

Table S5. The results of CO₂ concentration in soil gas based on measurements series performed from 07.09.2022 to 12.09.2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]					average value
	07.09.2022	08.09.2022	09.09.2022	10.09.2022	12.09.2022	
1	13,474	15,490	19,618	15,111	266	12,792
2	19,013	20,563	20,484	12,681	270	14,602
3	6,137	7,265	11,516	12,543	3,720	8,236
4	26,076	22,863	38,662	30,990	17,052	27,129
5	23,490	23,102	27,536	27,093	2,978	20,840
6	48,947	48,325	48,245	46,792	23,381	43,138
2201	34,675	35,662	37,969	38,548	23,832	34,137
2202	44,480	44,355	45,370	45,048	32,536	42,358
2203	32,034	30,358	31,048	32,064	38,759	32,853
2204	30,038	29,883	34,000	37,255	39,761	34,187
2205	46,412	47,824	47,144	55,669	44,414	48,293
2206	48,652	50,710	51,364	53,138	35,653	47,903
2207	41,227	43,550	48,963	48,794	40,862	44,679
2208	24,207	25,669	32,270	35,262	44,725	32,427
2209	22,658	22,545	22,024	22,720	23,136	22,617
2210	21,884	21,278	22,937	24,408	27,797	23,661
2211	13,271	8999,5	14,409	8,206	49,105	18,798
2212	48,552	55,713	56,113	50,594	44,295	51,053
2213	32,321	28,612	35,937	35,288	34,512	33,334
2214	27,383	28,061	32,903	33,396	49,826	34,314
2215	22,813	23,122	25,046	27,647	21,361	23,998
2216	8,327	1,925	20,609	20,515	29,877	16,251
2217	33,846	12,877	36,391	34,793	69,204	37,422
2218	29,904	30,668	30,787	23,336	44,075	31,754
2219	21,519	22,753	19,229	4,429	37,927	21,171
2220	21,090	29,789	19,644	19,459	53,502	28,697
2221	31,255	29,917	35,544	29,691	32,147	31,711
2222	28,637	36,120	48,470	48,340	23,669	37,047
2223	42,664	40,370	31,244	31,780	33,632	35,938
2224	68,832	62,419	22,767	69,078	46,419	53,903
2225	14,157	17,218	24,888	18,205	28,038	20,501
2226	19,184	17,581	19,279	19,066	46,733	24,369
2227	17,881	17,480	17,899	18,140	32,093	20,699
2228	17,585	16,235	16,573	16,995	20,849	17,647
2229	51,541	22,965	56,479	26,118	61,518	43,724
2230	6,758	22,971	13,574	17,785	15,574	15,332
2231	24,591	32,484	49,024	43,213	23,937	34,650
2232	22,368	20,764	24,917	22,085	18,851	21,797
2233	23,671	23,763	23,946	22,366	19,266	22,602
2234	22,951	24,553	24,305	23,878	29,521	25,042
2235	22,497	25,762	27,171	21,106	22,695	23,846
2236	19,539	20,764	25,951	25,875	22,244	22,875
2237	28,592	27,712	27,322	2,800	19,928	21,271

Table S6. The results of CO₂ concentration in soil gas in additional piezometers drilled in 2022 based on measurements series from 13.09.2022 to 17.09.2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]					average value
	13.09.2022	14.09.2022	15.09.2022	16.09.2022	17.09.2022	
1	828	8,539	5,498	2,809	7,516	5,038
2	718	4,214	2,194	1,741	3,307	2,435
3	10,058	9,725	10,695	10,728	12,437	10,729
4	16,680	17,212	19,059	40,661	20,301	22,783
5	14,081	12,412	13,048	32,400	37,036	21,795
6	22,331	19,624	30,960	40,598	30,088	28,720
2201	50,373	57,130	57,168	45,706	34,663	49,008
2202	47,853	40,653	48,615	38,407	36,456	42,397
2203	42,609	41,917	51,215	30,241	42,204	41,637
2204	40,999	41,649	52,315	32,736	37,756	41,091
2205	42,034	46,060	55,231	45,095	29,371	43,558
2206	37,754	37,578	58,281	50,949	25,479	42,008
2207	37,194	41,440	39,581	53,082	47,145	43,688
2208	30,484	28,655	33,125	41,213	27,798	32,255
2209	26,984	26,696	31,285	25,669	51,310	32,389
2210	28,186	28,654	38,654	24,193	40,162	31,970
2211	47,941	47,558	52,512	11,772	48,179	41,592
2212	41,962	41,704	42,325	50,007	42,854	43,770
2213	40,558	41,420	41,055	33,772	28,034	36,968
2214	24,486	23,335	33,128	34,022	30,154	29,025
2215	22,168	22,320	28,368	26,289	20,563	23,942
2216	21,658	21,391	25,158	17,143	479	17,166
2217	38,607	67,479	40,568	25,883	22,084	38,924
2218	44,557	42,051	46,738	18,795	24,105	35,249
2219	68,414	35,521	46,075	31,088	19,215	40,063
2220	33,439	40,156	45,125	24,837	355	28,782
2221	25,898	28,518	30,587	35,005	22,078	28,417
2222	33,055	22,689	28,124	20,446	38,921	28,647
2223	27,575	35,098	31,555	51,284	26,020	34,306
2224	28,864	20,077	39,071	75,671	68,067	46,350
2225	21,687	20,885	30,587	38,075	11,946	24,636
2226	47,950	47,447	55,781	21,312	18,753	38,249
2227	32,212	28,566	30,128	26,459	22,092	27,891
2228	21,009	20,145	24,581	19,807	18,379	20,784
2229	47,687	51,595	62,371	59,688	48,050	53,878
2230	25,243	23,111	36,304	17,165	14,311	23,227
2231	24,722	23,712	31,521	69,175	59,203	41,667
2232	19,613	18,363	20,587	26,341	23,328	21,646
2233	18,268	17,649	20,128	22,481	21,922	20,090
2234	35,235	31,615	30,723	26,684	25,385	29,928
2235	31,922	27,652	29,205	34,695	32,948	31,284
2236	22,629	21,437	27,125	26,759	25,206	24,631
2237	22,606	27,724	33,556	22,860	22,966	25,942

Table S7. The results of CO₂ concentration in soil gas in additional piezometers drilled in 2022 based on measurements series performed from 07.09.2022 to 12.09.2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]					average value
	07.09.2022	08.09.2022	09.09.2022	10.09.2022	12.09.2022	
ST1_1	9,665	2,564	40,240	35,249	13,513	20,246
ST1_2	4,919	9,187	6,642	10,235	4,050	7,007
ST1_3	4,154	6,772	956	2,803	1,553	3,248
ST1_4	3,616	5,225	2,016	33,871	15,464	12,038
ST1_5	8999,9	5,497	8,378	8,875	7,669	7,884
ST1_6	5,106	33,715	6,925	44,807	6,782	19,467
ST2_1	2,223	1,569	1,482	1148,3	1,211	1,527
ST2_2	25,819	27,872	40,001	38,560	8,701	28,191
ST2_3	6,629	22,685	37,018	18,464	509,3	17,061
ST2_4	41,010	21,601	29,654	13,959	15,736	24,392
ST2_5	16,785	9,543	19,398	19,420	21,171	17,263
ST2_6	65,148	67,961	73,793	73,828	3,466	56,839

Table S8. The results of CO₂ concentration in soil gas in additional piezometers drilled in 2022 based on measurements series performed from 13.09.2022 to 17.09.2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]					average value
	13.09.2022	14.09.2022	15.09.2022	16.09.2022	17.09.2022	
ST1_1	13,513	285	16,256	7,681	44,150	17,299
ST1_2	4,050	4,811	6,255	5,631	8,931	7,014
ST1_3	1,553	1,871	1,580	326	7,794	4,196
ST1_4	15,464	9,564	12,680	1,553	10,025	9,253
ST1_5	7,669	8,256	5,241	16,051	10,129	10,585
ST1_6	6,782	6,998	5,241	8,876	5,228	7,890
ST2_1	1,211	531,7	428,6	1,205	655,8	709
ST2_2	8,701	460,6	7,905	8,251	6666,2	5,042
ST2_3	509,3	1353,9	384,3	509,8	27,972	7,684
ST2_4	15,736	18,983	1,988	9,852	20,989	13,359
ST2_5	21,171	21,576	18,182	10,241	5,296	13,005
ST2_6	3,466	3,315	8,420	12,541	63,212	24,850