

Table 8. Rate of release of N₂O measurements made in October 2008.

[BHM, Bass Harbor Marsh Watershed; GW#, measurement site; mM, millimolar; Temp., temperature; °C, temperature degrees Celsius; NO₃, nitrate; nmoles, nanomoles; m, meters; hr, hours; T₀, date and time chamber sealed; T₁, beginning of period of associated flux calculation; T₂ ending of period of flux calculation; N₂O, nitrous oxide; C₂H₂, Acetylene]

Location	Sequence No. ¹	Chamber Sealed (T ₀)	Start Time (T ₁)	End Time (T ₂)	Treatment	Number of replicate measurements ²	Soil Temp. (°C)	Net N ₂ O release ³ (nmoles/sq m/hr)
BHM GW6	1	10/30/08 10:09	10/30/08 11:13	10/30/08 13:55	100 mM NO ₃	1	6.5	443
BHM GW6	2	10/30/08 10:09	10/30/08 13:55	10/30/08 16:50	100 mM NO ₃	1	6.5	1,830
BHM GW6	3	10/30/08 10:09	10/30/08 16:50	10/31/08 9:03	100 mM NO ₃	1	6.5	5,900
BHM GW6	4	10/30/08 10:09	10/31/08 9:03	10/31/08 11:30	100 mM NO ₃	1	6.5	4,060
BHM GW6	1	10/30/08 10:10	10/30/08 11:14	10/30/08 13:56	100 mM NO ₃ + C ₂ H ₂	2	6.5	1,070
BHM GW6	2	10/30/08 10:10	10/30/08 13:56	10/30/08 16:51	100 mM NO ₃ + C ₂ H ₂	2	6.5	3,940
BHM GW6	3	10/30/08 10:10	10/30/08 16:51	10/31/08 9:04	100 mM NO ₃ + C ₂ H ₂	2	6.5	10,600
BHM GW6	4	10/30/08 10:10	10/31/08 9:04	10/31/08 11:31	100 mM NO ₃ + C ₂ H ₂	2	6.5	18,500
BHM GW6	1	10/30/08 10:19	10/30/08 11:16	10/30/08 13:58	250 mM NO ₃	1	6.5	308
BHM GW6	2	10/30/08 10:19	10/30/08 13:58	10/30/08 16:53	250 mM NO ₃	1	6.5	2,000
BHM GW6	3	10/30/08 10:19	10/30/08 16:53	10/31/08 9:06	250 mM NO ₃	1	6.5	3,800
BHM GW6	4	10/30/08 10:19	10/31/08 9:06	10/31/08 12:26	250 mM NO ₃	1	6.5	6,960
BHM GW6	1	10/30/08 10:20	10/30/08 11:17	10/30/08 13:59	250 mM NO ₃ + C ₂ H ₂	2	6.5	461
BHM GW6	2	10/30/08 10:20	10/30/08 13:59	10/30/08 16:54	250 mM NO ₃ + C ₂ H ₂	2	6.5	4,680
BHM GW6	3	10/30/08 10:20	10/30/08 16:54	10/31/08 9:07	250 mM NO ₃ + C ₂ H ₂	2	6.5	9,850
BHM GW6	4	10/30/08 10:20	10/31/08 9:07	10/31/08 12:27	250 mM NO ₃ + C ₂ H ₂	2	6.5	16,000
BHM GW6	1	10/30/08 10:30	10/30/08 11:19	10/30/08 14:01	500 mM NO ₃	1	6.5	0
BHM GW6	2	10/30/08 10:30	10/30/08 14:01	10/30/08 16:56	500 mM NO ₃	1	6.5	2,320
BHM GW6	3	10/30/08 10:30	10/30/08 16:56	10/31/08 9:09	500 mM NO ₃	1	6.5	12,500
BHM GW6	4	10/30/08 10:30	10/31/08 9:09	10/31/08 10:55	500 mM NO ₃	1	6.5	25,800

BHM GW6	1	10/30/08 10:31	10/30/08 11:20	10/30/08 14:02	500 mM NO ₃ + C ₂ H ₂	2	6.5	1,470
BHM GW6	2	10/30/08 10:31	10/30/08 14:02	10/30/08 16:57	500 mM NO ₃ + C ₂ H ₂	2	6.5	7,970
BHM GW6	3	10/30/08 10:31	10/30/08 16:57	10/31/08 9:10	500 mM NO ₃ + C ₂ H ₂	2	6.5	15,000
BHM GW6	4	10/30/08 10:31	10/31/08 9:10	10/31/08 10:56	500 mM NO ₃ + C ₂ H ₂	2	6.5	27,400
BHM GW6	1	10/30/08 10:40	10/30/08 11:22	10/30/08 14:04	1000 mM NO ₃	1	6.5	135
BHM GW6	2	10/30/08 10:40	10/30/08 14:04	10/30/08 16:59	1000 mM NO ₃	1	6.5	4,440
BHM GW6	3	10/30/08 10:40	10/30/08 16:59	10/31/08 9:12	1000 mM NO ₃	1	6.5	7,570
BHM GW6	1	10/30/08 10:42	10/30/08 11:23	10/30/08 14:05	1000 mM NO ₃ + C ₂ H ₂	2	6.5	183
BHM GW6	2	10/30/08 10:42	10/30/08 14:05	10/30/08 17:00	1000 mM NO ₃ + C ₂ H ₂	2	6.5	6,240
BHM GW6	3	10/30/08 10:42	10/30/08 17:00	10/31/08 9:13	1000 mM NO ₃ + C ₂ H ₂	2	6.5	19,000

¹Sequence numbers refer to the chronologically ordered N₂O release rate measurements at a given site for the same treatment following sealing of the chamber.

²Replicate measurements refers to the number of individual chambers receiving the same treatment. Values shown are for the average of measurements receiving the same treatment.