

TABLE S1. Number of bioluminescent displays produced by female members of *Odontosyllis* spp. observed in 5 min intervals over 3 distinct habitat types. For 3 consecutive nights, 3 different observers collected data from a different location within each habitat type. Observers rotated habitat type each night. Depth measurements were collected several hours prior to data collection. All data were collected south of South Water Caye, Belize (16°48'43.2"N, 88°04'58.3"W). Asterisk denotes depth data were not collected.

Time of Data Collection	6 Jan 2016			7 Jan 2016			8 Jan 2016			Mean		
	Reef (243.6 cm)	Rubble (58.4 cm)	Grass (81.8 cm)	Reef (*)	Rubble (185.4 cm)	Grass (135.9 cm)	Reef (289.6 cm)	Rubble (122.6 cm)	Grass (103.5 cm)	Reef	Rubble	Grass
18:30-18:35	0	0	3	0	5	3	1	0	0	0.33	1.67	2.00
18:35-18:40	0	0	2	2	2	5	2	1	0	1.33	1.00	2.33
18:40-18:45	1	1	0	11	2	0	0	2	0	4.00	1.67	0.00
18:45-18:50	1	0	0	1	1	0	2	1	1	1.33	0.67	0.33
18:50-18:55	2	0	0	2	0	0	2	0	1	2.00	0.00	0.33
18:55-19:00	3	0	0	1	0	0	1	0	0	1.67	0.00	0.00
19:00-19:05	1	0	1	0	0	0	0	1	0	0.33	0.33	0.33
19:05-19:10	4	1	0	0	0	1	0	0	0	1.33	0.33	0.33
19:10-19:15	4	0	1	0	0	2	2	0	0	2.00	0.00	1.00
19:15-19:20	4	0	1	0	0	0	0	0	0	1.33	0.00	0.33
19:20-19:25	6	0	3	0	0	0	0	0	0	2.00	0.00	1.00
19:25-19:30	6	1	0	0	0	0	0	0	0	2.00	0.33	0.00
Total	32	3	11	17	10	11	10	5	2			