

Supplementary Table 3A. Number of monitored hauls with recorded interactions of killer whales (*Orcinus orca*) with fishing operations from 2001 through 2016, by fishery¹ and year, in the Bearing Sea, Aleutian Islands, and Gulf of Alaska. Numbers are provided for each category of observer coverage: 100% fishery coverage (full) and some fishery coverage (partial). Fishery codes, defined at the bottom of this document, correspond to the 23 groundfish fisheries operating in the Bering Sea, Aleutian Islands, and GOA in the List of Fisheries determined by the National Marine Fisheries Service. Blank cells indicate that no hauls were monitored, and zeros (0) indicate that no monitored hauls had reported interactions. NA= specific fishery could not be determined because the necessary data were not available.

Year	Full coverage by fishery																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	NA	Total
2001	0	3	4	1	0	0	0	0	0	87	74	6	3	8	0	2		2		0		0	0	0	0	190
2002	0	11	2	2	0	0	0	0	0	39	35	15	1	4	0	0		6		0			0	0	4	119
2003	0	2	0	2	0	0	0		0	67	35	9	3	3	0	0		4	0	0			0	0	1	126
2004	0	15	3	0	0	0	0		0	37	45	22	9	8	0	1		17		0	0		0	2	4	163
2005	0	0	0	0	0	0			0	27	14	19	4	15	0	3		11	0	0		0		0	0	93
2006	0	2	0	0	0	0			0	25	23	8	2	12	0	0	1	34	0	0	0			3	1	111
2007	1	1	0	1	0	0			0	13	18	4	5	12	0	0		3		0				9	8	75
2008	0	10	0	3	0	0	0	0	0	1	34			9	0	0		3		0			0	3	2	65
2009	0	12	0	0	0	0	0		0	29	35		1	13	0	3		11		0	0		0	5	0	109
2010	0	8	2	2	1	0			0	14	55	0	4	11	0			8		0	0			5	2	112
2011	0	8	0	0	0	0	0	0	0	12	55			7	0	0	0	26		0	0	0		4	2	114
2012	2	18	1	0	1	0	0		0	10	80		2	6	0			17		0	0		0	4	0	141
2013	1	19	0	0	1	0	0	0	0	17	89	16	6	14	0			22		0				0	0	185
2014	1	20	0	4	2	0	0	0	0	6	85	4	0	7	0			4		0				3	0	136
2015	0	18	0	0	0	0	0	0	0	24	71	8	0	4	5			15		0				0	2	147
2016	0	16	0	0	0	0	0		0	69	139	11	1	5	0	0		3		0				2	0	246
Total	5	163	12	15	5	0	0	0	0	477	887	122	41	138	5	9	1	186	0	0	0	0	0	42	24	2132
Year	Partial coverage by fishery																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	NA	Total
2001	0	2	1	0	0	0	0	0	0	14	9	13	0	2	0	0	0	5		0	0	0	0	0	0	46
2002		4	0	0		0	0	0	0	2	8	6	0	2	0	0	0	5		0	1	0	0	0	0	28
2003	0	0	1	0	0	0	0	0	0	0	17	6	2	1	0	0		3		0	0	0	0	0	2	32
2004	0	12	1	0	0	0	0	0	0	14	6	11		2	0	0	0	1		0	0	0	0	0	0	47
2005	1	0	0			0	0	0	0	8	7	8	2	0	0	3		7		0	0	0	0	0	0	36
2006	0	0	1	0	0	0	0	0	0	9	10	4		4	4	3		5	0	0	0	0	0	2	0	42
2007	0	1	0	0	0	0	0	0	0	5	5	1		1	0	0		20		0	1	0	0	0	0	34
2008	1	75	0	0	0	1	0	0	0	3	0	3		6	0	3		1		0	12	1	0	6	5	117
2009	0	5	0	0	1	0	1	0	0	17	12			14	0	0		15		0	18	0	0	0	0	83
2010		2	0	0	0	0	0	0	0	9	13	0	0	4	0	0	0	3		0	24	0	0	5	0	60
2011	1	2	0	0	1	0	0	0	0	2	27	3	0	16	0	0		11		0	4	0	0	1	1	69
2012	0	6	1	0	0	0	1	0	0	4	16	6	0	5	0	0		14		0	0	0	0	0	3	56
2013			0			0	0	0			0	11		6	0	4		7		0	2		0	0	0	30
2014			0			0	0	0	0		1	8	3	6	0	5	0	15		0	3		0		0	41
2015			0			0	0	0			3	51		0	8	7	0	9		0	1	0	0		0	79
2016			0			0	0	0				35		2	0	10	0	28		0	16	0	0	0	3	94
Total	3	109	5	0	2	1	2	0	0	87	134	166	7	71	12	35	0	149	0	0	82	1	0	14	14	894
Both Strata	8	272	17	15	7	1	2	0	0	564	1021	288	48	209	17	44	1	335	0	0	82	1	0	56	38	3026

Supplementary Table 3B. Percentage of monitored hauls with recorded interactions of killer whales (*Orcinus orca*) with fishing operations from 2001 through 2016, by fishery¹ and year. in the Bearing Sea, Aleutian Islands, and Gulf of Alaska. Percentages are provided for each category of observer coverage: 100% fishery coverage (full) and some fishery coverage (partial). Fishery codes, defined at the bottom of this document, correspond to the 23 groundfish fisheries operating in the Bering Sea, Aleutian Islands, and GOA in the List of Fisheries determined by the National Marine Fisheries Service. Blank cells indicate that no hauls were monitored, and zeros (0) indicate that no monitored hauls had reported interactions. NA= specific fishery could not be determined because the necessary data were not available.

Year	Full coverage by fishery																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	NA
2001	0.0 0	0.06	0.33	0.01	0.00	0.00	0.00	0.00	0.00	20.81	0.79	16.67	60.00	14.04	0.00	2.27		1.23		0.00		0.00	0.00	0.00	0.00
2002	0.0 0	0.21	0.13	0.01	0.00	0.00	0.00	0.00	0.00	11.17	0.41	21.13	100.0	4.71	0.00	0.00		3.24		0.00			0.00	0.00	2.42
2003	0.0 0	0.04	0.00	0.01	0.00	0.00	0.00		0.00	14.19	0.33	6.57	100.0	2.36	0.00	0.00		1.17	0.00	0.00			0.00	0.00	0.76
2004	0.0 0	0.35	0.12	0.00	0.00	0.00	0.00		0.00	9.71	0.49	16.54	81.82	8.42	0.00	1.69		6.03		0.00	0.00		0.00	3.57	1.06
2005	0.0 0	0.00	0.00	0.00	0.00	0.00	NA		0.00	6.37	0.16	20.88	66.67	9.93	0.00	2.61		3.83	0.00	0.00		0.00		0.00	0.00
2006	0.0 0	0.05	0.00	0.00	0.00	0.00	NA		0.00	7.33	0.37	8.60	18.18	16.44	0.00	0.00	50.00	10.90	0.00	0.00	0.00			2.19	1.33
2007	0.0 9	0.02	0.00	0.01	0.00	0.00	NA		0.00	3.67	0.38	11.43	50.00	10.62	0.00	0.00		1.36		0.00				12.68	3.94
2008	0.0 0	0.11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.43	0.57			9.09	0.00	0.00		1.09		0.00			0.00	25.00	0.60
2009	0.0 0	0.16	0.00	0.00	0.00	0.00	0.00		0.00	7.47	0.58		33.33	5.28	0.00	7.69		3.89		0.00	0.00		0.00	22.73	0.00
2010	0.0 0	0.11	0.37	0.03	0.25	0.00	NA		0.00	2.87	0.97	0.00	66.67	5.47	0.00			3.15		0.00	0.00			3.38	1.64
2011	0.0 0	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.15	0.88			5.22	0.00	0.00	0.00	9.49		0.00	0.00	0.00		0.98	0.87
2012	0.1 4	0.24	0.22	0.00	0.20	0.00	0.00		0.00	3.55	1.23		100.0	17.14	0.00			8.54		0.00	0.00		0.00	0.95	0.00
2013	0.1 4	0.18	0.00	0.00	0.11	0.00	0.00	0.00	0.00	11.18	0.99	9.64	28.57	2.22	0.00			5.71		0.00				0.00	0.00
2014	0.1 3	0.19	0.00	0.04	0.27	0.00	0.00	0.00	0.00	3.53	0.84	13.79	0.00	1.42	0.00			1.80		0.00				1.44	0.00
2015	0.0 0	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.08	0.77	33.33	0.00	1.05	0.65			6.61		0.00			0.00	0.63	0.00
2016	0.0 0	0.12	0.00	0.00	0.00	0.00	0.00		0.00	28.63	1.82	10.28	6.25	2.70	0.00	0.00		2.33		0.00			NA	0.77	0.00
Year	Partial coverage by fishery																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	NA
2001	0.0 0	0.34	0.08	0.00	0.00	0.00	0.00	0.00	0.00	18.92	0.38	7.74	0.00	1.17	0.00	0.00	0.00	0.55		0.00	0.00	0.00	0.00	0.00	0.00
2002	N A	0.60	0.00	0.00	NA	0.00	0.00	0.00	0.00	2.08	0.42	3.70	0.00	0.63	0.00	0.00	0.00	0.61		0.00	0.29	0.00	0.00	0.00	0.00
2003	0.0 0	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	3.73	100.0	1.09	0.00	0.00		0.31		0.00	0.00	0.00	0.00	0.00	1.26
2004	0.0 0	1.52	0.06	0.00	0.00	0.00	0.00	0.00	0.00	15.05	0.30	22.00		1.54	0.00	0.00	0.00	0.12		0.00	0.00	0.00	0.00	0.00	0.00
2005	1.0 8	0.00	0.00			0.00	0.00	0.00	0.00	10.81	0.32	10.13	100.0	0.00	0.00	6.12		0.74		0.00	0.00	0.00	0.00	0.00	0.00

Year	Full coverage by fishery																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	NA
2006	0.0 0	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	14.52	0.56	4.40		3.67	0.96	4.84		0.48	0.00	0.00	0.00	0.00	0.00	3.85	0.00
2007	0.0 0	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.93	0.33	6.67		0.70	0.00	0.00		2.07		0.00	0.32	0.00	0.00	0.00	0.00
2008	4.5 5	1.89	0.00	0.00	0.00	0.08	0.00	0.00	0.00	9.68	0.00	7.89		2.88	0.00	30.00		0.14		0.00	3.57	0.59	0.00	4.65	1.92
2009	0.0 0	0.17	0.00	0.00	4.35	0.00	0.37	0.00	0.00	33.33	0.59	NA		3.47	0.00	0.00		2.14		0.00	4.47	0.00	0.00	0.00	0.00
2010		0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.57	0.73	0.00	0.00	0.99	0.00	0.00	0.00	0.45		0.00	6.58	0.00	0.00	6.33	0.00
2011	25. 00	0.08	0.00	0.00	1.61	0.00	0.00	0.00	0.00	2.53	1.68	5.56	0.00	4.17	0.00	0.00		1.96		0.00	1.12	0.00	0.00	0.75	0.88
2012	0.0 0	0.27	0.09	0.00	0.00	0.00	0.19	0.00	0.00	2.22	0.98	30.00	0.00	1.21	0.00	0.00		1.70		0.00	0.00	0.00	0.00	0.00	1.44
2013			0.00			0.00	0.00	0.00			0.00	4.72		6.90	0.00	0.48		0.56		0.00	2.22		0.00	0.00	0.00
2014			0.00			0.00	0.00	0.00	0.00		1.75	1.67	60.00	4.55	0.00	0.32	0.00	1.00		0.00	4.17		0.00		0.00
2015			0.00			0.00	0.00	0.00			13.04	10.83		0.00	1.63	0.63	0.00	0.55		0.00	3.33	0.00	0.00		0.00
2016			0.00			0.00	0.00	0.00				8.35		100.0	0.00	0.78	0.00	1.92		0.00	27.12	0.00	0.00	0.00	4.23

¹ Codes for fisheries in List of Fisheries that operate in the Bering Sea and Aleutian Islands (BSAI) and in the Gulf of Alaska (GOA) off Alaska (AK)

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|--------------------------------------|------------------------------------|
| 1 AK BSAI Atka mackerel trawl | 13 AK BSAI rockfish longline |
| 2 AK BSAI flatfish trawl | 14 AK BSAI sablefish longline |
| 3 AK BSAI Pacific cod trawl | 15 AK GOA Pacific cod longline |
| 4 AK BSAI pollock trawl | 16 AK GOA Pacific halibut longline |
| 5 AK BSAI rockfish trawl | 17 AK GOA rockfish longline |
| 6 AK GOA flatfish trawl | 18 AK GOA sablefish longline |
| 7 AK GOA Pacific cod trawl | 19 AK GOA flatfish longline |
| 8 AK GOA pollock trawl | 20 AK BSAI Pacific cod pot |
| 9 AK GOA rockfish trawl | 21 AK BS sablefish pot |
| 10 AK BSAI Greenland turbot longline | 22 AK AI sablefish pot |
| 11 AK BSAI Pacific cod longline | 23 AK GOA Pacific cod pot |
| 12 AK BSAI Pacific halibut longline | 24 Unknown |