

TABLE S3. Mean model estimated capture and recapture parameters of bottlenose dolphins for the Bay and Selective datasets (parsed encounter histories) for each survey area along the upper Texas coast. The Bay dataset includes all distinctive individuals observed in the bay or Gulf pass to the bay in ≥ 1 season. The Selective dataset included all individuals in the Bay dataset, and additionally included individuals observed in coastal waters during both summer and winter seasons but excluded dolphins found to use more than one survey area (inter-bay matches). M_o = constant capture probability, M_b = capture probability influenced by behavioral response to initial capture, M_t = time variable capture probability. Multiple models (e.g., M_o , M_b , M_t) indicate the estimate was derived using model averaging. p = capture, c = recapture, SE = standard error, LCI = lower confidence interval, UCI = upper confidence interval

Model and Dataset	Parameter	Estimate	SE	LCI	UCI
West Bay					
Winter - Bay, M_t					
	1 p	0.13	0.06	0.05	0.28
	2 p	0.47	0.09	0.3	0.65
	3 p	0.71	0.1	0.49	0.86
	4 c	0.47	0.09	0.3	0.65
	5 c	0.71	0.1	0.49	0.86
Summer - Bay, M_t					
	1 p	0.8	0.07	0.63	0.91
	2 p	0.89	0.06	0.71	0.96
	3 p	0.12	0.06	0.05	0.28
	4 c	0.89	0.06	0.71	0.96
	5 c	0.12	0.06	0.05	0.28
Winter - Selective, M_t					
	1 p	0.16	0.07	0.07	0.34
	2 p	0.51	0.1	0.32	0.7
	3 p	0.67	0.11	0.44	0.84
	4 c	0.51	0.1	0.32	0.7
	5 c	0.67	0.11	0.44	0.84
Summer - Selective, M_t					
	1 p	0.86	0.07	0.68	0.95
	2 p	0.89	0.06	0.71	0.96
	3 p	0.13	0.06	0.05	0.29
	4 c	0.89	0.06	0.71	0.96
	5 c	0.13	0.06	0.05	0.29
Galveston Bay					
Winter - Bay, M_t					
	1 p	0.2	0.02	0.15	0.25
	2 p	0.1	0.02	0.08	0.14
	3 p	0.12	0.02	0.09	0.16
	4 p	0.15	0.02	0.12	0.2
	5 c	0.1	0.02	0.08	0.14
	6 c	0.12	0.02	0.09	0.16

	7	c	0.15	0.02	0.12	0.2
Summer - Bay, M_o , M_b , M_t						
	1	p	0.21	0.03	0.15	0.28
	2	p	0.21	0.03	0.15	0.29
	3	p	0.21	0.03	0.15	0.28
	4	c	0.22	0.02	0.19	0.26
	5	c	0.22	0.02	0.19	0.26
Winter - Selective, M_t						
	1	p	0.19	0.02	0.15	0.24
	2	p	0.11	0.02	0.09	0.15
	3	p	0.13	0.02	0.1	0.17
	4	p	0.17	0.02	0.14	0.22
	5	c	0.11	0.02	0.09	0.15
	6	c	0.13	0.02	0.1	0.17
	7	c	0.17	0.02	0.14	0.22
Summer - Selective, M_o , M_b , M_t						
	1	p	0.22	0.03	0.17	0.29
	2	p	0.22	0.03	0.17	0.29
	3	p	0.22	0.03	0.17	0.29
	4	c	0.23	0.02	0.2	0.27
	5	c	0.23	0.02	0.2	0.27
<hr/> Sabine Lake						
Winter - Bay, M_o , M_b , M_t						
	1	p	0.25	0.13	0.08	0.56
	2	p	0.21	0.12	0.06	0.53
	3	p	0.29	0.15	0.09	0.62
	4	c	0.22	0.09	0.08	0.45
	5	c	0.3	0.12	0.12	0.56
Summer - Bay, M_t						
	1	p	0.18	0.05	0.1	0.29
	2	p	0.21	0.05	0.12	0.33
	3	p	0.4	0.08	0.26	0.56
	4	c	0.21	0.05	0.12	0.33
	5	c	0.4	0.08	0.26	0.56
Winter - Selective, M_t						
	1	p	0.22	0.06	0.12	0.36
	2	p	0.15	0.05	0.07	0.27
	3	p	0.39	0.09	0.23	0.58
	4	c	0.15	0.05	0.07	0.27
	5	c	0.39	0.09	0.23	0.58
Summer - Selective, M_t						
	1	p	0.15	0.04	0.09	0.24
	2	p	0.21	0.05	0.13	0.32
	3	p	0.37	0.07	0.25	0.52

4 c	0.21	0.05	0.13	0.32
5 c	0.37	0.07	0.25	0.52
