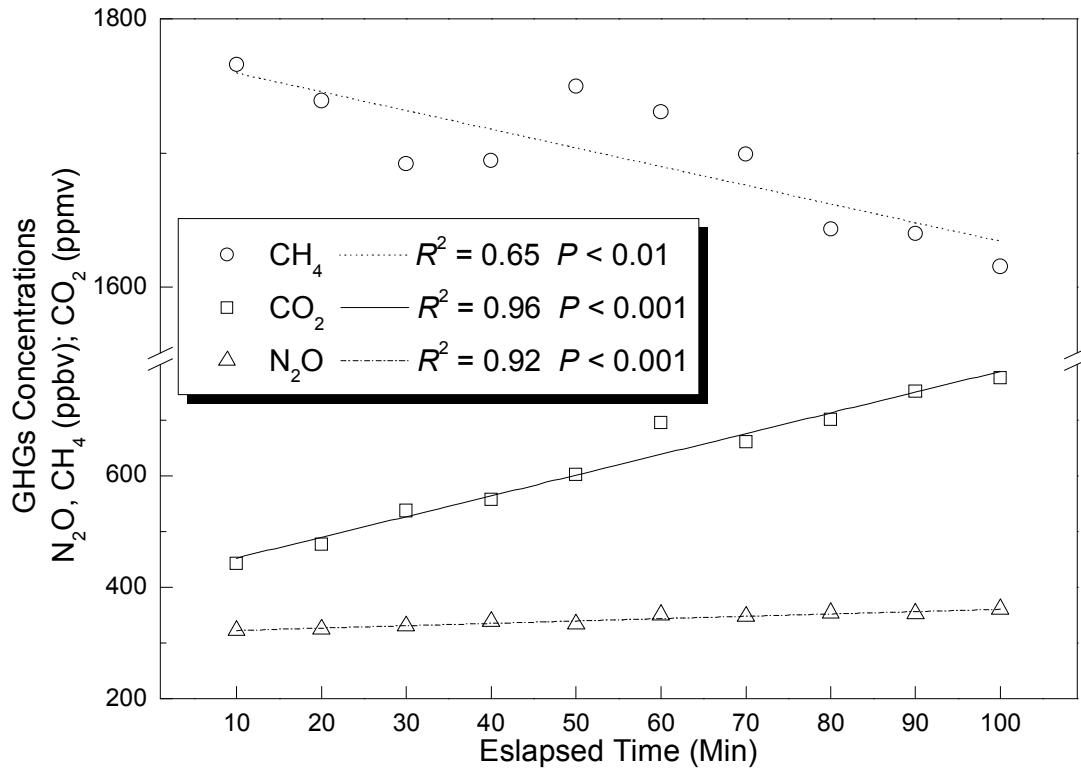


1 **Supplementary Material**

2 **S1.** Linear fitting of GHGs (greenhouse gases) concentrations in the enclosure chambers
3 against time. Measured in the pre-experiment in October 2006. The GHG
4 concentrations remained linear for up to 100 min after the chamber was closed in our
5 sampling.

6



7

1 **S2.** Results (*p*-value) of two-way ANOVA on the effects of Nitrogen (N), Phosphorus (P) and their interactions on the soil fluxes of CH₄, N₂O,
 2 and CO₂. Spring from April to June, summer from July to September, fall from October to December, winter from January to March.

CH ₄	2007				2008				2009	
	Spring	Summer	Fall	Winter	Spring	Summer	Fall	Winter	Spring	Summer
N	0.403	0.157	0.055	0.199	0.026	0.211	0.077	0.111	0.021	0.028
P	0.109	0.004	0.018	0.011	0.024	0.014	0.068	0.101	0.020	0.013
N×P	0.363	0.130	0.318	0.112	0.400	0.524	0.813	0.363	0.384	0.808

3