

Supplemental Materials

Table S1. Days (n = 63) and hours (n = 287.8) of observation of bottlenose dolphins in CCSC-Aransas Pass, Texas per month from June 2021 to September 2022.

Season	Month	Days/Month	Hours	Mean hours/day (\pm SD)
Summer	June	7	28.9	4.1 \pm (1.4)
	July	10	47.2	4.7 \pm (1.6)
	August	12	48.5	4.0 \pm (1.5)
Fall	September	6	27.3	4.6 \pm (0.9)
	October	3	14.2	4.7 \pm (0.3)
	November	5	20.2	4.0 \pm (0.9)
Winter	December	5	21.2	4.2 \pm (0.9)
	January	2	9.1	4.6 \pm (1.0)
	February	2	10.4	5.2 \pm (0.7)
Spring	March	2	8.9	4.4 \pm (1.0)
	April	2	11.5	5.7 \pm (1.2)
	May	7	40.4	5.8 \pm (0.4)

Table S2. Contingency table from the multiple logistic regression model of observed (top) and expected (middle) counts of each behavioral state across season (n = 4,339 tracks) with chi-square value (bottom). Star (*) indicates a chi-square value above model chi-square of 16.92.

Contingency Table		Season				Total
		Summer	Fall	Spring	Winter	
Behavior	Travel	564	302	174	87	1127
		485.19	260.52	247.27	134.02	
		12.80	6.61	21.71*	16.50	
	Forage	679	424	420	346	1869
		804.63	432.04	410.07	222.26	
		19.62*	0.15	0.24	68.88*	
	Mill	399	104	111	46	660
		284.14	152.57	144.81	78.49	
		46.43*	15.46	7.89	13.45	
	Social	226	173	247	37	683
		294.041	157.8818	149.8539	81.22332	
		15.74	1.45	62.98*	24.08*	
	Total	1868	1003	952	516	4339

Table S3. Contingency table from the multiple logistic regression R model of observed (top) and expected (middle) counts of each behavioral state across time of day (n = 4,339 tracks) with chi-square value (bottom). Star (*) indicates a chi-square value above model chi-square of 16.92.

Contingency Table		Time of Day				Total
		Mid-Day	Early Afternoon	Late Afternoon	Morning	
Behavior	Travel	426	492	52	157	1127
		420.00	392.72	106.75	207.53	
		0.09	25.10*	28.08*	12.30	
	Forage	672	530	239	428	1869
		696.51	651.29	177.09	344.27	
		0.86	22.59*	21.64*	20.36*	
	Mill	281	198	55	126	660
		245.96	229.99	62.52	121.53	
		4.99	4.45	0.90	0.16	
	Social	238	292	65	88	683
		254.53	238.00	64.69532	125.77	
		1.07	12.25	0.001	11.34	
	Total	1617	1512	411	799	4339

Table S4. Contingency table from the multiple logistic regression model of observed (top) and expected (middle) counts of each behavioral state across vessel type (n = 4,339 tracks) with chi-square value (bottom).

Contingency Table		Behavior				Total
		Travel	Forage	Mill	Social	
Vessel Type	None	295	363	98	127	883
		229.35	380.35	134.31	138.99	
		18.79	0.79	9.82	1.035	
	Coastal Cargo	33.00	29.00	30.00	12.00	104
		27.01	44.80	15.82	16.37	
		1.33	5.57	12.71	1.17	
	Ecotour	56.00	52.00	42.00	49.00	199
		51.69	85.72	30.27	31.32	
		0.36	13.26	4.55	9.97	
	Ferry	37	119	7	5	168
		43.64	72.37	25.55	26.44	
		1.01	30.05	13.47	17.39	
	Fishing	33	69	17	16	135
		35.06	58.15	20.53	21.25	
		0.12	2.02	0.61	1.30	
	Mixed	354	777	280	274	1685
		437.66	725.80	256.30	265.24	
		15.99	3.61	2.19	0.29	
	Offshore Commercial	19	24	8	5	56
		14.54	24.12	8.52	8.81	
		1.36	0.001	0.032	1.65	
	Personal	279	401	170	175	1025

	Enforcement	266.23 0.61	441.51 3.72	155.91 1.27	161.34 1.16	33
		3	19	3	8	
		8.57 3.62	14.21 1.61	5.02 0.81	5.19 1.52	
	Supply	9	7	4	10	30
		7.79	12.92	4.56	4.72	
		0.19	2.71	0.07	5.89	
	Tug	9	9	1	2	21
		5.45	9.05	3.19	3.31	
		2.30	0.0002	1.51	0.52	
	Total	1127	1869	660	683	4339

Table S5. Contingency table from the multiple logistic regression model of observed (top) and expected (middle) counts of each behavioral state across vessel size (n = 4,339 tracks) with chi-square value (bottom).

Contingency Table		Vessel Size						Total
		None	Extra Large	Large	Medium	Mixed	Small	
Behavior	Travel	295	27	19	62	358	366	1127
		229.3	22.3	18.4	64.2	423.1	369.6	
		18.8	1.0	0.0	0.1	10.0	0.0	
	Forage	363	34	39	107	785	541	1869
		380.3	37.0	30.6	106.4	701.7	612.9	
		0.8	0.3	2.3	0.0	9.9	8.4	
	Mill	98	17	5	45	240	255	660
		134.3	13.1	10.8	37.6	247.8	216.5	
		9.8	1.2	3.1	1.5	0.2	6.9	
	Social	127	8	8	33	246	261	683
		139.0	13.5	11.2	38.9	256.4	224.0	
		1.0	2.3	0.9	0.9	0.4	6.1	
	Total	883	86	71	247	1629	1423	4339