

Habitat selection by green turtles in a spatially heterogeneous benthic landscape in Dry Tortugas National Park, Florida

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Aquatic Biology 24: 185–199 (2016)

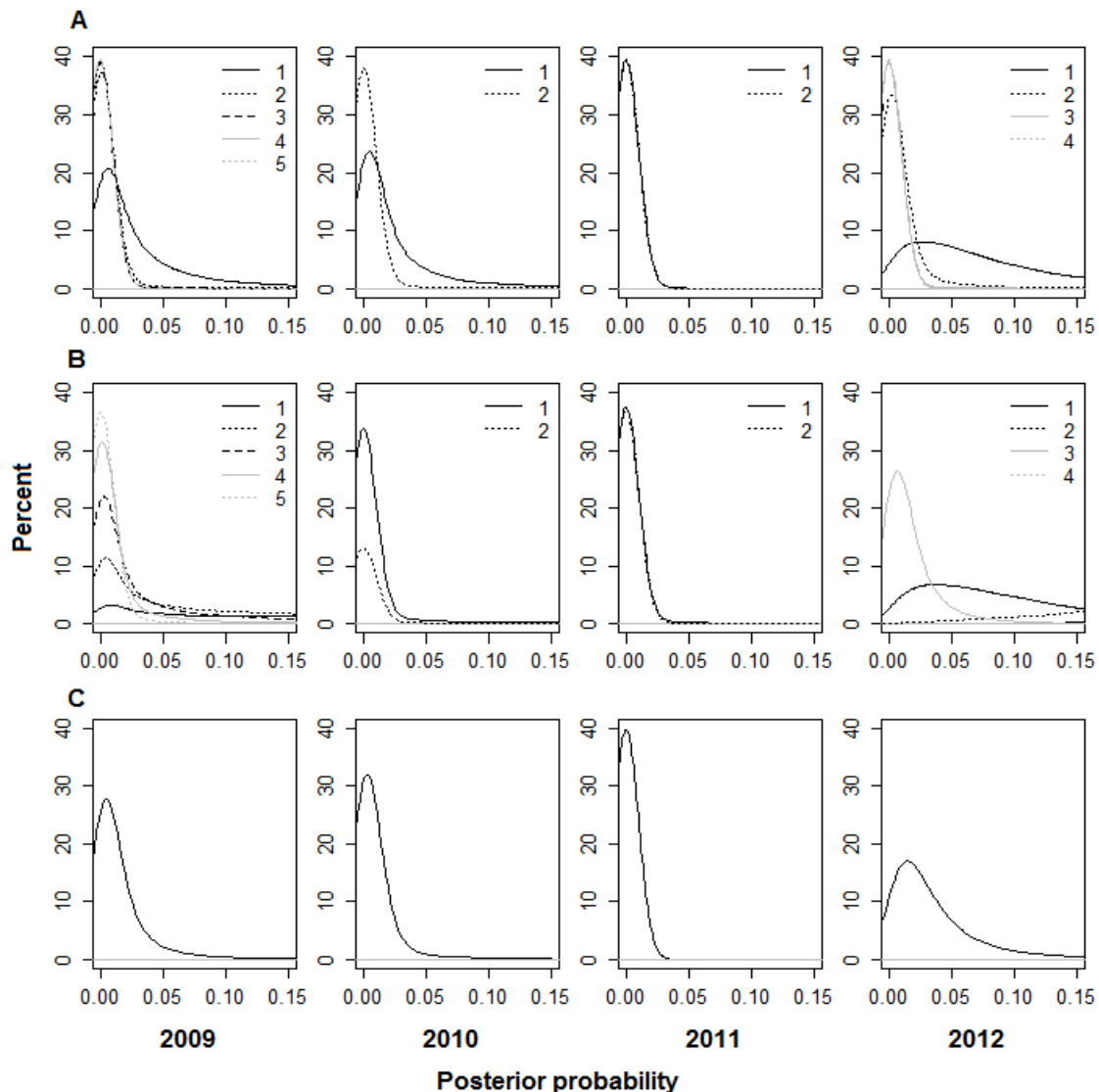


Figure S1. Density plots of the posterior probability of green turtle detections at acoustic stations deployed in Dry Tortugas National Park from 2009-2012 with 13 acoustically tagged turtles by the daily model (A) and the seasonal model (B) and the estimated conditional probability of multiple turtle detections in a day at a station given at least one turtle detection (C). Numbers in the legend (1–5) indicate the number of detected turtles in a day (A) or season (B).

Table S1. Posterior summary (mean, SD, median, and 95% credible interval as indicated by 2.5% and 97.5% of the samples) of parameters for the models of daily and seasonal detection probability at stations, estimated by detections at acoustic receivers deployed in Dry Tortugas National Park from 2009 to 2013 with 13 tagged turtles.

Year	Daily detection model						Seasonal detection model				
	Parameter	Mean	SD	2.50%	Median	97.50%	Mean	SD	2.50%	Median	97.50%
2009	B_0	-6.2840	2.4740	-12.7200	-5.8600	-2.5010	-2.5360	1.9460	-7.4310	-2.1830	0.4378
	p_0	0.9522	0.1143	0.6744	0.9859	1.0000	0.5648	0.3058	0.0093	0.5863	0.9971
	p_1	0.0375	0.0635	< 0.0001	0.0140	0.2438	0.2446	0.1399	0.0017	0.2778	0.4093
	p_2	0.0056	0.0311	< 0.0001	< 0.0001	0.0437	0.1124	0.1138	< 0.0001	0.0701	0.3427
	p_3	0.0025	0.0233	< 0.0001	< 0.0001	0.0037	0.0478	0.0808	< 0.0001	0.0083	0.3134
	p_4	0.0014	0.0195	< 0.0001	< 0.0001	0.0002	0.0202	0.0603	< 0.0001	0.0005	0.2387
	p_5	0.0008	0.0165	< 0.0001	< 0.0001	< 0.0001	0.0102	0.0662	< 0.0001	< 0.0001	0.0829
	$p_{\text{conditional}}$	0.0244	0.0832	< 0.0001	0.0057	0.1511					
2010	B_0	-5.6960	2.3630	-10.9900	-5.3950	-1.5910	11.1500	32.3100	-51.5300	9.2150	80.090
	p_0	0.9604	0.1016	0.6905	0.9910	1.0000	0.3489	0.4635	0.0000	< 0.0001	1.0000
	p_1	0.0345	0.0730	< 0.0001	0.0090	0.2807	0.0305	0.0973	0.0000	< 0.0001	0.4282
	p_2	0.0051	0.0385	< 0.0001	< 0.0001	0.0286	0.6206	0.4717	< 0.0001	0.9998	1.0000
		$p_{\text{conditional}}$	0.0129	0.0472	< 0.0001	0.0023	0.0924				
2011	B_0	-16.5200	6.7840	-31.9700	-15.4000	-6.4820	-45.2700	39.2600	-131.2000	-37.7000	19.1400
	p_0	0.9989	0.0218	0.9969	1.0000	1.0000	0.9414	0.2230	< 0.0001	1.0000	1.0000
	p_1	0.0008	0.0128	< 0.0001	< 0.0001	0.0031	0.0097	0.0539	0.0000	< 0.0001	0.1263
	p_2	0.0003	0.0126	< 0.0001	< 0.0001	< 0.0001	0.0490	0.2094	0.0000	< 0.0001	1.0000
		$p_{\text{conditional}}$	0.0005	0.0137	< 0.0001	< 0.0001	0.0008				
2012	B_0	-4.1950	1.4110	-7.403	-4.0590	-1.8100	-0.8391	0.5813	-2.0490	-0.8157	0.2238
	p_0	0.8964	0.1233	0.5459	0.9338	0.9976	0.2561	0.1496	0.0391	0.2311	0.6161
	p_1	0.0904	0.0852	0.0024	0.0645	0.3439	0.3693	0.0658	0.1837	0.3946	0.4218
	p_2	0.0106	0.0342	< 0.0001	0.0017	0.0874	0.2563	0.0889	0.0604	0.2699	0.3742
	p_3	0.0021	0.0187	< 0.0001	< 0.0001	0.0100	0.0993	0.0785	0.0053	0.0800	0.3045
	p_4	0.0005	0.0105	< 0.0001	< 0.0001	0.0004	0.0190	0.0364	0.0002	0.0088	0.0954
		$p_{\text{conditional}}$	0.0452	0.0722	0.00009	0.0255	0.2146				