Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

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

temp pressure RH

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	start stop	Notes	
BL60	11	pneumatophore =0	LGR3	3ft	22.1	0	15 15 00	15 18 00	28.2	1021.5	47.5
BL60	12	=0	LGR3	3ft		0	15:25 00	15 28 00	NA	NA	NA

Weather:

Notes:

System Time: 12:50
Real Time: 12:31
Logging Frequency: 1 sec

ams/Gewirtzman - BLUEFLUX Tree Methane
l Flux Data

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

Bear Lake

t	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (ºC)	Water depth	Flux Start Time (System)	Flux End Time (System)	Temp start / end	Press start / end	RH start / end	Notes
0L60	1	pneumat o plates = 0	LGR3	2ft	20.6	0	123600	123900	[illegible]	[illegible]	0	
BL60	2	pneumat plates = 6	LGR3	2ft	20.8	0	12:51:30	12:54:30	25.4 25.4	1022.7 1022.8	66.5 69.8	
BL60	3	=0	LGR3	2ft	21.2	0	13 01 00	13 04 00	25.6 25.7	1022.7 1022.6	64.5 67.8	
BL60	4	=5	LGR3	2ft	21.9	0	131500	131800	27	1022.7	66.4	
BL60	5	=0	LGR3	2ft	21.9	0	132330	132630	27.4 27.6	1022.6 1022.6	63.8 64.2	
BL60	6	=9	LGR3	3ft	21.8	0	140000	140700	N/A	N/A	N/A	
BL60	7	=0	LGR3	3ft	21.9	0	141530	141830	30.2 30.7	1022.1 1022.0	46 47.1	
BL60	8	=19	LGR3	3ft	21.7	0	142300	142600	30.1 30.1	1021.9 1021.9	46.4 46.9	
BL60	9	=3	LGR3	3ft	21.6	0	1451	1454	29.9 30.0	1021.6 1021.7	53.6 55	
BL60	10	=7	LGR3	3ft	21.6	0	150200	150500	28.9	1021.6	46.	

eather: sunny low 80's light breeze

tes:

System Time: 12:50
Real Time: 12:31
Logging Frequency: 1 sec

ms/Gewirtzman - BLUEFLUX Tree Methane

Date: 8/15/23

Personnel: JG JP

Flux Data

water

	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
P40	Water 1		LGR3	floating 8"	water = 23.7		maybe earlier? 110000	111580	can be a long time
"	Water 2		"	"	23.7		112000	112500	
"	water 3		"	"	23.7		11:31	11:35	plot center ebullition possible due to sediment disruption
	water 4		"	"			11:40	11:45	
	water 5		"	"			11:48:30	11:53:30	
	water 6						12:00	12:05	
	Water 7						12:01	12:16	23.4°C water temp
	water 8						12:20	~~12:25~~ 12:21:45	
	water 9						12:24	12:27	
	water 10						12:30:30	12:33:30	

ther:

System Time: 1123

Real Time: 1104

ams/Gewirtzman - BLUEFLUX Tree Methane
ee Flux Data

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

Plot: SRS 5
Analyzer: LGR 3

ree pecies	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)*
white mangrove	alive	D2	stem	50	1.5	31	26.4	80.0	23.7	151300	151800	
		D2	stem	92	↓	30	27.0	↓	↓	152100	152600	
		D2	stem	150	↓	28.1	27.1	↓	↓	152800	153200	
black mangrove	alive	D2	stem	40	5	43	29.5	82	23.6	153821	154321	start 153321 end 154321
		D2	stem	115	↓	40.4	27.8	↓	↓	154508	154908	
		D2	stem	165	↓	42	29.0	↓	↓	154900	155400	

SUNNY

System Time: 15:33:20

Adams/Gewirtzman - BLUEFLUX Tree Methane

Soil Flux Data

Date: 3/12/13

Personnel: JG

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	site Temp	site Pres	site RH	Notes
SRS5	12	pneu n=20	LGR3	2ft Soil	23.3	0.5cm	130330	130530	~~26.9~~	~~1014.7~~	~~70.2~~	
	13	pneu n=11	"	"	24.8	1cm	130900	131100	26.7 27.0	1014.8 1015.2	71.8 77.0	
	14	pneu n=3	"	"	23.5	0cm	131530	131730	26.6 26.8	1015.1 1015.3	72.3 75.4	
	15	bare	"	"	23.1	2cm	132530	132730	27.2 27.3	1015.8 1015.4	70.6 73.5	
	16	bare tree 340	"	"	23.4	0cm	134100	134300	27.2 27.3	1015.0 1015.0	69.3 73.8	
	water 1	Shark River off pier	"	8" Water	water temp 25.6	river	135330	140330	windy 7mph gusts			
	water 2	"	"	"	"	river	141300	141800				1.97 2.03 445-521 1.96 1.98 439-487 430-514 1.96
	water 3	inland side of pier near mangrove roots	"	"	"	10cm	142400	142900				
	water 4	inland river	"	"	25.7	12cm	143400	143900				
	water 5	inland, ~~river~~ mid-plot	"	"	25.5	6cm	144800	145300				

Weather: [illegible] windy on inland side; [illegible] mangrove. [illegible] mud?

System Time: 1454

Gewirtzman - BLUEFLUX Tree Methane
Data

Date: 31/2/23
Personnel: JG

	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes (T / P / RH)
55	1 bare	near river/ dock	LGR3	2cm soil	23.4	0cm	112000	112300	24.9 / 1016.0 / 65.5 24.7 / 1016.1 / 68
"	2 bare	inland	"	"	23.8	"	113080	113280	24.4 / 1016.1 / 68.2 24.5 / 1016.1 / 73.8
	3 bare	transect ↓	"	"	23.5	"	113600	11380	maybe melted up?
	4 bare	↓	"	"	23.7	0	115200	115400	~~25.1 / 1016.2 / 68.6~~
	5 bare	by tree 666	"	"	23.5	0	120200	120500	25.1 / 1016.2 / 68.6 25.4 / 1016.2 / 74.9
	6	by 619 pneum = n=1	"	"	23.5	0	121100	121300	25.2 / 1015.8 / 73.3 25.4 / 1015.9 / 75.5
	7	pneu = 4	~~LGR3~~ small, may be dead "	"	23.5	0	121900	122100	25.4 / 1016.0 / 70.4 25.8 / 1015.9 / 78.2
	8	pneu = 5 by tree 113	"	"	23.6	0	122630	122830	25.9 / 1016.0 / 75.2 26.6 / 1016.0 / 78.5
	9	bare	"	"	23.5	0	123600	123800	27.0 / 1017.3 / 74.9 27.7 / 1016.9 / 78.5
	10	behind plot, black marsh soil dendro wood	pneu: 7 "	"	23.5	1cm	124600	124800	26.8 / 1015.3 / 69.8 27.0 / 1015.3 / 73.4
	11	pneu = 5	"	"	23.4	1cm	125400	125600	27.4 / 1016.4 / 72.6 28.7 / 1016.6 / 76.5

System Time: 112

ewirtzman - BLUEFLUX Tree Methane

Date: JG 3/11/23
Personnel:

Data -Water-air Plot

	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (ºC)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
	W1	Boardwalk center	LGR 2	Floating 8 inch	25.6	20cm	13:16:00	13:21:00	ebulition seems limited here,
	W2	by pier, 1560	LGR 2	"	25.6	20	13:31	13:37	No visible bubbles once tide has come in a bit.
	W3	Tree 607 down boardwalk from tower	"	"	25.7	10	13:45	13:50	Flushing of porewater maybe prevents high buildup?

System Time:

ewirtzman - BLUEFLUX Tree Methane
Data

Date: 3/11/23
Personnel: JDG

	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes		
	1	bare	LGR2	2ft	24.5	0	11:31:00	11:35:00	start AT end AT	start RH and RH end	~~START~~ Pressure ~~end~~ Pressure
	2	bare	"	"	~~25~~.2	0	11:47	11:44			
	3	bare	"	"	25.2	0	11:52:30	11:54:30	87.2 87.2	61.9 69.5	29.98 29.98
	4	~~pneumatophore~~ n=13	"	"	24.3	0	11:59:30	12:01:30	84.2 83.7	61.5 67.5	29.98 29.98
	5	pneumat n=9 +1 seedling	"	"	24.1	0	12:08:00	12:10:00	81.4 81.1	69.6 73.2	29.98 29.98
	6	pneu n=7	"	"	24.0	0	12:13:00	12:15:00	80.9 80.9	71.5 75.2	29.98 29.98
	7	pneu n=~~17~~	"	"	24.3	0	12:20:00	12:22:00	81.8 82.5	76.9 81.3	29.98 29.98
	8	pneu n=7	"	"	24.0	0	12:25:01	12:27:00	81.3 81.0	74.4 77.5	29.98 29.98
	9	bare	"	"	23.8	0	~~12:32:30~~ ~~12:34:00~~ 12:34:00	~~12:34:30~~ ~~12:36:00~~ 12:36:00	80.0 79.9	71.8 ~~77.2~~ 74.2	29.98 ~~29.97~~ 29.98
	10	bare	"	"	23.9	0	12:44:00	12:46:00	~~79.8~~ 79.2	74.0 77.0	29.97 29.97

rny, dry, Cow tide

System Time: 11:38

Gewirtzman - BLUEFLUX Tree Methane
Data

Date: 3/17/22
Personnel: JG

	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
1	1	open water	LGR2	8" cloating	20.6	15cm	092100	102100	
1	leaf 1	RHMA	LGR2	Leaf B			103200	103500	

9:03

Adams/Gewirtzman - BLUEFLUX Tree Methane

Soil Flux Data

Date: 20-Mar-2023

Personnel: JG + AS

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (ºC)	Water depth	Flux Start Time (System)	Flux (Syst
MI	biocrust 100% 11	1	LGR3	2ft soil	22.3	0	13:25:00	13:
	biocrust 12	2 25°55.9122 81° 39.6997		2ft soil	21.3	0	13:31:00	13
	biocrust 13	25°55.9159 81° 39.7010			22.0	0	13:36:30	13
	wetted surface 14 0.1m water depth	25°55.9119 81° 39.6905			23.4	0	13:43:00	13
	dry no crust bio 15	25°55.9100 81° 39.6948			21.0	0	13:50:00	13
	bio crust 16	25°55.9111 81° 39.6942			23.5	0.2	13:55:00	13
	75% biocrust 17	25°55.9085 81°39.6997			21.9	0	14:00:30	14
	20% biocrust 18	25°55.9050 81°39.7044			21.7	0	14:06:00	14
	50% biocrust 19	25°55.9037 81°39.7116			21.7	0	14:11:00	14
	10% biocrust 10	25°55.9032 81°39.7103			21.9	0	14:16:00	14
	5% biocrust	25°55.9010 81° 39.7161			21.2	0	14:21:30	14

84°F

Weather: Sunny

Notes:

System Time: 13:25

Real Time: 13:06

Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Soil Flux Data

Date: 3/14/2023

Personnel: JG

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (ºC)	Water depth	Flux Start Time (System)	Flux End Time (System)	~~Water~~ Notes
FLM30		1	LGR1	8" floating chamber		20	11 03 00	11	water temp = 25.6
severed unmarked			flues - check data file						
"			LGR1	"	26.1		124700	125000	water temp 30.0
			"	"		2	125500	125800	very shallow lake - nesting almost on sediment
			"	"		17	130100	130400	30.5
			"	"		25	130500	130800	30.7
			"	"		21	131200	131500	30.1
			"	"		12	132100	132400	near red maple root (dead) 31.4
			"	"		20	132700	133000	31.3
			"	"		27	133600	140600	32.9
						27	140900	141900	33.4
						27	1424	143900	34.1

Weather:

Notes:

System Time: 11:03

Real Time: 10:33

Logging Frequency: 1sec