

Synoptic - monthly sampling		Event: 2022 summer [month]		General Notes/Observations:							
Measurement: Soil Fluxes [CH4] and [CO2]		Instrument: Nick		last sample day - tubes were disconnected from chamber I sampled soil for OWC today							
Collection Date: 5 - Oct - 2022		Personnel: Roberta				FLUX ($\mu\text{mol m}^{-2} \text{s}^{-1}$)		FLUX ($\text{nmol m}^{-2} \text{s}^{-1}$)			
Site	Zone	Collar ID	Date	Start Time	End Time	(1) CO2 (ppm)	(2)	(1) CH4 (ppb)	(2)	Notes	
Old Woman Creek	upland	S49	N2O								
Old Woman Creek	upland	S50		10:36	10:39	5.278		-1.179		check second record on line	
Old Woman Creek	upland	S51		10:22	10:25	42.933	1.392	127.459	-13.060	$\frac{\text{CH}_4}{\text{CO}_2} = 28.018$	
Old Woman Creek	upland	S52		10:32	10:35	4.184	3.100	-0.954	-0.879	$\frac{\text{CH}_4}{\text{CO}_2} = 4.175 / -33.227 / -7.429$	
Old Woman Creek	upland	S53	N2O								
Old Woman Creek	upland	S54	N2O								
Old Woman Creek	upland	S55		10:41	10:43	3.280	2.402	-0.854	-0.749		
Old Woman Creek	upland	S56		10:45	10:47	4.822	2.669	-1.721	-1.467		
Old Woman Creek	transition	S57	N2O								
Old Woman Creek	transition	S58		11:09	11:12	3.458	3.411	-1.239	-1.279		
Old Woman Creek	transition	S59	N2O								
Old Woman Creek	transition	S60		10:55	10:57	3.720	3.636	-0.846	-0.863		
Old Woman Creek	transition	S61		10:50	10:53	3.847	3.366	-2.529	-0.752		
Old Woman Creek	transition	S62	N2O								
Old Woman Creek	transition	S63		10:59	11:02	4.441	3.432	-0.482	-0.460		
Old Woman Creek	transition	S64		11:04	11:06	1.859	1.290	-1.369	-0.034		
Old Woman Creek	wetland	S65		11:20	11:22	4.716	3.415	122.5	43.625	water inside chamber	
Old Woman Creek	wetland	S66		11:25	11:28	0.505	0.429	1.054	2.474		
Old Woman Creek	wetland	S67	N2O								
Old Woman Creek	wetland	S68		11:29	11:32	0.262	0.282	87.514	1.289	probe in the water $0.7 \text{ m}^3 \text{ m}^{-3}$	
Old Woman Creek	wetland	S69	N2O								
Old Woman Creek	wetland	S70	N2O								
Old Woman Creek	wetland	S71		11:34	11:37	0.966	0.693	3.352	2.943		
Old Woman Creek	wetland	S72		11:38	11:40	0.725	0.339	-1017.672	3.059		

S72b without plant inside 11:43 1.616 0.841 7.393 4.826

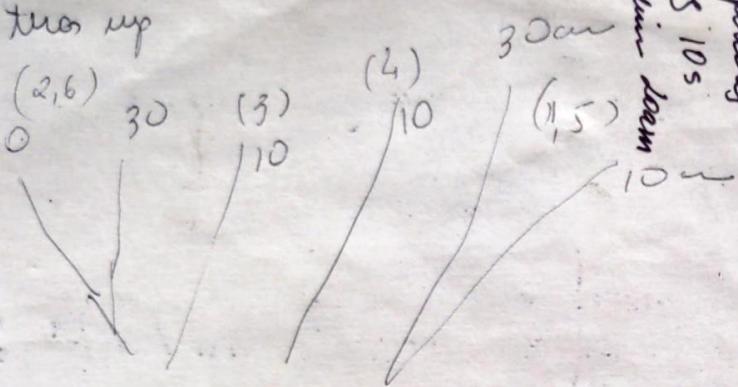
N₂O 09-30-2022
Robert DWL

TR 557

10:55 evacuated 12ml chambers
3 min between samples

TRANS

tel 3 13:33 - 13:36
433 2150 IN
488 2153 FIN
0.444 0.016 slope



smart chamber
Observations last 60 s
TG 10-010281P4
(62)

	upl	5-oct-2022 11:56	tree	O ₂ air	T ₀ air	O ₂ soil	T ₀ soil	time ₃ IN FIN	CO ₂ IN FIN	CH ₄ IN FIN
7	100.9%	19.9°C	9.551	13.9	11:59	643/585	2483/2475			
	9.018 mg/L							slope =	0.273	-0.011
3	98.15% 9.39	18.5°C	10.01 mg/L	13.0	12:03	546f 657	2485/2483			
8	98.12% 9.013	18.6°C	9.537 93.37%	13.7	12:15 12:21	453/492	2358/2363			
4			93.56% 9.666 mg/L	13.2	12:24	422/476	2255/2253			
5			93.22 9.702	12.8	12:31 12:37	419/670	2223/2224			
6			94.82 9.755	13.18	12:45 12:47	420/456	2206/2208			
						0.178	0.006			
Transition	19.1	19.2	19.4	12:53	490/515	2279/2220				
⑦	8.975					0.180	1.089/12:56			
①					13:01	443-562	-0.004 (12:56)			
②					13:05	2133-2142	12:58			
③						0.544	0.048			
④					13:06	420-481	2140-2142			
⑤					13:09	0.381	0.0107			
⑥					13:10	437-494	2130-2138			
⑦					13:13	0.307	0.045			
⑧					13:14	432	2127-2134			
⑨					13:17	448	0.189	0.02		
⑩					13:19	429	2141-2144			
⑪					13:22	513	0.365	0.012		
⑫			utambo 2280 outlier		13:26	443	2143			
⑬					13:27	0.461	0.012			
⑭						0.461	-0.011	2180		