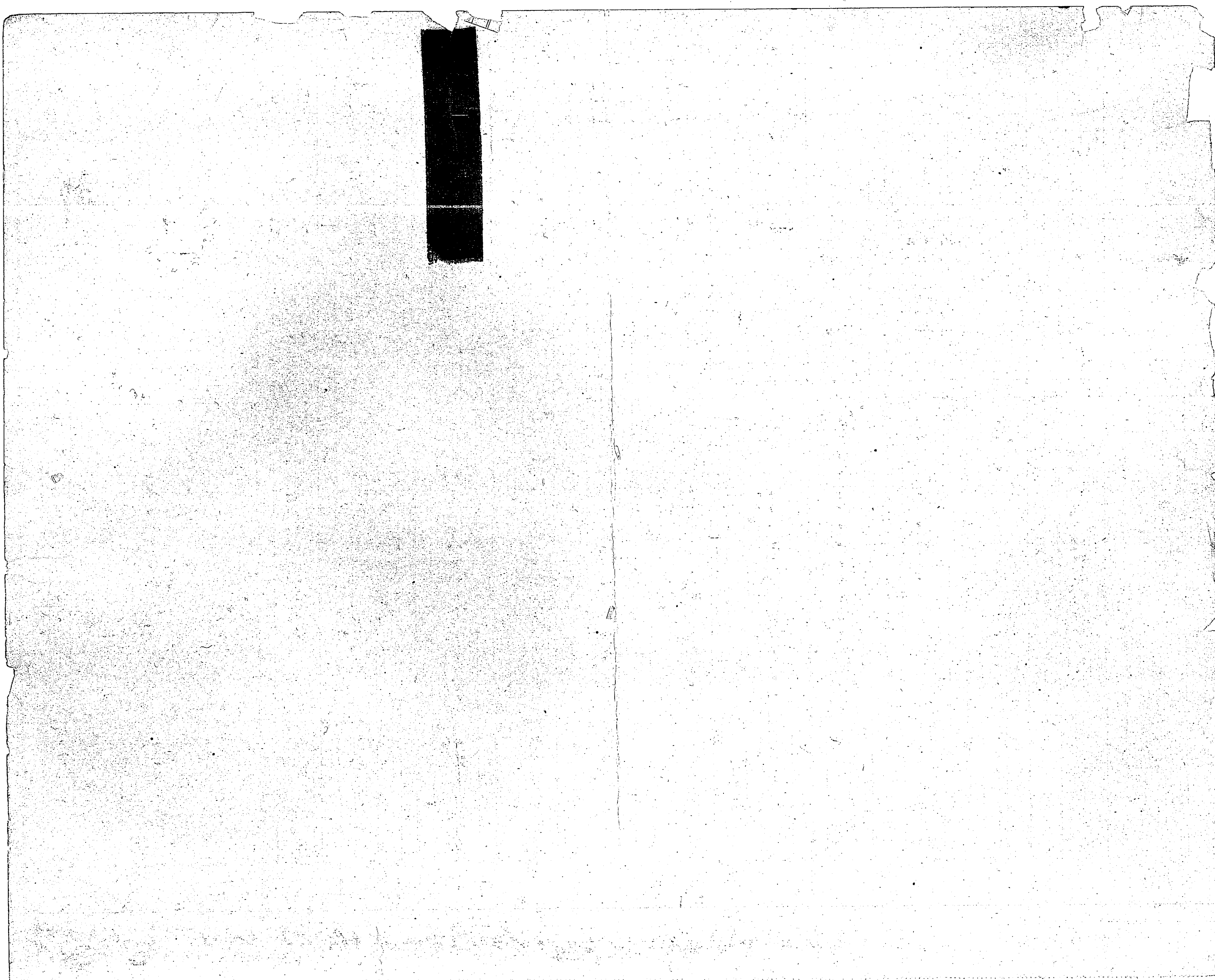
Sheet #5

Hourly Heights

December 1953

New River Inlet

Month and Day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	Horizontal
Day of Series	Dec. 12	Dec. 13	Dec. 14	Dec. 15	Dec. 16	Dec. 17	Dec. 18	Dec. 19	Dec. 20	Dec. 21	Dec. 22	Sum
Hour	39	40	41	42	43	44	45	46	47	48	49	
0	5.1	5.4	6.1	4.2	4.0	3.0	2.6	2.3	2.5	2.5	3.4	41.1
1	4.7	5.0	6.2	4.8	4.8	4.0	3.4	2.7	2.5	2.5	2.9	43.5
2	4.1	4.8	6.0	5.0	5.3	4.6	4.4	3.5	2.7	2.5	2.7	45.4
3	3.5	4.1	5.7	4.9	5.4	5.6	5.1	4.5	3.4	3.0	2.8	48.0
4	3.0	3.5	5.2	4.6	5.2	5.8	5.8	5.3	4.6	4.0	3.2	50.2
5	2.9	3.0	4.4	3.9	4.7	5.6	6.1	5.9	5.4	5.0	4.2	51.1
6	3.0	2.9	3.8	3.3	4.2	5.1	5.8	6.2	5.9	5.8	5.0	51.9
7	3.2	2.9	3.4	2.9	3.6	4.3	5.3	6.1	6.1	6.2	5.8	49.8
8	3.9	3.2	3.4	2.7	2.9	3.7	4.5	5.4	5.8	6.3	6.2	48.2
9	4.6	3.8	3.5	2.6	2.6	3.0	3.6	4.5	5.2	5.9	6.2	45.5
10	5.2	4.6	3.7	2.7	2.4	2.7	2.9	3.6	4.3	5.2	5.7	43.0
11	5.6	5.1	4.4	3.0	2.5	2.6	2.6	2.9	3.4	4.2	5.1	41.4
12	5.6	5.4	4.9	3.9	3.0	2.7	2.6	2.6	2.7	3.4	4.2	41.0
13	5.2	5.3	5.2	4.5	3.8	3.2	2.8	2.6	2.5	3.0	3.4	41.5
14	4.6	4.9	5.3	4.8	4.5	4.1	3.3	2.9	2.6	2.9	2.9	42.8
15	3.8	4.5	5.0	4.7	4.7	4.6	4.1	3.4	2.9	3.0	2.9	43.6
16	3.1	4.0	4.2	4.4	4.7	5.2	4.9	4.3	3.7	3.5	3.1	45.1
17	2.9	3.6	3.4	3.9	4.5	5.2	5.3	5.0	4.6	4.2	3.5	46.1
18	2.8	3.2	3.0	3.3	3.9	4.7	5.1	5.4	5.0	4.9	4.2	45.5
19	2.9	2.9	2.8	2.7	3.1	3.9	4.6	5.2	5.1	5.3	4.9	43.6
20	3.3	3.2	2.6	2.8	2.1	3.0	3.8	4.6	4.9	5.6	5.2	41.3
21	4.0	3.8	2.7	2.4	2.1	2.5	2.8	3.6	4.4	5.4	5.3	39.2
22	4.6	4.7	2.8	2.5	2.1	2.3	2.5	2.9	3.6	4.8	5.1	38.1
23	5.2	5.4	3.5	2.9	2.4	2.4	2.3	2.5	2.9	4.0	4.6	38.1
Sum	96.8	99.0	101.2	87.1	89.6	93.8	96.2	97.9	96.7	103.1	102.5	1063.9
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	264 H.H.
Dec. 12	5:00 A.M.		-1.1	Dec. 16	2:50 A.M.	+1.4		Dec. 20	12:20 A.M.		-1.5	
	11:30 A.M.	+1.7			10:00 A.M.		-1.6		6:40 A.M.	+2.2		
	5:45 P.M.		-1.2		3:35 P.M.	+0.7			1:00 P.M.		-1.5	
	11:45 P.M.	+1.4			9:55 P.M.		-1.7		6:30 P.M.	+1.2		
Dec. 13	8:15 A.M.		-1.3	Dec. 17	3:45 A.M.	+1.9		Dec. 21	1:20 A.M.		-1.6	
	12:20 P.M.	+1.4			10:30 A.M.		-1.4		7:40 A.M.	+2.4		
	7:10 P.M.				4:30 P.M.	+1.2			1:45 P.M.		-1.1	
Dec. 14	12:45 A.M.	+2.2		Dec. 18	10:25 P.M.		-1.7	Dec. 22	5:00 P.M.	+1.6		
	7:30 A.M.				5:05 A.M.	+2.0			2:00 A.M.		-1.3	
	1:45 P.M.	+1.3			11:35 A.M.		-1.4		8:30 A.M.	+2.2		
	8:15 P.M.				5:15 P.M.	+1.3			2:30 P.M.		-1.1	
Dec. 15	2:30 A.M.	+0.9		Dec. 19	11:20 P.M.		-1.7		8:45 A.M.	+1.3		
	8:30 A.M.				6:00 A.M.	+2.2						
	2:15 P.M.	+0.8			12:20 P.M.		-1.5					
	9:00 P.M.				6:10 P.M.	+1.4						
		(7) +9.7				(8) +12.1		(9) -11.0		(6) +10.9	(4) -8.1	

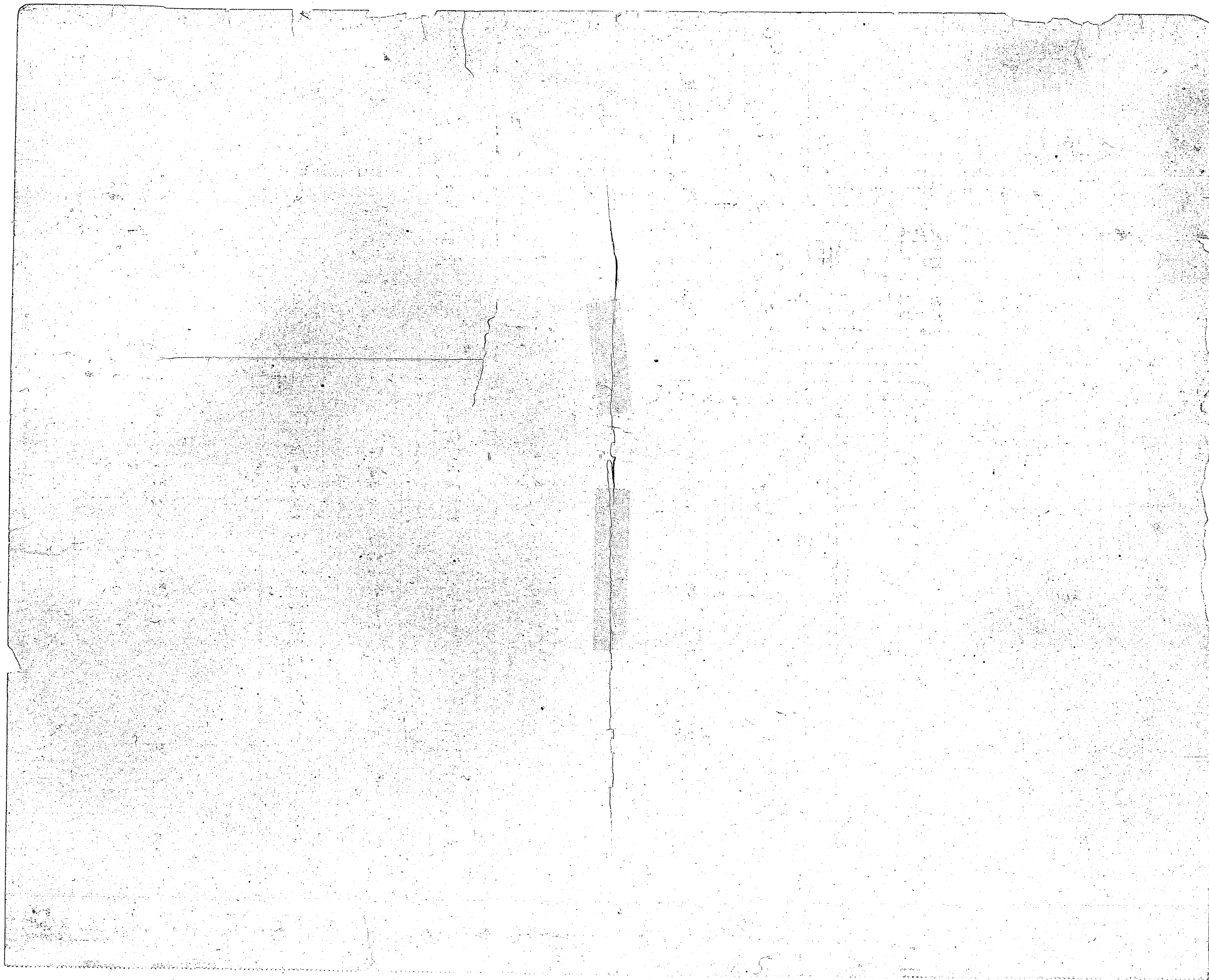


Sheet #6

Hourly Heights ————— New River Inlet

December 1953

Month and Day	mo. day	mo. day	mo. day	mo. day	day	day	day	day	day	day	Horizontal Sum
	Dec 23	24	25	26	27	28	29	30	31	day	day
Day of Series	50	51	52	53	54	55	56	57	58		
Hour	HA	HA	HA	HA	HA	HA	HA	HA	HA		HA
0	3.9	4.5	5.0	4.9	5.0	5.1	4.8	4.7	4.0		41.9
1	3.3	3.8	4.3	4.4	4.9	4.9	5.2	5.0	4.5		40.5
2	2.9	3.1	3.5	4.3	4.8	4.6	5.1	5.0	4.9	Month of December:	37.7
3	2.8	2.8	3.1	3.9	3.7	4.3	4.9	5.1	5.2	744 Hourly Heights = 3069.7	35.8
4	3.0	2.8	2.9	3.3	3.2	3.9	4.5	5.0	5.2	Mean = 4.11, reduced to	33.8
5	3.4	3.1	3.0	2.9	2.9	3.6	4.1	4.7	4.8	Comp Datum = +0.11 M.W.L.	32.5
6	4.3	3.8	3.2	2.7	2.9	3.5	3.6	4.2	4.2		32.4
7	5.1	4.5	3.8	3.1	3.1	3.5	3.5	3.7	3.6	60 High Waters total 329.0	33.9
8	5.7	5.1	4.4	4.2	3.8	3.5	3.5	3.3	3.1	= Mean H. W. of 5.97 reduced	36.2
9	6.0	5.6	5.8	4.9	3.5	3.8	3.6	3.2	2.8	to Comp Datum = +1.47	38.8
10	5.9	5.7	5.5	5.1	4.5	4.4	3.9	3.4	2.8		41.2
11	5.4	5.6	5.6	5.2	4.9	4.7	4.2	3.8	2.9	60 Low Waters total 171.4	42.3
12	4.3	5.0	5.3	5.0	5.1	5.0	4.5	4.0	3.1	= Mean L. W. of 2.86 reduced	41.2
13	3.6	4.3	4.8	4.8	4.8	5.1	4.6	4.2	3.5	to Comp Datum = -1.14	39.7
14	3.1	3.5	4.2	4.4	4.8	4.7	4.7	4.4	3.9		37.4
15	2.9	3.0	3.6	4.0	4.1	4.2	4.8	4.6	4.3	Range of Tide from 2.3 to 6.2	35.4
16	2.9	2.9	3.2	3.4	3.4	4.0	4.6	4.6	4.6	3.9	33.8
17	3.1	3.0	2.9	3.0	3.1	3.7	4.1	4.2	4.4	Mean Range of Tide from +1.47	31.7
18	3.5	3.3	2.9	2.9	3.1	3.3	3.5	3.6	3.8	to -1.14 = 2.61	29.8
19	4.2	3.8	3.1	2.9	2.9	3.1	2.9	3.1	3.1		29.1
20	4.8	4.4	4.0	3.1	2.9	2.9	2.9	2.8	2.5		30.3
21	5.1	4.9	5.3	3.4	3.3	3.2	3.1	2.8	2.4		33.6
22	5.3	5.4	5.4	4.0	4.1	3.7	3.7	3.0	2.3		34.9
23	5.0	5.3	5.2	4.6	5.0	4.4	4.3	3.4	2.7		39.9
Sum	99.5	99.2	99.2	97.6	93.1	97.1	98.6	95.8	88.6	216 H.H.	865.8
Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.
Dec. 23	2:35 A.M.		-1.3	Dec. 27	12:15 A.M.	+1.0		Dec. 31	3:20 A.M.	+1.2	
	9:20 A.M.	+2.0			5:45 A.M.		-1.1		9:30 A.M.		-1.2
	3:25 P.M.		-1.2		11:45 P.M.	+1.0			2:45 P.M.	+0.6	
	9:45 P.M.	+1.3			7:30 P.M.		-1.1		9:30 P.M.		-1.7
Dec. 24	3:20 A.M.		-1.2	Dec. 28	12:05 A.M.	+1.1					
	10:00 A.M.	+1.7			7:15 A.M.		-0.6				
	7:00 P.M.		-1.1		12:30 P.M.	+1.1			(60) Mean High Water	+1.47	
	10:15 P.M.	+1.4			7:45 P.M.		-1.1		(60) Mean Low Water	-1.14	
Dec. 25	4:00 A.M.		-1.1	Dec. 29	1:20 A.M.	+1.3			Mean Water Level	+0.16	
	10:30 A.M.	+1.6			7:30 A.M.		-0.6		Highest High Water	+2.2	
	5:30 P.M.		-1.2		2:30 P.M.	+0.8			Lowest Low Water	-1.7	
	9:45 P.M.	+1.6			7:30 P.M.		-1.2				
Dec. 26	6:10 A.M.		-1.3	Dec. 30	3:30 A.M.	+1.1					
	10:30 A.M.	+1.3			8:45 A.M.		-0.8				
	6:30 P.M.		-1.1		3:30 P.M.	+0.7					
					8:45 P.M.		-1.2				
		(7) + 10.8	(8) - 9.5			(9) + 8.1	(10) - 7.7			(11) + 1.8	(12) - 2.9

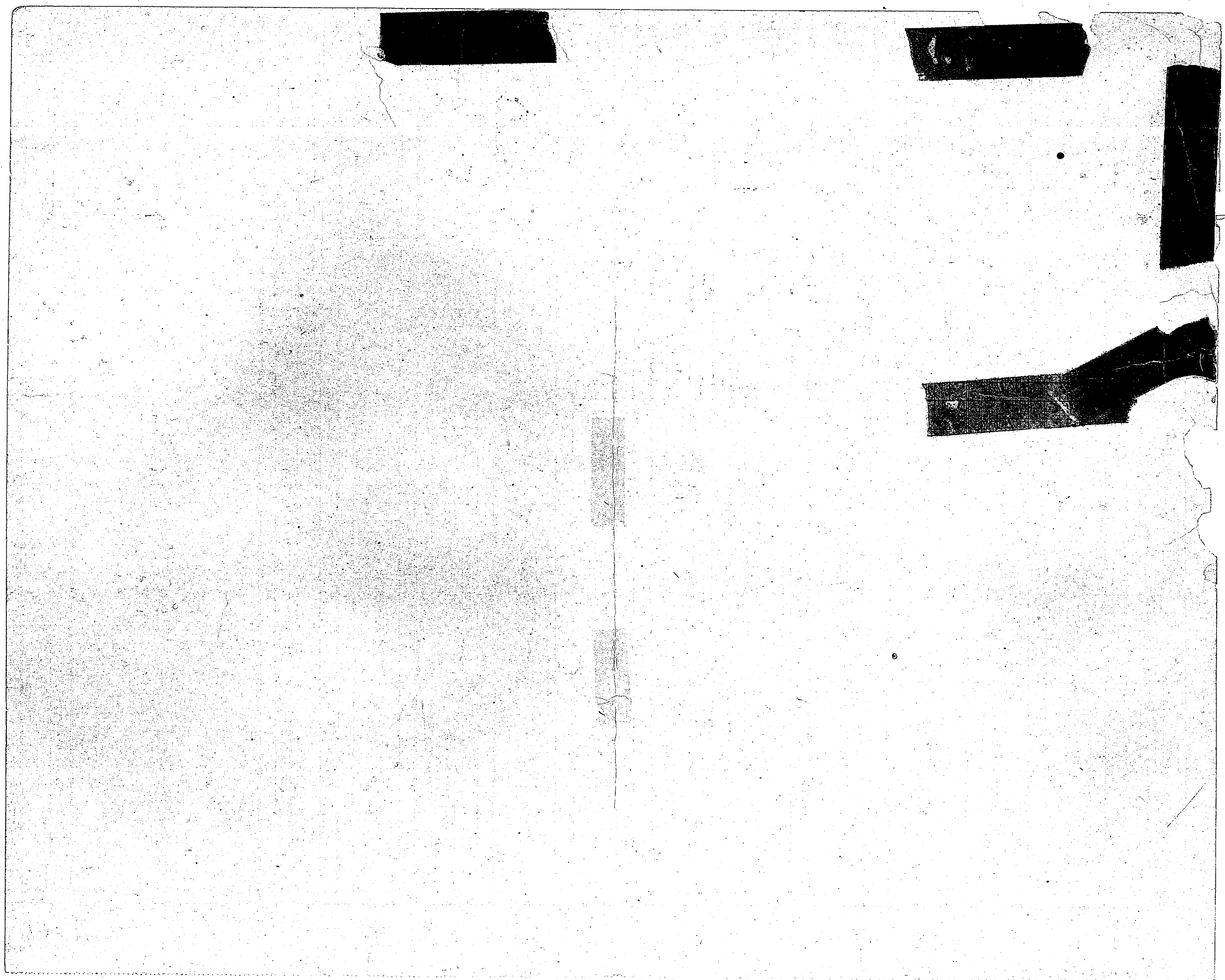


Sheet #7

Hourly Heights New River Inlet

January 1954

Month and Day Day of Series Hour	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	Hourly Sum
	Jan 59	60	61	62	63	64	65	66	67	68	69	70	
0	5.3	2.6	2.7	2.3	2.7	2.8	2.9	3.7	4.6	5.3	4.4	4.4	38.7
1	3.9	3.3	2.9	2.3	2.6	2.5	2.6	2.9	3.8	4.3	5.4	5.4	36.5
2	4.3	4.0	3.6	2.7	2.9	2.7	2.5	2.5	3.0	3.6	4.6	4.6	36.4
3	4.8	4.6	4.2	3.8	3.7	3.0	2.5	2.4	2.6	3.0	4.1	4.1	38.7
4	5.1	5.1	5.0	4.6	4.5	3.6	3.0	2.6	2.5	2.6	3.5	3.5	42.1
5	5.1	5.3	5.3	5.3	5.4	4.6	4.1	3.1	2.6	2.5	2.9	2.9	46.2
6	4.8	5.1	5.4	5.6	5.9	5.3	4.7	3.8	3.1	2.6	2.6	2.8	49.1
7	4.3	4.8	5.2	5.6	6.2	5.9	5.3	4.7	4.0	3.0	2.9	2.9	51.9
8	3.7	4.3	4.7	5.2	5.9	6.2	5.7	5.5	4.8	3.7	3.4	3.4	53.1
9	3.0	3.6	4.1	4.7	5.4	6.1	5.8	5.9	5.5	4.5	4.2	4.2	52.8
10	2.7	2.9	3.2	3.9	4.6	5.5	5.4	5.8	5.9	5.2	4.8	4.8	49.9
11	2.7	2.7	2.7	3.2	3.8	4.6	4.7	5.3	5.7	5.5	5.3	5.3	46.2
12	2.8	2.7	2.5	2.7	3.1	3.5	3.8	4.3	5.1	5.2	5.5	5.5	41.2
13	3.2	2.9	2.5	2.2	2.7	2.9	3.0	3.2	4.2	4.6	5.3	5.3	37.1
14	3.8	3.4	2.8	2.7	2.7	2.7	2.6	2.8	3.8	3.7	4.8	4.8	35.3
15	4.1	4.0	3.4	3.1	3.2	2.9	2.5	2.5	2.8	3.0	4.2	4.2	35.7
16	4.4	4.5	4.2	4.0	4.0	3.3	2.7	2.5	2.6	2.7	3.6	3.6	38.5
17	4.5	4.8	4.5	4.7	4.7	4.1	3.1	2.6	2.5	2.5	3.1	3.1	41.1
18	4.1	4.7	4.5	5.1	5.2	4.7	3.9	3.2	2.7	2.6	2.9	2.9	43.6
19	3.6	4.3	4.2	5.2	5.9	5.1	4.5	3.9	3.3	2.9	2.8	2.8	45.1
20	3.0	3.6	3.7	4.9	5.2	5.1	5.0	4.6	3.9	3.5	3.0	3.0	45.5
21	2.6	2.9	3.2	4.2	4.4	4.9	5.2	5.2	4.7	4.2	3.2	3.2	45.1
22	2.3	2.6	2.7	3.5	4.1	4.5	5.0	5.4	5.3	5.2	3.7	3.7	44.2
23	2.3	2.5	2.4	2.9	3.2	3.8	4.4	5.2	5.8	5.7	4.9	4.9	42.8
Sum	88.4	91.2	89.6	92.8	101.5	100.3	94.9	93.6	94.0	91.5	91.5	91.5	436.8
Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.		
Jan. 1	2:30 A.M.	+ 1.1	- 1.3	Jan 5	12:45 A.M.	+ 2.2	- 1.4	Jan 9	2:00 A.M.	+ 1.9	- 1.5		
	10:45 A.M.	+ 0.5	- 1.7		7:00 A.M.	+ 1.3	- 1.3		10:15 A.M.	+ 1.5	- 1.5		
Jan 2	4:40 P.M.	+ 0.8	- 1.3	Jan 6	1:40 P.M.	+ 2.2	- 1.3	Jan 10	4:30 P.M.	+ 1.5	- 1.5		
	10:15 P.M.	+ 1.3	- 1.5		7:00 P.M.	+ 1.1	- 1.5		10:50 P.M.	+ 1.5	- 1.5		
Jan 3	5:00 A.M.	+ 1.4	- 1.5	Jan 7	1:45 A.M.	+ 1.8	- 1.5	Jan 11	4:45 A.M.	+ 1.5	- 1.2		
	11:40 A.M.	+ 0.6	- 1.7		8:15 A.M.	+ 1.2	- 1.6		10:50 A.M.	+ 1.5	- 1.5		
	11:00 P.M.	+ 1.7	- 1.4	Jan 8	2:15 P.M.	+ 1.9	- 1.5		5:15 P.M.	+ 1.5	- 1.2		
Jan 4	6:00 A.M.	+ 1.2	- 1.5		7:30 P.M.	+ 1.5	- 1.5		11:45 P.M.	+ 1.5	- 1.2		
	12:30 P.M.	+ 1.7	- 1.4		8:45 A.M.	+ 1.5	- 1.5		12:15 P.M.	+ 1.5	- 1.2		
	5:30 P.M.	+ 1.2	- 1.5		2:45 P.M.	+ 1.2	- 1.6		6:30 P.M.	+ 1.5	- 1.2		
	12:30 A.M.	+ 1.7	- 1.4		9:15 P.M.	+ 1.9	- 1.5						
	6:30 A.M.	+ 1.2	- 1.5		2:40 A.M.	+ 1.9	- 1.5						
	1:00 P.M.	+ 1.2	- 1.5		9:30 A.M.	+ 1.5	- 1.5						
	6:50 P.M.	+ 1.2	- 1.5		3:45 P.M.	+ 1.5	- 1.5						
					9:45 P.M.	+ 1.5	- 1.5						

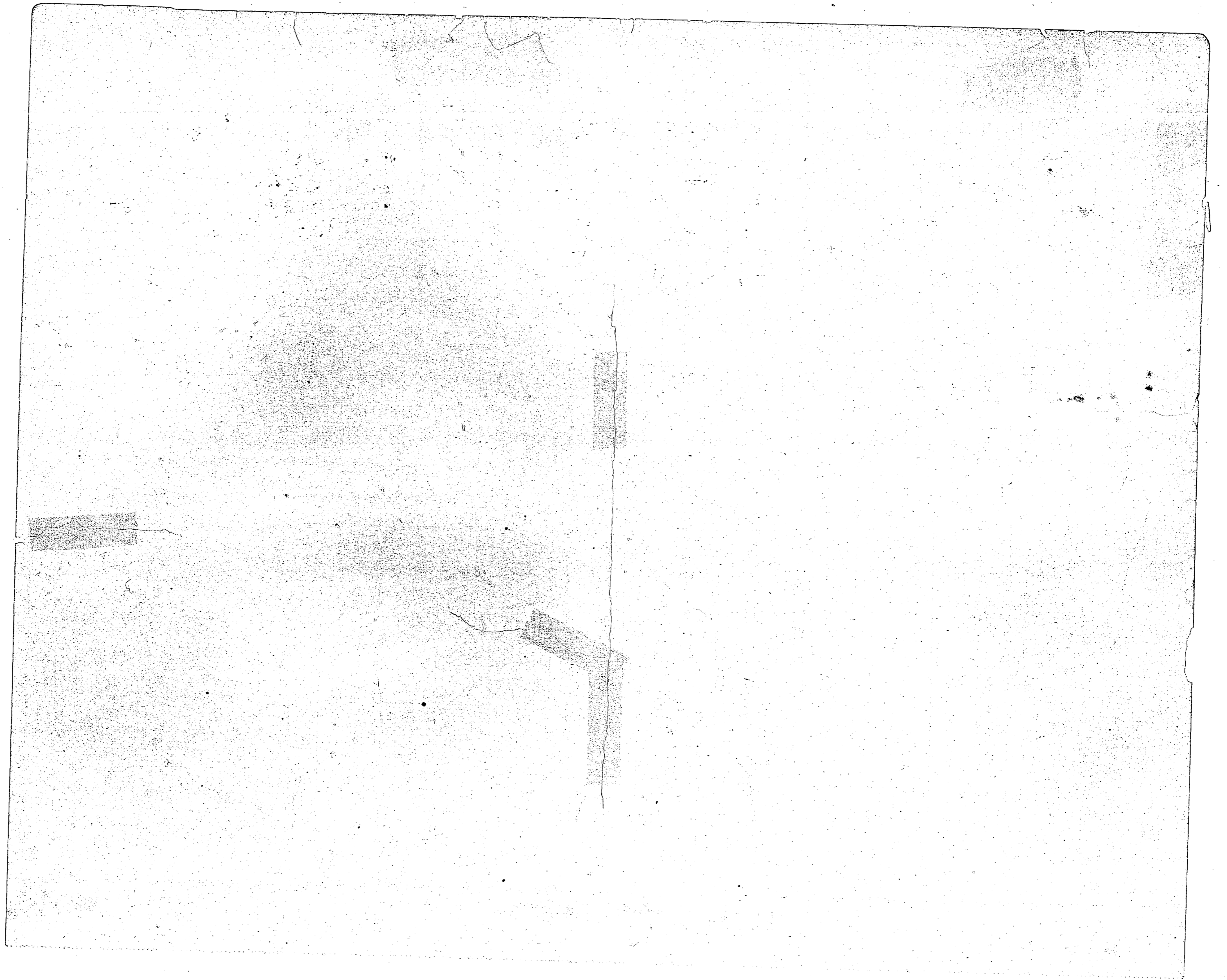


Sheet #8

Hourly Heights ————— New River Inlet

January — 1954

Month and Day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	Horizontal Sum
Day of Series	Jan 70	Jan 71	Jan 72	Jan 73	Jan 74	Jan 75	Jan 76	Jan 77	Jan 78	Jan 79	Jan 80	Jan 81	Jan 82
Hour	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.	FT.
0	5.6	5.2	4.8	3.7	3.0	2.6	2.7	2.8	3.0	3.4	4.0	4.1	41.0
1	6.0	6.0	5.5	4.4	4.0	3.2	2.8	2.7	2.7	2.9	3.2	3.2	43.4
2	5.5	5.7	5.9	5.0	4.4	4.1	3.2	2.8	2.6	2.7	2.8	2.8	44.9
3	4.9	5.3	5.9	5.4	5.3	4.9	4.2	3.2	2.7	2.6	2.6	2.6	47.0
4	4.0	4.7	5.5	5.6	5.1	5.6	5.0	4.3	3.4	2.9	2.8	2.8	49.5
5	3.3	4.1	5.0	5.3	5.1	6.0	5.7	5.1	4.4	3.7	3.3	3.3	51.5
6	3.0	3.7	4.6	4.8	5.1	5.9	6.2	5.6	5.1	4.5	4.1	4.1	53.0
7	2.9	3.4	3.9	4.2	5.1	5.7	6.1	5.9	5.6	5.1	4.7	4.7	52.6
8	3.2	3.1	3.3	3.4	4.1	5.2	5.8	5.8	5.9	5.5	5.2	5.2	51.1
9	3.6	3.0	3.0	2.9	3.8	4.4	5.1	5.4	5.7	5.6	5.7	5.7	48.2
10	4.2	3.2	2.9	2.6	3.1	3.7	4.3	4.7	5.1	5.2	5.5	5.5	44.5
11	4.9	3.9	3.1	2.7	2.1	3.0	3.5	3.9	4.2	4.7	5.0	5.0	41.5
12	5.5	4.6	3.7	2.9	2.1	2.7	3.0	3.2	3.5	4.0	4.4	4.4	40.0
13	5.4	5.1	4.4	3.3	3.1	2.8	2.9	2.8	2.9	3.2	3.6	3.6	39.5
14	5.2	5.2	4.8	4.0	3.1	3.1	3.0	2.7	2.7	2.7	3.1	3.1	40.2
15	4.6	4.9	5.0	4.5	4.3	3.7	3.3	2.8	2.7	2.6	2.6	2.6	41.0
16	4.0	4.4	5.0	4.8	4.1	4.7	4.1	3.3	3.0	2.7	2.8	2.8	43.4
17	3.3	4.0	4.6	4.7	4.5	5.1	4.8	4.2	3.5	3.2	3.2	3.2	45.4
18	2.8	3.4	4.1	4.3	4.5	5.4	5.5	4.9	4.4	4.0	3.9	3.9	47.3
19	2.5	3.0	3.3	3.8	4.4	5.1	5.6	5.3	4.9	4.5	4.5	4.5	46.9
20	2.4	2.6	2.7	3.0	3.1	4.6	5.3	5.1	5.1	4.9	5.1	5.1	44.7
21	2.5	2.6	2.5	2.6	3.1	3.9	4.7	4.9	5.1	5.1	5.6	5.6	42.7
22	3.1	2.9	2.6	2.5	2.1	3.2	3.8	4.3	4.7	4.9	5.8	5.8	40.6
23	4.2	3.9	3.0	2.6	2.1	2.9	3.2	3.6	4.1	4.6	5.7	5.7	40.3
							O Full Moon						
Sum	96.6	98.1	99.1	93.0	97.1	101.5	103.8	99.3	97.0	95.2	99.2	99.2	1080.2
												264 H.H.	*
Date	Time	H.W	L.W	Date	Time	H.W	L.W	Date	Time	H.W	L.W		
Jan 12	12:45 A.M.	+2.0		Jan 16	4:20 A.M.	+1.7		Jan 20	1:50 A.M.		-1.4		
	6:45 A.M.		-1.1		11:35 P.M.		-1.5		7:55 A.M.	+1.9			
	12:15 P.M.	+1.5			5:15 P.M.	+0.8			2:30 P.M.		-1.3		
	8:15 P.M.		-1.6		11:30 P.M.		-1.5	Estimated	8:30 P.M.	+1.1			
Jan 13	1:10 A.M.	+2.0		Jan 17	5:10 A.M.	+2.0		Jan 21	2:35 A.M.		-1.4		
	5:45 A.M.		-1.0		12:15 P.M.	+1.3			8:45 A.M.	+1.6			
	1:45 P.M.	+1.2			6:00 P.M.	+1.4			3:10 P.M.		-1.4		
	8:30 P.M.		-1.4	Jan 18	12:00 P.M.	+1.3			9:10 P.M.	+1.1			
Jan 14	2:30 A.M.	+1.9			6:30 A.M.	+2.2		Jan 22	2:50 A.M.		-1.4		
	9:45 A.M.		-1.1		1:30 P.M.		-1.1		9:10 A.M.	+1.7			
	3:30 P.M.	+1.0			7:00 P.M.	+1.6			3:00 P.M.		-1.4		
	8:45 P.M.		-1.5	Jan 19	12:45 A.M.		-1.3		10:00 P.M.	+1.8			
Jan 15	3:50 A.M.	+1.6			7:10 A.M.	+1.9							
	10:10 A.M.		-1.4		2:00 P.M.		-1.3						
	4:30 P.M.	+0.8			7:20 P.M.	+1.3							
	10:15 P.M.		-1.5										
		(8) +12.0	(8) -10.6			(8) +12.9	(7) -9.3			(6) +9.2	(6) -8.3		

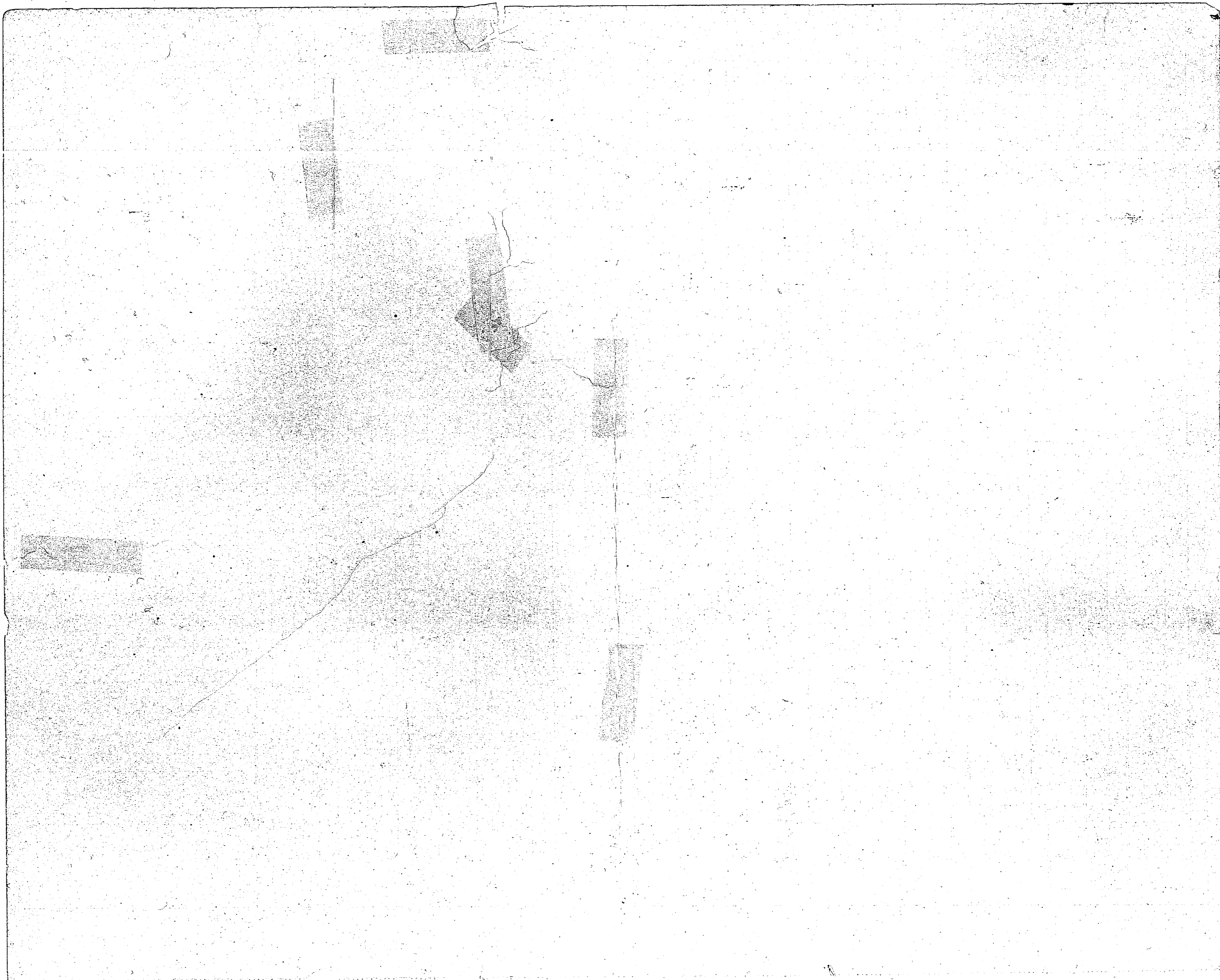


Sheet #9

Hourly Heights ——— New River Inlet

January — 1954

Month and Day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	Horizontal Sum
Day of Series	Jan 81	Jan 82	Jan 83	Jan 84	Jan 85	Jan 86	Jan 87	Jan 88	Jan 89	Jan 90	Jan 91		
Hour	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.		ft.
0	5.4	5.8	5.7	5.5	5.2	4.8	4.5	4.2	4.3	4.8	4.3		44.7
1	4.9	5.2	5.4	5.3	5.3	5.0	5.1	4.8	4.8	5.2	4.8	Month of January	45.3
2	4.1	4.5	4.8	4.8	4.8	4.9	5.1	5.3	5.2	5.5	5.1	744 Hourly Heights = 3029.7	43.5
3	3.3	3.9	4.2	4.2	4.6	4.4	5.3	5.5	5.7	5.4	5.4	Mean = 4.07, reduced to Comp	40.5
4	2.9	3.7	3.7	3.7	4.1	4.0	5.2	5.7	5.4	5.5	5.5	Datum = +0.97 H.W.L.	38.4
5	3.1	3.7	3.5	3.4	3.6	3.5	4.9	5.4	5.4	5.5	5.5		36.6
6	3.5	3.9	3.5	3.4	3.4	3.2	4.5	4.8	4.8	5.3	5.3	60 High Waters = 326.7	35.5
7	4.5	4.6	3.8	3.4	3.3	2.9	4.0	4.3	4.3	5.0	5.0	H.W. of 5.44, reduced to	35.8
8	5.5	5.1	4.4	3.8	3.4	2.8	3.6	3.9	4.4	4.4	4.4	Comp Datum = +1.44	36.9
9	5.9	5.5	4.8	4.2	3.7	2.9	3.5	3.5	3.7	3.5	3.7		37.7
10	6.0	5.8	5.2	4.5	3.9	3.3	3.6	3.5	3.2	3.2	3.2		39.0
11	5.5	5.9	5.5	4.8	4.2	3.7	3.9	3.6	3.0	3.0	3.0	60 Low Waters = 146.1	40.1
12	5.1	5.7	5.3	4.9	4.5	4.3	4.2	3.9	3.2	3.2	3.2	M.W. of 2.78 reduced to	41.1
13	4.7	5.2	4.9	4.7	4.7	4.5	4.5	4.2	3.5	3.5	3.5	Comp Datum = -1.23	40.9
14	4.2	4.3	4.2	4.3	4.5	4.2	4.8	4.5	4.1	4.1	4.1		39.3
15	3.7	3.8	3.6	3.9	4.2	4.2	4.9	4.7	4.7	4.7	4.7	Extreme Range of Tide	37.7
16	3.4	3.3	3.3	3.4	3.8	4.1	4.8	4.9	5.0	5.0	5.0	-1.7 to +2.2 = 3.9 ft.	36.0
17	3.3	3.5	3.2	3.2	3.5	3.8	4.5	4.9	5.1	5.1	5.1		35.0
18	3.8	3.7	3.3	3.1	3.1	3.5	4.1	4.6	4.9	4.9	4.9	Mean Range of Tide	34.1
19	4.4	4.2	3.5	3.1	3.0	3.1	3.6	4.1	4.3	4.3	4.3	-1.23 to +1.44 = 2.67	33.3
20	5.0	4.7	3.9	3.2	2.9	2.7	3.2	3.5	3.7	3.7	3.7		32.8
21	5.6	5.3	4.3	3.6	3.1	2.7	3.1	3.0	3.0	3.0	3.0		33.7
22	6.0	5.6	4.7	4.2	3.5	3.2	3.1	2.8	2.7	2.7	2.7		35.8
23	6.1	5.8	5.2	4.8	4.2	3.9	3.4	2.9	2.7	2.7	2.7		39.0
Sum	109.9	112.7	103.9	97.4	94.8	89.8	101.6	102.4	100.2			216 H.H.	912.7
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.		
Jan 23	4:05 A.M.		-1.1	Jan 27	12:45 A.M.	+1.3		Jan 31	4:45 A.M.	+1.5			
	7:30 A.M.	+2.0			6:50 A.M.		-0.7		11:30 A.M.		-1.0		
	4:30 P.M.		-0.7		12:55 P.M.	+0.7			5:00 P.M.	+1.1			
Jan 24	10:30 P.M.	+2.1		Jan 28	7:45 P.M.		-1.1		11:00 P.M.		-1.3		
	4:30 A.M.		-0.3		1:15 A.M.	+1.0							
	10:45 A.M.	+1.9			7:45 A.M.		-1.2						
	4:15 P.M.		-0.7		1:30 P.M.	+0.5							
Jan 25	11:15 P.M.	+1.8		Jan 29	8:15 P.M.		-1.3						
	5:30 A.M.		-0.5		2:30 A.M.	+1.3							
	11:00 A.M.	+1.5			9:15 A.M.		-0.5						
	4:45 P.M.		-0.8		2:45 P.M.	+0.9							
Jan 26	11:55 P.M.	+1.5		Jan 30	9:15 P.M.		-0.9						
	6:30 A.M.		-0.6		3:45 A.M.	+1.7							
	11:45 A.M.	+0.9			10:15 A.M.		-0.5						
	5:40 P.M.		-0.9		4:45 P.M.	+0.9							
					10:15 P.M.		-1.2						
		(7) + 11.7	(8) - 5.6			(9) 8.3	(8) 7.4			(2) 2.6	(2) 2.3		

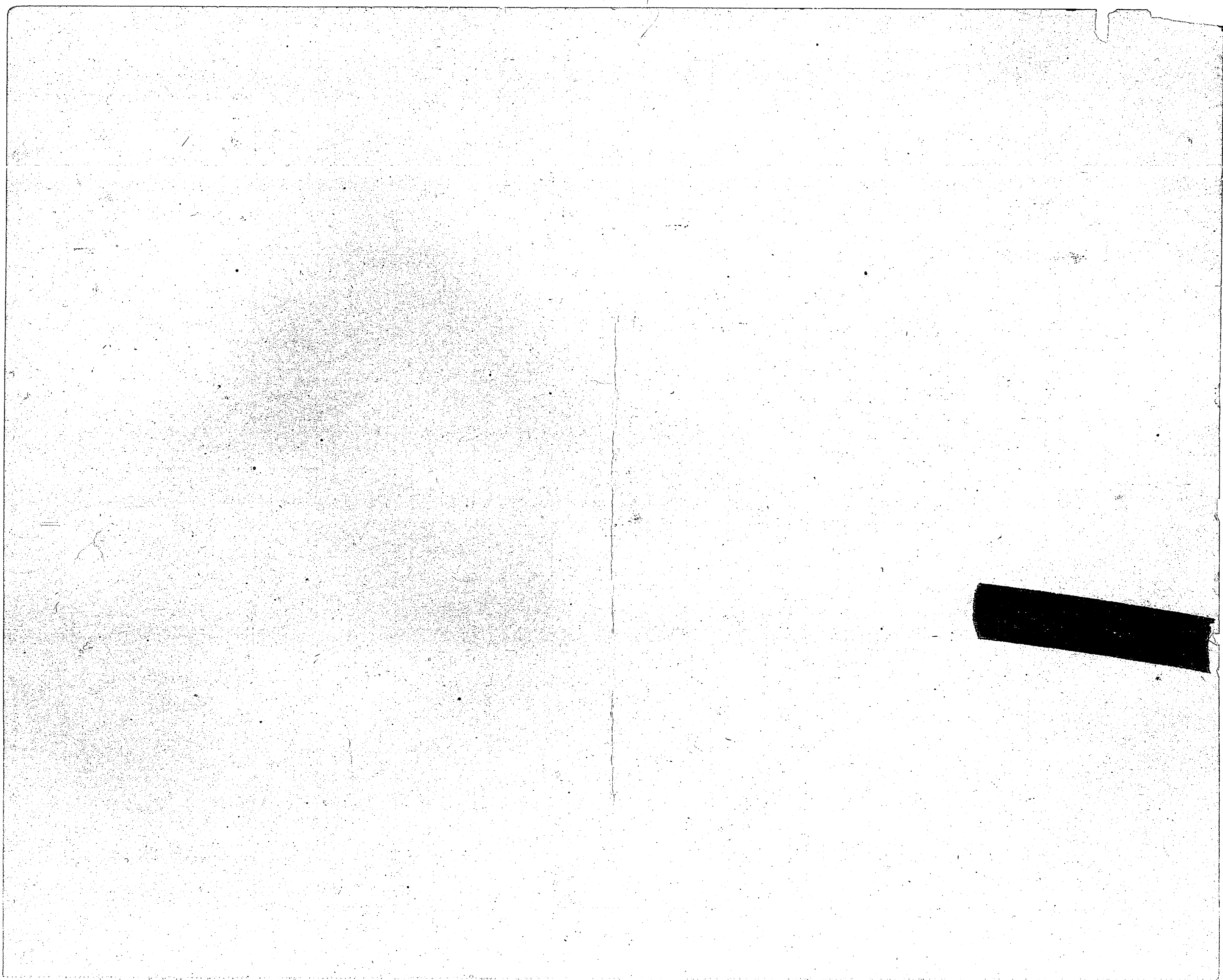


Sheet #10

Hourly Heights — New River Inlet

February 1954

Month and Day	mo. day	mo. day	mo. day	day	day	day	day	day	day	day	day	Horizontal Sum
Day of Series	90	91	92	93	94	95	96	97	98	99	100	
Hour	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.
0	2.8	2.6	2.6	2.9	3.9	4.2	4.9	5.4	5.9	5.4	5.7	46.2
1	3.5	2.7	2.5	2.7	3.1	3.4	3.9	4.7	5.4	5.3	5.5	43.3
2	4.2	3.3	2.8	2.5	2.9	3.0	3.1	3.9	4.7	4.7	5.1	41.2
3	4.8	4.1	3.7	2.7	3.0	2.9	2.8	3.1	3.4	3.4	4.5	40.3
4	5.3	4.9	4.7	4.2	3.5	3.0	2.7	2.7	2.8	3.9	4.5	42.2
5	5.5	5.5	5.4	5.4	4.6	3.5	2.8	2.8	2.6	3.2	4.0	45.3
6	5.6	5.8	5.9	6.3	5.4	4.5	3.3	2.9	2.6	2.8	3.6	48.7
7	5.2	5.6	6.0	6.3	6.1	5.4	4.2	3.4	3.1	2.9	3.2	51.4
8	4.8	5.2	5.8	6.2	6.2	6.0	5.1	3.6	3.6	3.1	3.1	53.6
9	4.0	4.4	5.4	6.1	6.1	6.3	5.7	5.1	4.0	3.5	3.2	54.2
10	3.2	3.6	4.5	5.7	6.1	6.2	5.9	5.6	4.6	4.2	3.5	
11	2.9	2.9	3.7	4.9	5.3	5.8	5.7	5.8	4.9			
12	2.8	2.6	3.0	3.8	4.1	4.6	5.0	5.4	5.2			
13	3.0	2.6	2.7	3.1	3.3	3.6	3.9	4.6	5.0			41.6
14	3.5	2.9	2.6	2.9	3.2	3.1	3.0	3.6	4.4	4.6	4.8	38.6
15	4.1	3.4	3.0	3.0	2.9	2.9	2.7	2.9	3.5	4.2	4.6	37.2
16	4.7	4.3	4.1	3.8	3.1	2.9	2.7	2.7	2.9	3.6	4.0	39.1
17	5.1	4.9	4.6	4.8	3.9	3.2	2.7	2.6	2.6	3.1	3.9	41.6
18	5.1	5.2	5.4	5.6	4.9	4.0	3.1	2.7	2.5	2.9	3.3	44.7
19	4.8	5.2	5.6	6.0	5.7	4.9	3.9	3.5	2.8	2.8	2.8	48.0
20	4.2	4.7	5.3	6.1	6.1	5.5	4.7	4.1	3.3	2.8	2.5	49.3
21	3.5	4.0	4.8	6.0	6.2	5.9	5.4	4.8	3.9	2.9	2.6	50.0
22	2.9	3.3	4.3	5.5	5.9	5.9	5.8	5.4	4.5	3.6	3.1	50.2
23	2.7	2.8	3.5	4.8	5.1	5.6	5.9	5.7	5.4	4.6	4.0	50.1
Sum	98.2	96.5	102.1	111.3	111.0	106.3	98.9	97.7	93.6	95.2	96.1	364 Hourly Heights = 1106.9 ✓
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	
Feb 1	5:35 A.M.	+ 1.6		Feb 5	2:15 A.M.		- 1.1	Feb 9	5:20 P.M.		- 1.4	
	12:15 P.M.		- 1.2		8:45 A.M.	+ 2.5			12:15 P.M.	+ 1.2		- 1.5
	5:45 P.M.	+ 1.1			2:45 P.M.		- 1.1	Feb 10	6:10 A.M.		- 1.5	
Feb 2	11:45 P.M.		- 1.4	Feb 6	8:45 P.M.	+ 2.2			12:30 A.M.	+ 1.7		- 1.2
	6:10 A.M.	+ 1.8			3:15 A.M.		- 1.1		6:20 A.M.	+ 1.2		
	12:30 P.M.		- 1.4		9:15 A.M.	+ 2.3			12:30 P.M.	+ 1.2		
	6:25 P.M.	+ 1.2			3:45 P.M.		- 1.1	Feb 11	7:30 A.M.		- 1.2	
Feb 3	12:45 A.M.		- 1.5	Feb 7	9:45 P.M.	+ 1.9			1:15 A.M.	+ 1.7		- 0.9
	6:45 A.M.	+ 2.0			4:15 A.M.		- 1.3		8:00 A.M.	+ 0.8		
	1:45 P.M.		- 1.4		10:00 A.M.	+ 1.9			2:00 P.M.	+ 0.8		- 1.5
	7:00 P.M.	+ 1.6			4:00 P.M.		- 1.3		8:30 P.M.			
Feb 4	2:00 A.M.		- 1.5	Feb 8	10:40 P.M.	+ 1.9						
	7:15 A.M.	+ 2.3			4:30 A.M.		- 1.3					
	2:15 P.M.		- 1.1		11:00 A.M.	+ 1.8						
	8:00 P.M.	+ 2.1			5:20 P.M.		- 1.4					
					11:45 P.M.	+ 1.9						
		(8) 13.7	(7) 9.5			(8) 16.4	(8) 9.7			(5) 6.6	(9) 7.5	



Sheet #11

Hourly Heights - New River Inlet

February - 1954

Month and Day	mo. day	mo. day	day	day	day	day	day	day	day	day	day	day	Horizontal Sum
Day of Series	Feb 101	Feb 102	103	104	105	106	107	108	109	110	111		
Hour	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.
0	4.5	3.9	3.1	2.9	2.3	2.5	2.7	3.5	3.8	4.6	4.7	38.0	
1	4.9	4.7	4.0	2.8	2.3	2.4	2.4	2.9	3.1	3.8	4.0	37.3	
2	5.2	5.2	4.6	3.6	2.8	2.7	2.8	2.6	2.8	3.3	3.4	38.5	
3	5.2	5.4	5.0	4.3	3.7	3.6	2.5	2.7	2.7	3.1	3.3	41.5	
4	4.9	5.5	5.2	4.9	4.3	4.4	3.2	3.1	2.9	3.2	3.2	44.8	
5	4.7	5.3	5.3	5.2	4.9	4.9	4.2	4.0	3.5	3.7	3.2	48.9	
6	4.2	4.8	5.2	5.2	5.3	5.4	5.0	4.6	4.2	4.2	3.4	51.5	
7	3.7	4.3	4.6	4.9	5.2	5.5	5.4	5.2	4.8	4.7	3.9	52.2	
8	3.1	3.6	4.0	4.4	4.8	5.2	5.5	5.7	5.2	5.2	4.5	57.2	
9	2.9	3.0	3.2	3.7	4.1	4.7	5.1	5.5	5.4	5.7	5.0	48.4	
10	3.0	2.8	2.8	2.9	3.3	4.1	4.6	5.3	5.2	5.9	5.2	45.1	
11	3.3	2.9	2.6	2.5	2.6	3.3	4.0	4.5	4.6	5.4	5.1	40.8	
12	3.9	3.2	2.6	2.4	2.3	2.8	3.3	3.7	3.9	4.5	4.7	37.3	
13	4.5	3.7	2.8	2.5	2.3	2.5	2.9	3.0	3.2	3.8	4.1	35.3	
14	4.9	4.3	3.5	3.0	2.5	2.4	2.7	2.6	2.8	3.2	3.3	35.2	
15	5.0	4.5	4.1	3.7	3.0	2.6	2.6	2.6	2.7	3.1	3.0	36.9	
16	4.9	4.7	4.5	4.2	3.9	3.2	3.2	3.1	2.8	3.2	2.9	40.6	
17	4.5	4.8	4.7	4.7	4.5	4.2	4.0	3.7	3.3	3.4	3.1	44.9	
18	3.9	4.5	4.6	4.9	5.0	4.7	4.7	4.4	4.1	3.8	3.6	48.2	
19	3.3	4.0	4.1	4.6	5.1	5.1	5.4	4.9	4.6	4.3	4.2	49.6	
20	2.8	3.2	3.5	4.1	4.7	4.8	5.0	5.3	5.1	5.0	4.7	48.8	
21	2.5	2.6	2.8	3.3	4.2	4.4	5.4	5.4	5.5	5.5	5.0	46.6	
22	2.6	2.5	2.5	2.7	3.5	3.8	5.0	5.2	5.5	5.7	5.4	44.4	
23	3.1	2.6	2.3	2.3	2.8	3.2	4.1	4.6	5.2	5.3	5.5	41.0	
Sum	95.5	96.0	91.6	89.2	89.5	92.4	95.8	98.1	96.9	103.6	98.4	1047.0	
264 Hourly Heights													
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.		
Feb 12 th	2:30 A.M.	+1.2		Feb 16 th	12:00 A.M.		-1.7	Feb 20 th	3:00 A.M.		-1.3		
	9:15 A.M.		-1.1		6:30 A.M.	+1.3			9:15 A.M.	+1.4			
	2:30 P.M.	+1.0			12:45 P.M.		-1.7		3:45 P.M.	+1.5			
	9:30 P.M.		-1.5		6:45 P.M.	+1.1			9:45 P.M.		-0.9		
Feb 13 th	3:45 A.M.	+1.5		Feb 17 th	12:45 A.M.		-1.2	Feb 21 st	3:00 A.M.		-0.9		
	10:15 A.M.		-1.2		6:30 A.M.	+1.5			9:45 A.M.	+1.9			
	4:45 P.M.	+0.8			1:50 P.M.		-1.2		3:00 P.M.		-0.9		
	10:00 P.M.		-1.5		7:15 P.M.	+1.1			10:00 P.M.	+1.7			
Feb 14 th	5:00 A.M.	+1.3		Feb 18 th	2:00 A.M.		-1.7	Feb 22 nd	4:30 A.M.		-0.8		
	11:30 A.M.		-1.4		7:30 A.M.	+1.5			10:15 A.M.	+1.2			
	5:15 P.M.	+0.7			2:45 P.M.		-1.4		3:45 P.M.		-1.1		
	11:30 P.M.		-1.7		8:00 P.M.	+1.6			11:00 P.M.	+1.5			
Feb 15 th	5:30 A.M.	+1.2		Feb 19 th	2:15 A.M.		-1.4						
	12:00 A.M.		-1.6		8:30 A.M.	+1.7							
	6:00 P.M.	+0.9			2:30 P.M.		-1.4						
					8:15 P.M.	+1.4							
		(8) 8.6	(7) 10.0			(8) 11.2	(8) 12.5			(6) 9.2	(6) 6.3		

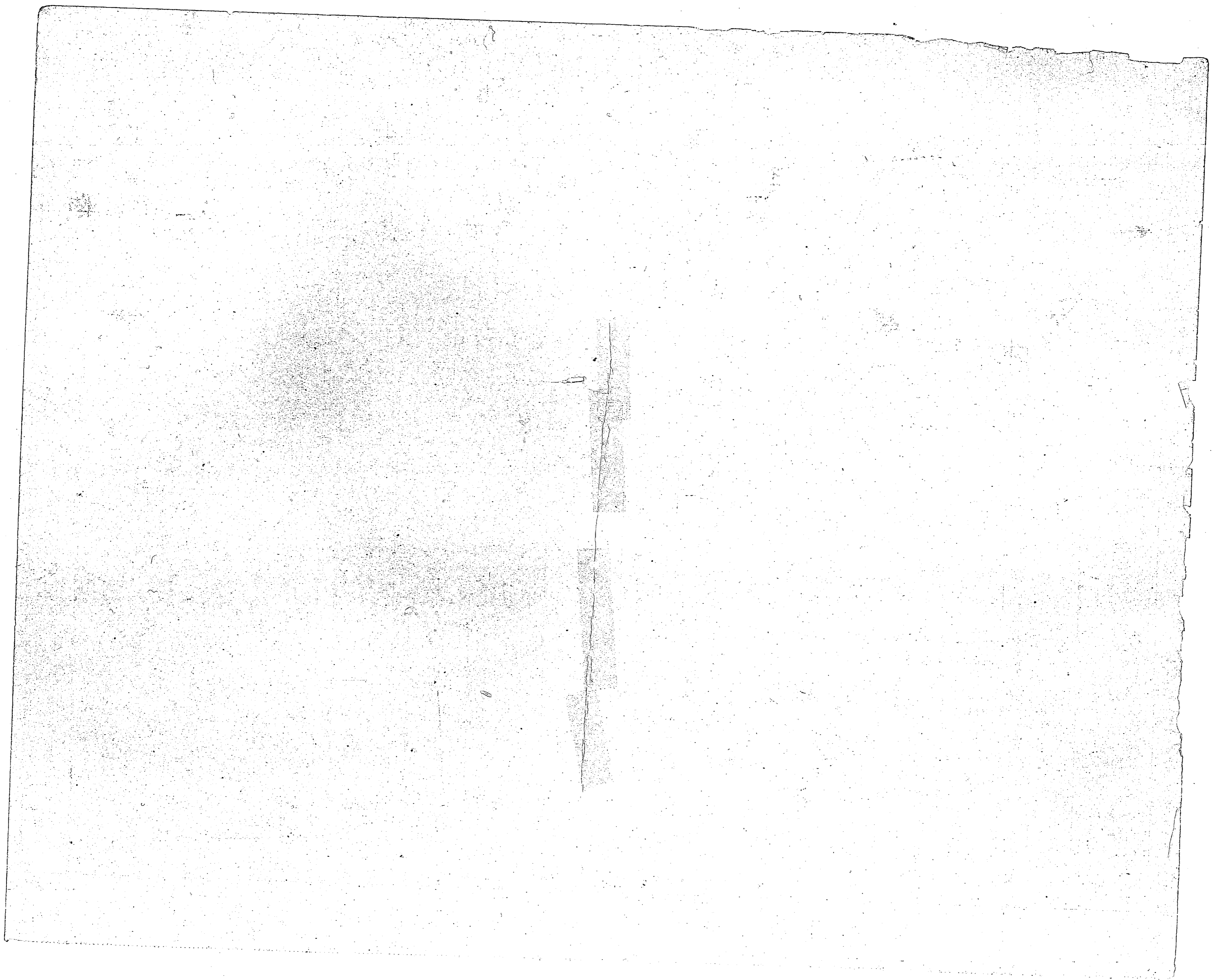


Sheet #12

Hourly Heights - New River Inlet

February - 1954

Month and Day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	mo. day	Horizontal Sum
Day of Series	Feb. 23	Feb. 24	Feb. 25	Feb. 26	Feb. 27	Feb. 28					
Hour	112	113	114	115	116	117					
0	5.4	5.6	5.9	5.8	5.1	5.0					32.8
1	4.7	5.2	5.7	5.7	5.4	5.5					32.2
2	4.0	4.6	5.4	5.5	5.5	5.8					30.8
3	3.4	4.1	4.8	5.3	5.3	5.9					28.8
4	3.2	3.7	4.6	4.9	5.1	5.6					27.1
5	3.2	3.6	4.2	4.5	4.7	5.3					25.5
6	3.6	3.6	3.9	4.2	4.4	4.8					24.5
7	4.1	3.8	3.8	4.0	4.1	4.4					24.2
8	4.4	4.2	3.9	3.9	3.9	3.9					24.2
9	4.8	4.6	4.1	4.0	3.9	3.7					25.1
10	5.1	5.0	4.7	4.4	4.1	3.7					27.0
11	5.3	5.3	5.3	4.8	4.4	3.8					28.9
12	5.1	5.2	5.5	5.1	4.9	4.2					30.0
13	4.6	5.0	5.2	5.1	5.1	4.7					29.7
14	4.0	4.4	4.8	4.9	5.1	5.1					28.3
15	3.5	3.8	4.3	4.7	5.0	5.2					26.5
16	3.2	3.5	4.0	4.4	4.9	5.1					25.1
17	3.2	3.4	4.0	3.9	4.6	4.8					23.9
18	3.4	3.6	3.8	3.5	4.2	4.6					23.1
19	3.9	3.9	3.7	3.4	3.9	4.2					23.0
20	4.3	4.2	4.0	3.3	3.7	3.9					23.4
21	4.8	4.6	4.2	3.4	3.5	3.6					24.1
22	5.3	5.1	4.7	3.8	3.8	3.9					26.6
23	5.6	5.7	5.4	4.6	4.4	4.3					30.0
Sum	102.1	105.7	109.9	107.1	109.0	111.0				144 H.H. =	644.8 ✓
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	From Mar. 4th to March 1st			
Feb. 23rd	8:30 A.M.		-0.8	Feb 27th	1:30 A.M.	+1.5		117 Days of Observation,			
	10:50 A.M.	+1.3			8:45 A.M.		-0.1	2795 Hourly Heights = 11,764.8 = Mean of			
	4:25 P.M.		-0.8		1:45 P.M.	+1.1		4.21 H.H.W. or +0.21 H.H.W. Camp Datum.			
Feb. 24th	11:30 P.M.	+1.6		Feb 28th	9:10 P.M.		-0.5	225 High Waters = 1254.1 = Mean of			
	5:20 A.M.	+1.3	-0.4		2:45 A.M.	+1.9	-0.3	5.57 H.H.W. or +1.57 H.H.W. Camp Datum			
	10:45 A.M.				9:45 P.M.	+1.2		226 Low Waters = 662.7 = Mean of			
Feb 25th	5:00 P.M.		-0.6		3:10 P.M.		-0.4	2.93 H.L.W. or -1.07 H.L.W. Camp Datum			
	12:45 A.M.	+1.9			9:30 P.M.			Extreme Range of Tide From -1.7 to +3.1 = 4.8 ft.			
	7:00 P.M.		-0.2					Mean Range of Tide From -1.07 to +1.57 = 2.64			
	11:50 A.M.	+1.5	-0.3								
Feb. 26th	7:00 P.M.		-0.3								
	12:30 A.M.	+1.8									
	8:30 A.M.		-0.1								
	12:30 P.M.	+1.1									
	8:00 P.M.		-0.7								
		① 10.5	② 3.9			③ 5.7	④ 1.3				

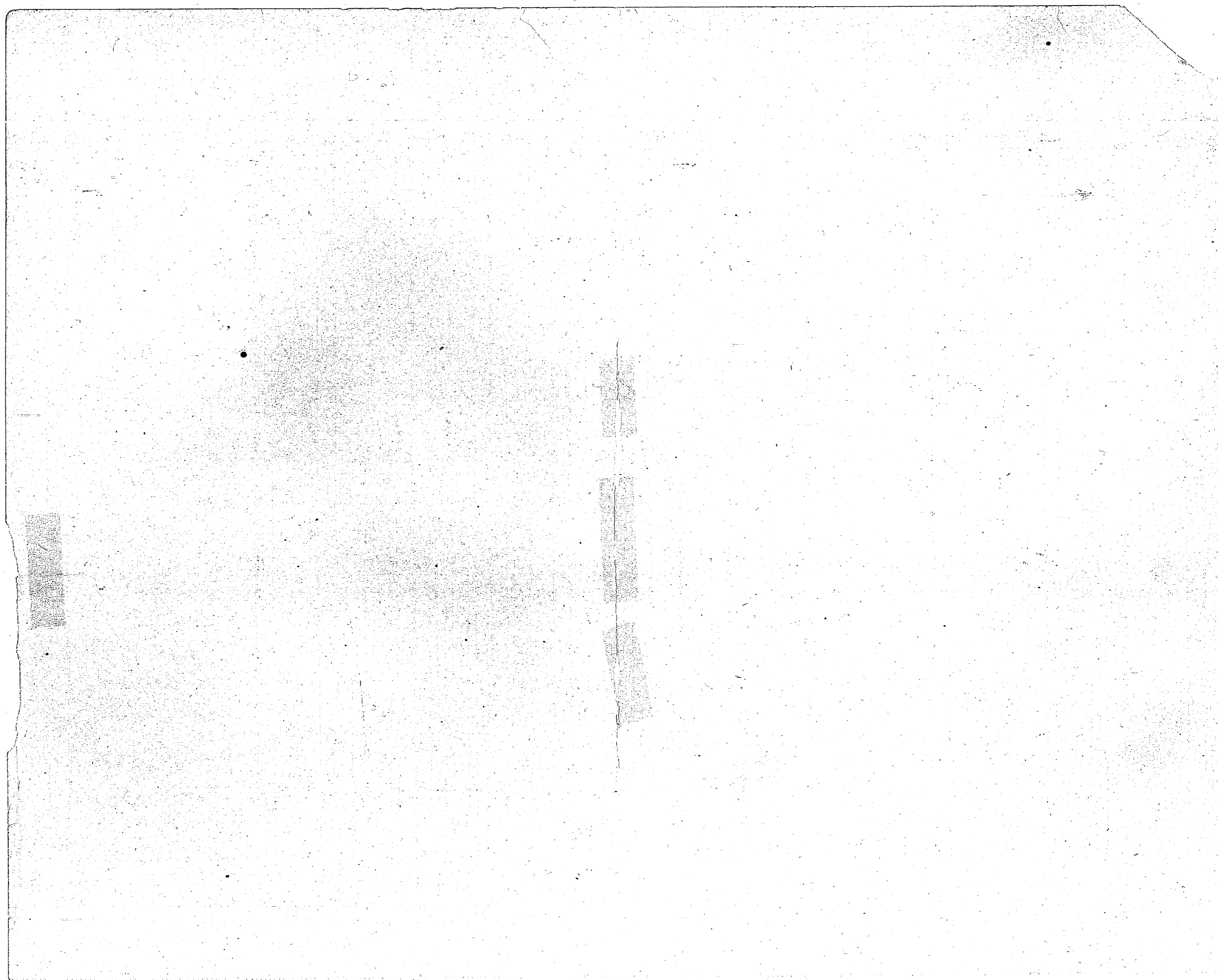




Sheet #14

Hourly Heights — New River Inlet March — 1954

Month and Day	Mo. day	Mo. day	day	day	day	day	day	day	day	day	day	day	Horizontal Sum
Day of Series	March 92	March 93	131	132	133	134	135	136	137	138	139	139	
Hour 0	5.3	4.9	4.2	2.8	2.2	2.3	2.5	2.6	2.9	3.4	4.0	37.1	
1	5.4	5.4	4.9	3.4	2.7	2.5	2.4	2.4	2.8	2.9	3.2	38.0	
2	5.3	5.6	5.4	4.3	3.7	3.2	2.7	2.5	2.9	2.8	2.9	41.3	
3	5.0	5.4	5.4	4.7	4.2	4.0	3.4	3.1	3.2	2.8	2.7	43.9	
4	4.5	5.0	5.3	5.0	4.7	4.6	4.2	3.9	3.6	3.2	2.8	46.8	
5	3.9	4.4	5.0	4.8	4.8	5.0	4.8	4.6	4.0	3.9	3.3	48.6	
6	3.3	3.9	4.7	4.5	4.8	5.2	5.1	5.1	4.6	4.5	4.1	49.5	
7	2.9	3.4	4.2	4.2	4.5	5.0	5.2	5.3	5.3	5.0	4.8	49.8	
8	2.8	3.1	3.7	3.6	3.5	4.6	4.8	5.2	5.6	5.3	5.0	47.6	
9	3.1	3.0	3.1	2.9	3.6	3.9	4.2	4.8	5.2	5.2	5.1	43.5	
10	3.5	3.1	2.8	2.5	2.6	3.2	3.4	4.1	4.3	4.8	4.9	39.2	
11	4.1	3.3	2.6	2.4	2.4	2.7	2.8	3.3	3.7	4.2	4.4	35.9	
12	4.5	3.9	2.9	2.6	2.3	2.4	2.5	2.9	3.1	3.5	3.9	34.5	
13	4.8	4.5	3.7	3.3	2.6	2.4	2.4	2.5	2.8	3.0	3.2	35.2	
14	4.7	4.8	4.4	3.9	3.3	2.9	2.5	2.5	2.7	2.8	2.8	37.3	
15	4.5	4.9	4.7	4.4	3.9	3.6	3.2	3.0	3.0	2.8	2.7	40.7	
16	4.1	4.7	4.8	4.6	4.0	4.4	4.0	3.9	3.7	3.2	2.8	44.7	
17	3.6	4.3	4.6	4.7	5.0	5.1	4.8	4.7	4.3	4.0	3.3	48.4	
18	3.2	3.9	4.0	4.5	5.1	5.4	5.3	5.3	4.9	4.6	4.2	50.4	
19	3.0	3.3	3.5	4.2	4.7	5.3	5.4	5.8	5.4	5.1	4.8	50.5	
20	2.8	2.8	3.0	3.5	4.0	4.8	5.1	6.0	5.6	5.4	5.2	48.2	
21	2.9	2.7	2.6	2.7	3.2	4.0	4.5	5.6	5.3	5.3	5.5	44.3	
22	3.4	2.8	2.5	2.2	2.6	3.1	3.7	4.5	4.8	5.1	5.5	40.2	
23	4.1	3.5	2.5	2.1	2.3	2.6	3.0	3.8	4.2	4.7	5.2	38.0	
Full Moon ☉													
24 Hourly Heights												1033.9	
Sum	94.7	96.6	94.5	87.8	87.1	92.2	91.9	97.4	97.9	97.5	96.3	1033.9	
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.		
March 12 th	1:00 A.M.	+1.4	-1.2	March 16 th	5:15 A.M.	+0.9	-1.7	March 20 th	1:00 A.M.	+1.6	-1.2		
	7:30 A.M.		-1.2		11:15 A.M.		-1.7		7:45 A.M.		-1.3		
	1:30 P.M.	+0.8	-1.2		5:30 P.M.	+1.1	-1.7		1:45 P.M.		-1.3		
	8:00 P.M.		-1.2		11:45 P.M.		-1.7		7:50 P.M.	+1.6	-1.2		
March 13 th	2:15 A.M.	+1.6	-1.0	March 17 th	6:00 A.M.	+1.2	-1.6	March 21 st	2:30 A.M.		-1.2		
	9:30 A.M.		-1.0		12:45 P.M.		-1.6		8:30 A.M.	+1.3	-1.2		
	2:45 P.M.	+0.9	-1.3	March 18 th	6:15 P.M.	+1.4	-1.6		2:30 P.M.		-1.2		
	9:15 P.M.		-1.3		12:45 A.M.		-1.6		8:20 P.M.	+1.4	-1.3		
March 14 th	2:45 A.M.	+1.4	-1.4		6:30 A.M.	+1.2	-1.6	March 22 nd	3:15 A.M.	+1.1	-1.3		
	11:15 A.M.		-1.4		1:15 P.M.		-1.6		8:45 A.M.	+1.1	-1.3		
	4:00 P.M.	+0.8	-1.5	March 19 th	6:45 P.M.	+1.4	-1.6		3:15 P.M.		-1.3		
	10:30 P.M.		-1.5		1:15 A.M.		-1.6		9:45 P.M.	+1.5			
March 15 th	4:00 A.M.	+1.0	-1.6		7:15 A.M.	+1.3	-1.5						
	11:15 A.M.		-1.6		1:30 P.M.		-1.5						
	5:00 P.M.	+0.7	-1.9		7:45 P.M.	+2.0							
	11:45 P.M.		-1.9										
		⑧ 8.6	⑧ 11.1			⑧ 10.5	⑦ 11.3			⑧ 8.5	⑧ 7.5		



Sheet #15

Hourly Heights — New River Inlet
March — 1954

Month & Day	Mo. day	Mo. day	day	day	day	day	day	day	day	day	day	Horizontal Sum
Day of Series	March 140	141	142	143	144	145	146	147	148	day	day	
Hour												
0	4.6	4.6	4.9	5.4	4.8	5.3	4.9	4.1	3.3	Month of March		41.9
1	3.8	3.9	4.4	5.0	4.9	5.6	5.2	4.8	4.1	744 Hourly Heights = 2961.2		41.7
2	3.1	3.1	3.9	4.4	4.6	5.4	5.2	5.2	4.8	Mean = 3.98 Reduced to Camp		39.7
3	2.8	2.9	3.4	3.9	4.1	5.3	5.1	5.4	5.2	Datum = -0.02		38.1
4	2.7	2.8	3.0	3.4	3.5	5.0	4.9	5.5	5.5	59 High Waters = 318.5 =		36.3
5	3.0	2.8	3.0	3.0	3.1	4.7	4.6	5.3	5.4	5.40 M H.W. Reduced to Camp		34.9
6	3.5	3.1	3.0	2.9	2.9	4.3	4.1	4.7	5.1	Datum = +1.40		32.6
7	4.0	3.6	3.4	3.1	2.9	3.5	3.6	4.0	4.5			32.1
8	4.4	4.1	3.9	3.5	3.1	2.8	3.2	3.3	3.8			32.1
9	4.7	4.3	4.2	3.9	3.3	3.3	3.1	2.9	3.1	58 Low Waters = 158.9 =		32.8
10	4.8	4.6	4.5	4.2	3.7	3.8	3.2	2.9	2.7	2.65 M.L.W. Reduced to Camp		34.4
11	4.6	4.5	4.7	4.2	4.1	4.7	3.5	3.1	2.7	Datum = -1.35		36.2
12	4.1	4.0	4.6	4.2	4.5	5.0	4.2	3.6	2.9			37.1
13	3.4	3.5	4.1	4.2	4.7	4.9	4.6	4.1	3.7	Extreme Range of Tide:		37.2
14	2.8	3.0	3.6	3.7	4.5	4.7	4.7	4.6	4.5	From -1.9 to +2.8 = 4.7 ft		36.1
15	2.6	2.7	3.2	3.3	4.1	4.4	4.8	4.9	5.1			35.1
16	2.6	2.6	2.9	3.0	3.5	4.1	4.7	5.0	5.6	Mean Range of Tide:		34.0
17	2.9	2.6	2.8	2.8	3.2	3.9	4.4	4.9	6.0	From -1.35 to +1.40 = 2.75		33.5
18	3.5	3.0	3.1	2.7	3.1	3.7	4.0	4.6	5.6			33.3
19	4.1	3.6	3.5	2.8	3.1	3.3	3.6	4.0	5.0			33.0
20	4.5	4.2	4.0	3.3	3.3	3.0	3.1	3.3	4.0			32.7
21	4.9	4.7	4.5	3.7	3.8	3.1	2.9	2.9	3.5			34.0
22	5.2	5.1	4.9	4.2	4.2	3.6	3.0	2.8	3.1			36.1
23	5.1	5.2	5.3	4.6	4.8	4.3	3.4	2.9	2.8			38.4
Sum	91.7	88.5	92.7	89.6	91.8	101.7	98.0	98.8	102.0	214 H.H. =		854.8 ✓
Date	March 23 rd				March 27 th				March 31 st			
Time	3:15 A.M.				12:45 A.M.				4:15 A.M.			
	9:15 A.M.	+0.8			6:15 P.M.		-1.1		10:45 A.M.		-1.3	
	3:45 P.M.		-1.4		1:15 P.M.	+0.7			5:00 P.M.	+2.0		
	10:30 P.M.	+1.2			6:15 P.M.		-0.9		11:30 P.M.		-1.2	
March 24 th	4:15 A.M.		-1.2	March 28 th	12:45 A.M.	+1.6						
	10:15 A.M.	+0.6			8:00 A.M.		-1.2					
	4:30 P.M.		-1.4		12:00 P.M.	+1.0						
	11:00 P.M.	+1.2			8:30 P.M.		-1.0					
March 25 th	5:00 A.M.		-1.0	March 29 th	1:30 A.M.	+1.2						
	11:00 A.M.	+0.7			9:15 A.M.		-0.9					
	4:30 P.M.		-1.2		2:45 P.M.	+0.8						
	11:45 P.M.	+1.4			9:15 P.M.		-1.1					
March 26 th	6:15 A.M.		-1.1	March 30 th	4:00 A.M.	+1.5						
	11:00 A.M.	+0.3			9:45 A.M.		-1.1					
	6:15 P.M.		-1.3		4:00 P.M.	+1.0						
					10:15 P.M.		-1.2					
		(7) 6.2	(8) 9.9			(2) 8.7	(3) 8.5		(2) 3.5	(2) 2.5		

From Mar 23rd to April 1st
148 days of observation = 3539 Hourly Heights = 147254
= Mean of 4.16 M.W. or +0.16 M.W. Camp Datum
284 High Waters = 1572.6 = Mean of 5.54 or +1.52 M.H.W.C.D.
284 Low Waters = 816.4 = Mean of 2.87 or -1.13 M.L.W.C.D.
Extreme Range of Tide = From -1.9 to +3.1 = 5.0 ft
Mean " " " = From -1.13 to +1.5 = 2.67 ft

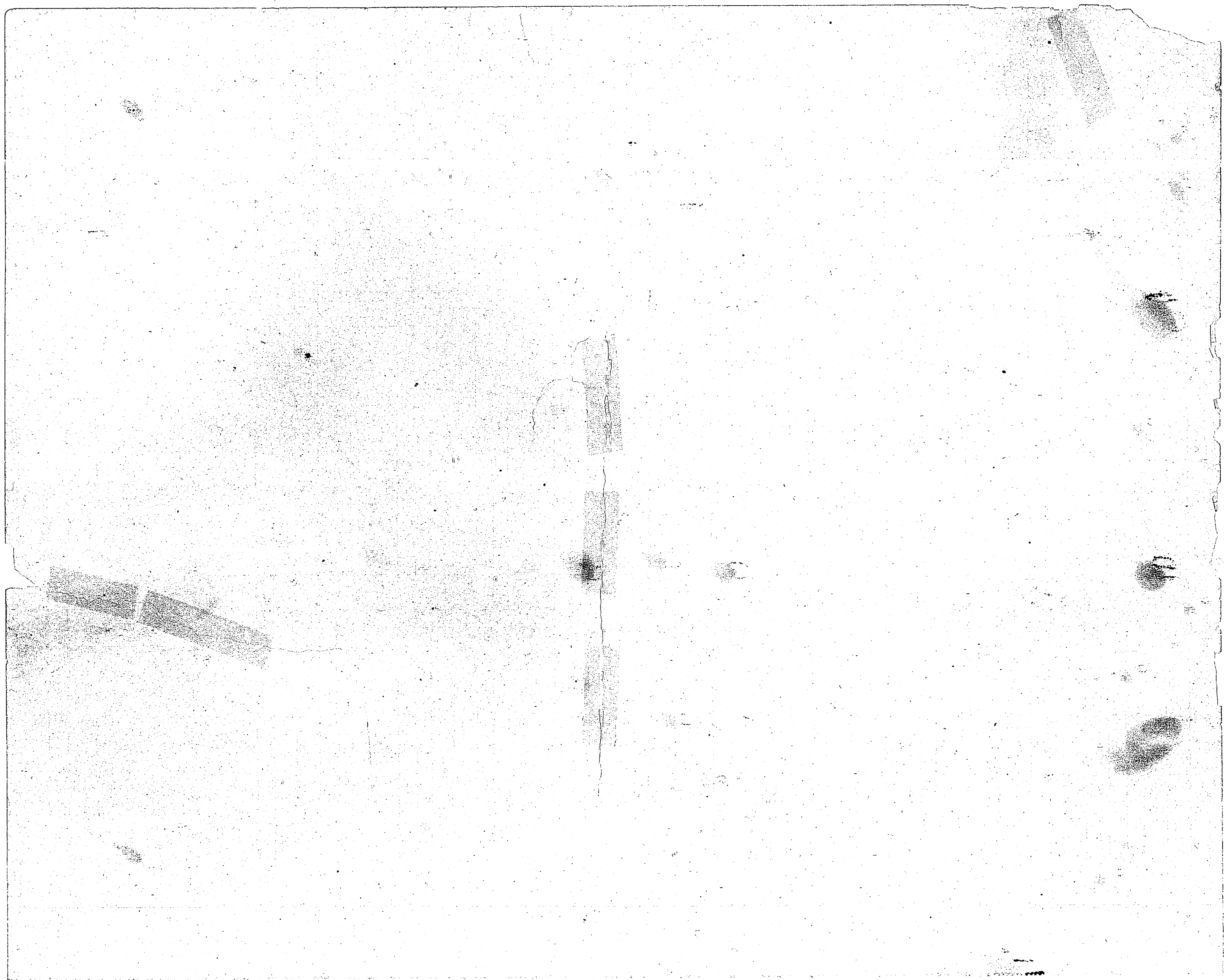


Sheet #16

Hourly Heights — New River Inlet

April — 1954

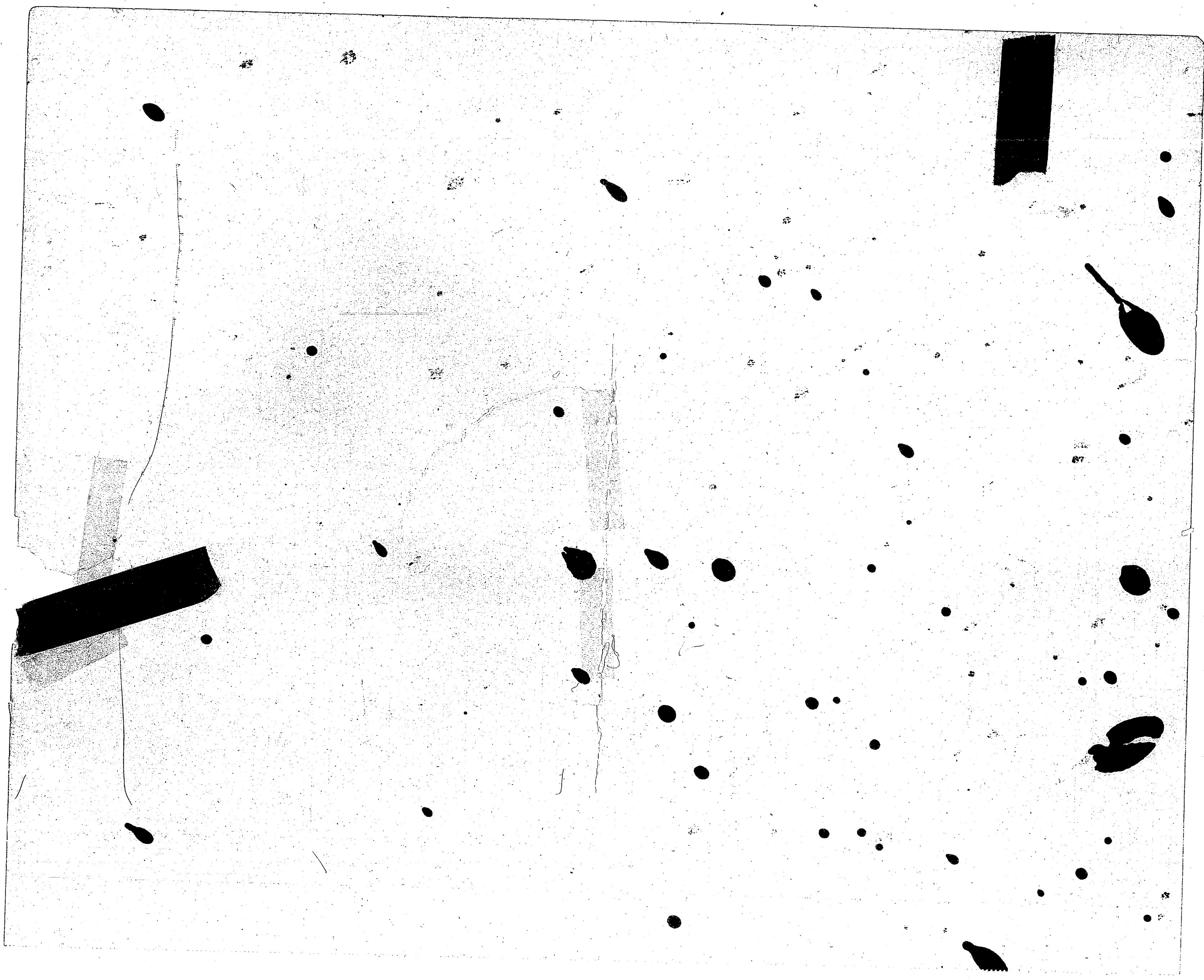
Month and Day	Mo April 149	Day 150	Day 151	Day 152	Day 153	Day 154	Day 155	Day 156	Day 157	Day 158	Day 159	Horizontal Sum
Hour 0	3.1	2.9	3.0	3.0	3.7	4.2	5.0	5.6	5.5	6.0	5.0	47.0
1	3.9	3.1	2.9	2.9	3.0	3.2	3.9	4.8	5.0	5.9	5.5	44.1
2	4.5	3.7	3.0	2.8	2.8	2.7	3.1	4.1	4.4	5.6	5.3	42.0
3	5.4	4.7	3.5	2.9	2.8	2.6	2.7	3.2	4.0	5.2	5.1	42.1
4	5.8	5.5	4.6	3.6	2.8	2.6	2.5	2.8	3.5	4.7	4.8	43.2
5	5.9	6.2	5.5	4.7	3.5	2.8	2.7	2.7	3.1	4.1	4.3	43.5
6	5.6	6.4	6.0	5.5	4.6	3.6	2.8	2.8	2.9	3.6	3.8	47.6
7	5.0	6.1	6.1	6.1	5.5	4.6	3.6	3.1	3.0	3.3	3.3	49.7
8	4.3	5.4	5.6	6.0	5.8	5.0	4.4	3.7	3.6	3.2	3.1	50.1
9	3.6	4.5	4.8	5.6	5.7	5.3	5.0	4.5	4.2	3.3	3.0	49.5
10	3.2	3.5	3.7	4.7	4.9	5.1	5.3	4.9	4.7	3.8	3.2	47.0
11	3.0	3.0	3.0	3.6	3.9	4.5	5.1	5.1	5.0	4.4	3.8	44.4
12	2.9	2.9	2.8	3.0	3.1	3.7	4.4	4.9	5.2	4.9	4.4	42.2
13	3.0	3.0	2.8	2.8	2.8	3.0	3.7	4.4	5.1	5.2	4.8	40.6
14	4.1	3.4	2.8	2.8	2.7	2.5	3.2	3.9	4.8	5.0	4.9	40.1
15	5.0	4.4	3.1	2.8	2.6	2.3	2.7	3.3	4.4	4.6	4.9	40.1
16	5.8	5.3	4.2	3.5	2.7	2.3	2.5	2.9	3.9	4.2	4.6	41.9
17	6.3	6.1	5.4	4.7	3.9	2.5	2.6	2.7	3.5	3.7	4.2	45.0
18	6.4	6.6	6.3	5.7	4.7	3.4	3.0	2.7	3.2	3.4	3.8	49.8
19	6.0	6.5	6.5	6.5	5.6	4.4	3.8	2.9	3.1	3.1	3.3	51.7
20	5.2	5.9	6.3	6.8	6.1	5.3	4.7	3.5	3.6	2.9	3.1	53.4
21	4.3	5.0	5.7	6.5	6.2	6.0	5.5	4.4	4.2	3.2	3.0	54.0
22	3.4	3.9	4.7	5.8	5.8	6.0	6.0	5.0	4.9	3.8	3.2	52.5
23	3.1	3.2	3.7	4.8	5.0	5.6	6.0	5.4	5.4	4.5	3.8	50.5
Sum	188.8	111.2	106.0	107.1	99.6	93.2	94.2	93.3	100.2	101.6	98.2	26.4 Hourly Heights
Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	1113.4
April 1 st	5:00 A.M.	+ 1.9	- 1.1	April 5 th	2:25 A.M.	+ 1.8	- 1.2	April 9 th	6:15 A.M.	+ 1.2	- 1.1	
April 2 nd	11:45 A.M.	+ 2.4	- 1.1	April 6 th	8:15 A.M.	+ 2.2	- 1.4	April 10 th	12:15 P.M.	+ 2.0	- 0.8	
April 3 rd	5:45 P.M.	+ 2.6	- 1.1	April 7 th	3:45 A.M.	+ 1.3	- 1.7	April 11 th	6:45 P.M.	+ 1.2	- 1.1	
April 4 th	12:00 A.M.	+ 2.1	- 1.2	April 8 th	9:00 A.M.	+ 2.0	- 1.3		8:00 A.M.	+ 1.5	- 1.0	
	6:15 A.M.	+ 2.5	- 1.2		9:30 P.M.	+ 1.3	- 1.5		1:15 P.M.	+ 0.9	- 1.0	
	1:00 P.M.	+ 2.1	- 1.2		10:00 A.M.	+ 2.0	- 1.3		8:45 A.M.	+ 1.5	- 1.0	
	7:00 P.M.	+ 2.5	- 1.2		4:15 P.M.	+ 1.3	- 1.5		2:00 P.M.	+ 0.9	- 1.0	
	2:00 A.M.	+ 2.1	- 1.2		10:30 P.M.	+ 1.1	- 1.3		8:45 P.M.	+ 1.5	- 1.0	
	7:30 A.M.	+ 2.1	- 1.2		5:15 A.M.	+ 1.1	- 1.3					
	2:00 P.M.	+ 2.8	- 1.2		11:15 A.M.	+ 1.1	- 1.3					
	8:15 P.M.	+ 2.8	- 1.2		5:30 P.M.	+ 1.5	- 1.3					
					11:45 P.M.	+ 1.5	- 1.3					
		(8) 18.8	(7) 8.0							(5) 4.8	(6) 5.9	



Sheet #17

Hourly Heights — New River Inlet
April — 1954

Month & Day	Mo April	Day 012	Day 013	Day 014	Day 015	Day 016	Day 017	Day 018	Day 019	Day 020	Day 021	Day Horizontal Sum
Day Series	160	161	162	163	164	165	166	167	168	169	170	
0	4.4	4.0	3.2	3.0	3.0	3.1	3.2	3.4	4.0	4.3	5.0	41.1
1	4.9	4.6	3.9	3.4	3.1	3.4	3.0	3.1	3.2	3.5	4.2	40.3
2	5.3	5.1	4.5	4.0	3.4	3.5	3.1	3.0	3.0	3.2	3.6	41.7
3	5.2	5.3	4.9	4.7	4.3	4.0	3.4	3.2	3.0	3.1	3.3	44.4
4	5.0	5.4	5.3	5.1	4.9	4.7	4.2	4.2	3.8	3.2	3.2	41.9
5	4.5	5.2	5.2	5.4	5.3	5.3	4.8	4.2	3.8	3.6	3.4	41.9
6	4.0	4.8	5.0	5.3	5.3	5.7	5.2	4.7	4.3	4.0	3.8	52.3
7	3.6	4.2	4.5	5.0	5.3	5.7	5.4	5.1	4.7	4.5	4.3	50.2
8	3.1	3.6	3.9	4.4	4.4	5.1	5.3	5.3	5.0	4.9	4.7	46.5
9	2.9	3.1	3.4	3.7	4.1	4.0	5.0	5.0	5.1	5.1	5.0	42.4
10	2.9	2.9	3.0	3.1	3.1	3.7	4.3	4.2	4.8	5.0	5.1	39.5
11	3.2	2.9	2.9	3.0	3.1	3.4	3.7	3.6	4.2	4.6	4.9	37.1
12	3.7	3.4	3.0	2.9	2.9	3.2	3.2	3.0	3.5	4.0	4.3	36.8
13	4.4	4.0	3.5	3.0	3.1	2.9	2.9	2.9	2.9	3.3	3.7	35.5
14	4.9	4.6	4.3	3.6	3.6	2.8	2.9	2.8	2.7	3.0	3.3	46.9
15	5.2	5.0	4.9	4.5	4.6	3.0	3.3	2.9	2.8	2.9	3.1	46.9
16	5.3	5.3	5.4	5.1	5.1	3.6	4.4	3.5	3.2	3.0	3.0	52.5
17	5.0	5.2	5.7	5.6	5.7	5.0	5.1	4.4	3.9	3.6	3.3	52.5
18	4.7	5.0	5.5	5.7	6.1	5.9	5.7	5.0	4.3	4.3	3.8	56.2
19	4.1	4.5	5.2	5.5	6.2	6.1	5.9	5.5	5.0	4.9	4.4	57.3
20	3.5	3.8	4.5	4.9	5.3	5.8	6.0	5.8	5.6	5.4	4.9	56.0
21	3.2	3.2	3.8	4.2	5.2	5.0	5.6	5.8	5.8	5.8	5.4	53.0
22	3.1	3.0	3.3	3.5	4.1	4.2	5.0	5.4	5.8	5.8	5.7	49.2
23	3.4	3.0	3.0	3.1	4.6	3.6	4.0	4.7	5.1	5.5	5.7	45.1
Sum	99.5	101.1	101.8	101.9	107.2	103.3	104.6	100.1	98.9	100.5	101.1	264.4
Date	April 12 th							April 20 th				1220.0
Time	2:30 A.M.							3:00 A.M.				
	9:45 A.M.							8:45 A.M.				
	3:30 P.M.							2:15 P.M.				
	9:45 P.M.							9:15 P.M.				
Date	April 13 th							April 21 th				
Time	9:30 A.M.							3:30 A.M.				
	10:45 A.M.							9:15 A.M.				
	4:15 P.M.							3:15 P.M.				
	10:45 P.M.							9:45 A.M.				
Date	April 14 th							April 22 nd				
Time	4:15 A.M.							3:45 A.M.				
	11:00 A.M.							9:45 A.M.				
	5:15 P.M.							3:45 P.M.				
	11:30 P.M.							10:15 P.M.				
Date	April 15 th											
Time	5:30 A.M.											
	11:30 A.M.											
	6:00 P.M.											
Sum		(8) 11.4	(7) 7.3			(9) 14.0	(8) 8.2		(6) 8		(6) 6.1	

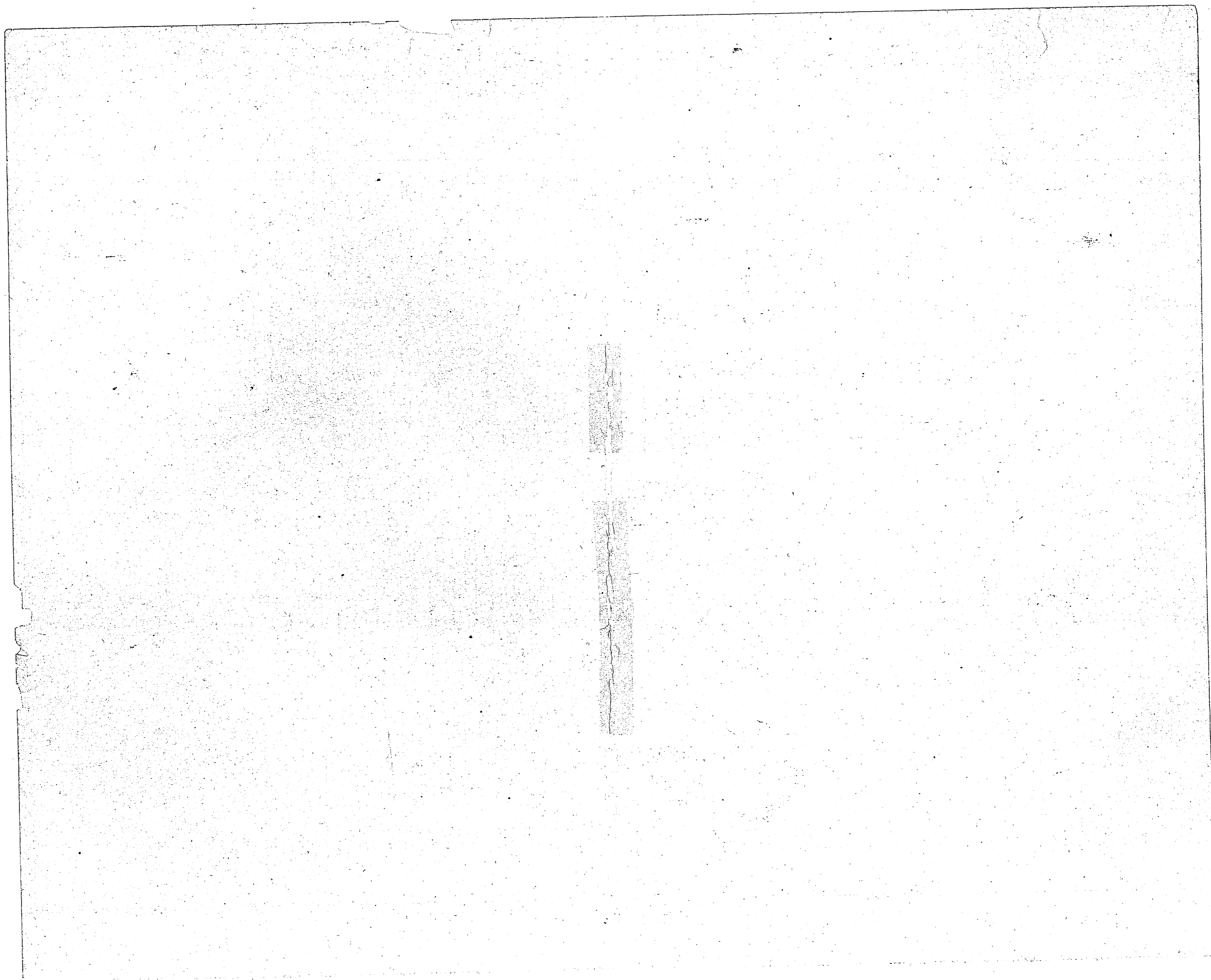




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Hourly Heights — New River Inlet
May 1954

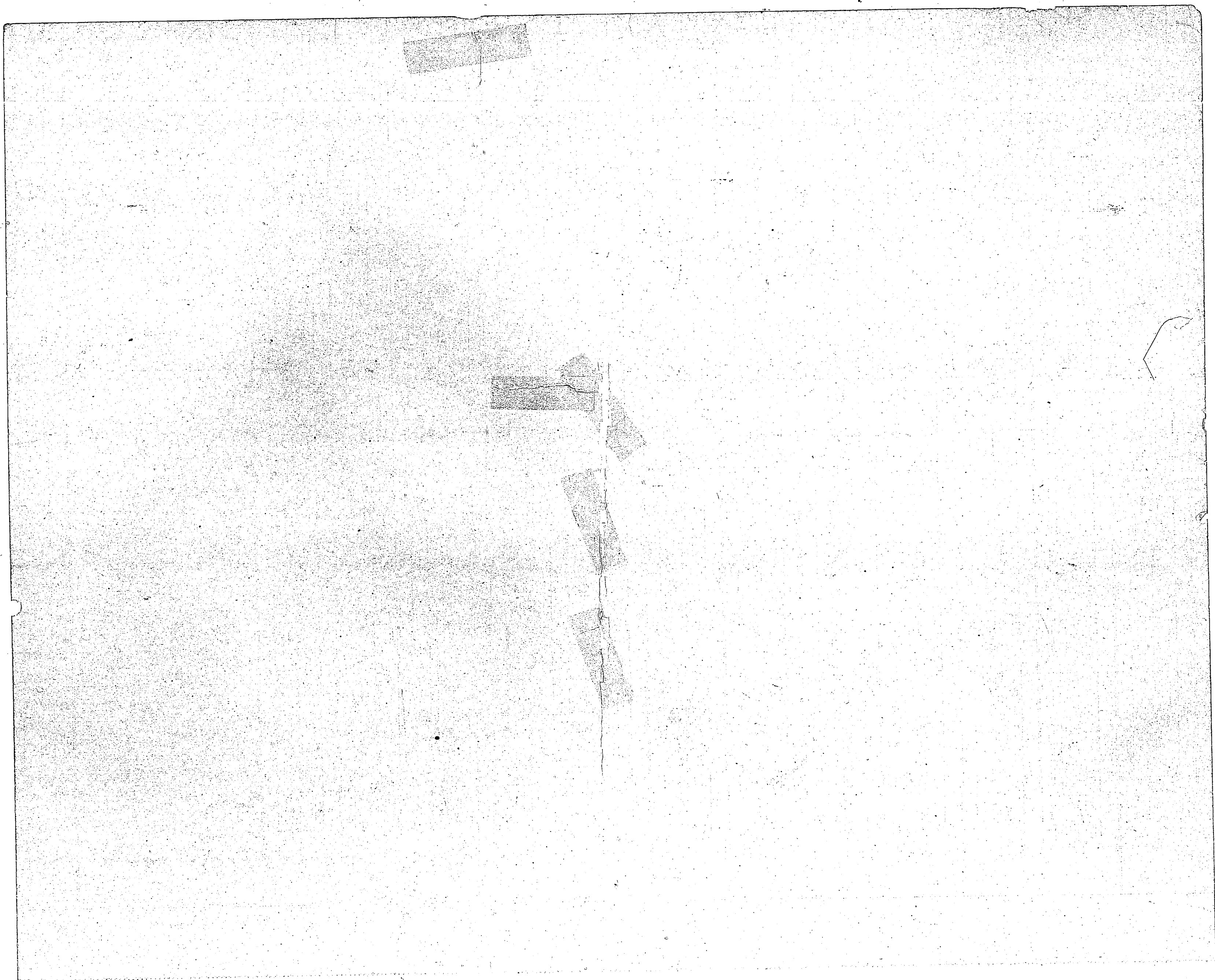
Month & Day	Day 179	Day 180	Day 181	Day 182	Day 183	Day 184	Day 185	Day 186	Day 187	Day 188	Day 189	Day 190	Day 191	Horizontal Sum
Hour														
0	3.0	3.0	3.0	3.5	4.5	5.5	5.9	6.4	5.8	5.5	4.8			50.9
1	3.2	2.9	2.9	3.0	3.5	4.6	5.3	5.8	5.7	5.6	5.3			47.8
2	3.9	3.1	2.9	2.9	2.9	3.7	4.4	5.2	5.2	5.3	5.3			44.8
3	4.9	3.8	3.1	3.1	2.8	3.4	3.7	4.4	4.7	5.0	5.3			44.2
4	5.7	5.0	3.9	3.3	2.9	3.3	3.4	3.6	4.2	4.7	5.1			45.1
5	6.2	5.7	4.9	4.3	3.4	3.5	3.2	3.4	3.8	4.3	4.6			47.3
6	6.0	6.1	5.7	5.2	4.2	3.9	3.3	3.3	3.6	3.7	4.1			49.1
7	5.6	6.0	5.9	5.7	5.1	4.7	3.7	3.4	3.9	3.1	3.5			50.0
8	4.7	5.5	5.8	6.0	5.8	5.5	4.5	3.4	3.4	3.0	3.1			50.9
9	3.8	4.7	5.3	5.6	6.0	6.0	5.2	4.2	3.8	3.0	3.0			50.6
10	3.2	3.7	4.3	4.9	5.8	6.1	5.6	4.9	4.5	3.6	3.2			49.8
11	3.0	3.0	3.3	4.0	5.2	5.8	5.7	5.4	5.2	4.5	3.7			48.8
12	2.9	2.8	2.9	3.2	4.4	5.2	5.5	5.5	5.7	5.3	4.5			47.9
13	3.0	2.8	2.8	2.9	3.0	4.5	5.1	5.2	5.8	5.4	4.9			46.0
14	3.5	3.0	2.8	2.8	3.2	3.7	4.5	4.8	5.5	5.3	5.3			44.4
15	4.7	3.9	3.1	2.9	3.0	3.3	3.9	4.2	5.1	5.2	5.5			44.8
16	5.8	5.1	4.0	3.1	3.0	3.2	3.4	3.7	4.7	4.9	5.4			46.4
17	6.6	6.1	5.2	4.2	3.4	3.4	3.3	3.3	4.2	4.5	5.0			49.5
18	6.8	6.7	6.2	5.1	4.1	4.0	3.4	3.2	3.7	4.1	4.5			52.4
19	6.5	6.9	6.8	5.9	5.0	4.8	3.9	3.3	3.5	3.5	3.8			54.6
20	5.9	6.6	6.8	6.4	6.0	5.6	4.6	3.5	3.4	3.1	3.3			55.7
21	5.1	5.9	6.4	6.5	6.0	6.2	5.3	4.3	3.8	3.1	3.1			56.5
22	4.0	4.9	5.7	6.1	6.0	6.6	6.0	5.0	4.4	3.6	3.2			56.2
23	3.2	3.7	4.4	5.3	6.0	6.5	6.3	5.5	5.1	4.3	3.5			54.1
Sum	111.2	110.9	108.1	105.9	109.8	113.0	109.1	105.1	108.1	103.6	103.0			204.44
Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.			
May 1 st	5:30 A.M.	+2.2	-1.1	May 5 th	3:00 A.M.	+2.0	-1.2	May 9 th	12:30 A.M.	+1.8	-0.7			
	12:00 P.M.				9:00 A.M.				7:30 A.M.					
May 2 nd	5:45 P.M.	+2.8	-1.1	May 6 th	3:15 P.M.	+2.8	-0.7	May 10 th	12:30 P.M.	+1.8	-0.6			
	12:30 A.M.				9:15 P.M.				7:30 P.M.					
	6:15 A.M.	+2.1	-1.2		3:45 A.M.	+2.1	-0.8		12:45 P.M.	+1.6	-1.0			
	12:30 P.M.				9:45 A.M.				8:15 A.M.					
May 3 rd	6:45 P.M.	+2.9	-1.1	May 7 th	4:00 P.M.	+2.6	-0.8	May 11 th	1:00 P.M.	+1.4	-0.9			
	1:45 A.M.	+1.9	-1.2		10:15 P.M.				5:15 P.M.					
	7:15 A.M.				5:00 A.M.	+1.7	-0.7		2:15 A.M.	+1.3	-1.0			
	1:45 P.M.	+2.8	-1.1	May 8 th	10:45 A.M.	+2.4	-0.7		8:45 A.M.	+1.5	-0.9			
May 4 th	7:30 P.M.				5:00 P.M.				3:20 P.M.					
	1:45 A.M.	+2.0	-1.2		11:30 A.M.	+1.5	-0.8		9:15 P.M.					
	8:15 A.M.				6:00 A.M.									
	2:15 P.M.	+2.5			12:00 P.M.									
	8:30 P.M.				6:15 P.M.									
		(8) 19.2	(7) 8.0			(7) 15.1	(8) 6.7			(8) 9.4	(8) 5.1			



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Hourly Heights — New River Inlet
May — 1954

Month and Day	Mo. Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Day	Horizontal
Day of Series	190	191	192	193	194	195	196	197	198	199	200	200	Sein
Hour													
0	4.1	3.5	4.9	3.9	3.6	3.4	3.3	3.7	4.4	4.5	5.4	4.7	4.7
1	4.6	4.0	5.2	4.2	3.8	3.3	3.0	3.0	3.6	3.4	4.7	4.8	4.8
2	4.9	4.6	5.5	4.6	4.1	3.6	2.9	3.9	3.2	3.1	4.0	4.3	4.3
3	5.1	5.3	5.8	5.1	4.7	4.1	3.2	3.0	3.1	2.8	3.5	4.5	4.5
4	5.1	5.3	6.1	5.5	5.2	4.6	3.6	3.3	3.5	3.1	3.4	4.9	4.9
5	4.9	5.9	6.2	5.8	5.7	5.2	4.2	3.8	3.9	3.5	3.5	5.2	5.2
6	4.4	5.7	6.1	5.9	5.5	5.3	4.7	4.3	4.4	3.9	3.6	5.4	5.4
7	3.7	4.9	5.7	5.5	5.5	5.2	4.9	4.5	5.0	4.5	4.2	5.3	5.3
8	3.2	3.6	5.0	4.9	5.0	4.9	5.0	5.1	5.4	5.0	4.8	5.1	5.1
9	2.9	3.2	4.4	4.3	4.3	4.3	4.7	4.9	5.5	5.2	5.3	4.9	4.9
10	2.9	3.1	3.8	3.7	3.8	3.7	4.2	4.5	5.0	5.2	5.5	4.5	4.5
11	3.1	3.2	3.7	3.6	3.4	3.2	3.5	3.9	4.6	4.7	5.4	4.3	4.3
12	3.9	3.7	3.9	3.7	3.4	3.2	3.1	3.3	3.9	4.5	5.0	4.1	4.1
13	4.8	4.4	4.3	4.0	3.6	3.0	2.8	2.9	3.5	3.8	4.3	4.1	4.1
14	5.2	5.0	5.0	4.6	4.1	3.1	2.8	2.8	3.3	3.3	3.7	4.2	4.2
15	5.5	5.6	5.6	5.3	4.9	3.6	3.1	3.0	3.3	3.1	3.3	4.6	4.6
16	5.5	6.1	6.2	5.9	5.6	4.4	3.9	3.7	4.2	3.7	3.2	5.7	5.7
17	5.4	6.4	6.4	6.3	6.1	5.1	4.6	4.5	4.2	3.5	3.3	5.5	5.5
18	4.8	6.5	6.3	6.4	6.2	5.6	5.3	5.2	4.8	4.3	3.6	5.9	5.9
19	4.0	6.1	5.9	6.2	6.8	6.0	5.8	5.8	5.2	4.9	4.3	6.0	6.0
20	3.4	5.4	5.3	5.7	5.8	5.9	5.9	6.1	5.5	5.6	4.9	5.9	5.9
21	3.0	4.8	4.6	4.9	5.1	5.5	5.7	6.0	5.9	6.1	5.5	5.2	5.2
22	3.0	4.4	4.0	4.2	4.1	4.9	5.2	5.7	6.1	6.3	5.9	5.4	5.4
23	3.1	4.6	3.8	3.7	3.1	4.0	4.4	5.1	5.4	6.0	5.9	4.9	4.9
						Full Moon							264 H.H
Sum	100.5	115.8	123.7	117.9	114.4	105.1	99.8	101.3	106.6	103.4	106.2		1194.7
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.		
May 12th	3:30 A.M.	+ 1.1	- 1.1	May 16th	12:00 H.	- 0.4	- 0.4	May 20th	2:45 A.M.	+ 1.5	- 0.9		
	9:30 A.M.				5:45 A.M.	+ 1.5			8:30 A.M.	+ 1.5			
	3:45 P.M.	+ 1.5			12:00 Noon	- 0.6			3:00 P.M.	+ 2.1	- 0.7		
May 13th	9:45 P.M.		- 1.0	May 17th	6:15 P.M.	+ 2.4		May 21st	9:30 P.M.	+ 2.1			
	4:45 A.M.	+ 1.9			12:45 A.M.	- 0.7			3:15 A.M.		- 1.2		
	10:00 A.M.		- 0.9		6:15 A.M.	+ 1.3			9:30 A.M.	+ 1.2			
	5:30 P.M.	+ 2.5			1:00 P.M.	- 1.0			3:30 P.M.		- 0.9		
May 14th	10:30 P.M.		+ 0.6	May 18th	7:30 P.M.	+ 2.0		May 22nd	9:45 P.M.	+ 2.3			
	5:15 A.M.	+ 2.2			1:45 A.M.	- 1.1			4:15 A.M.	+ 1.5	- 0.6		
	10:45 A.M.		- 0.3		7:30 A.M.	+ 1.0			10:15 A.M.				
	5:30 P.M.	+ 2.4			1:30 P.M.	- 1.2			4:15 P.M.	+ 1.9	- 0.8		
May 15th	11:30 P.M.		- 0.2	May 19th	8:00 P.M.	+ 1.9			10:45 P.M.				
	5:45 A.M.	+ 1.9			2:00 A.M.	- 1.1							
	11:45 A.M.		- 0.4		8:15 A.M.	+ 1.1							
	6:00 P.M.	+ 2.4			1:45 P.M.	- 1.2							
					8:15 P.M.	+ 2.1							
		(3) + 15.9	(7) - 3.3			(3) 13.6	(8) 7.3			(6) 10.5	(6) 5.1		





Sheet #22

Hourly Heights - New River Inlet
June - 1954

Month and Day	Mo Day June 210	Day 2 211	Day 3 212	Day 4 213	Day 5 214	Day 6 215	Day 7 216	Day 8 217	Day 9 218	Day 10 219	Day 11 220	Horizontal Sum
Hour 0	3.2	3.8	4.1	5.2	5.4	5.8	5.6	5.4	5.2	5.0	4.6	53.3
1	3.0	3.1	3.4	4.1	4.7	5.2	5.3	5.5	5.5	5.3	5.1	50.2
2	3.0	3.0	3.1	3.5	3.9	4.5	4.8	5.4	5.5	5.5	5.3	47.5
3	3.2	3.0	2.9	3.1	3.4	3.7	4.1	4.8	5.2	5.4	5.5	44.3
4	3.8	3.3	2.9	3.0	3.1	3.3	3.5	4.2	4.7	5.1	5.3	42.2
5	4.8	4.1	3.2	3.1	3.1	3.1	3.2	3.6	4.3	4.5	4.9	41.9
6	5.6	5.0	4.0	3.5	3.2	3.1	3.1	3.3	3.8	4.1	4.5	43.2
7	5.7	5.4	4.8	4.2	3.7	3.3	3.2	3.2	3.5	4.0	3.9	44.9
8	5.4	5.4	5.3	5.0	4.4	3.9	3.4	3.1	3.4	3.8	3.6	46.7
9	4.7	5.2	5.5	5.6	5.0	4.6	4.0	3.4	3.5	3.8	3.6	48.9
10	4.0	4.7	5.3	5.6	5.5	5.1	4.6	3.9	3.8	3.8	3.6	49.9
11	3.0	3.9	4.6	5.2	5.5	5.4	5.1	4.6	4.4	4.1	3.9	49.7
12	3.0	3.3	4.0	4.7	5.3	5.5	5.2	5.2	5.0	4.7	4.5	50.6
13	2.9	2.9	3.4	4.1	4.8	5.2	5.6	5.6	5.6	5.3	4.9	50.3
14	2.8	2.8	3.0	3.5	4.1	4.6	5.4	5.5	5.7	5.9	5.5	48.8
15	3.1	2.8	2.9	3.1	3.5	4.0	4.9	5.2	5.6	6.1	5.8	47.0
16	4.1	3.2	2.9	3.0	3.2	3.5	4.3	4.8	5.3	5.7	5.9	45.9
17	5.3	4.2	3.4	3.1	3.1	3.3	3.8	4.3	4.9	5.4	5.8	46.6
18	6.1	5.1	4.5	3.8	3.3	3.2	3.6	3.9	4.4	4.8	5.4	48.1
19	6.6	5.9	5.3	4.6	4.0	3.4	3.5	3.7	4.0	4.5	4.9	50.4
20	6.4	6.3	6.0	5.4	4.6	4.0	3.6	3.7	3.8	4.0	4.4	52.2
21	6.2	6.4	6.4	6.0	5.8	4.5	4.2	3.8	3.8	3.9	4.0	54.5
22	5.4	5.9	6.2	6.1	5.5	5.2	4.6	4.3	4.0	3.9	3.8	55.1
23	4.6	5.1	5.8	6.0	5.5	5.5	5.2	4.8	4.5	4.2	3.8	55.4
Sum	105.9	103.8	102.9	104.5	103.7	102.9	104.0	105.2	109.4	112.8	112.5	1167.6
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	
June 1 st	1:45 A.M.		-1.0	June 5 th	4:45 A.M.		-0.9	June 9 th	1:30 A.M.	+1.5		
	6:45 A.M.	+1.7			10:30 A.M.	+1.5			8:15 A.M.		-0.6	
	1:45 P.M.		-1.2		5:00 P.M.		-0.9		2:15 P.M.	+1.7		
June 2 nd	7:30 P.M.	+2.6		June 6 th	11:15 P.M.	+1.9		June 10 th	8:30 P.M.		-0.2	
	2:30 A.M.		-1.0		5:45 A.M.		-0.9		2:00 A.M.	+1.5		
	7:30 A.M.	+1.4			11:30 A.M.	+1.5			9:00 A.M.		-0.2	
	2:45 P.M.		-1.2		6:00 P.M.		-0.8		2:45 P.M.	+2.1		
June 3 rd	8:30 P.M.	+2.4		June 7 th	11:30 P.M.	+1.6		June 11 th	9:15 P.M.		-0.1	
	3:30 A.M.		-1.1		6:45 A.M.		-0.9		3:00 A.M.	+1.5		
	9:00 A.M.	+1.5			12:45 P.M.	+1.6			9:15 A.M.		-0.4	
	3:30 P.M.		-1.1	June 8 th	7:00 P.M.		-0.5		4:00 P.M.	+1.9		
June 4 th	9:15 P.M.	+2.4			1:00 A.M.	+1.5			10:45 P.M.		-0.2	
	4:15 A.M.		-1.0		7:45 A.M.		-0.9					
	7:30 A.M.	+1.6			1:15 P.M.	+1.6						
	4:15 P.M.		-1.0		8:00 P.M.		-0.3					
	9:45 P.M.	+2.1										
		⊕+15.7	⊖-8.6			⊕+11.2	⊖-6.1			⊕+10.2	⊖-1.7	



Sheet #23

Hourly Heights - New River Inlet
June - 1954

Month and Day	Mo Day June 1 st	Day 10	Day 14	Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Horizontal Sum
Day of Series	221	222	223	224	225	226	227	228	229	230	231	
Hour												
0	4.0	3.5	3.2	3.3	3.4	3.6	4.5	5.2	5.6	5.6	5.9	47.8
1	4.3	3.8	3.3	3.3	3.3	3.4	4.0	4.5	4.8	4.9	5.4	45.0
2	4.8	4.3	3.6	3.3	3.3	3.4	3.6	4.1	4.1	4.2	4.7	43.4
3	5.1	4.6	4.1	3.9	3.6	3.5	3.6	3.9	3.8	3.7	4.0	43.8
4	5.2	4.8	4.5	4.4	4.3	4.1	3.7	3.8	3.7	3.5	3.6	45.6
5	5.1	5.0	4.8	4.9	4.8	4.7	4.4	4.1	3.8	3.5	3.4	48.5
6	4.8	4.9	4.8	5.1	5.2	5.2	4.9	4.7	4.2	3.6	3.4	50.8
7	4.3	4.4	4.5	5.0	5.2	5.4	5.4	5.3	4.8	4.1	3.6	52.0
8	3.8	3.9	4.2	4.5	5.0	5.4	5.7	5.8	5.3	4.8	4.3	52.7
9	3.5	3.4	3.6	4.0	4.5	5.1	5.8	6.0	5.7	5.3	5.0	51.9
10	3.4	3.3	3.2	3.4	4.0	4.7	5.5	5.9	5.8	5.6	5.5	50.3
11	3.4	3.2	3.0	3.1	3.5	4.1	4.9	5.3	5.7	5.6	5.7	47.5
12	3.6	3.2	3.0	3.1	3.2	3.5	4.2	4.8	5.1	5.3	5.6	44.6
13	4.3	3.6	3.2	3.1	3.2	3.3	3.7	4.3	4.4	4.9	5.3	43.3
14	5.0	4.3	4.0	3.5	3.3	3.2	3.5	4.0	3.9	4.3	4.8	43.8
15	5.4	5.0	4.7	4.2	3.9	3.3	3.4	3.9	3.7	3.9	4.2	44.6
16	5.7	5.5	5.3	5.0	4.6	3.9	3.7	3.9	3.6	3.6	3.7	48.5
17	5.8	5.9	5.7	5.7	5.4	4.7	4.5	4.2	3.7	3.6	3.6	52.8
18	5.6	5.8	5.8	6.0	5.9	5.5	5.2	4.9	4.1	3.7	3.5	56.0
19	5.2	5.4	5.6	6.1	6.1	6.1	6.1	5.5	4.9	4.4	3.6	59.0
20	4.5	4.8	5.1	5.6	6.1	6.3	6.5	6.1	5.4	5.0	4.1	59.5
21	3.9	4.1	4.5	5.1	5.6	6.3	6.8	6.6	6.0	5.5	4.9	59.3
22	3.6	3.5	3.8	4.4	4.9	5.9	6.5	6.7	6.2	6.0	5.4	56.9
23	3.5	3.3	3.4	3.8	4.2	5.3	5.9	6.2	6.1	6.1	5.7	53.5
Sum	107.8	103.5	100.9	103.8	106.5	109.9	116.0	119.7	114.4	110.7	108.9	1202.1
Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	Date	Time	H. W.	L. W.	
June 12 th	4:00 A.M.	+ 1.2	- 0.6	June 16 th	1:30 A.M.	+ 1.2	- 0.7	June 20 th	4:00 A.M.	+ 1.8	- 0.3	
	10:30 A.M.				7:00 A.M.				10:00 A.M.			
	5:00 P.M.	+ 1.8			1:00 P.M.		- 0.8		4:00 P.M.		- 0.4	
	11:30 P.M.		- 0.5		7:15 P.M.	+ 2.1			10:00 P.M.	+ 2.2		
June 13 th	5:15 A.M.	+ 1.0		June 17 th	1:45 A.M.	- 0.6		June 21 st	4:45 A.M.		- 0.5	
	11:15 A.M.		- 0.8		7:45 A.M.	+ 1.4			10:30 A.M.	+ 1.6		
	5:15 P.M.	+ 1.9			2:00 P.M.		- 0.8		4:00 P.M.		- 0.4	
June 14 th	12:00 M.D.		- 0.8		8:30 A.M.	+ 2.3			11:00 P.M.	+ 2.1		
	5:30 A.M.	+ 0.8		June 18 th	3:00 A.M.	- 0.4		June 22 nd	5:45 A.M.		- 0.6	
	11:45 A.M.		- 1.0		8:45 A.M.	+ 1.8			11:45 A.M.	+ 1.7		
	6:10 P.M.	+ 1.8			2:45 P.M.		- 0.6		6:15 P.M.		- 0.5	
June 15 th	12:45 A.M.		- 0.7		9:00 P.M.	+ 2.8			11:15 P.M.	+ 1.7		
	6:00 A.M.	+ 1.1		June 19 th	3:45 A.M.	- 0.2						
	12:15 P.M.		- 0.9		9:00 A.M.	+ 2.0						
	6:45 P.M.	+ 2.1			3:30 P.M.		- 0.1					
					9:30 P.M.	+ 2.7						
		(3) + 11.7	(7) - 5.3			(2) + 16.3	(5) - 4.2			(6) + 11.1	(6) - 2.7	

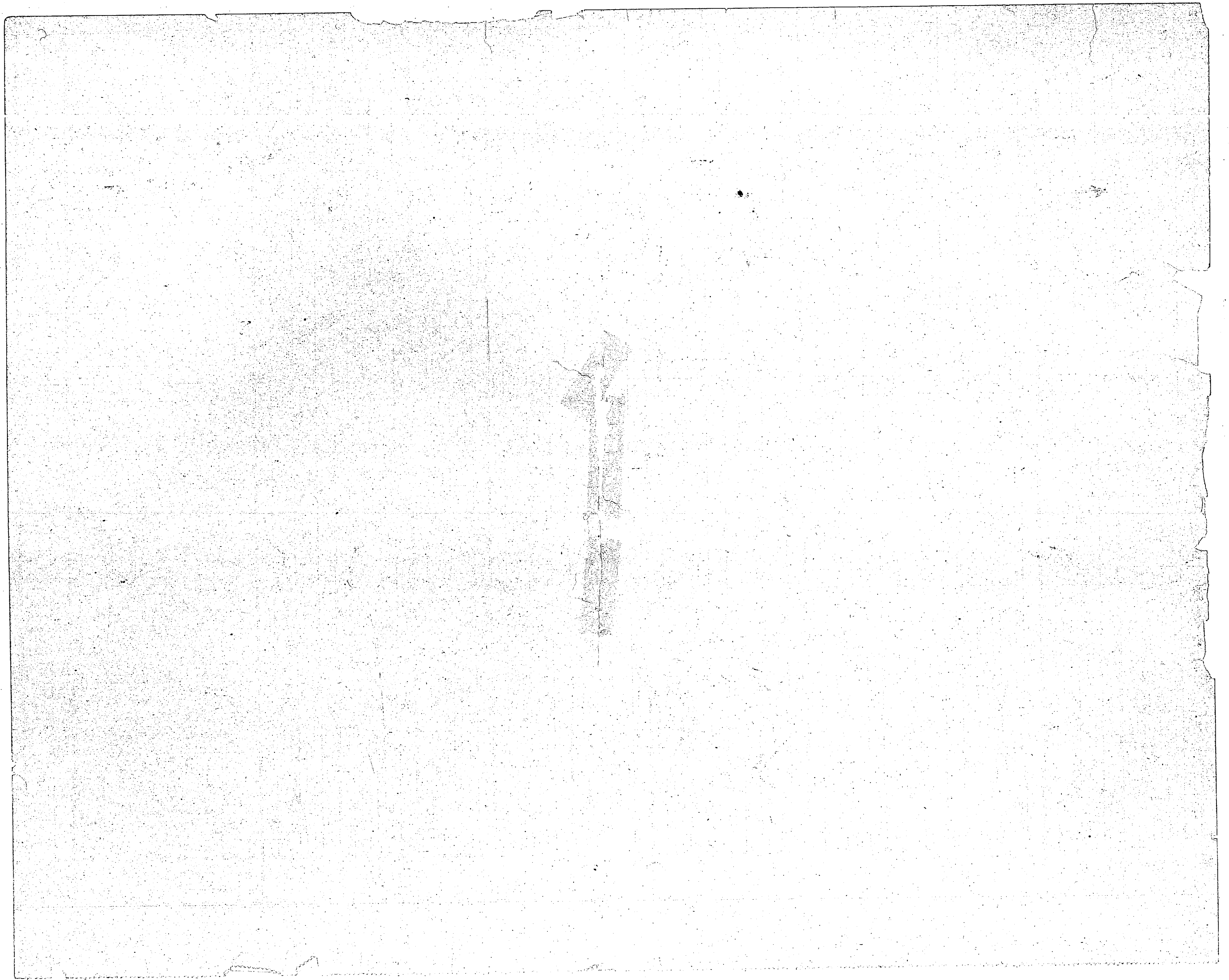




Sheet #25

Hourly Heights — New River Inlet
July — 1954

Month and Day	mo. day	day	day	day	day	day	day	day	day	day	day	day	Horizontal Sum
Day in Series	July 240	241	242	243	244	245	246	247	248	249	250		
Hour													
0	3.8	4.2	4.5	5.1	5.2	5.6	5.8	5.4	4.9	4.6	4.6	53.7	
1	3.4	3.6	3.8	4.3	4.5	5.2	5.6	5.6	5.2	4.9	4.9	51.1	
2	3.3	3.3	3.4	3.6	4.0	4.7	5.3	5.4	5.4	5.1	5.3	48.8	
3	3.3	3.0	3.3	3.3	3.7	4.1	4.8	5.0	4.9	5.2	5.4	46.3	
4	3.6	3.3	3.3	3.2	3.4	3.7	4.3	4.4	4.5	4.9	5.3	43.9	
5	4.4	3.7	3.3	3.2	3.3	3.6	3.9	4.0	4.3	4.6	5.2	43.5	
6	5.2	4.5	3.9	3.5	3.2	3.4	3.8	3.7	4.0	4.2	4.8	44.2	
7	5.6	5.1	4.5	4.1	3.6	3.6	3.8	3.6	3.7	3.9	4.5	46.0	
8	5.6	5.5	5.2	4.6	4.3	4.0	4.0	3.6	3.5	3.7	4.1	48.1	
9	5.3	5.5	5.5	5.1	5.0	4.6	4.5	3.7	3.5	3.5	3.8	50.0	
10	4.7	5.2	5.4	5.4	5.5	5.4	5.2	4.2	3.9	3.7	3.8	52.4	
11	3.9	4.6	5.0	5.3	5.7	5.6	5.5	4.7	4.5	4.0	4.0	52.8	
12	3.4	3.8	4.4	4.9	5.4	5.7	5.8	5.2	5.1	4.8	4.6	53.1	
13	3.2	3.3	3.7	4.3	5.0	5.6	5.9	5.5	5.6	5.3	5.2	52.6	
14	3.2	3.1	3.3	3.7	4.6	5.2	5.7	5.7	5.9	5.7	5.7	51.8	
15	3.2	3.1	3.2	3.3	4.2	4.7	5.4	5.5	5.7	5.9	6.0	50.2	
16	3.7	3.1	3.1	3.2	3.9	4.3	4.9	5.0	5.4	5.8	6.2	48.6	
17	4.5	3.8	3.4	3.2	3.7	4.1	4.5	4.5	5.1	5.5	6.0	48.3	
18	5.4	4.7	4.1	3.4	3.7	4.0	4.3	4.3	4.8	5.2	5.8	49.7	
19	6.1	5.3	4.8	4.2	4.1	4.1	4.2	4.1	4.3	4.9	5.4	51.5	
20	6.4	5.7	5.4	4.9	4.8	4.5	4.2	3.9	3.9	4.4	4.8	52.9	
21	6.3	5.8	5.8	5.6	4.4	4.9	4.5	3.9	3.7	4.2	4.4	54.5	
22	5.7	5.5	5.9	5.9	4.7	5.3	4.8	4.1	3.9	4.2	4.2	55.2	
23	4.9	5.0	5.6	5.6	4.0	5.6	5.2	4.5	4.2	4.2	4.2	55.0	
Sum	108.1	104.0	103.8	102.9	107.9	111.5	115.9	109.5	109.9	112.4	118.3	24 Hourly Heights	1204.2
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.		
July 1 st	2:30 A.M.		-0.7	July 5 th	5:15 A.M.		-0.8	July 9 th	2:15 A.M.	+1.4			
	7:45 A.M.	+1.6			10:45 A.M.	+1.7			8:45 A.M.		-0.5		
	2:30 P.M.		-0.8		5:30 P.M.		-0.3		2:15 P.M.	+1.9			
July 2 nd	8:15 P.M.	+2.4			11:00 P.M.	+2.0			9:15 P.M.		-0.3		
	3:45 A.M.		-0.7	July 6 th	6:15 A.M.		-0.6	July 10 th	2:30 A.M.	+1.2			
	8:45 A.M.	+1.5			11:45 A.M.	+1.7			9:00 A.M.		-0.5		
	3:15 P.M.		-0.9		6:00 P.M.		-0.0		3:00 P.M.	+1.9			
July 3 rd	8:45 P.M.	+1.8		July 7 th	10:00	+1.8		July 11 th	10:00 P.M.		+0.2		
	3:45 A.M.		-0.7		6:30 A.M.		+0.2		3:00 A.M.	+1.4			
	9:00 A.M.	+1.5			12:45 P.M.	+1.9			9:45 A.M.		-0.2		
	3:45 P.M.		-0.9	July 8 th	7:00 P.M.		+0.2		4:15 P.M.	+2.2			
July 4 th	9:45 P.M.	+1.9			11:15 A.M.	+1.6			10:45 P.M.		+0.2		
	4:15 A.M.		-0.8		7:30 A.M.		-0.4						
	10:15 A.M.	+1.4			11:30 P.M.	+1.7							
	4:15 P.M.		-0.8		5:30 P.M.		-0.1						
	10:15 P.M.	+1.9			?								
		(5) 14.0	(5) 6.3			(7) 12.4	(8) 2.2			(6) 10.0	(6) 1.1		





Hourly Heights — New River Inlet July — 1954

Month and Day	mo. day	day	day	day	day	day	day	day	day	day	Horizontal Sum
Day of Series	July 23	24	25	26	27	28	29	30	31		
Hour	262	263	264	265	266	267	268	269	270		
0	5.5	5.2	4.6	4.0	3.5						22.8
1	5.4	5.5	5.1	4.7	3.9						24.6
2	5.0	5.4	5.4	5.2	4.5						25.5
3	4.4	5.1	5.5	5.6	5.1						25.7
4	3.9	4.5	5.2	5.6	5.4						24.6
5	3.5	4.0	4.7	5.3	5.4						22.9
6	3.3	3.6	4.1	4.8	5.1						20.9
7	3.1	3.4	3.6	4.2	4.6						18.9
8	3.2	3.3	3.4	3.7	4.0						17.6
9	3.7	3.3	3.3	3.5							13.8
10	4.6	3.9	3.4	3.4							15.3
11	5.3	4.6	3.9	3.4							17.2
12	5.9	5.3	4.7	3.9							19.8
13	6.1	6.0	5.5	4.6							22.2
14	5.9	6.2	6.1	5.5							23.7
15	5.6	6.1	6.3	6.1							24.1
16	5.0	5.7	6.3	6.3							23.3
17	4.4	5.1	5.9	6.2							21.6
18	3.9	4.5	5.4	5.9							19.7
19	3.7	4.0	4.6	5.2							17.5
20	3.6	3.7	4.1	4.5							15.9
21	3.6	3.6	3.7	4.0							14.9
22	4.1	3.6	3.6	3.5							14.8
23	4.7	3.9	3.7	3.4							15.7
											15.5
											483.0
Sum	107.4	109.5	112.1	112.5	41.5						
Date	Time	H.W.	L.W.	Date	Time	H.W.	L.W.				
July 23 rd	12:30 A.M.	+ 1.5	- 0.9	July 27 th	4:15 A.M.	+ 1.4					
July 27 th	7:15 A.M.	+ 2.1	- 0.4								
	8:00 P.M.		- 0.4								
July 25 th	1:00 A.M.	+ 1.5	- 0.7								
	8:15 A.M.		- 0.4								
	2:15 P.M.	+ 2.2	- 0.4								
July 26 th	9:15 P.M.		- 0.4								
	2:30 A.M.	+ 1.5	- 0.7								
	9:30 A.M.		- 0.4								
	3:15 P.M.	+ 2.3	- 0.4								
	10:15 P.M.		- 0.4								
	3:30 A.M.	+ 1.6	- 0.6								
	11:30 A.M.		- 0.6								
	4:15 P.M.	+ 2.3	- 0.6								
	11:15 P.M.		- 0.6								
		Ⓢ 15.0	Ⓢ 4.7								

Month of July
 * 633 Hourly Heights = 2844.6 or a mean of 4.49
 Converted to Camp Datum = + 0.49

51 High Waters = 292.5 or a mean of 5.74
 Converted to Camp Datum = + 1.74

51 Low Waters = 173.6 or a mean of 3.40
 Converted to Camp Datum = - 0.60

Extreme Range of Tide from - 1.2 to + 2.4 = 3.6 ft.
 Mean Range of Tide from - 0.60 to + 1.74 = 2.34 ft.

* Pier in New York
 of City of New York
 removed

From Nov. 4th 1953 to July 27th 1954
 266 Days of Observation = 6,356 Hourly Heights Total 27,209.5 or a mean
 of 4.28 Mean Water level. Converted to Camp Sea Level Datum = + 0.28

511 High Waters = 2886.3 = Mean of 5.65 Mean High Water or + 1.65 Camp Sea Level Datum

510 Low Waters = 1544.3 = Mean of 3.03 Mean low Water or - 0.97 Camp Sea Level Datum

Extreme Range of Tide from - 1.9 to + 3.1 = 5.0 ft.
 Mean Range of Tide from - 0.97 to + 1.65 = 2.62 ft.

1.65 - 0.28 = 1.37 Mean High Water above mean Hourly Height Reading
 0.97 + 0.28 = 1.25 Mean Low Water below " " " "

Ⓢ 1.4



REPRODUCED FROM THE NATIONAL ARCHIVES