

## Adams/Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date:  
Personnel:

10/24/2022

Mike + Cheryl

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	Temp_stem (C) °F	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
CP40	CM4	Ag (black)	live	LGR2	C4	0	28.7	82.8	25.5	—	12:20:51	12:23:57	0@ 33cm(mid chamber) 10 cm water depth
						50	15.7	82.3	27.6	—	12:32:34	12:35:40	Live tree is split @ ~40-50cm/ samples from
						100	15.0	83.4	30.8	—	12:45:07	12:48:10	
CP 40	CM5	Ag (black)	2	LGR2	C4	0	20.8	92.1	86.9	—	13:07:45	13:10:45	70 is 21cm above water high ppm likely due to disturbance around tree
						50	20.5	89.6		—	13:14:20	13:14:27	water depth: 5 cm
						100	19.2	91.9		—	13:20:15	13:23:15	

Weather:  
Notes:

Mostly sunny, hot

System Time: 12:33:49  
Real Time: 11:52  
Logging Frequency: 15

## Adams/Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date: 10/24/2022  
 Personnel: Mike & Cheryl

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes	
CP40	MC2	Rn (red)	2	LGR2	B5	0	7.5	81.7 °F	28.2	-	10:55:00 11:10:44	11:13:53	0 @ top prop root/tree v. porous - CO <sub>2</sub> test barely pass  scrapping tree - no good seal	
						50			29.3					
						100								
CP40	MC3	Ag (black)	2	LGR2	C4	0	16.8	81.9	28.6	-	11:35:09	11:38:37	depth water = 10 cm 0 @ 7 cm above water (mid chamber)	
						C4	50	18.4	90.8	29.3	-	11:44:37	11:50:26	*times somewhat iffy
						B5	100	14.8	81.6	29.1	-	12:02: 30	12:06:12	-start time could be 30s

Weather: clear, hot, few clouds  
 Notes: standing water

System Time: 12:00:59  
 Real Time: 11:19  
 Logging Frequency: 1s

Adams/Gewirtzman - BLUEFLUX Tree Methane  
Tree Flux Data

Date:  
Personnel:

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
BL cut various 3			3										

Weather:  
Notes:

5 hwy + 3 m  
duds - 1 seal  
3 awd

System Time:  
Real Time:  
Logging Frequency:

# Adams/Gewirtzman - BLUEFLUX Tree Methane Tree Flux Data

Date:  
Personnel:

Weather: sunny, clear  
Notes: undated

System Time: 17:34  
Real Time: 4:53  
Logging Frequency: 1s

## Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date: 10/26/2022

Personnel:

Jon, Jessie, Cheryl

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measurement Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
Long pine key pine	long slash pine	Alive	LGR2	C3	57	23.7	32.8	31.2	25.1	13:46:00	13:49:00	Some evidence of fire damage $O = 57\text{cm}$	
					0	26.6	31.4			13:52:00	13:55:00	$O = \sim 27\text{cm}$	
					97	23.2	33.3			14:01:00	14:04:00		
Mahogany Hemlock	Mahogany	Alive	LGR2	D1	0	68.3	25.7	27.6	24.4	15:18:00	15:21:00	-highest flux eva! -25cm from soil	
					1	50	64.0	26.1		15:23:30	15:26:30	-not a lot of flux -75cm from soil	
					1	100	62.1	26.6		15:31:00	15:34:00	-155cm from soil	

Weather:  
Notes:

sunny, breezy

System Time: 13:46  
Real Time: 1:06  
Logging Frequency: 15

# Ans/Gewirtzman - BLUEFLUX Tree Methane Tree Flux Data

Date.  
Personnel:

10/25/2022

Jessie & David

System Time: 14:51  
Real Time: 2:39  
Logging Frequency:

Date: 10/25/2022

Personnel:

Jessie &amp; Dari

## Tree Flux Data

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measurement Position	Tree Diameter cm	(F) Temp_stem (C)	(C) Temp_air (C)	(C) Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
bear lake Red mangrove NA	Red mangrove	Alive		LGR3	A3	0	4.9	75.4	24.9		10:52:45	10:55	14cm water base yes 50 46cm water to chamber
				LGR3	A3	40	3.5	78.5			10:02:30	11:05:30	<del>14cm water base yes 50</del> too deep for soil temp
bear lake Red mangrove	Red mangrove	Alive		LGR3	B4	0	8.9	85.0	23.0	23.9	11:24:10	11:27:10	not currently in water 0 = 23 cm
				LGR3	B4	50	9.2	81.9			11:40:15	11:43:15	soft shut down before flux at 50
				LGR3	B4	100	9.4	83.0			11:47:30	11:50:30	

Weather: sunny,

10:53  
 System Time:  
 Real Time: 10:41  
 Logging Frequency: 15

Date: 10/25/2022

Personnel:

Jessie &amp; Davi

## Tree Flux Data

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	(C) Temp_stem (C)	(C) Temp_air (C)	(C) Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
bear lake		connicarpus	Alive	LGR3	B4	0	8.7	81.2	22.9	24.3	11:59:00	12:02:00	0=45cm
				LGR3	B4	55	8.3	81.6			12:06:43	12:09:43	
				LGR3	B4	100	8.9	81.8			12:15:30	12:15:30	ant in chamber lot
											12:20:00	12:23:00	REF DO!
											:50	:50	
bear lake		coarse woody debris	alive	LGR3	Alo	0	7.7	93.3	28.8	N/A	12:39:00	12:42:00	downed coarse woody debris ~30° angle from ground
		COARSE woody debris		LGR3			6.6			24.6			
		coarse woody debris		LGR3	B4	/	11.0	73.1	28.3	N/A	12:51:00	12:54:00	downed

System Time: 11:54:50  
 Real Time: 11:43  
 Logging Frequency: 1s

# Adams/Gewirtzman - BLUEFLUX Tree Methane Water Property Data

Date: 10-23-22  
Personnel: Jon, Mike, Cheryly

(Gulfide)

Weather: Sunny, hot  
Notes:

System Time:  
Real Time:  
Logging Frequency:

## Adams/Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date: 10/24/22

Personnel:

DB + ST

(David + Samuel)

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure-ment Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
CP40	DASA1 85cm 1	black mangrove	2	LGR3	C3	0	39.5	26.9	26.6	NA	10:39:00 10:40:00	10:40:00 10:41:00	Water depth 4.5 cm 0 was 11cm from water
				↓	50	50	43.0	27.5	26.6	NA	11:01:00	11:04:00	
				↓	100	100	24.5	28.6	26.6	NA	11:16:30	11:19:30	
CP40	868 1	black mangrove		LGR3	C3	0	35.7	27.0	23.4	NA	11:50:00	11:53:00	Water depth 7 cm 0 was 25cm above water
				↓	50	50	25.5	29.0	23.4	NA	11:58:30	12:01:30	
				↓	100	100	24.7	28.7	23.4	NA	12:58:00	12:59:00	
CP40	DASA2 alive 35cm 1	black mangrove		LGR3	D1	0	25.3	27.5	29.3	NA	12:36:00	12:39:00	
				↓	D1	50	24.5	28.2	29.3	NA	12:50:00	12:53:00	
				↓	C3	100	24.5	29.3	29.3	NA	13:04:00	13:07:00	Water depth 12.5 m 0 was 35 cm above water
CP40	CWD DATA 1	?	3	LGR3	A5	NA	6.3	41.0	29.7		13:21:30	13:27:00	

System Time: 11:50  
 Real Time: 11:38  
 Logging Frequency:

Weather:  
 Notes:

## Adams/Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date: 10-24-22

Personnel:

Mike + J.

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
CP 40	cud red mangrove	3		LGR 2	B5	/	10.5	92.2	25.3	—	13:29 15	13:32 15	
										—	13:36 14		
CP 40	cud unknown	3		LGR 2	B5	/				—	13:36 14		wood in tree fixatives in interfacial reac-
				II	II	/	9.0		25.1	—	13:42 00	13:45 00	

Weather:  
Notes:

mostly sunny, wet

System Time: 13:38  
Real Time: 12:59  
Logging Frequency: 16

# Adams/Gewirtzman - BLUEFLUX Tree Methane Tree Flux Data

Date: \_\_\_\_\_  
Personnel: \_\_\_\_\_

10-25-22

Mike + Cheryl

Weather:  
Notes:

Sunny, clear

System Time: 13:06  
Real Time: 12:36  
Logging Frequency:



## Tree Flux Data

Date: 10-25-22  
 Personnel: Mike + Cheryl

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
BL	CM3	Coni- corpus	live	LGR1	C4	O	20.3	25.1	26.9	23.4	11:55:00	11:58:05	-tree bark has holes from insects/birds -soil to O center = 24 cm
					C4	SD	15.5	25.3			12:03:45	12:07:12	
					B6	100	13.7	25.5			12:12:30	12:15:48	
BL	CM4	Coni- corpus	Dead (3)	LGR1	B6	O	8.9	24.8	27.9	23.1	12:23:00	12:26:16	-Decomposing, fungi present, very flakey -O center = 15 cm from soil
					A4	50	7.7	27.5			12:33:45	12:36:45	
					A4	100	7.1	27.8			12:44:00	12:48:05	

Weather: sunny, clear

System Time: 12:06  
 Real Time: 11:42  
 Logging Frequency: 15

Notes:

## Adams/Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date: 10-25-22  
Personnel: Mike + Cheryl

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measurement Position	Tree Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
B1	CM1	WW		GRY	AH	Ø	6.5	24.5	24.9	23.3	10:44	10:46	center of chamber is 1.7 cm above soil (possible leak)
						Ø	11	11	11	11	10:50	10:53	
					AH	5Ø	5.5	25.2			10:58	11:05	(CO <sub>2</sub> ) increase, (CH <sub>4</sub> ) mostly noise
											09	09	
											11:06	11:09	
							100	4.2			50	50	
B2	CM2	WW		GRY	AH	Ø	7.0	25.0	26.3	23.2	11:18	11:21	Ø is 1.5 cm from soil (middle chamber)
						5Ø	5.5				00	09	
						100	5.2				25.7	11:24	LGE buttons died, A/C connection
											30	30	
											11:36	11:41	was not turned on. Connected to external battery & reconnected. File # new f0001

System Time: 10:05  
Real Time: 10:41  
Logging Frequency: 1sWeather:  
Notes:

## Adams/Gewirtzman - BLUEFLUX Tree Methane

## Tree Flux Data

Date: 10-25-22

Personnel:

Mike + Cheryl

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter (cm)	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
B2	CM1	WW		GRY	AH	Ø	6.5	24.5	24.8	23.3	10:44 15	10:46 00	center of chamber is 1.7 cm above soil (possible leak)
						Ø	11	11	11	11	10:50 24	10:53 25	
					AH	5Ø	5.5	25.2			10:58 09	11:05 09	CO <sub>2</sub> increase, CH <sub>4</sub> mostly noise
											11:06 50	11:09 56	
						100	4.2						
B2	CM2	WW		GRY	AH	Ø	7.6	25.0	26.3	23.2	11:18 00	11:21 09	Ø is 1.5 cm from soil (middle chamber)
						5Ø	5.5			25.7	11:24 30	11:24 30	LGE buttons died, ADC connection
						100	5.2			Ø	11:36 30	11:41 30	was not turned on. Connected to external battery & reconnected. File is now F0001

System Time: 11:05  
 Real Time: 10:41  
 Logging Frequency: 1s

Weather:

Notes:

Adams/Gewirtzman - BLUEFLUX Tree Methane  
Tree Flux Data

Date: 10/23/2022  
Personnel: Mike, Cheryl, Samuel

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree <sup>cm</sup> Diameter	Temp_stem (C)	Temp_air (C)	Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
CP-40	789	Ag (black)	Dead <del>A</del> 2	LGR1	C5	0	61.2	27.3	27.9	26.3	11:18:47	11:23:01	0 @ 35cm from soil / tree split Ebb @ 11:21:40 / @ ~25cm
					C5	50	33.2	27.3			11:34:40	11:38:53	
					C5	100	29.3	30.8			11:50:59	11:54:07	
CP-40	788	Ag (black)	Dead <del>A</del> 2	LGR1	D2	0	61.2	25.0	29.7	26.3	12:02:20	12:08:50	Split w/ 789 @ ~25cm 0 @ 35cm from soil / water 5cm
					D2	50	31.6	25.7			12:18:21	12:21:39	
					C5	100	27.9	26.3			12:33: 32	-	*Alarms - Signal Health, power A + B

Weather: clear, hot  
Notes: standing water

System Time: 12:25:27  
Real Time: 12:02  
Logging Frequency: 1s

\* All measurements  
suspect due to  
mirror + signal  
alarms

## Tree Flux Data

Date:  
Personnel:

10/25/2022

Jessie &amp; Davi

Plot	Tree ID	Tree Species	Decay Class	Gas analyzer	Chamber ID	Measure- ment Position	Tree Diameter	(F) Temp_stem . (C)	(C) Temp_air (C)	(C) Soil Temp (C)	Flux Start Time (System)	Flux End Time (System)	Notes
bear lake		cinnabaris	Alive	LGR3	B4	0	7.6	82.4	23.0	24.5	13:38:15	13:41:15	0 = 25cm 4cm water
				LGR3	Ax	50	5.5	89.6			13:49:30	13:52:30	
				LGR3	A6	100	4.7	95.6					
bear lake		white mangrove	standing dead	LGR3	B4		9.8	65.7	23.0		14:15:45	14:18:45	
				LGR3	A6	0	8.5	80.0	24.1	24.3	14:29:50	14:32:50	standing dead 0 = 18 cm
				LGR3	A6	50	5.1	67.9			14:36:50	14:39:50	
				LGR3		100							

Weather:

Notes:

System Time:  
Real Time:  
Logging Frequency:

15