

Aucilla
St. Marks
Rocky Creek

} SET RECORDS



Ben Meadows

1-800-241-6401

LEVEL BOOK

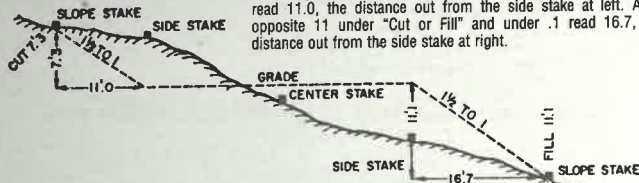
#101596

ST. MARKS NWR

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Out or Fill

Out or Fill

0
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UNITED STATES DEPARTMENT OF THE INTERIOR FISH AND WILDLIFE SERVICE		Station No. or Project No. 58788
St. Marks National Wildlife Refuge		Date December 15, 1995
SPECIAL USE PERMIT		Period of Use (inclusive) From January 1, 1996 To December 31, 2000
Permittee Name Jim Ladner (904) 488-9380	Permittee Address Florida Geological Survey Division of Resource Management Center Building 903 W. Tennessee Street Tallahassee, FL 32304-7700	
Purpose (specify in detail privilege requested, or units of products involved) To maintain a small monitoring station for measuring marsh sediment accretion.		
Description (specify unit numbers, metes and bounds, or other recognizable designations) Marsh on West Cutoff, near the mouth of the Aucilla River (St. Marks Unit).		
Amount of fee \$ N/A if not a fixed payment, specify rate and unit of charge:		
☐ Payment Exempt - Justification: ☐ Full Payment ☐ Partial Payment - Balance of payments to be made as follows:		
Record of Payments N/A		
Special Conditions Permittee will not use any mechanized equipment (e.g., ATV, digging equipment), since this marsh site is located within designated wilderness. See attached sheet for additional Special Conditions (pay particular attention to #11).		
Permittee Signature <i>Jim Ladner</i>		Issuing Officer Signature and Title <i>W. K. ...</i> Deputy Project Leader

51.0	51.2	51.3	51.5	51.6	51.8	52.1	52.2	52.4	34
52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	35
54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	36
55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	37
57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	38
58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	39
60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	40

520

Aucilla River S.E.T.
Station Notebook

Don Cehoon

Cell Phone (318) 288-4500

DON-FAX: (318) 266-8592

* PAY CLOSE ATTENTION TO
THE QUADRANT YOU'RE MEASURING
RECORD IT CORRECTLY. DON'T
ASSUME.

U.S. Dept. Interior
Permit # 58788

The paper in this book is
made of 50% high grade rag stock with
a WATER RESISTING surface sizing.

9-23-94

CM

Station 2

	NE (A)	NE (B)	SW (C)	SE (D)
1	21.2	20.5	18.6	20.7
2	22.2	22.3	21.5	21.2
3	22.3	21.6	20.2	20.7
4	21.6	21.8	21.8	18.4
5	22.8	20.5	21.5	21.1
6	X	20.7	X	21.3
7	X	20.9	X	19.9
8	X	20.3	X	10.2
9	X	22.0	X	20.2
Average	$110.1 \div 5 = 22.0$	$191.1 \div 9 = 21.2$	$103.6 \div 5 = 20.7$	$173.7 \div 9 = 19.3$

1-20-95

11:40 AM

Partly Cloudy - (100)

Plank



STATION 1

	NE A	NE B	SW C	SE D
1				
2				
3				
4				
5				
6				
7				
8				
9				

9-23-94

Avula

units = CM

9
 { top of brass plate to
 top of aluminum plate }

Sta 3

	NE (B)	NW (A)	SW (C)	SE (D)
1	7.1	7.2	10.7	8.0
2	7.8	9.7	9.6	10.1
3	10.4	10.9	10.5	8.9
4	9.4	7.9	10.6	10.7
5	10.3	10.0	11.1	10.4
6	8.9	10.9	6.5	10.6
7	9.3	9.2	11.4	10.0
8	9.4	8.4	12.5	10.0
9	8.3	9.3	10.2	10.0
Average	$\frac{738+8}{9} = 92.3$	$\frac{835}{9} = 93$	$\frac{931}{9} = 10.3$	$\frac{787}{8} = 98.4$

X

misses sed/H₂O Interface

Ron, Ted, Henry, Steve, Brad, and Jim

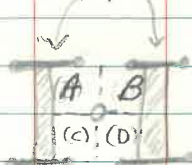
Date: 10/27/94

Time:

Conditions:

Station 1

Wood plank



NW(A) NE(B) SW(C) SE(D)

1	12.9	20.8	20.6	20.1
2	19.3	19.4	18.8	21.8
3	10.2	21.6	20.5	20.7
4	18.1	20.5	19.6	21.4
5	20.3	19.0	15.0	20.9
6	19.3	20.9	18.1	20.2
7	18.9	21.0	19.8	20.4
8	21.4	20.9	19.8	20.1
9	18.9	X	19.0	18.2

Aug. $159.3 \div 9 = 17.7$ $164.1 \div 8 = 20.5$ $171.2 \div 5 = 34.2$ $183.8 \div 9 = 20.4$

Station 2

SW(C) NE(B) NW(A) SE(D)

1	19.2	22.0	20.7	21.1
2	21.3	22.4	22.3	21.2
3	20.0	23.0	21.2	23.0
4	22.3	21.6	21.2	18.9
5	21.3	20.3	21.1	22.0
6	X	21.2	X	21.6
7	X	21.7	X	19.9
8	X	21.2	X	10.3
9	X	21.9	X	21.2

Aug

$104.1 \div 5 = 20.8$

$195.3 \div 9 = 21.7$

$106.5 \div 5 = 21.3$

$179.2 \div 9 = 19.9$

19.9

Station 3

NE?

NW

NW(A)

NE(B)

SW(C)

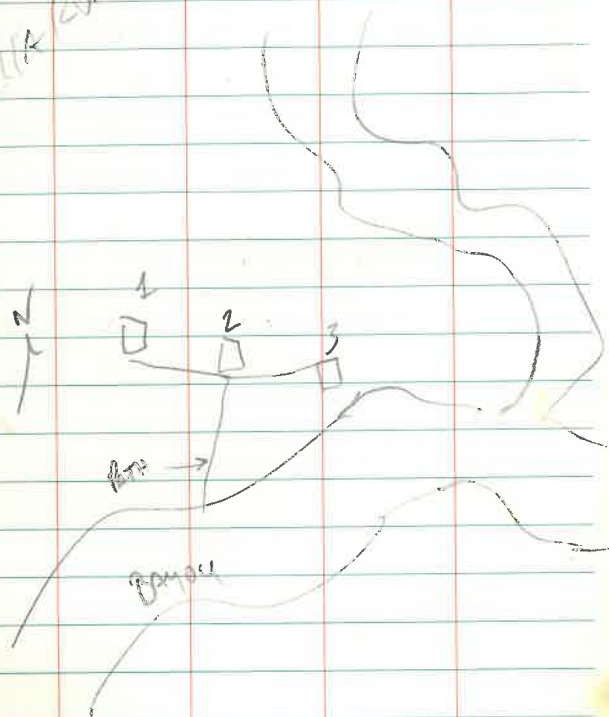
SE(D)

SE(E)

1	X	6.8	10.0	9.2	6.6
2	9.1	9.35	9.7	11.1	10.1
3	10.6	10.4	11.3	11.5	8.9
4	7.1	9.7	7.5	9.7	7.9
5	9.5	10.2	8.8	11.8	9.4
6	9.4	10.3	9.0	10.3	9.2
7	9.3	9.3	/	/	/
8	9.3	8.6	9.2	9.9	8.6
9	9.5	9.6	9.4	10.2	9.2

Aug $\rightarrow \frac{738+8}{9} = 82.3$

Arcadia 20

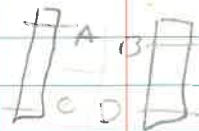


1-20-95

Arcadia

11:40 AM

Cool - Windy - Pky. C16



West

STA	MM	NE B	SW C	SE D
1	18.5	20.3	19.6	20.6
2	19.7	19.9	19.5	22.5
3	9.4	22.0	20.8	20.6
4	16.7	21.6	19.2	21.2
5	19.7	21.6	14.8	21.1
6	19.6	21.3	19.6	24.0
7	21.5	21.9	20.1	20.6
8	20.4		19.4	20.9
9	20.0	POINT	19.3	
	18.38	21.22	19.14	21.43
		CR70		
MM	3.5	7.0	8.0	4.5
	3.0	6.0	10.0	4.5
	3.5	6.0	7.0	5.0
	3.33	6.33	8.33	4.66
				= 5.66

Need
CALIPER

Middle

changed bands 6-9

STA	Z	NwA	NE B	SW C	SE D
	1	21.8	20.6	19.8	20.0 20.7
CM	2	22.6	23.3	22.0	22.5
	3	21.9	21.2	20.8	22.0
	4	22.8	21.1	22.8	21.5
	5	20.4	22.1	21.6	21.9
	6	21.5	21.8	22.4	22.5
	7	22.4	HOLE	22.3	20.4
	8	21.2	21.4	21.1	20.7
	9	18.7	21.7	22.0	20.6
		21.47	21.65	21.64	21.42 = 21.54

MM

Cryo

7.0	3.5	4.5	8.5
7.0	4.5	4.5	9.0
7.0	4.0	5.0	9.0
7.0	4.0	4.66	8.83 = 6.12

15

STAB	NwA	NE B	SW C	SE D
1	10.9	HOLE	11.1	6.5
CM 2	9.0	9.1	11.1	7.1
3	9.2	9.9	10.8	8.3
4	9.6	10.0	10.9	8.6
5	10.8	10.5	11.7	8.7
6	10.7	10.5	HOLE	8.9
7	9.4	9.5	11.1	— HOLE BOARD
8	5.9	9.5	12.5	9.5
9	10.82	8.9	14.0	8.8
	9.51	9.97	10.26	8.3 = 9.46

MM

Cryo

7.0	5.0	3.2	11.0
8.0	8.0	3.5	10.0
9.0	9.5	3.0	13.0
8.0	8.5	3.23	11.33 = 7.76

6-9-95 Cliff Jim

STATION 1 west End, 2 middle, 3 East End.

STAZ (middle)

AB
CD

cm	A NW	C SW	B NE	D SE
1	22.6	20.6	19.3	22.0
2	22.0	22.0	21.3	21.9
3	23.5	22.5	21.5	22.9
4	22.1	22.5	20.5	20.5
5	21.3	23.2	20.8	20.3
6	22.1	22.6	21.8	23.4
7	22.1	22.5	—	21.5
8	21.7	21.5	21.6	20.4
9	22.2	21.8	21.5	21.2
	22.17	22.13	21.03	21.50 = 21.72

STAZ (A)

CRYOGENICS

1

2

3

4

5

6

7

8

9

17

west

STA 1 A NW C SW B NE D SE

1	19.3	20.4	20.8	21.1
2	19.8	21.1	20.3	21.9
3	19.8	21.1	21.8	20.7
4	20.0	19.4	21.3	21.0
5	19.7	18.9	21.3	21.5
6	18.8	20.4	21.4	20.3
7	19.0	20.1	22.2	20.5
8	20.7	19.5	—	20.3
9	20.0	20.4	—	20.9
	19.67	20.14	21.3	20.91 = 20.50

STAZ

A

CRYOGENICS

D

1

2

3

(cm)

STATION	A NW	C SW	B NE	D SE
1	9.3	10.9	8.2	9.5
2	9.8	10.9	9.2	9.8
3	10.2	10.6	10.2	10.0
4	9.7	10.1	7.1	10.3
5	10.2	11.5	10.2	10.2
6	10.4	11.2	10.1	9.1
7	9.8	10.4	9.9	— board
8	10.0	10.6	10.1	10.1
9	11.5	10.1	10.2	9.5
	10.1	10.7	9.46	9.81 = 10.01

STA 3 A C B D

Arcilla



Align
Boards
are E/W.

6-9-95 ST. MARKS SET 19

units = CM

W/Fed's

Sta 1

10:58

	NEV (A)	NE (B)	SW (C)	SE (D)
1	34.5	35.0	35.0	34.7
2	35.1	34.9	34.6	34.8
3	35.7	33.7	35.1	34.9
4	34.8	35.4	34.4	35.8
5	34.9	35.7	34.9	
6	35.6	36.8	35.4	
7	35.1	35.2	35.1	
8	35.2	35.1	35.3	
9	35.6	35.1	34.7	

on
board

Ave.

6-9-95

11:32 STA 2
 D B A
 SE SW NE NW

1	35.6	36.2	35.4
2	35.5	36.5	35.1
3	34.5	36.9	34.1
4	36.2	36.2	35.0
5	36.2	36.8	35.4
6	35.9	37.1	35.4
7	35.7	36.5	32.7
8	36.1	36.8	34.9
9	36.1	36.2	35.0

Blocked

12:05 STA 3
 D C B A

	D	C	B	A
1	SE	SW	NE	NW
1		31.2	35.7	35.4
2		35.7	36.6	35.1
3		35.2	36.5	35.7
4		35.7	36.4	35.3
5		35.4	36.8	35.3
6		35.5	35.8	35.1
7		35.3	35.5	
8		34.8	34.4	
9		35.4	35.2	

Blocked

Blocked

Quilla
RH: reader

6-13-95

STA 2	NW A	NE B	SW C	SE D
1	23.5	18.9	20.0	21.1
2	22.2	20.9	23.2	19.8
3	22.4	21.5	20.3	23.0
4	20.9	20.8	22.8	21.1
5	22.0	22.2	21.9	19.5
6	22.8	21.4	23.0	22.0
7	22.1	* 8.0	22.0	21.3
8	21.9	22.1	22.4	22.2
9	21.0	21.7	21.5	17.0
	22.08	* by post 21.18	21.9	20.77 = 21.48

Cryo	A	B	C	D
1	9.5	8.1	12.9	13.8
2	12.2	9.4	13.6	11.4
3	8.2	10.2	15.2	—
	9.63	9.23	13.9	12.6 = 11.34

Quilla West
RH: reader
West

23

STA 2	NW A	NE B	SW C	SE D
1	18.9	19.9	18.9	13.6
2	19.6	19.1	19.3	21.3
3	18.5	21.1	21.3	22.2
4	20.0	19.9	19.6	21.6
5	17.7	21.2	15.6	21.2
6	16.6	20.5	19.6	20.4
7	20.0	21.0	20.2	20.5
8	19.9	21.8	20.4	21.5
9	18.3	21.8	20.4	19.1
	18.83	20.56	19.47	20.15 = 19.75

Cryo	A	B	C	D
1	11.2	11.8	12.3	13.9
2	9.5	11.7	10.9	14.8
3	10.9	10.0	9.8	12.6
	10.53	11.16	11.0	13.76 = 11.61

Quilla

Analla
RH reader

6-13-95

25

EAST

STA	S	A NW	B NE	C SW	D SE
1		10.4	3.4	11.2	8.1
2		9.8	9.0	10.4	9.8
3		11.0	9.1	10.8	9.8
4		9.0	8.4	8.5	10.4
5		10.8	9.5	10.5	10.0
6		10.2	9.7	10.8	9.2
7		12.7	9.0	8.2	8.1
8		9.3	9.5	10.9	8.1
9		7.4	8.6	10.6	9.4
		<u>10.06</u>	<u>8.46</u>	<u>10.21</u>	<u>9.35</u> = 9.52

CRGO

	A	B	C	D
1	9.4	No	13.3	9.05
2	5.9	Readings	10.2	10.6
3	-		12.9	10.9
	<u>7.65</u>		<u>12.13</u>	<u>10.18</u> = 9.98

Analla

Jim
Cliff

10/29/92

- ST MARKS -

All BOARDS ARE

E/W ALIGNMENT

STATION	NW	NE	SW	SE
1	33.9	34.8	35.0	34.6
2	35.1	34.4	34.0	35.0
3	35.1	35.1	35.8	34.9
4	34.9	35.0	35.4	35.2
5	35.0	32.9	35.0	
6	34.8	35.2	35.7	
7	34.3	35.2	35.6	
8	34.7	35.4	35.6	
9	—	35.2	34.9	

ST MARKS

Blocked

STATION	NW	NE	SW	SE
1		36.0	39.5	35.3
2		35.4	38.0	35.3
3		35.7	37.8	34.2
4		36.0	38.5	35.1
5		35.1	38.9	35.6
6		35.6	38.8	35.0
7		35.2	38.8	35.4
8		36.2	39.3	36.3
9		36.0	39.8	35.9

Blocked

ST MARKS

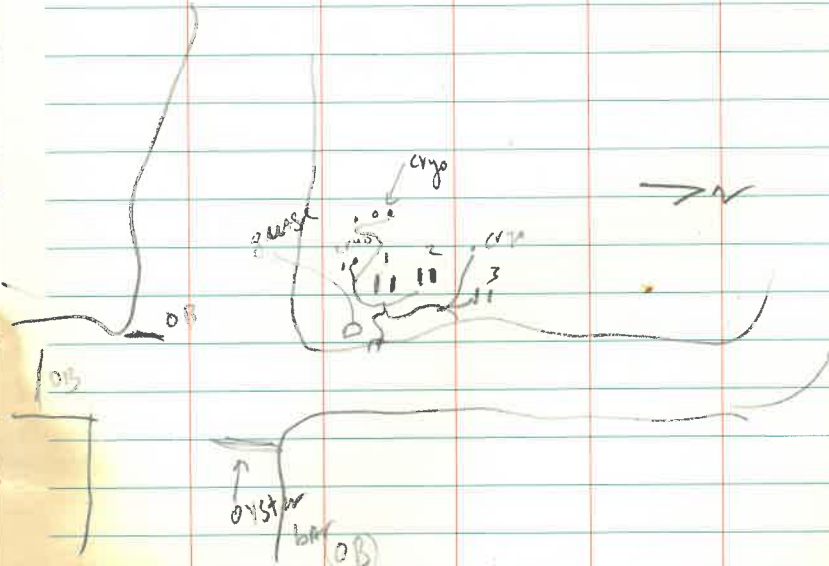
St Marks

27

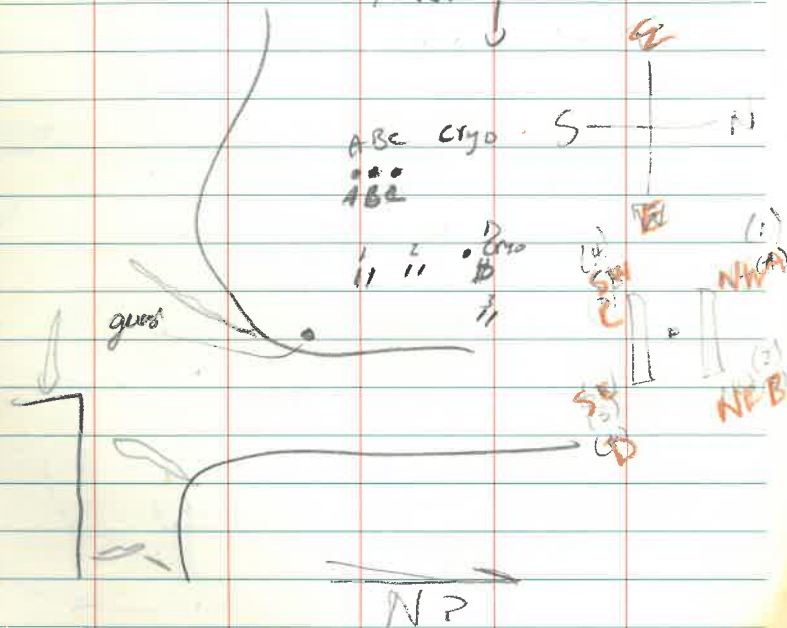
STATION	NW	NE	SW	SE
1	35.5	35.1	27.3 *	
2	35.5	35.7	36.0	
3	35.4	35.5	34.6	
4	35.8	36.4	36.1	
5	35.6	35.4	36.0	
6	35.5	35.7	34.5	
7	35.4	34.7	36.6	
8	Blocked	34.0	35.5	
9		34.9	35.5	

Blocked

* in burrow



for 10-25-55
MAP



13 rods
Cliff - reader
Jem

ST. MARKS 10-25-55

29

STA 1	NW	NE	SW	SE
1	34.9	35.4	35.0	32.8
2	36.1	34.8	34.8	35.4
3	35.4	34.0	35.1	35.1
4	35.8	35.3	35.7	34.0
5	34.7	35.3	35.4	
6	34.4	35.5	35.3	
7	34.4	34.8	35.8	
8	35.0	35.3	35.3	
9	Black	34.7	35.2	

(cm units)

Black

STA 2	NW	NE	SW	SE
1	X	35.7	36.5	35.3
2		34.4	36.2	31.8
3		34.3	35.7	32.7
4		35.0	35.7	34.6
5		35.2	36.1	35.4
6		35.2	36.3	34.9
7		32.5	36.0	31.9
8		34.4	36.2	35.6
9		35.6	36.3	35.8

Black

10-25-95 (cm)

ST. MARKS

Cliff - Broad - In

SET	Nw	Ne	Sw	Se
STA 3				
1	35.1	35.4	36.1	
2	34.8	35.3	36.8	
3	34.7	35.3	35.8	
4	35.6	35.7	36.0	
5	34.8	36.4	36.0	
6	34.8	35.2	35.8	
7	35.5	34.2	35.2	
8	black	34.2	34.9	
9	black	33.6	35.9	

CRYOGENICS

SET	Nw	Ne	Sw	Se
STA 1				
1	—	X	—	X
2	—	X	10.1	X
3	—	X	10.5	X
4	No Folger	X	—	X

SET	Nw	Ne	Sw	Se
STA 2				
1	2.1		—	
2	4.4		—	
3	6.8		X	
4				

SET	Nw	Ne	Sw	Se
STA 3				
1	8.4		2.2	
2	9.6		4.3	
3	10.3		5.5	
4	6.0			

A	N.S.L	B	Cryo	Southeast	D
1	N.S.L, 6.1	1 —	1 —	1 —	1 —
2	Sandhill	2 —	2 —	2 —	2 —
3	accum.	3 —	3 —	3 —	3 —
4	at sugar	4 —	4 —	4 —	4 —

W. side
old site
Folger
sow

36

10-26-75 33
Aucilla River Bred-Cliff - Jim

center

STA	2	A NW	B Ne	D Se	E SW
	1	20.7	20.6	19.9	19.1
	2	21.5	21.1	21.9	21.7
	3	21.9	21.4	21.4	17.8
	4	21.8	20.9	20.4	22.8
	5	20.5	21.5	21.3	21.7
Cur	6	20.6	22.0	20.6	21.8
	7	20.1	20.1 ^{10.1}	20.1	21.5
	8	22.0	21.6	19.7	21.3
	9	19.7	21.4	20.3	21.9

Cry

	1	-	9.4	11.9	9.5
mm	2	-	12.0	8.8	4.6
mm	3	-	12.1	-	9.0
	4		8.7	-	8.4

10.6
 10.4
 7.9

~ 9.62

(Cry)

West Aucilla River

10-26-95

STA	Nw A	Ne B	Sw C	Se D
1	14.9	20.3	18.8	14.0 ^{crab}
2	19.2	19.4	17.2	21.9
^{crab} 3	7.3	21.9	20.5	20.9
4	18.1	19.9	18.8	21.5
^{cm} 5	19.3	20.4	16.9 ^{cm}	21.0
6	18.9	20.1	15.5	21.1
7	18.8	21.1	19.6	20.3
8	18.2	19.3	20.0	20.9
9	20.8	21.1	19.5	19.7

crab

1	10.2	11.3	20.2	11.1
2	14.7	10.0	-	18.0
^{mm} 3	9.9	12.0	-	18.7
4	9.5			17.0

C.H. =
crab hole

10-26-95

Aucilla River

35

STA	Nw A	Ne B	Sw C	Se D
1	9.1	CH	11.1	8.0
2	8.9	8.5	10.2	8.1
3	8.8	8.6	10.2	8.6
4	8.9	9.1	8.5	9.4
^{cm} 5	9.1	9.5	8.7	10.5
6	9.4	8.7	7.9	6.8
7	8.8	7.9	8.2	8.5 block
8	C.H. 4.7	8.8	9.2	9.5
9	8.5	9.2	10.3	9.1

crab

1	-	-	-	7.0
2	-	No	10.5	8.1
3		ran out	9.5	7.1
4		of No	8.5	8.0

JAN 17, 1996

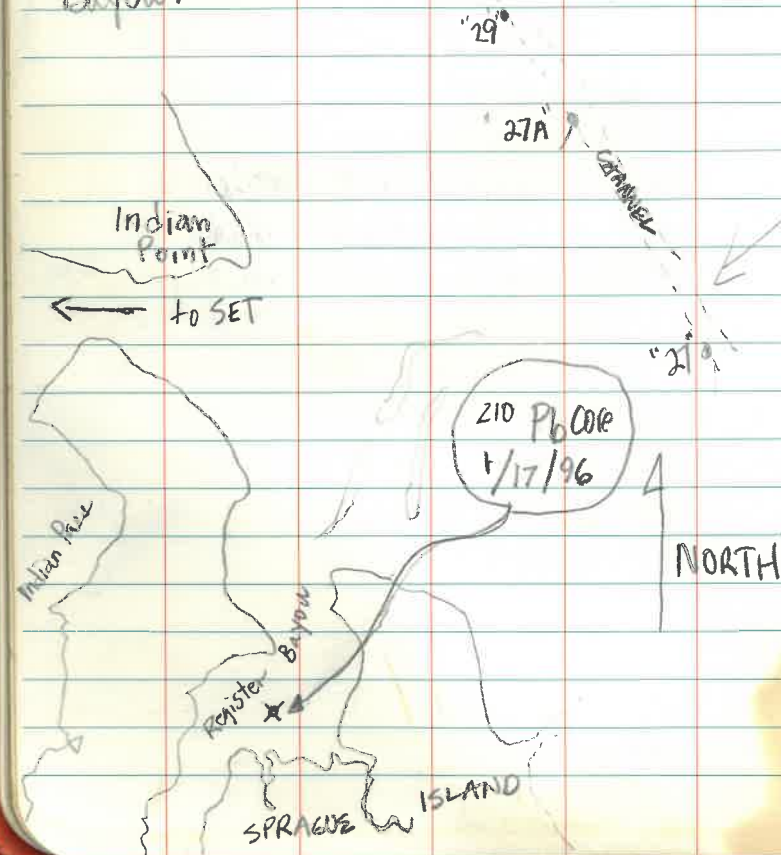
ST MARKS RIVER

Cliff, Jim, Chen, Brad

Collect core designated 1/17/96

65° - nice, breezy. Collected ONE ^{210}Pb core. Measurements were not taken in the field for compaction calculations.

Core was taken southeast of the St Marks set (within a mile) in Register Bayou.

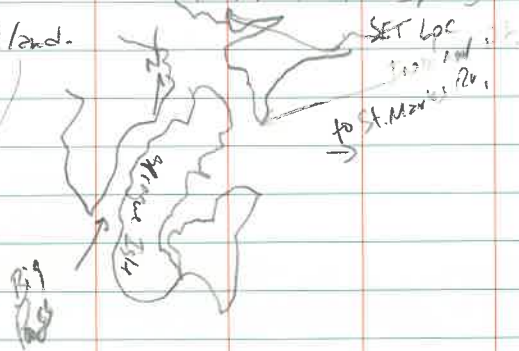


1/17/96

37

Took 1 ^{210}Pb Core for Cliff

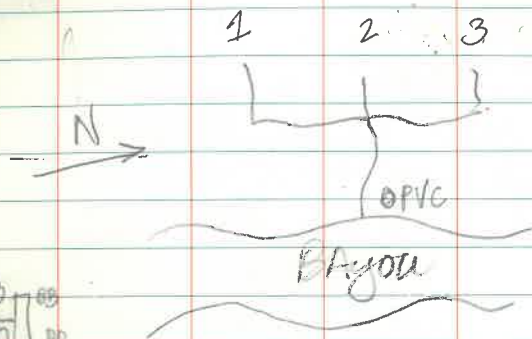
Location is: in inlet to Sprague Island.



- Core 1/17/96 is designated a SUBTIDAL CORE. Core taken in a subtidal area protected from wind, waves, most boats, still some tidal current present.

Ancilla River 5/17/96

CLIFF
BRAD



SET DATA STATION 01

	A	B	C	D	
1	17.3	20.4	19.9	16.4	
2	20.0	19.8	19.9	20.7	
3	15.8	20.8	21.3	22.1	
4	19.0	20.9	20.2	21.1	
5	19.5	20.8	20.1	20.2	
6	19.0	21.3	19.9	21.4	
7	X	22.1	20.3	20.2	
8	16.1	19.5	21.1	21.6	
9	20.3	X	20.5	18.5	
AVG	19.0	20.7	20.4	20.7	20.2
Cryo	AA	BB	CC	DD	
	NOT	NO Felt	NONE	14.7	
	FOUND	Found	↓	14.0	
		Inter		16.2	

5/17/96 cont'd 39

AB
CD

STATION 2

	A	B	C	D	
1	22.7	21.3	20.1	21.2	
2	21.8	21.0	21.7	22.2	
3	22.3	17.8	22.8	22.1	
4	21.1	21.8	22.0	20.8	
5	(Hole) 13.3	22.4	21.0	22.9	
6	20.9	21.8	22.1	21.5	
7	22.5	22.3	23.1	20.6	
8	21.2	22.8	23.0	20.6	
9	20.7	22.2	20.9	21.3	"AVG 2"
AVG	21.7	22.0	19.4	21.5	21.2

Cryo

AA	BB	CC	DD
NONE	16.5	NONE	NONE
	20.3		FOUND
	20.2		
	19.7		

Angilla

5/17/96 (cont) NP-^{AB}_{CD} ^{BB}_{DD}

STATION 3 (Eastward)

	A	B	C	D	
1	10.7	8.5	9.8	8.4	
2	9.2	8.2	10.3	8.8	
3	8.8	11.2	10.3	9.6	
4	10.0	09.5	8.8	8.7	
5	10.4	10.0	10.6	8.7	
6	10.6	9.8	11.8	8.9	
7	9.5	9.1	11.3	X ^{B'DNED}	
8	11.1	9.8	11.8	7.8	
9	10.5	9.7	10.5	9.1	"AVG 3"
AVG	10.1	9.3	10.6	8.8	9.7

AA	BB	CC	DD
9.0	9.3	13.4	NONE
10.5	8.5	14.7	↓
15.0	7.0	XX	
11.8			

ave

AVG 01	20.2
AVG 2	21.2
AVG 3	9.7
	51.1/3

$$(AVG 1, 2, 3) = 17.0$$

9/6/96 Sparrow Set

ST MARKS #1-5

41
(FIRST
METS-
USE
METS)

OUTSIDE
So) A (m) B (m)

1	30.4	30.1
2	29.9	29.3
3	29.7	30.0
4	29.1	29.3 (Edge of Ground)
5	31.6	31.4
6	29.5	30.2
7	28.7	29.7

INSIDE
No) 8 28.1 28.3 "N" Arm
-1.7

1	28.1
2	28.3
3	29.0
4	31.4
5	—
6	30.8
7	29.6
8	30.3

on ground

No measurement (Corner)

"N" Arm

Note: For "A" measurement, Set
arm was in normal
orientation; For "B"
measurement, Set arm
was reversed. Need to
keep orientation constant

8/6/96

SHARKS NWK SHALLOW SETS

#2-5 } ESTABLISHED 8/6/96

#3-5 } 50 cm DEEP

3" ALUM

TUBE, GRADE

W. CONCRETE

SET TUBE DEEP

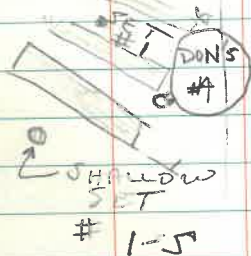
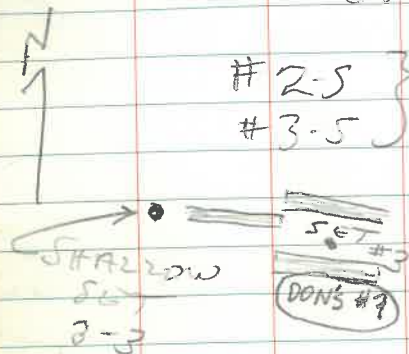
ENTERED IN,

EXTENDING

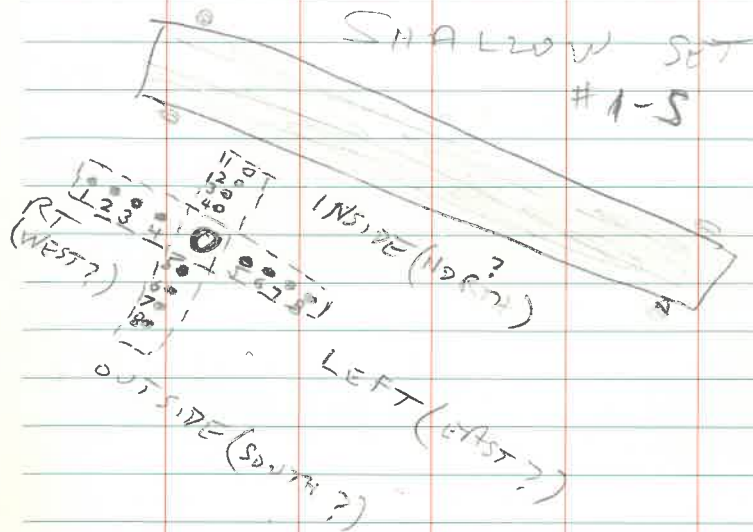
15 cm ABOVE

SURFACE

(PATH)



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8/30/96

ST. MARKS
Cliff, Chen

Cryogenic core data: See Don Cahoon's Map:

SET station #4: (on #1)

Plot D: 0.0

Plot E: 6.4 6.8

Set Sta. #5 (on #2)

Plot E: 9.8 11.8 12.0

Set Sta. #7 (on #3)

Plot E: 14.3 11.2 11.7 11.7

SET Stat 6

Plot E: 6.5 5.6 6.5

SET Station 3

Plot 7.5 8.2 7.0

SEE Station 2

Plot E 10.4 15.8 13.3 12.1

SET (Deep SET) data (see map)

Station #4 (on #1)
NB DE SE SW NW
A = NW

1	35.8	34.8	35.2	34.4
2	34.3	34.3	32.5	35.8
3	35.4	35.3	35.5	35.7
4	35.2	35.2	36.0	35.6
5	35.2	N.R.	35.5	35.0
6	36.7		35.5	36.8
7	34.8		35.2	34.5
8	34.9		35.5	35.7
9	35.1		35.3	N.R.
AVG	35.3	34.9	35.1	35.4

Station #5 (Deep set)

Went NO DATA (all wood)

See next page ↓

8/30/96 Cliff Chen, N

Station #5 Deep Set.

	N	E	S	W
1	35.4	35.3	NR	NO
2	33.5	hole		DATA
3	35.8	34.0		ALL
4	35.5	35.4		WOOD
5	35.6	36.3		PLANK
6	36.1	34.6		-
7	34.6	34.7		-
8	35.4	36.2		-
9	36.3	35.5		-
AVG	35.4	35.3	-	-

Station #7 (our #3)

	N	E	S	W
1	35.3	35.7	34.6	36.1
2	36.4	35.3	36.0	35.3
7	37.3	34.8	35.4	35.5
4	36.0	N.R.	36.4	36.0
5	36.0		36.1	35.5
6	37.4		35.1	36.2
7	35.6		36.2	35.7
8	34.5		hole	N.A
9	36.7		35.7	1
	36.1	35.3	35.7	35.8

Shallow Set Station #7

	N	E
1	26.5	28.1 (east)
2	28.0	28.0
3	28.1	28.1
4	29.1	30.1
5	28.7	28.8
6	28.1	28.1
7	27.8	28.0
8	26.0	27.4 (west)

Shallow SET Station #5

	N	E
1	29.2 hole	29.2
2	28.6	28.0
3	28.2	28.4
4	27.0 concrete	27.0 hole
5	26.3	21.9 concrete
6	29.7	28.6
7	28.6	28.9
8	28.8	27.4

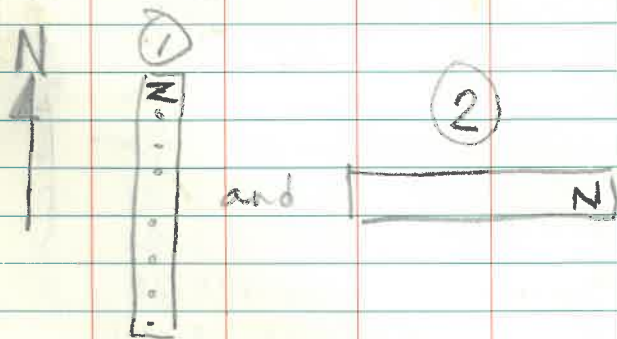


8/30/96

New Shallow Station

	N	E	
1	30.9	30.5	East
2	29.9	30.3	
3	30.2	30.3	
4	concrete	30.5	
5	32.0	30.8	
6	30.4	30.1	
7	29.4	28.5	
8	28.4	28.5	

Shallow SET is read... with "N" end facing North.. this is the "N" measurement.
The E² measurement is taken w/ the "N" end facing E or as close as possible.

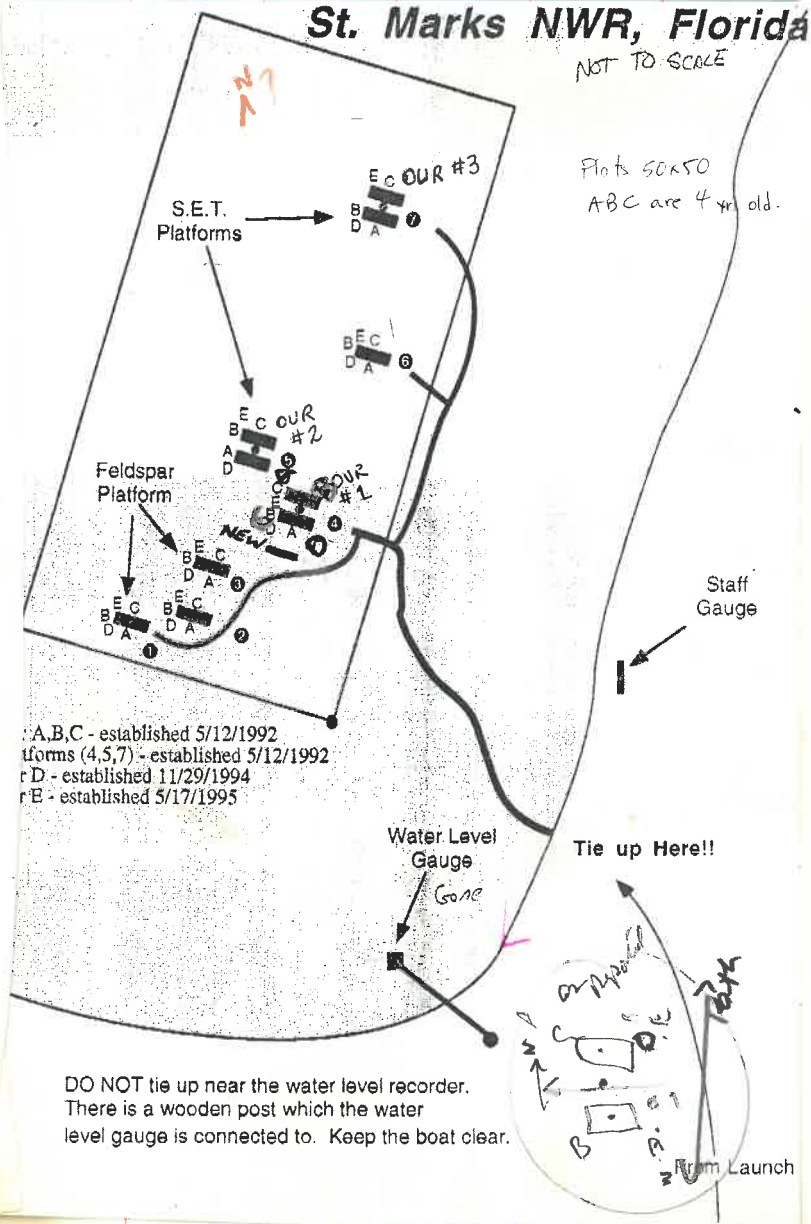


51

St. Marks NWR, Florida

NOT TO SCALE

Plots 50x50
ABC are 4 yr old.

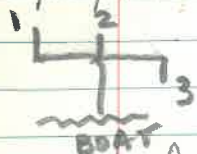


2/12/97

Avalla River

SPEC CUFF
CHEN~~2/12/97~~

ii STARTED USING LABELED PINS!!



SET station 1

A B C D

1	19.7	22.0	19.2	20.5
2	20.0	22.3	20.6	22.3
3	19.5	21.9	20.8	21.8
4	19.5	22.0	21.4	21.7
5	20.2	22.2	19.5	21.5
6	21.5	21.3	19.4	23.0
7	20.6	21.8	21.5	21.6
8	20.5	Blocked	20.6	21.5
9	19.4	Blocked	20.4	20.5

cryo:

Feldspar Feldspar
spreaded spreaded

This is the ONLY station
that got densely spreaded
with feldspar.

ST. 1



□ = New felds. photo

Path →

A/B

C/D

→ N

STATION 2

2/12/97

A B C D

1	22.4	23.4	22.8	22.5
2	22.3	22.6	23.6	24.3
3	22.4	22.7	23.4	23.7
4	22.1	22.8	22.6	22.7
5	22.0	22.6	22.3	23.1
6	22.0	22.7	23.3	22.7
7	22.8	Hole	22.0	23.2
8	22.0	23.1	22.9	22.4
9	22.6	22.8	22.5	21.8

AVG cryo = 13.0

cryo 16.0

15.2 13.1

8.9 10.1

10.1 13.6

13.5 14.3

13.3

ST. 3

A B C D

1	9.3	6.7	11.3	8.4
2	6.9	8.5	12.3	9.6
3	6.3	9.9	11.8	9.7
4	10.5	7.0	11.8	10.2
5	9.7	9.0	11.9	10.0
6	9.0	8.7	11.6	10.3
7	9.6	8.2	11.8	Blocked
8	6.5	8.6	13.0	9.5
9	10.0	9.0	12.3	9.1

cryo

* Need to be spreaded with
ST. 3 feldspar (Next time)

(Tide LOW @ 9:00 AM (Locally)) Cliff H. ^{Chen} ^{Adel D.} ^{Real} ^N
 JANUARY 08, 1997 ST MARKS
 Full Moon - Spring tide today.
 Cloudy and cold. (50°)
 Monitor elevation @ various tidal stages:

#1 Time: 10:30 phase: Low

	A NE	B NW	C SW	D SE	11:04 AM
1	36.1	35.5	35.9	35.6	
2	35.7	34.8	35.9	35.5	
3	35.4	35.3	36.4	35.4	
4	35.4	35.9	36.3	35.3	
5	B/o	35.8	37.0	36.4	
6		35.4	35.3	36.3	
7	CX	35.5	36.0	36.5	
8		35.7	36.2	35.3	
9	ed	35.7	38.0	34.9	

#2 Time:

	A NE	B NW	C SW	D SE	11:05 AM
1	36.7			36.0	B/x/c
2	Hole			35.8	A/D
3	35.7			35.3	
4	36.1			36.0	
5	35.8			36.4	
6	35.6			37.0	
7	36.0			35.0	
8	36.6			36.3	
9	36.8			36.5	

Blocked Bad

Time: 11:20

NOTE NE - A
NN - B
SW - C
SE - D

#3

	A NE	B NW	C SW	D SE
1		35.1	34.6	35.5
2		35.6	34.3	35.2
3		34.9	35.3	35.9
4		35.1	34.0	35.6
5		35.4	33.4	35.8
6		35.5	35.2	36.0
7				36.6
8				35.9
9				34.4

Time: 12:30 phase: MID

#1

	A NE	B NW	C SW	D SE
1	35.6	35.6	34.0	35.5
2	35.2	35.0	35.4	34.6
3	35.0	35.3	35.8	34.2
4	35.8	35.1	35.0	36.5
5		35.5	35.1	34.2
6		35.4	35.1	35.5
7		35.3	35.2	36.6
8		35.8	35.0	34.6
9		35.9	36.0	35.0

SIT MARKS

Jan 08 (cont)

Time: 12:50

#2	ANE	B NW	C SW	D SE
1	36.6			36.3
2	35.2			35.7
3	35.8			35.5
4	36.1			36.1
5	36.9			36.5
6	35.7			37.0
7	35.7			35.4
8	36.1			37.0
9	36.3			36.9

Time: 1:05

#3	ANE	B NW	C SW	D SE
1		Hole	35.5	35.5
2		35.7	36.3	35.6
3		34.7	34.9	36.3
4		35.6	35.9	35.7
5		35.8	36.8	36.0
6		34.6	34.1	36.0
7		36.0	35.4	35.4
8		35.3	35.1	35.1
9		35.7	35.9	33.9

JAN 08 (cont)

Time: 2:30 Phase: HI

#1	ANE	B NW	C SW	D SE
1	34.7	35.4	35.2	35.2
2	34.5	34.8	35.8	36.1
3	35.1	35.7	35.2	35.3
4	35.5	35.9	36.6	36.0
5		35.4	35.2	36.3
6		36.7	35.0	36.2
7		36.3	35.5	35.0
8		36.0	35.5	35.4
9		35.8	35.8	34.9

Time: 2:45

#2	ANE	B NW	C SW	D SE
1	36.8			35.9
2	Hole			35.0
3	35.6			36.1
4	35.7			36.2
5	35.6			35.7
6	36.0			36.3
7	34.9			34.9
8	35.9			36.5
9	35.7			36.7

JAN 08 (Cont)

ST MARKS

#3

#3

TIME: 3:00

A NE

B NW

C SW

D SE

1		34.7	35.5	34.6
2		35.9	35.7	35.7
3		34.9	35.0	34.7
4		36.1	35.6	35.7
5		36.3	36.4	35.1
6		34.5	35.3	35.0
7		36.0	35.4	35.2
8		35.5	Block	34.0
9		35.8	Block	34.5

CRYDGENICS

Site 1	NONE FOUND	NONE	NONE	
Site 2	9.7	7.2	8.7	10.2
Site 3	8.4	10.0	9.0	

Site 6 8.0 8.0 10.3 10.2

LOW (Avg all 3 stations) = 35.7
 MID (") = 35.3
 HI (") = 35.5

Shallow SET

LOW TIDE

SAINT MARKS JAN 08, 97

ST 3

1 2

1	28.1	28.0
2	27.9	29.1
3	27.1	28.8
4	29.4	30.1
5	25.4	28.8
6	28.8	28.1
7	27.6	28.3
8	26.4	28.0

ST 1

1 2

1	29.2	30.4
2	29.6	30.5
3	30.2	30.5
4	31.0	conc.
5	30.5	30.8
6	30.2	29.5
7	30.1	30.0
8	30.3	29.9

ST 2

1 2

1	27.7	30.0
2	27.8	31.5
3	28.9	29.2
4	29.1	conc.
5	conc.	27.8
6	29.4	28.9
7	29.2	29.3
8	29.0	29.4

Shallow Set : 2ndMID
TIDE

Set 3 1 2

1	27.3	28.4
2	27.0	29.8
3	27.6	28.9
4	29.1	29.5
5	29.0	28.8
6	27.8	28.3
7	27.6	28.4
8	25.4	28.2

Set 1 1 2 - Mid tide

1	29.8	31.0
2	30.1	30.3
3	30.0	30.6
4	31.1	Conc.
5	29.5	29.9
6	30.5	29.8
7	30.8	30.1
8	30.3	29.5

SHALLOW ST MARKS
Set 2 (mid-tide) JAN 08, 1997

1 2

1	27.6	29.5
2	29.1	31.5
3	29.5	28.6
4	Conc.	Conc.
5	Conc.	29.0
6	29.6	29.4
7	29.3	29.5
8	29.2	29.3

NOTES : Deep set munts taken three times today during 1/2 of a full tidal (spring tide) cycle.

• official tide tables reported low tide @ 7:38 AM - Field observation recorded slack tide and change to incoming at about 9:00 AM (LOW @ 8:45) (High ~ 3:30 PM)

3/6/97

Aucilla River.

H₂O 90 m

STATION	pH	T	Cond	Sal	Turb	Depth	Time
1	4.13	21.3	0.183	0.1		10.4	12:45
2	3.82	21.2	0.126	0.1		11.6	12:54
3=1	3.65	21.4	0.164	0.1		9.6	1:34
4=2	3.48	21.5	0.176	0.1		5.4	1:38
5=3	3.52	21.5	0.194	0.1		4.8	1:40
6=4	3.58	21.6	0.204	0.1		6.2	1:43
7=5	3.64	21.2	0.416	0.4		7.4	1:49
8	5.22	21.5	6.55	3.2		3.8	1:53
9	4.83	21.6	3.51	1.9		1.8	1:57
10	5.24	22.2	12.52	7.2 (Rip)		1.4	2:01
11	5.5	22.3	16.4	9.6		2.8	2:07

Station #5 are marked
on Jim Ladner's Map

21 11:30 AM
4/15/97 LOW TIDE
CLIFF, DEER H.
ST MARKS
SET STATION #1

	A ^{NE}	B ^{NW}	C ^{SW}	D ^{SE}	
1	34.8	35.1	35.1	36.2	1
2	34.3	34.1	35.6	37.7	2
3	35.0	36.0	36.6	35.8	3
4	35.0	36.3	35.3	36.5	
5	B	35.7	36.1	36.2	
6	B	35.9	36.8	37.6	
7	B	35.9	35.9	35.9	
8	B	35.7	35.8	35.8	
9	B	35.4	35.8	35.9	
AVG	34.8	35.6	36.1	36.4	35.7

STA. #	A	B	C	D	
1	35.7	B	B	36.2	1.
2	35.6	B	B	35.0	2.
3	35.2	B	B	36.8	3.
4	35.9	B	B	36.7	
5	36.3	B	B	36.7	
6	36.0	B	B	37.4	
7	36.1	B	B	36.0	
8	36.7	B	B	36.6	
9	36.6	B	B	37.2	

AVG

B.A. 10/11/97

4/21/97
(cont)

Time 12:00 (WOODS)

SET #3

	A	B	C	D	Cryo
1	B	34.6	35.8	35.2	
2	B	36.1	35.2	36.3	1.
3	B	36.0	34.7	35.2	2.
4	B	37.1	35.5	36.1	3.
5	B	36.0	35.6	35.4	
6	B	35.6	35.1	35.7	
7	B	36.1	35.9	35.2	
8	B	35.6	B	34.3	
9	B	35.7	B	35.3	

AVG

Time 12:26

SHALLOW SET:

SH. SET #1	1	2	#2	1	2
1	29.3	30.4	1	29.1	30.3
2	29.8	30.5	2	29.2	30.4
3	29.9	30.5	3	29.0	29.7
4	30.8	32.0	4	28.6	29.4
5	31.0	29.6	5	29.2	29.0
6	30.9	29.8	6	28.9	29.3
7	30.7	29.7	7	29.0	29.5
8	30.7	29.0	8	29.1	29.8
S		W			

4/21/97
(cont)

ST MARKS SET

TIME 12:37

SHALLOW SET 3

	1	2
1	27.5	28.7
2	27.5	28.0
3	29.9	28.5
4	29.0	30.2
5	28.6	28.8
6	28.5	28.5
7	27.9	28.3
8	26.4	28.6

Notes:

CRYO STATION 6

3.5	5.2	4.4	4.4
-----	-----	-----	-----

CRYO STATION 3E

5.1	7.6	6.0	6.2
-----	-----	-----	-----

CRYO STATION 2E

9.7	11.1	8.2	9.7
			6.8 mm

4/21/97

Time: 12:44

SET #1

12:57 MID TIDE
MARCH STARTED FLOODING

A

B

C

D

1 35.2 35.7 34.2 35.6

2 35.3 34.5 35.6 35.9

3 35.1 36.1 36.4 36.5

4 35.4 35.8 35.8 37.5

5 35.5 35.5 35.9 36.0

6 B 35.9 38.2 35.8

7 B 36.2 35.9 35.5

8 B 35.7 35.5 35.1

9 B 35.4 35.3 36.4

AVG 35.3 35.6 35.9 36.0

(35.7)

SET #1

+ ME: 2.45 HIGH TIDE

A

B

C

D

1 33.0 35.3 34.5 35.6

2 35.1 34.8 35.8 33.6

3 35.6 35.9 36.4 35.9

4 35.3 36.0 35.2 35.6

5 35.8 35.9 36.1 35.5

6 B 35.9 35.0 36.5

7 B 36.1 35.3 34.8

8 B 35.9 35.6 34.8

9 B 35.9 35.5 35.7

AVG 35.0 35.7 35.5 35.3

(35.4)

4/21/97

ST. MARKS SET

SET #1

TIME: 4:20

TOTAL WATER DEPTH
4 inch

A

B

C

D

1 34.7 35.2 34.8 35.5

2 34.8 33.7 35.7 33.2

3 35.6 35.4 36.2 34.9

4 35.2 35.6 35.6 35.4

5 35.6 35.1 35.6 35.6

6 B 35.6 35.0 36.2

7 B 35.9 35.5 35.2

8 B 35.3 36.4 35.0

9 B 35.0 36.0 35.5

35.2 35.2 35.5 35.2

(35.5)

SET #1

TIME 5:06

TOTAL WATER
DEPTH 1 INCH

A

B

C

D

1 34.9 35.8 34.7 35.1

2 34.4 34.1 35.6 37.1 35.5

3 34.9 36.0 36.6 36.4

4 34.6 36.1 35.6 35.0

5 35.2 36.3 35.5 35.4

6 B 36.4 34.9 36.2

7 B 36.1 35.2 34.6

8 B 35.8 35.5 34.5

9 B 35.9 35.3 35.5

AVG 34.8 35.8 35.4 35.5

(35.4)

6-6-97

AUCILLA BAY

HYDROLAB

DEPLOYED Noon 6-6-97

Location of hydrolab on Aucilla river Map

Program on @ 8:00 PM 6/6/97

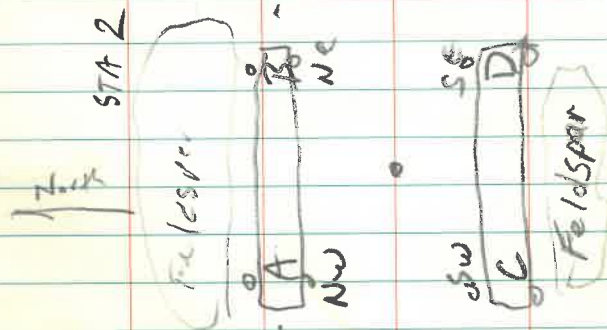
17/ @ 8:00 AM 6/23/97

BEGIN
Rocky CREEK
SET DATA

8-18-95

Rocky Creek (SET)

	NWA	SWC	NEB	SED
STA 2 1	19.4	16.0	20.0	21.7
2	21.3	14.0	21.0	22.9
3	19.9	18.2	20.2	22.7
4	20.1	22.0	19.6	21.3
5	21.1	20.5	19.1	23.5
6	20.4	19.0	23.0	23.5
7	21.6	20.7	22.0	19.9
8	18.8	19.6	19.2	23.2
9	19.9	19.8	20.2	21.9

1st
ReadingTrail
to Hammock

10-18-95

Stem
Jim

Rocky Creek

11.0

	NWA	NEB	SWC	SED
STA 1 1	15.5	15.0	15.7	15.0
2	15.8	18.4	15.0	16.7
3	15.2	14.8	16.6	16.2
4	14.4	14.4	15.5	15.2
5	14.5	15.1	13.4	14.7
6	15.9	17.2	15.0	12.9
7	13.0	13.0	13.7	16.3
8	14.4	16.0	13.1	17.3
9	16.7	14.6	15.0	14.8
Avg	15.3	14.5	14.6	15.5 = 15.0

Cryd 1

2
3
4

Pushed
a little

10-18-95 (-5?)
Rocky Creek

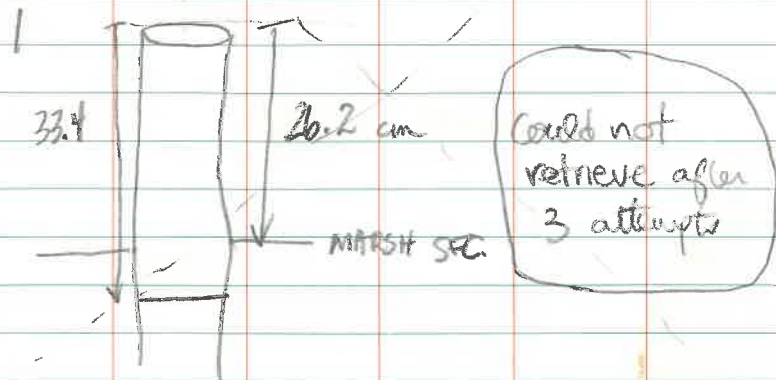
STA	Z	NW A	NE B	SW C	SE D
	1	21.6	20.7	20.7	22.6
	2	22.8	23.4	21.2	21.0
	3	23.5	21.9	17.8	21.8
CM	4	21.7	21.5	17.9	18.6
	5	20.5	22.2	19.5	19.1
	6	20.6	22.7	21.4	21.9
	7	21.9	21.9	20.5	18.5
	8	20.5	22.4	19.7	22.1
	9	21.0	22.3	20.6	20.0
AV		21.8	22.1	19.9	20.6 = 21.1
Clyd	1	10.25		2.0	6.0 turbid
mm	2	7.90			
	3	6.50			
	4	8.3			

NEW Feldspar (?)

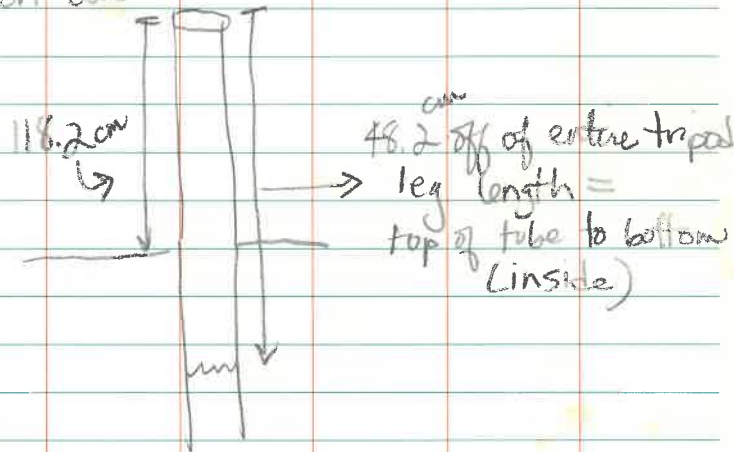
intertidal

3/13/96

210 Pb Core @ st. A see 1st map



Push Core



Rocky Creek

4-3-96

Ron-J. M. Brund

Sta 1	A nw	B inle	C sw	D se	
1	16.2	16.1	16.9	→	60.2
2	15.9	13.5	15.5	17.5	
3	15.3	16.0	16.1	16.5	1
4	14.9	13.3	15.8	16.0	
5	17.0	16.1	17.0	16.1	1
6	14.2	16.8	18.2	17.5	
7	14.9	17.5	17.1	17.4	
8	13.7	17.8	14.8	17.5	1
9	17.6	18.5	13.3	18.2	7 16.9
AU	15.5	16.1	16.0	17.1	

Cryo	1	3.1	1	1.6 mm	2.1	1	2.4	
	2	3.0	2	1.1	2	3.3	2	2.4
	3	2.3	3	1.2	3	4.4	3	4.1
	4	2.2	4		4	3.3	4	3.8
					5	2.7	5	2.1

Station 1 Δ from 10/95 $\rightarrow$ 4/96 = +1.9 mm

4-3-96

SITE 2	C	D	A	B	
1	20.1	22.2	22.7	17.2	
2	21.6	23.0	21.9	22.2	
3	18.7	22.5	23.0	22.6	
4	21.8	22.7	21.5	22.6	
5	21.2	22.7	22.4	21.6	
6	21.6	22.8	22.2	21.5	
7	20.9	22.7	22.3	20.4	
8	20.1	23.7	20.4	20.0	
9	21.6	24.4	20.8	22.3	
AU	20.8	23.0	21.9	21.2	21.7

Cryo	1	1.6	0.9	2.5
	2	0.0	0.0	1.6
	3	0.9	1.1	1.2
	4	0.0	0.6	2.6
				10.0

1.38

Station 2 Δ from 10/95 $\rightarrow$ 4/96 = +1.6 mm

Rocky Creek

7/16/96

CLIFF
Holly
Jim

12:00 Noon

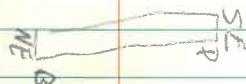
STA. 1

	A NW	B Ne	C SW	D Se
1	16.4	16.7	16.6	X _{post}
2	15.6	16.4	15.0	17.2
3	16.3	17.3	15.5	15.2
4	16.9	15.2	16.4	11.3
5	18.0	16.8	16.2	17.4
6	17.1	17.8	16.3	18.0
7	15.0	17.9	16.8	16.7
8	16.7	17.5	13.0	17.2
9	18.4	16.9	12.5	16.0
	16.7	16.9	15.4	16.1
				16.3

Cryo - A B C D

1		9.0	12.7 mm
2			12.4
3			11.4
4			12.1

$$9 + 12.1 \div 2 = 10.6$$



Note - (A) shows
nearby activity -
walking, etc. in SET
area, near A.

7/16/96 Rocky Creek

Holly
Jim
CLIFF

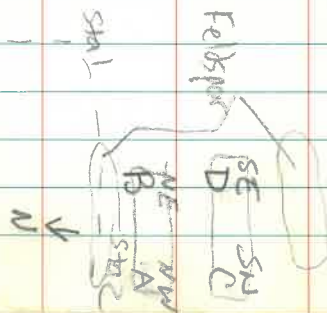
STATION 2

	A NW	B	C	D
1	22.8	24.3	23.4	21.4
2	23.0	23.0	22.3	21.7
3	23.3	23.8	21.2	21.8
4	23.8	25.5	24.3	21.9
5	21.5	24.2	23.0	21.7
6	22.6	23.5	21.5	22.7
7	21.6	23.4	22.4	22.8
8	22.2	22.9	22.7	22.5
9	22.1	23.2	22.4	21.6
Average	22.4	23.8	22.6	22.0
				22.7

Cryo A B C D

1	8.3	4.6	3.0	6.4
2	8.3	2.1	2.4	5.7
3	8.2	2.1	3.2	6.2
Average	8.3	2.9	2.9	6.1
				5.0

$$SET 1 + 2 = 16.3 + 22.7 \div 2 = 19.5$$



NOTE - Walked
on area near
A & B.

$$Cryo 1 + 2 = 10.6 + 5.0 \div 2 = 7.8$$

SHALLOW SET 16 AUG

	cm	
1	30.4	3
2	29.9	
3	29.9	
4	29.1	
5	31.6	
6	29.5	
7	28.7	
8	28.1	

10/21/96 Rocky Creek CLIFF

~ 2 weeks after TS Josephine
Sunny, ~ 70°F. Time 2:18 PM

X Observed

SET DATA

* in hole around post

	A NW	B NE	C SW	D SE
1	17.1	16.1	17.5	X
2	15.5	16.1	X	* 15.8
3	16.7	15.4	18.2	18.7
4	15.5	17.2	18.4	* 17.1
5	18.5	16.7	17.4	* 8.5
6	17.9	17.8	X	18.8
7	X	18.4	18.4	18.1
8	16.5	17.6	18.6	18.0
9	17.5	17.4	18.3	18.7
	16.9	17.0	18.1	18.7
		CRYO DATA		(STA. D)

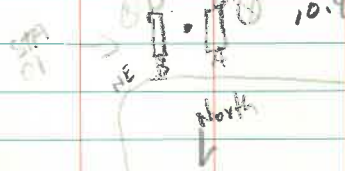
Total average

> 17.2

Cop

	A	B	C	D
1	12.1	11.9	9.2	9.8
2	9.0	7.9	12.4	9.9
3	11.3	9.8	10.2	7.3
	10.9	11.9	10.6	12.5
		SW 10.3		9.9
		10.4		

> 10.4



Set 2 show evidence of significant shifting

SET 02

	A	B	C	D
1	22.5	19.8	21.1	23.4
2	24.8	23.9	21.4	22.2
3	23.6	22.2	19.5	22.4
4	23.4	22.5	18.5	19.8
5	23.6	22.6	20.8	23.6
6	23.9	23.9	23.4	21.3
7	22.2	23.4	21.5	22.8
8	23.5	23.3	19.9	23.8
9	22.8	23.5	20.9	23.4
Average	23.4	22.8	20.8	22.5

CRYO DATA (site 02)

	A	B	C	D
1	RAND OUT		5.1	11.3
2	OF N ₂		4.8	15.0
3	A+B		5.1	13.2
			6.1	13.2
			5.3	9.2

SET 1+2 Average = 19.8

1:1

CRYO average = station 1+2
= 10.4 + 9.2 ÷ 2
= 9.8

10/21/96

2016 Core Attempt #2

35 inside } surface to top
25 outside } of core taken

SET A from 10/21 to 7/14/96 =
19.8 - 19.5 = +0.3cm

CRYO A from 10/21 to 7/14/96 =
9.8 - 7.8 = 2.0cm

Coronals
5/22/97
B
C
A
D
N

Rocky Creek
incoming tide
Site 1
Cliff
Debris
Adel

A(B) B(D) C✓ D(A)

1	16.8	17.2	17.6	16.2
2	16.7	19.0	x	16.5
3	17.1	17.5	18.4	15.2
4	18.2	17.8	18.8	15.2
5	16.7	19.1	18.3	15.9
6	18.1	18.0	x	15.9
7	17.4	17.5	18.9	x
8	17.2	18.7	18.7	17.0
9	17.7	18.7	x	16.6

Site 2
✓A D ✗ C✓ ✗B

1	22.1	23.9	23.0	21.5
2	21.3	22.5	22.8	24.3
3	24.0	22.4	22.9	24.0
4	21.3	22.5	22.7	23.1
5	24.6	21.2	22.8	24.6
6	22.7	23.9	23.7	22.0
7	23.2	HOLE	22.5	22.2
8	22.2	23.8	22.0	23.7
9	22.3	23.1	23.0	23.9

5/22/97
CRYO
Site 1 C

① =A 8.7 } broken
② =B 8.7 } good layer
③ =C 11.2 scattered
④ =D 11.7, 13.6, 10.0

Site 2

① =A 5.9 scattered
② =B 8.2, 7.1, 5.0
good layer low
③ =C 5.1 scattered
④ =D 10.5, 8.5, 10.7
very good layer

NOTES

- Site 1: Plants have shifted.
- visible erosion at Site 2.
- Surface rhizomes visible (Juncus)
- marsh flooded after mounds taken.

pergum mound
301-713-0404

5-29-97 10:40 AM Sunny 1 CLIFF
DEBRA
C44N

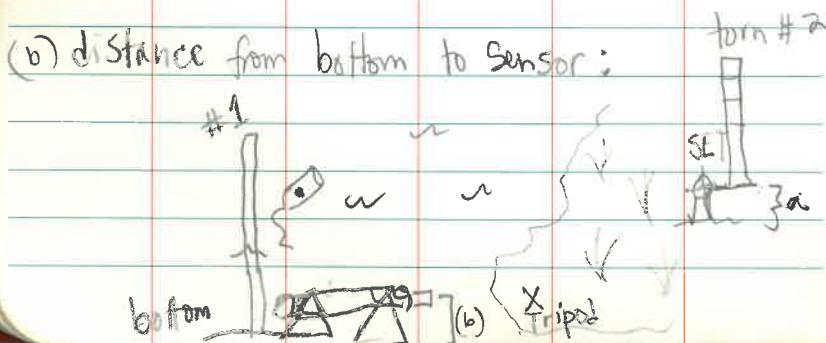
→ ST. MARKS RIVER - HYDROLAB SURVEY
TRANSIT SET UP NEAR SHORELINE

1ST TURN FROM TRIPOD ON MARSH
TO ^{bottom (in creek)} HYDROLAB S 12.5° E
ELEVATION 10.50 FT

HIGHEST POINT 5.35 FT
ON STADIA ROD AT
HYDROLAB

2nd turn: From tripod to top of
SET pipe #2: N 14.5 W
4.17 ft

distance from top of Pipe to Marsh Sfc:
17.3 cm
17.8 cm
18.1 cm



11:54 AM - HYDROLAB REMOVED

Note: After recovery, data showed that depth/level was NOT recorded for the period ending 5/29/97. ∴ The survey for SET elevation cannot be used. CH.

STATION 1 JIM, RON, DEBRA
ROCKY CRACK cloudy, windy

1-7-98

11:20 AM

TIDE RISING 3cm

STATION 1

AT SET PIPE

	A	B	C	D
1	15.1	13.9	16.2	X blocked
2	15.8	15.4	X blocked	13.9
3	13.5	12.4	18.3	13.1
4	13.9	13.2	17.9	8.8
5	15.5	16.5	15.7	11.3
6	13.2	15.5	X blocked	14.2
7	X blocked	12.3	16.6	14.6
8	15.5	11.2	14.3	13.1
9	15.5	12.2	18.1	12.5

CRYO

1	25.4	15.3, 18.2, 20.8, 25.3
2	25.8	B-D 40.1, 41.3, 44.9, 37.3
3	26.9	11.6, 11.5, 11.6, 11.5, 11.6, 11.5
4	25.0	12.5, 15.7
	27.8	

STATION 2

Rocky Crack

NO WATER DRY

1-7-98

B*

A*

11:40 AM

B

A

C

D

1	22.9	21.8	28.1	22.1
2	22.5	23.5	27.4	22.0
3	20.8	23.0	29.1	18.6
4	22.2	22.3	27.5	21.8
5	22.3	21.4	27.3	19.9
6	22.0	21.9	28.2	20.8
7	22.5	20.1	29.6	21.4
8	22.6	20.9	28.6	19.7
9	21.4	22.4	29.4	20.2

Avg

Cryo

A-B

1	21.9, 22.1, 19.1, 20.8, 24.6
2	
3	
4	

made mistake

so B then A

D = Discontinuity

50 mins to do both Stations!

7/17/96

LS. Structure St. Marks,

St. Marks to
Avella R.

- ① H₂O Ls
- ② 2.4 5.2 9²⁰
- ③ 1.9 6.8 9⁴⁰
- ④ 2.1 5.9 10⁰⁵
- ⑤ 2.2 7.2 10²⁰
- ⑥ 2.3 4.4 10³⁵
- ⑦ 2.2 8.2 10⁵⁰
- ⑧ 2.2 8.4 10⁰⁰
- ⑨ 0.2 5.5 11¹⁰
- ⑩ 2.2 5.1 11³⁵
- ⑪ 2.5 2.6 11⁴⁰
- ⑫ 2.1 11.1 12⁰⁰
- ⑬ 5.5 7.8 12¹⁵
- ⑭ 5.8 8.2 12¹⁰
- ⑮ 5.5 8.6 13⁰⁰
- ⑯ 8.8 17.3 13¹⁵
- ⑰ 5.9 7.5 20⁰⁵
- ⑱ 7.5 14.2 24⁰⁰
- ⑲

(open area)
Rock on surface -
Ls @ 17 ft.

next to open
shore area
Ls @ 9 ft

8-1-95

Rocky Creek 224 n.e. St. Louis

600's

PROP 3.6

HOOP 1.6

NOOP 3.1

TNOOP 2.1

Bout 129 w/3

29 35,629 w

63 27,777 w

@ 12:42

± 1000 FT,

5/96 2

8/96 3

1/97 4

