

Table S1. The results of CO₂ concentration in soil gas based on measurements series from 30 May 2022 to 4 June 2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]						average value
	30.05.2022	31.05.2022	01.06.2022	02.06.2022	03.06.2022	04.06.2022	
1	298	367	900	2,573	808	1,589	1,089
2	357	365	343	388	998	16,914	3,227
3	354	9,484	12,226	15,073	13,906	30,762	13,634
4	5,765	16,901	27,159	22,840	25,843	26,965	20,912
5	3,773	12,948	22,496	18,021	20,636	32,261	18,356
6	1,355	41,753	43,320	44,811	44,277	20,667	32,697
2201	37,892	22,374	21,475	23,526	0	40,291	28,147
2202	45,998	38,867	36,123	43,362	38,855	53,090	42,716
2203	45,143	40,335	39,646	24,757	43,413	25,064	36,393
2204	38,567	32,851	40,357	41,280	45,250	45,103	40,568
2205	28,382	25,997	28,562	29,128	23,022	28,877	27,328
2206	19,349	24,229	16,981	16,084	17,681	16,759	18,514
2207	47,601	39,207	40,109	51,643	55,772	51,269	47,600
2208	51,671	49,125	52,312	42,046	43,072	40,999	46,538
2209	25,920	22,473	24,819	21,136	31,003	23,829	24,863
2210	22,269	18,024	16,297	16,360	16,843	22,124	18,653
2211	24,933	44,084	35,258	28,783	38,886	18,189	31,689
2212	42,851	48,202	49,319	51,870	33,826	45,964	45,339
2213	15,302	41,985	22,908	22,352	24,383	24,016	25,158
2214	27,026	25,235	23,772	24,319	24,317	22,899	24,595
2215	21,652	18,064	17,821	28,504	18,295	19,527	20,644
2216	3,160	29,236	29,524	9,981	10,177	10,465	15,424
2217	38,178	19,545	18,168	50,480	54,788	22,163	33,887
2218	19,807	16,420	18,032	26,458	26,464	16,212	20,566
2219	23,634	21,665	42,645	19,856	22,864	20,448	25,185
2220	42,139	14,247	45,002	46,994	46,189	12,819	34,565
2221	36,940	41,074	40,385	43,723	44,558	40,127	41,135
2222	12,337	7,166	8,338	16,029	8,013	10,994	10,480
2223	2,941	22,675	22,517	30,125	20,395	14,621	18,879
2224	28,070	43,408	48,595	42,590	29,515	43,440	39,270
2225	30,896	31,793	55,589	28,964	25,347	23,030	32,603
2226	19,706	44,365	45,256	12,248	48,389	7,215	29,530
2227	18,150	17,900	15,032	16,741	12,768	13,309	15,650
2228	15,040	13,254	12,189	14,766	15,208	12,804	13,877
2229	36,659	48,990	52,092	52,951	48,495	40,501	46,615
2230	22,878	11,274	19,694	20,470	20,100	17,726	18,690
2231	13,254	12,057	13,541	12,653	12,738	40,281	17,421
2232	14,551	13,664	12,800	12,322	12,575	11,125	12,840
2233	14,022	17,815	17,091	12,248	14,898	12,388	14,744
2234	19,856	18,985	19,821	20,756	22,108	20,271	20,300
2235	9,948	51,002	49,591	52,025	53,463	23,175	39,867
2236	24,584	21,792	20,589	20,856	20,965	20,982	21,628
2237	9,539	32,125	30,720	33,353	33,884	21,966	26,931

Table S2. The results of CO₂ concentration in soil gas based on measurements series from 6 June 2022 to 14 June 2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]						average value
	06.06.2022	07.06.2022	08.06.2022	09.06.2022	10.06.2022	14.06.2022	
1	17,539	4,924	17,105	1,609	13,629	245	10,961
2	1,991	18,097	4,128	12,591	3,899	818	8,141
3	21,897	20,218	21,444	15,307	16,837	8,376	19,141
4	26,838	44,263	35,645	2,356	21,102	26,911	26,041
5	15,875	44,134	17,749	42,327	1,246	1,489	24,266
6	53,096	58,133	58,804	45,959	37,015	44,936	50,601
2201	36,169	25,203	23,157	23,097	42,921	37,086	30,109
2202	57,634	44,253	58,852	42,056	40,188	21,720	48,597
2203	20,984	17,777	38,775	17,070	17,473	22,693	22,416
2204	44,855	56,614	51,295	34,039	34,280	28,101	44,217
2205	30,180	63,000	33,840	49,157	33,564	28,177	41,948
2206	18,543	39,664	15,846	50,780	33,710	36,980	31,709
2207	44,439	40,378	55,558	41,899	42,944	28,872	45,044
2208	45,411	22,257	44,965	21,943	23,558	20,759	31,627
2209	23,610	19,124	24,316	20,129	21,101	18,224	21,656
2210	23,855	20,529	21,636	20,186	20,969	20,451	21,435
2211	42,132	45,022	50,891	45,779	57,007	21,039	48,166
2212	54,604	51,984	48,869	49,520	50,068	48,996	51,009
2213	24,489	25,509	26,413	6,494	24,667	29,139	21,514
2214	29,584	27,879	23,384	25,175	28,395	29,074	26,883
2215	21,418	27,879	32,928	26,457	29,019	31,253	27,540
2216	12,052	38,330	15,535	1,910	2,076	1,170	13,981
2217	44,854	24,152	20,971	24,044	25,891	28,193	27,982
2218	28,955	28,651	24,539	22,456	17,860	19,601	24,492
2219	18,375	19,716	20,755	12,713	10,459	6,971	16,404
2220	13,828	14,511	7,661	5,740	2,106	12,901	8,769
2221	53,294	47,907	38,819	43,918	41,688	38,203	45,125
2222	9,332	39,365	6,936	33,822	594	34,268	18,010
2223	14,835	10,101	13,018	16,435	45,886	34,402	20,055
2224	45,607	52,354	54,128	57,573	51,706	29,084	52,274
2225	27,061	16,743	50,656	51,600	46,219	34,060	38,456
2226	12,570	14,480	8,364	16,848	17,053	16,217	13,863
2227	15,733	15,326	13,817	17,849	16,691	15,718	15,883
2228	15,326	13,835	15,003	14,260	15,391	15,160	14,763
2229	41,260	51,800	49,537	40,871	20,537	51,409	40,801
2230	2,434	20,143	60,114	19,973	30,468	83,422	26,626
2231	47,841	28,704	66,188	61,307	56,781	49,461	52,164
2232	23,845	23,483	25,192	24,608	23,035	13,450	24,033
2233	12,268	11,077	13,254	12,274	12,821	14,740	12,339
2234	19,063	18,483	14,528	17,928	21,515	17,590	18,303
2235	57,252	19,049	21,749	43,936	20,477	26,374	32,493
2236	22,843	21,482	21,324	22,200	21,489	16,725	21,868
2237	41,965	41,947	40,105	27,042	19,691	21,288	34,150

Table S3. The results of CO₂ concentration in soil gas in additional piezometers drilled in 2022 based on measurements series performed from 30 May 2022 to 4 June 2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]						average value
	30.05.2022	31.05.2022	01.06.2022	02.06.2022	03.06.2022	04.06.2022	
ST1_1	1,321	1,625	2,162	1,710	1,516	3,692	2,648
ST1_2	1,685	2,012	1,909	2,081	1,826	3,716	2,757
ST1_3	1,325	1,658	1,755	1,643	1,288	3,615	2,736
ST1_4	550	449	343	612	363	3,683	2,726
ST1_5	600	589	521	355	1,466	410	401
ST1_6	591	601	598	1,502	1,027	394	321
ST2_1	9,881	12,001	15,711	13,559	16,302	13,723	4,375
ST2_2	7,214	1,100	880	565	789	2,762	1,571
ST2_3	550	650	399	1,807	4,937	44,385	13,269
ST2_4	6,235	7,999	7,561	14,093	12,874	10,580	7,266
ST2_5	19,252	22,650	23,603	14,617	3,658	9,295	3,800
ST2_6	2,156	2,555	2,825	3,525	5,480	3,024	1,665

Table S4. The results of CO₂ concentration in soil gas in additional piezometers drilled in 2022 based on measurements series performed from 6 June 2022 to 14 June 2022

No. of piezometer	CO ₂ concentration in soil gas [ppm]						average value
	06.06.2022	07.06.2022	08.06.2022	09.06.2022	10.06.2022	14.06.2022	
ST1_1	2,310	48,293	18,239	1,968	4,644	2,566	15,091
ST1_2	2,579	2,139	58,907	1,764	3,244	2,088	13,727
ST1_3	2,890	2,093	79,405	18,634	2,239	14,616	21,052
ST1_4	2,832	411	74,359	2,581	1,403	2,948	16,317
ST1_5	698	1,208	6,772	439	376	2,016	1,899
ST1_6	821	572	26,334	1,107	418	2,565	5,851
ST2_1	46,078	18,541	45,773	987	2,964	1,187	22,869
ST2_2	3,610	6,546	4,756	57,853	65,538	33,504	27,660
ST2_3	1,654	11,664	2,411	3,072	8,603	26,307	5,481
ST2_4	57,417	11,343	1,072	7,641	9,493	25,109	17,393
ST2_5	18,718	84,075	424	7,609	8,860	21,238	23,937
ST2_6	19,583	57,320	440	53,348	57,832	61,768	37,705