

Table S15. The results of CO₂ concentration in the accumulation chamber. The values of the total CO₂ flux and the atmospheric conditions of the measurements from 21.11.2022 to 25.11.2022

Date	point no.	CO ₂ concentration [%vol]	CO ₂ concentration in the accumulation chamber [ppm]							CO ₂ stream	Measurement conditions					
		depth = 1.50 m	0 min	1 min	2 min	3 min	4 min	5 min	6 min	g/m ² /d	TP [K]	Pp [bar]	Tn [K]	Pn [bar]	V [m ³]	F [m ²]
21.11.2022	2202	0.60	350.0	408.2	4.01	484.3	523.9	548.5	558.1	4.01		0.969				
	2217	1.01	338.2	395.0	4.19	481.3	502.3	520.3	571.6	4.19		0.969				
	2219	0.83	354.4	422.3	5.17	528.9	567.2	604.0	628.5	5.17	277.15	0.970	273.15	1.01325	0.005667	0.133354
	2226	0.57	329.9	356.6	2.38	408.2	423.7	439.3	454.9	2.38		0.970				
	2229	0.33	358.5	484.9	11.55	716.3	807.5	896.5	968.8	11.55		0.970				
22.11.2022	2202	0.88	311.7	362.3	398.4	445.5	480.0	510.9	546.1	4.17		0.969				
	2217	1.56	323.0	348.1	370.9	398.1	417.9	435.2	452.8	2.49		0.968				
	2219	1.28	306.8	327	349.6	370.9	386.5	401.5	414.1	2.07	277.15	0.968	273.15	1.01325	0.005667	0.133354
	2226	0.75	320.4	334.5	348.4	360.4	372.1	380.1	389.9	1.34		0.978				
	2229	0.34	328.2	439.5	537.8	624.0	709.7	788.3	864.8	10.23		0.967				
23.11.2022	2202	1.62	345.1	381.7	400.3	420.8	439.2	451.8	466.9	2.25		0.970				
	2217	1.33	317.2	357.6	395.6	418.8	442.5	460.1	479.9	3.05		0.969				
	2219	1.95	326.0	343.1	363.2	377.9	393.9	409.7	419.4	2.1	276.15	0.968	273.15	1.01325	0.005667	0.133354
	2226	1.44	297.7	315.4	333.4	345.3	363.7	378.0	390.4	1.35		0.968				
	2229	2.67	385.8	408.0	444.2	478.0	497.0	524.8	541.0	10.14		0.968				
24.11.2022	2208	2.16	487.5	682.1	844.9	976.9	1126.4	1254.5	1386.6	16.99		0.975				
	2219	2.04	344.6	367.4	389.4	412.4	434.1	452.8	474.8	2.52		0.973				
	6	2.27	345.6	460.1	557.2	626	690.6	739.8	783.1	8.24	274.15	0.971	273.15	1.01325	0.005667	0.133354
	ST1_2	2.69	323.1	343.1	364.2	365.8	373.4	377.6	385.5	1.11		0.972				
	ST2_4	3.50	426.7	428.4	446.5	482.0	491.6	495.4	535.2	2.11		0.975				
25.11.2022	2202	1.71	398.0	550.4	842.6	959.8	1149.5	1244.6	1325.8	18.28		0.980		0.98021		
	2217	1.32	369.1	556.3	739.7	893.8	1027.5	1147.3	1252.6	16.82		0.980		0.98025		
	2219	2.09	392.4	478.1	558.0	642.0	720.5	790.3	853.8	8.88	278.15	0.981	278.15	0.98087	0.005667	0.133354
	2226	1.75	327.8	345.1	361.2	379.0	390.6	404.9	421.2	1.78		0.981		0.98099		
	2229	4.02	338.1	362.8	401.3	435.1	478.2	515.4	539.8	4.05		0.981		0.98132		

Table S16. The results of CO₂ concentration in the accumulation chamber. The values of the total CO₂ flux and the atmospheric conditions of the measurements from 26.11.2022 to 02.12.2022

Date	point no.	CO ₂ concentration [%vol]	CO ₂ concentration in the accumulation chamber [ppm]							CO ₂ stream	Measurement conditions					
		depth = 1.50 m	0 min	1 min	2 min	3 min	4 min	5 min	6 min	g/m ² /d	Tp [K]	Pp [bar]	Tn [K]	Pn [bar]	V [m ³]	F [m ²]
26.11.2022	2202	1.37	394.1	417.9	449.6	470.8	483.8	492.5	516.8	2.28		0.989		0.98021		
	2217	1.35	448.9	480.0	505.3	542.6	556.5	559.5	574.4	2.43	278.15	0.989		0.98025		
	2219	2.04	410.9	462.2	510.4	555.4	595.3	630.3	655.9	4.75		0.987	278.15	0.98087	0.005667	0.133354
	2226	1.47	326.0	345.0	354.2	365.8	376.3	383.6	394.9	1.27		0.989		0.98099		
	2229	2.39	782.7	882.0	1039.7	1219.0	1367.5	1493.6	1602.4	16.42		0.986		0.98132		
28.11.2022	2202	1.54	333.5	360.2	381.2	386.5	402.9	413.5	418.9	20.1		0.985				
	2217	1.17	354.2	364.9	384.4	392.8	406.0	408.0	414.2	15.15	277.15	0.985				
	2219	1.70	333.5	345.6	360.9	372.6	379.0	384.5	389.0	13.82		0.985	273.15	1.02025	0.005667	0.133354
	2226	1.38	350.4	370.4	386.6	404.3	414.5	423.2	438.9	20.86		0.985				
	2229	2.45	425.7	450.9	488.1	520.7	545.3	563.9	585.7	39.65		0.983				
29.11.2022	2202	1.48	328.1	334.7	345.8	353.1	363.6	374.0	384.2	13.93		0.986				
	2217	0.88	310.5	319.2	329.3	341.5	348.2	359.9	374.1	15.27		0.986				
	2219	1.14	329.3	343.1	359.5	380.1	392.5	408.7	425.0	23.52	276.15	0.986	273.15	1.02025	0.005667	0.133354
	2226	1.78	318.3	327.2	327.2	335.0	341.1	345.9	353.8	361.1		0.986				
	2229	2.46	497.4	528.1	549.9	572.9	594.5	610.5	638.0	32.94		0.983				
30.11.2022	2202	1.40	300.8	365.6	427.6	517.5	584.1	650.7	708.2	8.00		0.986				
	2217	0.70	279.5	307.7	359.5	402.4	435.6	470.1	495.0	4.34		0.986				
	2219	0.91	311.0	358.8	420.2	479.7	540.4	597.6	655.3	6.75	276.15	0.986	273.15	1.02025	0.005667	0.133354
	2226	0.79	279.7	293.0	306.6	319.2	327.2	336.3	344.7	1.27		0.986				
	2229	2.58	319.7	433.7	559.9	693.1	816.6	928.7	1022.8	13.83		0.983				
01.12.2022	2202	1.78	316.7	384.5	449.6	498.4	546.7	595.6	650.4	6.4		0.990				
	2217	1.06	272.7	297.1	323.2	354.5	375.3	377.2	401.2	2.52		0.989				
	2219	1.86	273.4	296.7	341.2	370.6	392.6	432.2	471.3	3.85	274.15	0.988	273.15	1.02025	0.005667	0.133354
	2226	1.25	265.0	277.5	293.1	304.4	315.7	328.7	335.6	1.43		0.988				
	2229	2.74	302.2	320.4	352.0	391.6	431.3	470.2	509.2	4.21		0.989				
02.12.2022	2202	1.38	290.6	397.1	514.2	619.7	730.4	833.6	916.5	12.45		0.989				
	2217	0.61	272.7	297.1	323.2	354.5	375.3	377.2	401.2	2.52		0.987				
	2219	1.38	273.4	296.7	341.2	370.6	392.6	432.2	471.3	3.84	273.15	0.986	273.15	1.02025	0.005667	0.133354
	2226	0.85	265.0	277.5	293.1	304.4	315.7	328.7	335.6	1.43		0.986				
	2229	3.02	302.2	320.4	352.0	391.6	431.3	470.2	509.2	4.2		0.988				