

Supplementary Information

Supplementary Information 1: Controlled release experiment

Release no.	Release description	CH ₄ release rate L min ⁻¹	C ₂ H ₆ release rate L min ⁻¹	NH ₃ release rate L min ⁻¹
1	Ring, ground height	70.48 ± 1.36	3.50 ± 0.23	0.00
2	Ring, ground height	50.52 ± 1.16	6.01 ± 0.24	0.00
3	Ring, ground height	30.58 ± 1.00	2.00 ± 0.04	0.00
4	Ring, ground height	10.63 ± 0.96	0.51 ± 0.02	0.00
5	Ring, ground height	5.64 ± 0.96	5.00 ± 0.23	0.00
6	Ring, ground height	0.99 ± 0.32	0.10 ± 0.02	0.00
7	Ring, ground height	30.60 ± 1.00	2.00 ± 0.03	0.00
8	Ring, ground height	0.99 ± 0.32	0.10 ± 0.02	0.00
9	Ring, ground height	0.49 ± 0.30	0.20 ± 0.02	0.00
10	Ring, ground height	0.20 ± 0.30	0.03 ± 0.02	0.00
11	Ring, 1 m height	70.46 ± 1.40	3.53 ± 0.23	0.00
12	Ring, 1 m height	50.51 ± 1.16	6.01 ± 0.24	0.00
13	Ring, 1 m height	30.56 ± 1.01	2.03 ± 0.23	0.00
14	Ring, 1 m height	10.61 ± 0.96	0.51 ± 0.02	0.00
15	Ring, 1 m height	5.62 ± 0.95	5.02 ± 0.23	0.00
16	Ring, 1 m height	5.61 ± 0.96	5.02 ± 0.23	0.00
17	Ring, 1 m height	0.99 ± 0.32	0.11 ± 0.02	0.00
18	Ring, 1 m height	0.49 ± 0.30	0.21 ± 0.02	0.00
19	Ring, 1 m height	0.20 ± 0.30	0.03 ± 0.02	0.00
20	Linear vertical, ground to 3 m elevation	50.49 ± 1.16	0.00	0.00
21	Linear vertical, ground to 3 m elevation	30.54 ± 1.01	0.00	3.33 ± 0.10
22	Linear vertical, ground to 3 m elevation	30.58 ± 1.01	2.99 ± 0.06	3.34 ± 0.10
23	Linear vertical, ground to 3 m elevation	50.49 ± 1.16	5.02 ± 0.23	5.60 ± 0.17
24	Linear vertical, ground to 3 m elevation	40.51 ± 1.07	0.00	0.00
25	Linear vertical, ground to 3 m elevation	20.56 ± 0.97	0.00	0.00
26	Point, 1 m elevation	70.45 ± 1.40	5.03 ± 0.23	0.00
27	Point, 1 m elevation	50.50 ± 1.16	5.03 ± 0.23	0.00
28	Point, 1 m elevation	30.55 ± 1.01	5.03 ± 0.23	0.00
29	Point, 1 m elevation	10.60 ± 0.96	5.03 ± 0.23	0.00
30	Point, 1 m elevation	5.62 ± 0.95	5.03 ± 0.23	0.00
31	Point, 1 m elevation	0.99 ± 0.32	5.03 ± 0.23	0.00
32	Point, 1 m elevation	0.10 ± 0.30	5.03 ± 0.23	0.00
33	Point, 1 m elevation	2.99 ± 0.53	5.03 ± 0.23	0.00
34	Point, 1 m elevation	0.50 ± 0.30	5.03 ± 0.23	0.00
35	Point, 1 m elevation	30.55 ± 1.01	5.03 ± 0.23	0.00
36	Point, 1 m elevation	30.55 ± 1.01	5.03 ± 0.23	0.00
37	Point, 1 m elevation	10.60 ± 0.96	5.03 ± 0.23	0.00
38	Linear vertical, ground to 3 m elevation	10.63 ± 0.96	2.50 ± 0.05	1.07 ± 0.03
39	Linear vertical, ground to 3 m elevation	30.58 ± 1.01	2.99 ± 0.06	3.34 ± 0.10
40	Linear vertical, ground to 3 m elevation	55.52 ± 1.21	5.02 ± 0.23	5.60 ± 0.17
41	Multi point CH ₄ & NH ₃ at 9.5 m elevation, C ₂ H ₆ at 1 m elevation	70.48 ± 1.40	7.01 ± 0.24	7.87 ± 0.24

Table S1: Details of releases during controlled release experiments.

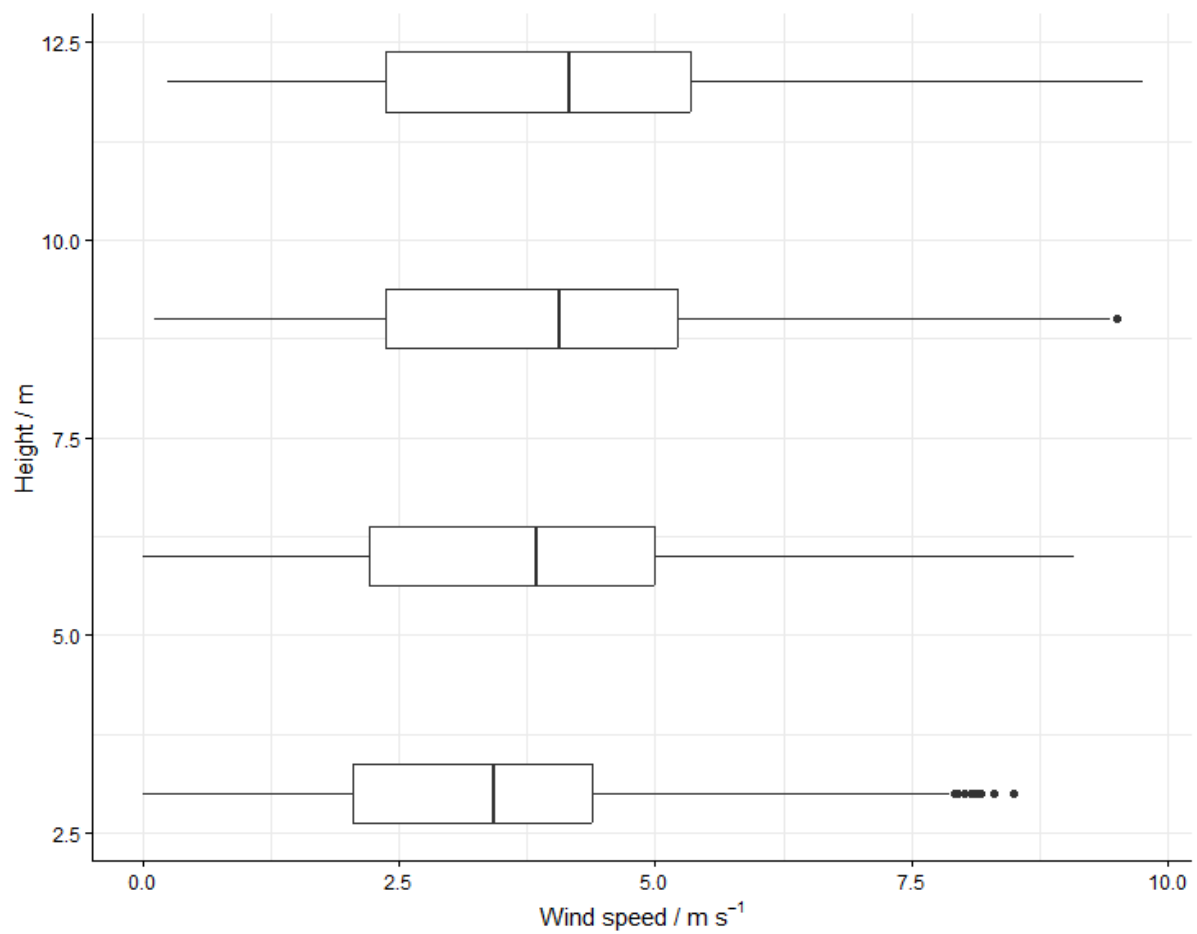


Figure S1: Wind speeds measured across duration of controlled release experiment.