

This is meta info for the source data for Figures 2 and 3 in the article "Nitrous oxide as second most important greenhouse gas in tropical peatlands" by Dr. Jaan Pärn and colleagues compiled in 2024

The following data were used:

Start date

End date

Latitude: Geographical latitude in degrees and its decimals

Longitude: Geographical longitude in degrees and its decimals

SWC: Soil water content in cubic meters of water per cubic meter of soil

GPP: Gross primary production value derived from the MODIS satellite-based GPP product, expressed in mg CO2 per hour and meter square

R: Average chamber-measured soil respiration value expressed in mg CO2 per hour and meter square.

N2O: Average chamber-measured methane emission value expressed in mg CO2 equivalents per hour and meter square. Negative (–) emission denotes net consumption of methane.

CH4: Average chamber-measured methane emission value expressed in mg CO2 equivalents per hour and meter square. Negative (–) emission denotes net consumption of methane.

GHG: Average greenhouse gas (GHG) exchange value expressed in mg CO2 equivalents per hour and meter square. The GHG exchange is calculated as GPP subtracted from the sum of chamber-measured R, N2O, and CH4. Negative (–) GHG denotes net greenhouse gas uptake

SE: Standard error of the mean GHG budget

Start date	End date	Latitude	Longitude	SWC	GPP	R	N2O	CH4	GHG	SE
20.06.2013	23.06.2013	-1.2311	29.9605	0.643333	812.96286	1056.851	455.63815	46.23141	745.7576	25
21.06.2013	24.06.2013	-1.2349	29.971943	0.755	763.34541	1470.585	14.023698	77.67875	798.9418	130.517
15.10.2013	18.10.2013	4.9908	-52.4539	0.778122	967.5403	729.2479	0.2916233	152.5719	85.42891	31
20.10.2013	23.10.2013	5.1617	-52.6517	0.610333	967.5403	598.3444	9.1161887	0.20384	359.8758	25
20.01.2016	23.01.2016	20.64314	96.891566	0.689286	499.99124	428.9159	123.3825	15.18699	67.49412	116.109

20.01.2016	23.01.2016	20.63207	96.905614	0.775833	496.17451	684.6226	37.409858	134.8384	360.6963	115.25
17.03.2017	20.03.2017	5.323896	115.67457	0.38	1736.6108	578.7395	288.44296	0.691319	-868.737	88.1414
									-	
20.03.2017	23.03.2017	5.310248	115.6492	0.623	1068.6836	661.9629	34.388906	-0.49241	372.8242	23
									-	
16.09.2019	19.09.2019	-3.83454	-73.31909	0.83	778.61231	343.2539	148.13163	33.81629	253.4104	37
22.09.2019	25.09.2019	-3.85058	-73.37891	0.21	0	308.6793	42.047803	-2.4005	348.3266	248.586
05.01.2020	08.01.2020	-3.85058	-73.37891	0.24	0	297.5332	39.716711	-2.64598	334.6039	69.8816
									-	
11.01.2020	14.01.2020	-3.83454	-73.31909	0.87	470.72967	240.7506	11.343622	105.0528	113.5827	27
									-	
23.09.2022	26.09.2022	1.452201	111.14412	0.7	1055.325	507.7083	0.5404063	7.226414	539.8499	266.314
25.09.2022	28.09.2022	1.399999	111.39428	0.48	215.64508	538.0501	68.119042	1.027182	391.5513	120.232
12.11.2022	21.12.2022	1.399999	111.39428	0.58	677.46905	778.3686	159.46283	4.06196	264.4243	25
									-	
09.12.2022	19.12.2022	1.452201	111.14412	0.85	1101.1257	211.6583	0.0461285	9.991646	879.4297	25