

Gewirtzman - BLUEFLUX Tree Methane Log Time = 15:10 pm
 Soil Flux Data

Date: 2024

Personnel:

RDA x RMA

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	VWC (%)	Flux Start Time	Flux End Time	Grab Sample ID	Notes
BL60	1	WAB3	8 inch	29.9	15:08:30	15:10:30				
~	2	~	~	24.3	15:13:30	15:15:30				
~	3	~	~	24.7	15:18:30	15:20:30				
~	4	~	~	24.1	15:23:00	15:25:00				
~	5	~	~	24.5	15:28:30	15:30:30				
~	6	~	~	24.0	15:35:00	15:37:00				
~	7	~	~	24.0	15:41:30	15:42:30				
~	8	~	~	24.1	15:47:30	15:49:30	1 min			
~	9	~	~	24.1	15:53:30	15:55:30	3 min			
~	10	~	8 inch	24.4	16:00:00	16:02:00	3 min			

Precip =
precipitation

Weather:

Notes:

Adams/Gewirtzman - BLUEFLUX Tree Methane

Soil Flux Data

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

Temp 16.55 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	10m away from tree	LGR3	3ft	22.1	0	15 15 00	15 18 00	28.2	1021.5 47.5
BL60	12	=0	LGR3	3ft	0	0	15 25 00	15 28 00	N/A N/A	

Notes:

Weather:

System Time: 12:50
Real Time: 12:51
Logging Frequency: 1sec

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

2015/23

Date: 3/16/2023

Personnel:

JG + JP

Bear Lake

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)		Flux End Time (System)		Notes
							start	end	start	end	
BL60	1	pneumatic = D	LGR3	2ft	20.4	0	12:56:00	12:59:00	1022.7	66.5	
BL60	2	= b	LGR3	2ft	20.8	0	12:51:30	12:54:30	25.4	1022.7	66.5
BL60	3	= c	LGR3	2ft	21.2	0	13:01:00	13:04:00	25.6	1022.7	64.5
BL60	4	= 5	LGR3	2ft	21.9	0	13:15:00	13:18:00	25.7	1022.6	67.8
BL60	5	= 0	LGR3	2ft	21.9	0	13:23:30	13:26:30	27.4	1022.6	63.8
BL60	6	= 9	LGR3	3ft	21.8	0	14:00:00	14:07:00	27.6	1022.6	64.2
BL60	7	= 0	LGR3	3ft	21.9	0	14:15:30	14:18:30	30.2	1022.1	46
BL60	8	= 19	LGR3	3ft	21.7	0	14:23:00	14:26:00	30.7	1022.0	47.1
BL60	9	= 3	LGR3	3ft	21.6	0	14:51	14:54	30.1	1021.9	46.4
BL60	10	= 7	LGR3	3ft	21.6	0	15:02:00	15:05:00	31.1	1021.9	46.9

Weather: Sunny low 40's light breeze

System Time: 12:50
Real Time: 12:51
Logging Frequency: 1 sec

Notes:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

Date 15/23
Personnel J P

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
CP4D	Water 1			UR3	Planking 8"	23.7	112000	112500	water level 110000
	Water 2			"	"	23.7	112000	112500	
	Water 3			"	"	23.7	11:31	11:35	Plot + center elevation possible due to sediment disruption
	Water 4			"	"	23.7	11:40	11:45	
	Water 5			"	"	23.7	11:48:30	11:53:30	
	Water 6			"	"	23.7	12:00	12:05	
	Water 7			"	"	23.7	12:08	12:16	23.4 °C Water temp
	Water 8			"	"	23.7	12:20	12:25	
	Water 9			"	"	23.7	12:21:45	12:27	
	Water 10			"	"	23.7	12:30:30	12:33:30	

Weather:

Notes:

System Time: 1123
Real Time: 1104
Logging Frequency: 15

Adams/Gewirtzman - BLUEFLUX Tree Methane Tree Flux Data

Date: 3-12-23

Plot: SRS 5

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)
02	black mangrove	alive	02	stem	50	1.5	31	26.4	27.0	27.0	152400	152600	
02	black mangrove	alive	02	stem	150	1	28.1	27.1	27.1	152600	153200		
02	black mangrove	alive	02	stem	40	5	43	29.5	32	32	152621	152621	start 153221 end 154321
02	black mangrove	alive	02	stem	115	1	40.4	27.8	27.8	154508	154608		
02	black mangrove	alive	02	stem	165	1	42	29.0	29.0	29.0	154400	155400	

Weather:
Notes:

KNU's

Notes:

System Time: 10:33:40
Real Time: 10:33:40
Logging Frequency: 1s

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

Date: 3/12/13

Personnel: JG

Site: Tree Plot

Plot: She 2A

Plot	Collar No.	Collar Location	Gas analyzer	ChamberID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
SRSS	12	preu n=26	U6K3	2ct Soil	23.9	0.5cm	130330	130530	2014-7-7
	13	preu n=11	"	"	24.8	1cm	130100	131100	26.7 104.8 71.8 27.0 105.2 77.0
	14	preu n=3	"	"	23.5	0cm	131530	131730	26.6 105.1 72.3 26.8 105.3 75.4
	15	bare	"	"	23.1	2cm	132530	132730	27.2 105.8 70.6 27.3 105.4 73.5
	16	bare rel 340	"	"	23.4	0cm	134100	134300	27.2 105.0 69.3 27.3 105.0 73.8
	water infltr soil pump	Shark River soil pump	8" water temp 25.4	river	135330	146330	Wind 7m/s gust		
	water	"	"	"	141300	141800			
	water	Island Side of Rocky Rocks	"	"	10cm	142400	142900		
	water	island soil	"	"	26.7	12cm	143400	143900	$\frac{1.92}{44.5} - \frac{5.21}{44.5}$
	water	island soil	"	"	25.5	6cm	144800	145300	$\frac{4.84}{43.9} - \frac{4.82}{43.9}$ $1.14-1.16$

Weather:

less windy on less turbulent, lower plot?
wind is less severe, more

Notes:

System Time: 1454
Real Time: 1436
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

Date 3/12/23
Personnel J6

T P RH

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
SRS5	1 bare	new river dock	UBR3	26t soil	23.9	6cm	112000	112300	24.9 1016.0 65.5
	2 bare	in	n	n	23.0	n	113000	113200	24.7 1016.1 68
	3 bare	thick	n	n	23.5	n	113601	11380	24.9 1016.1 68.8
	4 bare	↓	n	n	23.7	0	115200	115400	25.1 1016.2 68.8
5	bare	by tree 666	n	n	23.5	0	120200	120500	25.1 1016.2 68.6
6	n=1 bare	64619 1deun=	n	n	23.5	0	121100	121300	25.4 1016.2 74.9
7	pnear=/ 4	small, maybe dead	n	n	23.5	6	122900	124100	25.2 1015.8 73.3
8	pnear=/ 5	by tree n	n	n	23.6	0	122630	122830	25.4 1015.9 78.2
9	bare	n	n	n	23.5	0	123600	123800	25.8 1016.0 70.4
10	behind pnear=/ plot, black bare w/ dead green stuff	n	n	n	23.5	6cm	124600	124800	25.9 1016.0 75.2
11	pnear=/ 5	n	n	n	23.4	6cm	125400	125600	26.6 1016.4 72.6

System Time: 1121
Real Time: 1103
Logging Frequency: 1hz

Notes:

Weather:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data - Water-air Flux

Date: 16 April 23
Personnel:

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
SRS6	W1	boxdrill center	LGR2	floating chamber	25.6	20cm	13:16:00	13:24:00	ebullition seen limited here,
	W2	by pit 15cm	LGR2	"	25.6	20	13:31	13:37	No visible bubbles one tide has come in c. 5ft.
	W3	tree boxdrill down towards water	"	"	25.7	10	13:45	13:50	Flushing pressure maybe greater than bar?

Weather:

Notes:

System Time:
Real Time:
Logging Frequency:

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

Date: 3/11/23
Personnel: JDG

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
SRS6	1	bare	UGR2	26K	24.5	0	11:31:00	11:35:00	start at end RT and RY end pressure
	2	bare	"	"	25.2	0	11:47	11:44	
	3	bare	"	"	25.2	0	11:52:30	11:44:30	87.2 61.9 24.98
	4	measured n=13	"	"	24.3	0	11:59:30	12:01:30	87.2 61.5 24.95
	5	measured n=13	"	"	24.1	0	12:08:00	12:10:00	81.4 61.6 24.98
	6	measured n=7	"	"	24.0	0	12:13:00	12:15:00	80.9 71.5 24.98
	7	measured n=7	"	"	24.3	0	12:20:00	12:22:00	81.8 76.9 24.98
	8	measured n=7	"	"	24.0	0	12:25:00	12:27:00	81.3 74.4 24.98
	9	bare	"	"	23.8	0	12:22:30 12:34:00	12:30 12:36:00	80.0 71.8 24.98
	10	bare	"	"	23.9	0	12:44:00	12:46:00	79.9 74.2 72.0 24.92

Weather: sunny, dry, low tide

Notes: Elevation on flux 10' at tide started

System Time: 11:38
Real Time: 11:37
Logging Frequency: 15s

Flux from 10' flush of water seems to regress, sediment

Adams/Gewirtzman - BLUEFLUX Tree Methane
Soil Flux Data

Date 3/17/22
Personnel JL

Plot	Collar No.	Collar Location	Gas analyzer	Chamber ID	Soil Temp (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
SE1	1	mon water	LGR2	8" shiny	20.6	15cm	092100	102100	
SE1	west 1	RHMA	LGR2	leaf B			103200	103500	

Notes:

Weather:

System Time: 9:23
Real Time: 9:22
Logging Frequency:

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 (°C)	Water depth	Flux Start Time (System)	Flux End Time (System)	Notes
MI	biorust	11	1	LGK3	24	22.3	13:25:00	13:27:00	N 25055 9150 w 81°39.7026 Shut E
	biorust	100%		Soil	2 ft	0			
	biorust	12	2		25°55.9122				
	biorust	81°31.6997							
	biorust	13	3		25°55.9119				
	wetted just rice 0.1m water depth	14	25°55.9119		81°39.7010				
	biorust	15	5		25°55.9100				
	biorust	81°31.6948							
	biorust	16	6		25°55.9111				
	biorust	81°39.6942							
	biorust	17	7		25°55.9019				
	biorust	81°39.6997							
	biorust	18	8		25°55.9050				
	biorust	81°39.7044							
	50% biorust	19	9		25°55.9037				
	biorust	81°39.7116							
	biorust	10	10		25°55.9031				
	biorust	81°39.7103							
	biorust	11	11		25°55.9010				
	biorust	81°39.7161							
	50% biorust	12	12		25°55.9037				
	biorust	81°39.7116							
	biorust	13	13		25°55.9031				
	biorust	81°39.7103							
	biorust	14	14		25°55.9010				
	biorust	81°39.7161							
	50% biorust	15	15		25°55.9037				
	biorust	81°39.7116							
	biorust	16	16		25°55.9031				
	biorust	81°39.7103							
	biorust	17	17		25°55.9010				
	biorust	81°39.7161							
	50% biorust	18	18		25°55.9037				
	biorust	81°39.7116							
	biorust	19	19		25°55.9031				
	biorust	81°39.7103							
	biorust	20	20		25°55.9010				
	biorust	81°39.7161							
	50% biorust	21	21		25°55.9037				
	biorust	81°39.7116							
	biorust	22	22		25°55.9031				
	biorust	81°39.7103							
	biorust	23	23		25°55.9010				
	biorust	81°39.7161							
	50% biorust	24	24		25°55.9037				
	biorust	81°39.7116							
	biorust	25	25		25°55.9031				
	biorust	81°39.7103							
	biorust	26	26		25°55.9010				
	biorust	81°39.7161							
	50% biorust	27	27		25°55.9037				
	biorust	81°39.7116							
	biorust	28	28		25°55.9031				
	biorust	81°39.7103							
	biorust	29	29		25°55.9010				
	biorust	81°39.7161							
	50% biorust	30	30		25°55.9037				
	biorust	81°39.7116							
	biorust	31	31		25°55.9031				
	biorust	81°39.7103							
	biorust	32	32		25°55.9010				
	biorust	81°39.7161							
	50% biorust	33	33		25°55.9037				
	biorust	81°39.7116							
	biorust	34	34		25°55.9031				
	biorust	81°39.7103							
	biorust	35	35		25°55.9010				
	biorust	81°39.7161							
	50% biorust	36	36		25°55.9037				
	biorust	81°39.7116							
	biorust	37	37		25°55.9031				
	biorust	81°39.7103							
	biorust	38	38		25°55.9010				
	biorust	81°39.7161							
	50% biorust	39	39		25°55.9037				
	biorust	81°39.7116							
	biorust	40	40		25°55.9031				
	biorust	81°39.7103							
	biorust	41	41		25°55.9010				
	biorust	81°39.7161							
	50% biorust	42	42		25°55.9037				
	biorust	81°39.7116							
	biorust	43	43		25°55.9031				
	biorust	81°39.7103							
	biorust	44	44		25°55.9010				
	biorust	81°39.7161							
	50% biorust	45	45		25°55.9037				
	biorust	81°39.7116							
	biorust	46	46		25°55.9031				
	biorust	81°39.7103							
	biorust	47	47		25°55.9010				
	biorust	81°39.7161							
	50% biorust	48	48		25°55.9037				
	biorust	81°39.7116							
	biorust	49	49		25°55.9031				
	biorust	81°39.7103							
	biorust	50	50		25°55.9010				
	biorust	81°39.7161							
	50% biorust	51	51		25°55.9037				
	biorust	81°39.7116							
	biorust	52	52		25°55.9031				
	biorust	81°39.7103							
	biorust	53	53		25°55.9010				
	biorust	81°39.7161							
	50% biorust	54	54		25°55.9037				
	biorust	81°39.7116							
	biorust	55	55		25°55.9031				
	biorust	81°39.7103							
	biorust	56	56		25°55.9010				
	biorust	81°39.7161							
	50% biorust	57	57		25°55.9037				
	biorust	81°39.7116							
	biorust	58	58		25°55.9031				
	biorust	81°39.7103							
	biorust	59	59		25°55.9010				
	biorust	81°39.7161							
	50% b								

Adams/Gewirtzman = Blue Flux Tree Methane
Soil Flux Data

31/14/2023 Date
Personnel