

Supporting Information

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Table S1. Mean \pm SE perch height, proportion of time spent signaling, maximum head-bob amplitude, and number of bobs per display for each island

Treatment	Island name	Perch height, cm	Proportion of time signaling	Maximum amplitude, mm	Bobs/display	Visits	Hours
Control	Barge	27.4 \pm 2.5 (30)	0.05 \pm 0.01 (39)	21.6 \pm 5.7 (4)	5.0 \pm 1.2 (4)	4	11.5
	Buddy	30.0 \pm 3.5 (34)	0.02 \pm 0.01 (39)	19.5 \pm 1.8 (4)	8.0 \pm 1.6 (4)	8	17
	Five	46.0 \pm 6.8 (25)	0.05 \pm 0.01 (26)	19.4 \pm 1.7 (6)	7.3 \pm 0.5 (6)	4	8.5
	X3	31.8 \pm 3.4 (35)	0.04 \pm 0.01 (36)	20.0 \pm 3.2 (6)	5.1 \pm 0.6 (6)	5	12.5
Experimental	One	65.3 \pm 6.5 (25)	0.03 \pm 0.01 (25)	9.4 \pm 1.9 (4)	6.4 \pm 0.7 (4)	6	10.5
	One Pine	53.1 \pm 3.8 (30)	0.03 \pm 0.01 (32)	21.4 \pm 2.5 (6)	6.8 \pm 0.6 (6)	5	10.5
	Six	102.9 \pm 14.5 (8)	0.02 \pm 0.01 (8)	9.3 \pm 4.8 (2)	6.3 \pm 2.8 (2)	9	16
	X0	61.1 \pm 7.2 (12)	0.04 \pm 0.02 (12)	11.7 \pm 3.6 (4)	6.1 \pm 1.5 (4)	2	5.5
	Y5	101.9 \pm 8.4 (23)	0.02 \pm 0.01 (23)	12.8 \pm 3.5 (3)	6.0 \pm 2.0 (3)	6	13

Sample sizes are given in parentheses. The number of visits to each island and number of total hours spent on each island during the filming of spontaneous head-bob displays also are provided.