Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 20-MAR-2023 Plot: MI

Personnel: JGt AS Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
N/A	Black Mangrove	Dead Decay class 3	C2	stem	10	0	16	33.7	80.2	22.3	14:44:00	14:47:00	
			C2	stem	60	↓	14	39.3	↓	↓	14:51:00	14:54:00	
			B3	stem	110	↓	14	38.0	↓	↓	14:56:45	14:59:45	
N/A	Black Mangrove	Dead Decay class 3	B3	stem	10	1	24.5	25.6	78.7	22.6	15:22:00	15:25:00	
			B3	stem	60	↓	23.5	23.7	↓	↓	15:17:00	15:20:00	
			B3	stem	105	↓	15.5	23.0	↓	↓	15:11:00	15:14:00	

Weather: Sunny

Notes:

System Time: 14:43

Real Time: 14:25

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 20-Mar-2023 Plot: M1

Personnel: JG + AS Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
N/A	Black Mangrove	Dead D.C. 3	B3	stem	11	0	20.5	~~37.0~~	78.2	~~21.6~~	15:29:30	15:32:30	
			B3	stem	55	↓	13.5	37.1	↓	↓	15:36:00	15:39:00	
			B3	stem	115	↓	12.5	31.9	↓	↓	~~15:44:00~~ 15:50:00	15:53:00 ~~15:56:00~~	

Weather:

Notes:

System Time:

Real Time:

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 20-MAY-2025 Plot: M1

Personnel: JG + AS Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
N/A	Black Mangrove	Dead D.C. 3	B3	stem	11	0	20.5	37.0	78.2	21.6	15:29:30	15:32:30	
			B3	stem	55	↓	13.5	37.1	↓	↓	15:36:00	15:39:00	
			B3	stem	115	↓	12.5	31.9	↓	↓	~~15:44:00~~ 15:50:00	15:53:00 ~~15:56:00~~	

Weather:

Notes:

System Time:

Real Time:

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/19/23

Personnel: JG

Plot: BL60

Analyzer: LGR1

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	RHMA	Live	leaf B	Leaves	/	/	/	/	80.4	/	150000	163600	9 leaves
NA2	"	"	"	"					80.2		160000	164600	10 leaves
NA3	"	"	"	"	/	/	/	/	80.5	/	111600	119000	5 leaves
NA4	"	"	"	"	/	/	/	/	80.4	/	112600	113600	16 leaves
NA5	"	"	"	"	-	-	-	-	81.0	/	121200	122200	14 leaves
NA6	"	"	"	"	-	-	-	-	81.4	/	122600	123600	same as above
NA6	AVGE	"	"	"	/	-	-	-	81.0	-	125000	125900	5 leaves
NA6	"	"	"	"	-	-	-	-	80.2	/	125930	125930	" same as above
NA7	RHMA	"	"	"	/	/	/	-	82.1	/	120900	121830	15
NA8	white	"	"	"	/	/	/	-		/	132600	132900	34 leaves
NA8	white	"	"	"	-	-	-	-		/	133230	133530	same as above
NA9	white	"	"	"					83		133900	134100	21 leaves
NA10	Black	"	"	"							134930	135230	20 leaves

Weather:

Notes:

System Time:

Real Time:

Logging Frequency:

NA11	LGR3	KitMA	LB	Leaves	83.8°	143000 ~~135000~~	143300	11 leaves
NA12	LGR3	KitMA	LB	Leaves	83.9°	143430	143730	

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/19 **Personnel:** Emily + Sam

Plot: Bear **Analyzer:** LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
106	pod	Alive	A	Stem	10.5	0	5.6	26.3	80.2	22.5	11:55:25	11:58:25	root crown 1m
			A crack	Stem	13.5	0	4.1	26.9	80.2	22.5	12:19:10	12:22:10	
			A Crack	Stem	80	0	4.5	26.5	80.2		12:43:20	12:46:20 ☆	Stem below root crown height not sure if should be called stem or root
			NA	root with lenticels	17cm	0 cm			80.2		12:09:00	12:12:00	
NA	Red	Alive	A crack	Stem	90cm	0	4.1cm	26.0	81.9	22.5	13:32:00	13:35:00	root crown 85cm
			NA	root with lenticels	30cm	0	2.1cm	26.3	77.8	11	13:42:00	13:45:00	
			A crack	Stem	125cm	0	4cm	26.1	11	11	13:41:30	13:50:30	

Weather: Sunny

Notes:

System Time: 10:54

Real Time: 10:53

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/19
Personnel: Emily + Sam

Plot: Bear
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
[illegible]	Red Mangrove	FLive	A4	stem	55	0	5.9	22.7	30.9	21.4	09:30:30	09:33:30	40 cm root crown
			A cracked	stem	92	0	3.8	23.1	30.4	1.1	10:49 50	10:52 50	
			A	lenticels	15cm	0	2.7	26.2	30.4	1.1	09:54:30	09:57:30	
			W	few lenticels	29	0	2.9	24.3	30.4	1.1	10:32 37	10:35 37	
			A [illegible] cracked										
A	Red Mangrove	Alive	A cracked	stem	55	0	3.6	26.2	30.4	21.9	11:53 40	11:00 40	50 cm root crown
			A cracked	stem	103	0	3.1	26.4			11:14 20	11:17 20	
			A crack	stem	135	0	2.6	26.3			11:50 32	11:23 50	
			A crack	lenticels	17	0	2.2	25.9			11:30 23	11:33 23	
			A crack	fewer lenticels									

Weather: Sunny
Notes:

System Time: 10:54
Real Time: 10:53
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/19/2023

Personnel: AS + JP

Plot: BL60

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem (C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
	button ~~cfd~~ wood maybe	CWD	B3	stem	30	0	12.5	22.8	81.7	22.7	133030	133330	
	button wood maybe	CWD	B3	stem	35	0	9	22.6	81.7	22.6	133645	133945	
	red mangrove	CWD	B3	stem	60	0	9	25.5	~~[illegible]~~ 79.8	22.7	134930	135230	

System Time: 9:49

Real Time: 9:30

Logging Frequency:

Weather:

Notes:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 9-Mar-2023

Personnel: AS+JP

Plot: BL60

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem (C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
102	Red mangrove	Alive, Stem, Root shoots beyond 2.5m length	HB	Root + lenticels	5	↑	3	25.2	↑	29	11:36:30	11:33:30	
			A4	stem	75	0	8	23.7	80	22.5	11:08:00	11:11:00	
			A4	stem	110	↓	8	24.1	↓	↓	11 1600	11 1900	
100	RED	Alive, 45° lean, Root shoots beyond 2.5m stem length	HB	root + lenticels	15	0	3	25.3	↑	22.8	11 41 00	11:44:00	
			A4	stem	60	↓	5	26	↑		11 53 15	11 56 15	74cm stem length
			A4	stem	100	↓	4.8	26.1	81.1		11:07:30	11:09:30	220 cm stem length * Only 2 min flux measurement

Weather:

Notes:

System Time: 9:49

Real Time: 9:35

Logging Frequency: 1 sec

3rd measurement

Root + shoot @ top of

45° angle bend

Root shoots beyond 2.5m stem

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 19-Mar-2023 **Plot:** BL60

Personnel: AS + JP **Analyzer:** LGR 3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	Button wood	Alive / Low vigor / Dead crown alive	B3	stem	20	0	11	23.0	↑	↑	[redacted] 9:54:30	9:57:30	Real start time ~9:20am
			A4	stem	55	↓	8.5	24.2			10:10:45	10:13:46	
			A4	stem	90	↓	7.5	24.5	80.4	23.9	10:19:15	10:22:15	
NA	Button wood	Alive / Low vigor / Dead crown alive	B3	stem	25	0	9.5	24.4	81.2	23.1	10:32:30	10:35:30	splits into 2 (stem)
			A4	stem	75	↓	5	24.9	↓	↓	10:42:00	10:45:00	taken from branching stem
			~~A4~~	~~stem~~		↓			↓	↓			

Weather: Overcast

Notes:

System Time: 9:49:00

Real Time: 9:30:00

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/19/2023

Personnel: AS + JP

Plot: BL60

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
115	Button Wood	Alive / Very low vigor / less than 10% foliage / insect damage boring through bark	C5	stem	25	0	20.5	25.3	80.2	23.0	12:24:30	12:27:30	12:00 PM
			B3	stem	65	↓	15.5	25.2	"	↓	12:37:30	12:40:30	
			B3	stem	100	↓	11.5	24.4	"	↓	12:48:00	12:51:00	
											12:24:30	12:27:30	

Weather:

Notes:

System Time: 9:49

Real Time: 9:30

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/18/2023 **Plot:** [illegible]

Personnel: Emily Anna Samuel **Analyzer:** ~~LGR~~ 3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	B	Dead 3	C5	stem	27	0	14.1cm	27.1°C	79.9°F	24.0°C	11:21:30	11:24:30	26.7°C water temp
			C5	stem	65	0	12.5cm	28.2°C	79.9°F	"	11:32:00	11:35:00	
			C5	stem	105	0	12.5cm	26.7°C	"	"	11:39:30	11:42:30	
			C5				22.6						
flagged but number faded	B	Dead 3	C5 A	stem 25cm		0	[illegible]	25.9	79.1	24.3	11:53 05	11:56 05	some green living bushes around
			C5	stem	62cm	0	18.9	[illegible]	27.7		11:59 47	12:02 47	
			C5	stem	92cm	0	19.2	26.8	83.1		1206 45	1209 45	

Weather: Sunny

Notes:

System Time: 10-49

Real Time: 10-30

Logging Frequency: 1s

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/[illegible]/18

Personnel: Anna + Sam

Plot: FLM 30

Analyzer: LGR 3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
none	B	Dead	C5	Stem	.15 cm	2 cm	22cm	25.9	84.1	23.3	10:25 40	10:28 40	
		3	C5	Stem	72cm	2cm	19.7	27.2			10:33 49	10:36 49	
			C5	Stem	102 cm	2cm	19.4	27.4			10:42 30	10:45 30	
WA	B	Dead	C5	Stem	17cm	2cm	21.1	30.7	79.1	24.8 (water temp 23.5)	10:55 30	10:58 30	
		3	C5	Stem	62cm	2cm	17.3	31.3	79.1		11:03 38	11:06 38	
			C5	Stem	96	2cm	17.3	34.2	84.3		11:12 00	11:15 00	

Weather: Sunny

Notes:

System Time: 10:49

Real Time: 10:30

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/18

Personnel: Emily + Sam

Plot: FLM30

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	B	Dead 3	A?	Stem	25	23	8.7	not working	838	Water 31.8	14:43	14:43	
NA	B	Dead 3	A?	Stem	9	8	6.4	not working	838	Water 30.9	14:45 40	14:48 40	

Weather: Sunny

Notes:

System Time: 10:49

Real Time: 10:30

Logging Frequency: 1sec

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/18 **Plot:** F1M30

Personnel: Sam + Emily Joh **Analyzer:** LGR 3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	CWD	Decay 3	A?	Stem	~~10~~ 0 cm	4cm	7.1cm		82.1	water temp 32.0	14:23 30	14:26 30	
										Ug water =			
A1	CWD	Decay 3	A?	Stem	8cm	6cm	4.6		81.6	23 soil = 27	31.5 ~~14:35:10~~ 14:32:10		14:35:10

Weather: Sunny

Notes:

System Time: 10:49

Real Time: 10:30

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/18 **Plot:** ELMBO

Personnel: Sawyer Emily **Analyzer:** LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	B	Dead 3	C5	Stem	20.2	1cm	15.9	30.2	84.9	25.8	13:30 50	13:30 50	area is flooded around 20cm water
			C5	stem	70	1cm	13.9	32.6			13:32 45	13:35 45	
			C5	stem	115	1cm	14.8	32.2			13:38 36	13:41 20	
NA	B	Dead 3	C5	stem	25	2cm	13.9	temp out not working	85.4	23.9	1351 50	1354 50	
			C5	stem	~~115~~	2cm	17.5				1355 08	1401 00	
			C5	stem	110	2cm	11.2				1407 35	1410 35	

Weather: Sunny

Notes:

System Time: 10:49

Real Time: 10:30

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/18
Personnel: Emily + Sam

Plot: FLM30
Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA	B	Dead 3	C5	Stem	12	3	16.8	27	85	25	12:17 00	12:20 00	
			C5	Stem	72	3	129	30.3	84.4	"	1228 00	1231 00	probably have holes, CO2 not str
			C5	stem	12	3	13.2	35.1	84.4	"	12:37 13	12:40 13	
NA	B	Dead 3	C5	Stem	55	1	13	26.4	81.6	25.2	12:56:00	12:59:30	
			C5	Stem	120	1	11.5	29	"	"	13:15:30	13:18:30	
			C5	Stem	12	1	23.4	31.2	"	"	13:05:00	13:08:00	

Weather: Sunny HOT
Notes:

System Time: 10:49
Real Time: 10:30
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 31/8/2023

Personnel: JG + JP

Plot: FLM30

Analyzer: LGR 2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C) F	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
tagged with yellow [illegible]	black	dead 3	B7	stem	15	9	39	29.9	79.1		105100	105400	possible termite infestation
			C2	stem	60	"	36.5	32.2	"		10:59:30	10 52 30	termite(?) cluster on ground temp = 24°C
			C2	stem	105	"	23	26.4	"		110830	111130	
			A5	stem	70	"	44.5	35.4	"		111800	11 2100	termite hole
tagged with yellow [illegible]	black	dead 3	B7	stem	25	15	12.5	31.1	79.1		113100	11 3400	
			B7	stem	65	"	11	4[illegible]3	"		11 36 30	11 3930	
				stem	116	"	11	33.2	"		114130	11 44 30	

Weather:

Notes:

System Time: 11:13

Real Time: 11:12

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 18-Mar-2023

Personnel: AS+JP

Plot: FLM30

Analyzer: L6R2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem (C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes (*Indicate height of root crown for red mangrove*)
[redacted]	Black Mangrove	Dead Decay Class 3	C2	stem	15	0	29	[redacted]	85.4	25.7	[redacted] 14:06:30	14:09:30	Real time 12:45pm
N/A			B7	stem	90	↓	16.5	45.6	↓	↓	13:53:15	13:56:15	
			B7	stem	130	↓	14	48.6	↓	↓	13:47:45	13:50:45	* Measured top to bottom
OWD			A4	stem (OWD)	0		9.5		85.1		[redacted] 14:23:30	14:26:30	Mostly Submerged

Weather:

Notes:

System Time:

Real Time:

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 18-Mar-2023 Plot: FLM30

Personnel: AS + JP Analyzer: L6R2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
N/A	Black Mangrove	Dead Decay class 3	A5	stem	20	5	19	28.1	81.6	25.9	12:48:00	12:51:00	12:50:00 real time
			A5	stem	60	↓	12	31.1	↓	↓	12:54:00	12:57:00	
			A5	stem	120	↓	11	29.6	↓	↓	13:00:30	13:03:30	
								MVB					
N/A	Black	Dead Decay class 3	C2	stem	20	2	21	28.8	84.9	25.4	13:18:30	13:21:30	Real time 1:20 PM
			B7	stem	75	↓	14	34.8		↓	13:29:30	13:32:30	
			B7	stem	115	↓		34.7		↓	13:39:45	13:36:45	

Weather: Sunny / some clouds

Notes:

System Time:

Real Time:

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 18-Mar-2023

Personnel: AS + JP

Plot: FLM30

Analyzer: LGR #32

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	(cm) Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
No tag	Black Mangrove	Dead Decay class 3	B7	stem	25	5	14	33.4	83.1	(termite) 24.9	~~11:57:00~~ 11:57:00	12:00:00	12:00:00 pm (real time)
			B7	stem	55	↓	12.5	28.9	↓	↓	12:02:30	12:05:30	
			B7	stem	85	↓	14.5	30.8	↓	↓	12:09:30	12:12:30	
No tag	Black Mangrove	Dead decay class 3	B7	stem	20	5	20	29.3	84.4	24.6	12:19:30	12:22:30	12:21:00 pm (real time)
			B7	stem	60	↓	19.5	27.7	↓	↓	12:26:00	12:29:00	
			B7	stem	100	↓	17.5	29.5	↓	↓	12:33:00	12:36:00	

Weather:

Notes:

System Time:

Real Time:

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/17/23

Personnel: JG+AS

Plot: SE1

Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NA2	RHMA	Live	LB	Leaves	/	/	/	/	81.1	/	105000	110000	
NA3	"	"	LB	Leaves	/	/	/	/	80.2	/	110900	111200	
NA4	"	"	"	"	/	/	/	/	82	/	111800	112100	
NA5	"	"	"	"	/	/	/	/	84	/	113300	113600	
NA6	"	"	"	"							114300	114600	
NA7	"	"	"	"									

Weather:

Notes:

System Time:

Real Time:

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/17/2023
Personnel: MZ + JP

Plot: SE1
Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
3	Red	Alive	HA	stem	95	7	3.7	76.6 (F)	81.1	21.7	11 14 30	11 21 30	
			HA	prop w/ root lenticels	24	"	2.4	27.8 (C)	"	"	11 46 15	11 49 15	
			HA	prop root w/ lenticels	20	"	2.8	23.4	84	"	11 54 00	11 57 00	
4	red	Alive	HA	stem	51	10	4.1	23.9	82.8	21.7	12 01 30	12 04 30	
			HA	prop root w/ lenticles	15	7	4.1	21.2	"	"	12 07 30	12 10 30	
			HA			0			"	"			

Weather:
Notes:

System Time: 10:45
Real Time: 10:27
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/17/23
Personnel: JG + AS + MZ + JP

Plot: SE1
Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	(cm) Height Above Ground	(cm) Water Height	(cm) Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mongrove)*
1	Red	Alive	Hollow HB	stem	80	15	3.5	23.3	79.8	20.3	09:58:00	10:01:00	top stem
			HB	root prop w/lenticles	20	↓	3.5	23.5	↓	↓	10:10:00	10:13:00	/
			HA	prop root	74	↓	2	22.9	↓	↓	10:30:30	10:37:30	
2	red	Alive	HA	stem	55	10	2.4	28.3	79.8	20.6	10 52 30	10 55 30	
			HA	stem	31	"	3.2	24.1	"	"	11 00 00	11 03 00	
			HA	prop root w/lenticles	25	"	2.7	25.6	"	"	11 07 00	11 10 00	

Weather:

System Time: 10:45
Real Time: 10:27

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/16 **Personnel:** Emily + Samuel

Plot: Bear **Analyzer:** FGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
	cwd		A6	stem		0		25.2		20.7			Leak in the trunk
												1	
lot	button wood	alive	A6	stem	33	0 cm (dry)	6.9	25.7	82.6	22.1	12=14 30	12=17 30	
			A6	stem	83	0	8	25.0	"	"	12=23 00	12=26 00	
			A6	stem	110	0 cm	8.11	26.2	"	"	12=52 17	12=55 17	

Weather: Sunny

Notes:

System Time: 12:10

Real Time: 12:09

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/16/2023
Personnel: Sam + JP

Plot: bear lake
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
109	red	dead 3	A4	stem	40	0	6.6	20.4	77.6°F	21.1	102600	102900	
			A1	stem	75	0	6.6	22.1	"	21.1	~~103230~~ ~~103600~~	~~103530~~ ~~103900~~	10:43:15 104615
			A1	stem	95	0	6.2	22.8	"	21.1	105100	105400	
105	? buttonwood	live	A1	stem	10	0	5.9cm	22.9	77.16°F	26.2	11:09:30	11:12:30	
			A1	stem	55	0	5cm	22.4	77.16°F	26.2	11:25:30	11:28:30	
			A1	stem	102	0	5cm	25.2	"	26.2	11:38:30	11:41:30	

Weather: Sunny

System Time: 10:36
Real Time: 10:35

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/16/2023

Personnel: Emily Samuel

Plot: Bear Lake

Analyzer: LGR 2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
103 (pink)	Red	Alive.	A6	stem	110 cm	0	9.5m	25.15°C	82.6°F	21.6°C	13:12:00	13:15:00	
			A6	Stem	52cm	0	7.9cm	26.5°C	"	"	13:37:40	13:40:40	
			A4	tap root	78cm	0	5cm	23.8°C	"	"	13:53:12	13:56:12	
			A4	lenticels X									
	Cwd	Dead 2	A4	Stem	30cm	0	9.5cm	34.8°C	83.0°F	24.0°C	14:49:00 → 14:52:00 (14:54:20 → 14:57:20)		Two recordings.
	Cwd	Dead 3	A4.	Stem	85cm	0	12.5cm	25.5°C	"	"	15:05:20	15:08:20	

Weather:

Notes:

System Time:

Real Time:

Adams/Gewirtzman – BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/15 **Personnel:** Mike, Sonnet

Plot: SCP **Analyzer:** LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
787	B	Dead	C2	Stem	13 cm	8cm	19.2	22.1	72	23	12:13 50	12:16 50	↓ (water too deep to get to soil)
			C2	Stem	58 cm	8cm	17.3	23.9			12:24 40	12:27 40	
			C2	Stem	108 cm		16.4	22.1			12:32 00	12:35 00	
799	B	dead	C0	Stem	9cm	9cm	24.8	22.6	72	23	12:48 55	12:51 55	Sed. building around base of tree
			C2	Stem	60cm	"	18.5	21.7			13:01 20	13:04 00	
			C2	Stem	110cm	"	18.0				13:10 52	13:13 52	

Weather: cloudy

Notes:

System Time: 12:58

Real Time: 12:58

Logging Frequency: 1 s

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-15-23 **Plot:** CP

Personnel: Mike + Samuel ~~Yosik~~ **Analyzer:** LGR 2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
811	B. mang. red	dead 3	C2	stem	13cm	0 cm (ou. a little rise that is exposed)	35.2	22.9	22.8	22.9	10 53 37	10 56 37	most of the area is flooded water around 15
			C2	stem	62cm	0cm	31.6	22.3			10 59 55	11 02 55	
			C2	stem	120cm	0 cm	27.1	24.7			11=16 00	11=19 00	Note = flux are not linearly increasing, possibly of to holes on tr
819	B mangrove	dead 3	C2	stem	17cm	0 cm	78.0	22.0		22.9	11=22 31	11=25 31	
			C2	stem	60 cm	0 cm	32.5	23.0			11=34 00	11=37 00	
			C2	stem	129cm	0cm	26.5	20.3			11 47 45	11 50 45	

Weather:

Notes:

System Time: 10 54

Real Time: 10 54

Logging Frequency: 1 sec

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/15 **Plot:** CP

Personnel: Mike + Samuel **Analyzer:** LGR 2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
800	coarse woody debris	Dead	C2	X dead fallen wood	123 cm	24 cm	21.5cm	23.1	71.9 F	water temp = 23.9	13:57 40	1400 40	
NO 5	CWD	dead 3	B5		54	16cm	10.6	24.5	71.9 F		14 10 40	1413 40	

Weather: **System Time:** 14:13

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/15/23

Personnel: Mike + Sarah

Plot: CP

Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
NO 3	UVD	dead 3	B5		6	20	11.5	25.7	71.9		14 27 93	1425 93	partially submerged loop at start
					~~30~~	~~10~~							to get real CO2 study increase
													CH4 erratic possibly due to negative
NO 10	Black	dead 3	C2	stem	30	10		21.0			1429 20	1441 20	
			C2	stem	78		23	22.9			1454 02	1457 02	
			C2	stem	123		21.7	22.7			1501 00	1504 00	

Weather:

System Time: 14:17

Real Time: 14:16

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-15-22

Personnel: Miles Samuel

Plot: C8

Analyzer: Lor 2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes (*Indicate height of root crown for red mangrove*)
No Tag	BM	dead	C2	Stem			23.2		72.5		1503	1513	~~tree~~ broken @ ~9 ft
			C0	Stem			19.5		11		1512	1525	
			C2	Stem			8.5						

System Time: 1502

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/15/2023

Personnel: JG + JP

Plot: CP

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Water Temp_~~soil~~ (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
		coarse woody debri	B2	CWD	70	22	19		72.5		151430	151730	
		CWD	B2	CWD	55	12	25		72.5		~~152230~~ 1538	~~152530~~ 1541	~~redo~~ redone

Water flux data on back

System Time: 15:13

water flux II

start time	end time	water temp
15:47	15:50	
16:16	16:19	

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/15
Personnel: JG + JP

Plot: CP
Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	~~Temp_soil~~ temp water (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
N/A	black	Alive	C5	~~base~~ stem	50	10	29	24		23	12:57	13:00	2 stems / split about 20 cm up
			C5		90	10cm	16			23	13:03:30	13:06:30	
			C5		120	10	15.25			23	13:12	13:15	
N/A	black	Alive	C5	~~base~~ stem	40	10	25			22.7	13:35	13:38	surrounded by many living pneumadiphors
			C5	stem	90	10	26			22.7	13:41	13:44	
			C5	stem	125	10	25			22.7	13:50	13:53	

Weather:
Notes:

System Time:
Real Time:
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/15/2023

Personnel: JG + JP

Plot: CP

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_water (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
790	black	dead 3	B2	stem	25	10	23		71.9	23.9	14:10	14:13	branches to 5 stems 790-794
			B2	stem	80	10	11.3		71.9	23.9	14:19	14:21	
			B2	stem	120	10	10		71.9	23.9	14:24	14:27	
	black	dead 3	A6	exposed base/ below stem	22	10	15		71.9	23.7	1445	1448	4 stems at base
			A6	stem	75	10	12		71.9	23.7	1453	1456	
			A6	stem	120	10	11.5		71.9	23.7	1501	1504	

Weather:

System Time: 15:04

Real Time: 14:46

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/15/2023

Personnel: JG + JP

Plot: CP

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
out of plot	black	Alive 2	CS	base stem	15		33		73.1		1551	1554	splits to 2 2 main dead stems
			CS	stem	75		26.5		"		1557	1600	~~120~~ small living branches & pneumatophores
			CS	stem	120		25		"		1605	1608	living bark

System Time:

Weather:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/13/23

Personnel: S.T. J.G.

Plot: SRS 5

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (F)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
681	White	Alive	C5	STEM	[illegible]	1cm	18.1	26.7	78	24.2	12:24 15	12:27 15	
			C5	STEM	20cm (Lenticels)	1cm	19.0	25.8			12:33 30	12:36 30	
			C5.	STEM	22	1cm	17.8	26.8			12:40 00	12:43 00	
outside plot	White	Live	D2	STEM	50	0	35.5	26.9	76	24	[illegible]	[illegible]	
"	"	"	A6	[illegible]	2.5	0	[illegible]	[illegible]	79	24.1	[illegible]	[illegible]	
"	"	"	D2	[illegible]	100	0	35	27	78.0	24.1	[illegible]	[illegible]	
[illegible]	ree	Live	A6	Lenticels	0.5	0	8	26	9.0	24.1	[illegible] 330	[illegible] 3530	
"	"	"	A6	Root with lenticels	2.5	0	20	[illegible] 4	80	24.1	[illegible]	[illegible]	
			B2	STEM	75	0	22	26	90	24.7	45 30	[illegible]	
2nd	Black	Live	B2	STEM	[illegible]	0	[illegible]	26.8	81	24.4	[illegible]	[illegible]	
			B2	STEM	40	0	[illegible]	27.1	81	24.4	14:03:00	14:05:00	

System Time:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/13/23
Personnel: [illegible]

Plot: [redacted] SRS
Analyzer: [illegible]

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
646	RHMA	Live	C5	Stem	[illegible]	0 (wet)	[illegible]	25.1	81F	24	104600	104900	75cm
			B2	stem	115cm	0	14	26.1			11:01 00	11:0? 32	
			B2	stem	[illegible]	0	15	26.1			11:?3 00	11:?? 30	
			B2	stem	25cm	0	15	26			11:?? 00	11:?? 00	
660	Red	Live	A6	tap root (lenticles)	3cm	0 (wet)	7.0	25.6	79.9	23.9	11:36 30	11:39 30	75
			C5	stem	55 cm	0	18.5	25.7			11:46 00	11:49 00	
			C5	stem	105 cm	0	18	26			11:51 00	11:54 00	
			C5	stem	145cm	0	17.5	26.5			11:57 00	12:00 00	
			A5	prop root	75cm	0	9.5	26.5			12:03 30	12:06 30	

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 2023/3/13
Personnel: Mike & Emily

Plot: SRS5
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
651	Red	Alive	B5	stem	55cm	0	9cm	24.5	79°F	24.0	10:39:19	10:42:19	R. crown 55 cm
			B5	stem	106cm	0	9cm	"	"	"	10:44:34	10:47:34	
			B5	stem	131cm	0	9cm	"	"	"	10:51:52	10:54:52	
			A5	tap root	5cm	0	10.8cm	"	"	"	11:02:07	11:05:47	exposed lenticels
652	Red	Alive	B5	stem	43cm	0	13.1cm	25.3	79.9°F	24.1	11:16:13	11:19:13	43cm
			B5	stem	93cm	0	11.5cm	25.8	"	"	11:23:37	11:26:37	
			B5	stem	142cm	0	11.2cm	25.7	"	"	11:29:44	11:32:44	
			B5	top root	120cm	0	12.0cm	25.2	"	"	11:36:00	11:39:00	
			A5	pnp root	11cm	0	7.2cm	25.1	"	"	11:46:05	11:49:05	

Weather:

System Time: 10:44
Real Time: 10:42

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-13-23

Personnel: Mike + Emily

Plot: SRS 5

Analyzer: LGR 2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
cwd	(1)	2	A5		25	~~25~~	6.4	27		11.2			forgot the time. cross off
			A5		22	0	8.1	28.2		11	12:44:30	12:46:30	
cwd		3	B5		30	0	9.2	26.4			~~12:49~~ 12:49	12:51	
													✓

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3-13-23
Personnel: Mike & Emily

Plot: SRS 5
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
cwd		3	A5		15cm	0	6.9cm	28.3	76°F	24.2	12:53:50	12:56:50	
cwd		3	B5		28cm		11.2cm	27.5	76°F	24	13:02:30	13:05:20	

Weather:
Notes:

System Time: 1304
Real Time: 1307

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: M.tc + Emily 3-13-23

Personnel:

Plot: SRS 5

Analyzer: LI-7

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
694	Bark	Alive	B5	Stem	green	0	19.5	25.5	30.8	24.1	12 03 01	12 06 01	twin trunk dead/see diagram
	green		B5	Stem	61 cm	0	10.4	25.4	1	"	12 14 28	12 14 28	
			B5	Stem	102 cm	0	10.2	25.3	1	"	12 16 21	12 21 21	
			B5	Stem	30 cm	0	8.5	25.9	"	"	12 26 46	12 29 46	
Dead	Dead		A5		13.5 cm	0	9.5	25.7			12 32 04	12 35 04	small piece

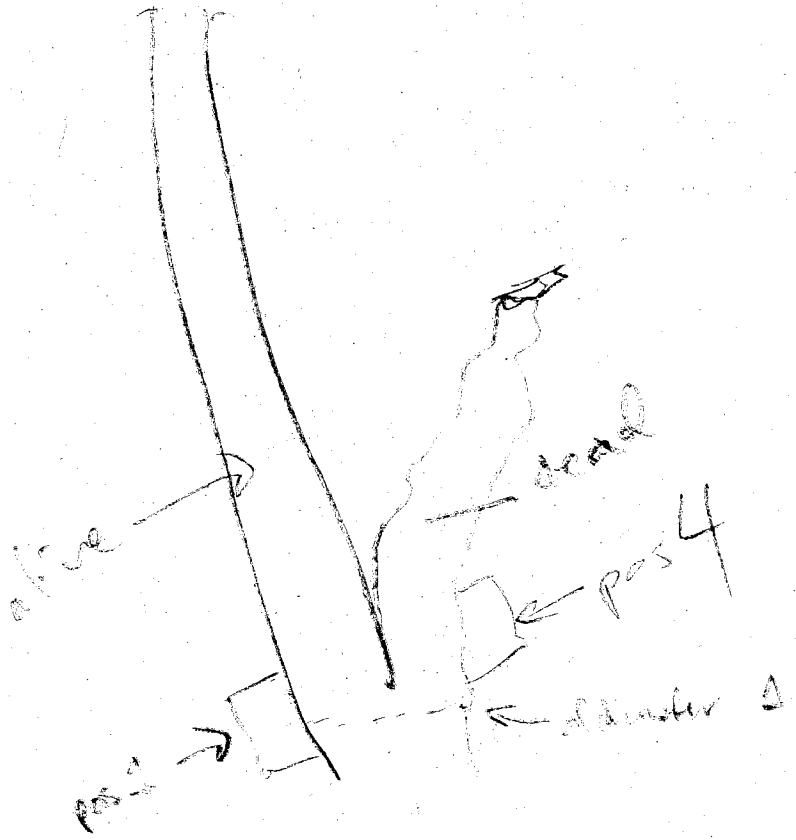
Weather: partly cloudy

Notes:

System Time: 12:04

Real Time: 12:05

Black Mayonnaise 6/4



Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-13-23
Personnel: Mike [illegible]

Plot: S5
Analyzer: [illegible]

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem (C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
		3	B5		14	12		27.7	26.7	24	1312 14	1312 14	On the ground, hollow, prob
													[illegible] during [illegible]
													side, could not
													measure diameter

Weather: [illegible] cloudy

System Time: 1311
Real Time: 1321
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-12-23

Personnel: Jon, Z, Mike

Plot: SRS 5

Analyzer: LGR 3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem (C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
			D1	stem	50	1.5	31	28.4	32.0	23.7	151300	151800	
			D2	stem	92		30	27.0			152100	152600	
			D3	stem	150		28.1	27.1			152800	153200	
			D2	stem	40		43	29.5	32	23.6	154021	154521	start 15:32:21 end 15:43:21
			D2	stem	115		40.4	27.8			154508		
			D2	stem	165		46	27.0			154908	155408	

Weather: SUNNY

System Time:

Real Time:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-12-23
Personnel: Mike & Sam

Plot: SRS 5
Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
B27	RM	Dead (2)	B2	Stem	140	9	13.5	19.8	29.5	25.5	[illegible] ←→	[illegible]	
			B2	Stem	110	↓	14.0	28.2	↓	↓	16 05 [illegible]	16 11 [illegible]	
			B2	Root ~~[illegible]~~	90	↓	11.0	27.9	↓	↓	16 16 00	16 19 00	

Weather:

System Time: 15:59:40
Real Time: 3:41

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/12
Personnel: Mike + Samuel
Plot: SRS5
Analyzer: ~~Mike~~ Samuel

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
533	Red Mangrove	Alive	B5	Stem	43cm	0	8cm	22.4	77.7	23.4	11:06:00	11:09:00	wet soil but just damp, no water height
			~~A5~~	stem	97cm	0	7.~~4~~	23.3	77.7	23.4	11:11:00	11:14:09	
			A5	stem	131	0	7	24	77.7	23.4	11:18:00	11:21:00	
			A5	TAP ROOT	20	0	10.4	>3	77.7	23.4	11:27:48	11:~~29~~ 30	lenticles
											11:42:40		
603	Red Mangrove	Alive	C2	stem	58cm	0	21.2	23.2	81.9	23.5	11:~~[illegible]~~	11:45:40	
			C2	stem	117cm	0	17.0	~~[illegible]~~ 24.1	81.9	23.5	11:56:30	11:~~59~~ 12:00	
			C2	stem	145cm	∅	16.~~8~~	24.6	11	11	12:19:35	12:15:35	
			A5	root	~~22~~cm	0	8.0	23.7	11	11	12:28:00	12:31:00	

Weather: Sunny
Notes:

System Time: ~~10:57~~ 11:07:37
Real Time: 11:06
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/12
Personnel: Mike & Kinsey

Plot: SBSS
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (F	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
604	Red	Alive	C2	Stem	37cm	0	17.1	24.1	84.2	23.5	12:42:35	12:45:35	
			C2	Stem	90cm	0	15.3	24.6	84.2	23.5	12:53:45	12:56:45	
			C2	Stem	120cm	0	14.5	25.3	84.2	23.5	13:07:15	13:10:15	
			A5	Root	10cm	0	8.3	24.1	84.2	23.5	13:16:45	13:19:45	
605	Red	Alive	B5	Stem	42cm	0	3.6	25.8	84.2	23.6	13:28:09	13:31:09	
			A5	Stem	78cm	0	9.4	26.4	84.2	23.6	13:38:57	13:41:57	
			A5	Stem	117cm	0	7.6	26.7	84.2	23.6	13:49:59	13:52:59	
			A5	Root	16cm	0	5.8	25.6	84.2	23.6	13:58:34	14:01:34	

Weather:
Notes:

System Time: 12:34
Real Time: 12:33
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-12-23

Personnel: Samuel + Kinsey

Plot: SRS 5

Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticeis?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air ~~(F~~ F	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
619	Red	Alive	A5	Stem	82cm	2cm	10	27.3	83	23.7	14:35:40	14:38:40	water above soil
			A5	stem	128cm	3cm	9.5	27.2	83	23.7	14:45:40	14:48:40	
			A5	stem	168cm	5cm	10.5	27.3	83	23.7	14:54:20	14:57:20	
			A5	Root	50cm	6cm	6	27.2	83	23.7	15:04:10	15:07:10	
618	Red	Alive	B5	Stem	68cm	6cm	14.5	26.5	83	23.5	15:21:20	15:24:20	water above soil
			B5	Stem	125cm	7.5cm	13.5	26.8	83	23.5	15:29:50	15:32:50	
			B5	Stem	166cm	8cm	13.1	27.2	83	23.5	15:37:30	15:40:00	
			A5	Root	43cm	9cm	9.4	26.2	83	23.5	15:50:45	15:53:45	
			A5	Root	25cm	10cm	5	26.3	83	23.5	16:03:30	16:06:30	thin root near ground

Weather:

Notes:

System Time: 14:59

Real Time: 14:58

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3-11-2023
Personnel: JG, KB

Plot: SRSG
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
CWD1	Red?	Dead, class 3	C2	CWD	~~73~~cm	28 cm	19cm	30.0	78.4°F	25.9	14:07:00	14:10:00	
CWD3	Black	Dead, class 3	BS	CWD	60cm	31cm	11.5cm	27.0	79°F	25.8	14:31:00	14:34:00	
CWD4	White	Dead, class 3	BS	CWD	20cm	25cm	~~18~~cm	32.0	78.6°F	25.9	14:40:00	14:43:00	
CWD5	Red	Dead, class 2	BS	CWD	>5cm	22cm	10cm	25.5	75.5°F	25.9	14:54:00	14:57:00	
~~210~~	~~Red~~	~~Alive~~	~~BS~~	~~Stem~~				~~26~~			~~15:05:00~~	~~15:08:00~~	
CWD2	Red	Dead, class 2	BS	CWD	45cm	30cm	15cm	33.0	76°F	25.9	14:21:00	14:24:00	
210	Red	Alive	BS	Stem	110cm	30cm	15.5cm	26.0	75.4°F	26	15:05	15:08	height of root crown above ground: 80cm
			BS	Stem	60cm	30cm	15.5cm	26.0	75.4°F	26	15:11:00	15:13:45	
			BS	Stem	160cm	30cm	15.5cm	26.2	75.4°F	26	15:15:00	15:18:00	

Weather:

System Time: 14:15
Real Time: 14:14

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3-11-2023
Personnel: SG, KB

Plot: SBS 6
Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
226	Black	Alive	BS	Stem	45cm	32cm	17cm	25.2	75.4°F	26.1	15:25:00	15:28:00	
			BS	Stem	95cm	32cm	17cm	25.7	75.4°F	26.1	15:31:00	15:34:00	
			BS	stem	145cm	32cm	17cm	26.0	75.4°F	26.1	15:36:30	15:39:30	
untagged	White	Alive	BS	stem	45cm	35cm	17cm	25.3	75.5°F	26.2	15:50:30	15:53:30	
			BS	stem	95cm	35cm	16cm	26	75.5°F	26.2	15:56:00	15:59:00	
			BS	stem	145cm	35cm	15.5cm	26	75.5°F	26.2	16:02:00	16:05:00	
untagged roadside plot	Black	Alive	C2	stem	50cm	35cm	31.5cm	25.1	73.5°F	26.2	16:10:00	16:13:00	
			C2	stem	100cm	35cm	31.cm	25.7	73.5°F	26.2	16:15:00	16:18:00	
			C2	stem	150cm	35cm	30cm	26	73.5°F	26.2	16:20:15	16:23:15	

water flux BU by boardwalk 16:31 - 16:34 water depth 55cm

System Time: 15:31

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-11-23

Personnel: Mike & [illegible]

Plot: [illegible]

Analyzer: [illegible]

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
No ID	W. Mangrove	Alive	D2	Stem	[illegible]	20	22.3	25.6	14.5	26.?	[illegible] 36	[illegible] 36	
			D8	Stem	[illegible]	"	20.0	26.0	"	26.6	[illegible] 37	[illegible] 37	[illegible]
			D2	Stem	14 cm	"	25.5	26.5	"	26.4	15:52:45	15:55:45	

System Time: 5 min [illegible]

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3-11-23

Personnel: Mike Adams

Plot: 2R5b

Analyzer: LGR 3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
280	Black Mangrove	Alive	C5	stem	21cm	\	20.5	24.8	80°F	24.1	11:54:30	11:57:30	Low tide no water
			C5	stem	6 1cm	\	21.0	25.2	"	"	12:08:15	n/a	15
			C5	stem	95cm	\	21.2	26.1	"	"	12:23:30	12:26:30	
											2:39:30	~~2:42:30~~	
282	Red Mangrove	Alive	C4	stem	66cm	\	19.1	26.7	83.9	24.10	12:39:30	12:42:30	Low tide No water 30 cm
			C3	stem	96cm	\	15.4	26.2	"	"	12:51:30	12:54:30	
			B2	stem	130cm	\	15.7	26.5	"	"	13:04:00	13:07:00	
			A1	Root coil	53cm	\	5.3	26.3	"	"	13:31:30	13:34:30	chamber lost hole ... flag w/ coil

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 11-23

Personnel: Mike & Emily

Plot: SRS6

Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
			C4			3cm	13.5cm	25.6		25	14:05:30	14:08:30	tide rising
			C3	stem	60cm	7cm	12.5cm	26.8			14:16:00	14:19:00	
			B1	stem	98cm	7cm	12.3cm	27.0			14:27:30	14:30:30	
			D2	stem	17cm	12cm	38.8cm	25.6		25.5	14:42	14:50:30	tide rising
			D2	stem	68cm	12cm	13.2cm	26.0		26	14:59:30	15:02:30	
			D2	stem	108cm	22cm	21.5cm	26.3		26	15:12:45	15:15:45	

Weather:

System Time:

Real Time:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 20231311O **Personnel:** IG, MZ

Plot: SRS6 **Analyzer:** LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
503	Red mangroves	Alive	C2	stem	80cm	15cm	39.5	27	86.3°F	25.8	14:20	14:23	Temp_soil is the temp of the water, 80cm
			C2	stem	130cm	15cm	38.5	27.1	"	"	14:39:00	14:42:30	
			C2	stem	180cm	15cm	34.5	26.6	"	"	14:46:00	14:49:00	
			B5	Root	60cm	"	8.5	28.9	"	"	15:00:00	15:03:00	
501	Red	Alive	C2	stem	85cm	22cm	26.5	27.9	83°F	26.4	15:16:15	15:19:15	85cm
			C2	stem	135cm	"	25	27.6	"	"	15:25:00	15:28:00	
			C2	stem	185cm	"	25	27.5	"	"	15:32:00	15:35:00	
			B5	Root	60cm	"	11.5	28.8	"	"	15:44:00	15:47:00	

System Time: 14:19

Bring floating chamber

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 2023/3/10

Personnel: JG, MZ

Plot: SRS6

Analyzer: LGR3

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
509	red	Dead Decay class 1	B5	stem	80cm	30cm	15	27.5	83°F	26.3	16:02:00	16:05:00	may not be well sealed
			B5	stem	130cm	11	13	27.9	〃	〃	16:9:30	16:12:30	
			B5	stem	180cm	〃	12	27.5	〃	〃	16:19:00	16:22:00	first two measurements on loose bark, 9&15 one on bark wiped (bark flaked off)
			B5	tap root	40 cm	〃	10.5	25.5	〃	〃	16:27:00	16:30:00	
			A4	prop root	70 cm	〃	7.5	27.3	〃	〃	16:33:30	16:36:30	

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/10

Personnel: Samuel, Mike

Plot: SRS 6

Analyzer: LGR2

Tree ID	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
SRS	White Mangrove	Dead 1	D2	Stem	58 ~~52~~	36cm	27.1	25.9	83F	26.3 (water temp)	16:~~09~~08:28	16:11:28	Tree was dead probably porous. (CO2 flux was not linear.
			D2	stem	116	36cm	26.4	27	83F	26.3 (water)	16:21 =10	16:24 =10	

sunny

System Time: 16:14:24

Real Time: ~~16:13~~ 4:14 pm

Adams/Gewirtzman - BLUEFLUX Tree Methane
Tree Flux Data

Date: 3/10 /2023
Personnel: Samuel · Mike

Plot: SR86
Analyzer: LGR 2

D	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes *(Indicate height of root crown for red mangrove)*
506	Red	Alive	C3	Stem	83cm	11 cm	21.7	30.0	86.3F	25°C	14:19 49	14:22 49	water over soil
				Stem	124cm	11cm	20.6	27.8	86.3F	25°C	14:30 39	14:33 39	
				Stem	156cm	11cm	21.5	28.7	86.3F	25°C	14:44: 06	14:47 32	
			B3	Root	19cm	11cm	11.16	28.3	86.3	25°C	14:57 59	15:00: 57	
							34.1			26.4 (water temp)			
505	white	Decay 1	D2	stem	49	32cm		28.1	83F	15:00:00 15:20:00	15:23:00		
			D2	stem	94	32cm	30.1	27.9	83F	15:36:20	15:39:20		
			D2	stem	139	32cm	28.5		83F	15:48 :40	15:51 40		

Weather: sunney

System Time: 16=14:24
Real Time: 4=14

Adams/Gewirtzman - BLUEFLUX Tree Methane

Tree Flux Data

Date: 3/10/2023 **Personnel:** Samuel · Mike **Plot:** SRS6 **Analyzer:** LGR 2

:D	Tree Species	Alive/Dead & Decay Class	Chamber ID	Tree Component (Stem/Root/Pn; Lenticels?)	Height Above Ground	Water Height	Tree Diameter	Temp_stem .(C)	Temp_air (C)	Temp_soil (C)	Flux Start Time (System)	Flux End Time (System)	Notes (*Indicate height of root crown fo red mangrove*)
506	Red	Alive	C3	stem	83cm	11 cm	21.7	30.0	86.3F	25°C	14:19 49	14:22 49	water over soil
			↓	stem	124cm	11cm	20.6	27.8	86.3F	25°C	14:30 39	14:33 39	
			↓	stem	156cm	11cm	21.5	28.7	86.3F	25°C	14:44: 26	14:47 32	
			B3	Root	14cm	11cm	11.6	28.3	86.3	25°C	14:57 59	15:00: 57	
505	white	Decay 1	D2	stem	49	32cm	34.1	28.1	83F	26.4 (water temp)	15:00 15:20:00	15:23:00	
			D2	stem	94	32cm	30.1	27.9	83F		15:36:20	15:39:20	
			D2	stem	139	32cm	28.5		83F	15:48 :40	15:51 40		

Weather: Sunney **System Time:** 16:14:24