

Assessing age distributions of killer whale *Orcinus orca* populations from the composition of endogenous fatty acids in their outer blubber layers

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Table A1. *Orcinus orca*. Sex, collection date, age class, ecotype, location, genetic information and known/estimated age for killer whale biopsy samples analyzed for endogenous fatty acids and used to develop the age-fatty acid model

Sample no.	Animal no.	Specimen no.	Sex	Collection date	Age class	Ecotype	Location	Age ^a (yr)
Eastern Aleutian Island residents (EAI/R)								
1	EA-138	EA-03-03	M	29 Jun 2003	Juvenile	Resident	Akutan Island, AK	5*
2	WR-101	EA-04-001	M	6 Jul 2004	Sub-adult	Resident	Unalaska Island, AK	19
Gulf of Alaska residents (GOA/R)								
3	AJ-1	AKW-03-08	M	3 Aug 2003	Adult	Resident	Montague Strait, Prince William Sound, AK	39
4	AF-19	AKW-03-10	M	4 Aug 2003	Adult	Resident	Montague Strait, Prince William Sound, AK	23*
5	AJ-10	AKW-03-14	M	5 Sep 2003	Adult	Resident	Port Bainbridge, Prince William Sound, AK	21*
6	AD-5	AKW-04-01	M	22 May 2004	Adult	Resident	No Name Island, Kenai Fjords, AK	20
7	AE-18	PWS-04-02	M	4 Aug 2004	Sub-adult	Resident	Prince William Sound, AK	14*
8	AE-16	PWS-04-03	M	7 Aug 2004	Sub-adult	Resident	Stockdale Harbor, Prince William Sound, AK	15*
9	AE-3	PWS-04-04	M	7 Aug 2004	Adult	Resident	Stockdale Harbor, Prince William Sound, AK	27
10	AK-1	PWS-04-05	M	7 Aug 2004	Adult	Resident	Montague Point, Prince William Sound, AK	36
11	AE-1	PWS-04-06	M	10 Aug 2004	Adult	Resident	Montague Strait, Prince William Sound, AK	41
12	AI-5	PWS-04-07	M	6 Sep 2004	Adult	Resident	Elrington Island, Prince William Sound, AK	32
13	AB-43	KF-05-07	M	3 Sep 2005	Sub-adult	Resident	Kenai Fjords, AK	17*
14	AI-6	AKW-03-04	M	2003	Adult	Resident	Cheval Narrows, Kenai Fjords, AK	28*
15	AD-21	AKW-04-02	F	22 May 2004	Sub-adult	Resident	Pony Point, Prince William Sound, AK	14*
Southeast Alaska residents (SEA/R)								
16	AF-19	SEAK-03-04	M	15 Jul 2003	Adult	Resident	W. Deer Harbor, Southeast Alaska	23*
17	AF-30	SEAK-03-05	M	15 Jul 2003	Juvenile	Resident	W. Deer Harbor, Southeast Alaska	13*
18	AF-47	SEAK-03-06	F	15 Jul 2003	Juvenile	Resident	Cross Sound, Southeast Alaska	7*
West coast northern residents (WC/R [NR])								
19	C-21	06-02729-FOS2466	F	18 Jul 2006	Juvenile	Resident	Prince Rupert, British Columbia, Canada	12*
West coast southern residents (WC/R [SR])								
20	L-98	L-98	M	13 Mar 2006	Juvenile	Resident	British Columbia, Canada	7*
21	J-1	J-1	M	19 May 2006	Adult	Resident	San Juan Island, Puget Sound, WA	55
22	J-19	J-19	F	15 Jun 2006	Adult	Resident	San Juan Island, Puget Sound, WA	27*
23	J-27	J-27	M	19 May 2006	Sub-adult	Resident	San Juan Island, Puget Sound, WA	15*
24	L-57	L-57	M	22 May 2006	Adult	Resident	San Juan Island, Puget Sound, WA	29*
25	J-39	J-39	M	23 May 2006	Juvenile	Resident	San Juan Island, Puget Sound, WA	3*
26	L-85	L-85	M	14 Jun 2006	Sub-adult	Resident	San Juan Island, Puget Sound, WA	15*
27	L-60	L-60	F	1 Apr 2002	Adult	Resident	Outer Coast, Washington State	30
Eastern Aleutian Island transients (EAI/T)								
28	EAT-124	FP-04-01	M	4 May 2004	Sub-adult	Transient	Unimak Island, AK	13
29	EAT-242	FP-04-15	M	9 May 2004	Sub-adult	Transient	Unimak Island, AK	15
30	EAT-161	FP-04-019	M	19 May 2004	Calf	Transient	Unimak Island, AK	2*
31	EAT-136	FP-04-25	M	30 May 2004	Sub-adult	Transient	Unimak Island, AK	18
32	EAT-141	FP-04-026	M	30 May 2004	Sub-adult	Transient	Umnak Island, AK	13
33	EAT-273	FP-05-03	M	11 May 2005	Sub-adult	Transient	Unimak Island, AK	14
34	EAT-133	FP-05-14	M	23 May 2005	Sub-adult	Transient	Unimak Island, AK	17

Sample no.	Animal no.	Specimen no.	Sex	Collection date	Age class	Ecotype	Location	Age ^a (yr)
35	EAT-229	FP-04-03	F	4 May 2004	Sub-adult	Transient	Unimak Island, AK	13
36	EAT-230	FP-04-04	F	4 May 2004	Sub-adult	Transient	Unimak Island, AK	14
37	EAT-163	FP-04-09	F	5 May 2004	Sub-adult	Transient	Unimak Island, AK	18
38	EAT-167	FP-04-07	F	5 May 2004	Adult	Transient	Unimak Island, AK	25
39	EAT-164	FP-04-13	F	7 May 2004	Juvenile	Transient	Unimak Island, AK	3*
40	EAT-239	FP-04-12	F	7 May 2004	Sub-adult	Transient	Unimak Island, AK	19
41	EAT-168	FP-04-17	F	13 May 004	Sub-adult	Transient	Unimak Island, AK	17
42	EAT-241	FP-04-16	F	13 May 2004	Adult	Transient	Unimak Island, AK	30
43	EAT-239	FP-04-021	F	20 May 2004	Adult	Transient	Unimak Island, AK	20
44	EAT-130	FP-04-024	F	26 May 2004	Juvenile	Transient	Unimak Island, AK	7
45	EAT-232	FP-05-02	F	8 May 2005	Sub-adult	Transient	Sankin Island, AK	19
46	EAT-181	FP-05-10	F	19 May 2005	Sub-adult	Transient	Unimak Island, AK	19
47	EAT-158	FP-05-11	?	19 May 2005	Juvenile	Transient	Unimak Island, AK	7
48	EAT-284	EA-05-01	?	3 Aug 2005	Juvenile	Transient	Unimak Island, AK	11
Prince William Sound transients (AT1/T)								
49	AT-14	AKW-03-012	M	31 Jul 2004	Adult	Transient	La Touche Island, AK	41
50	AT-4	AKW-04-003	F	12 Jun 2004	Adult	Transient	Humpy Cove, AK	30
51	AT-9	AKW-04-004	F	12 Jun 2004	Adult	Transient	Thumb Point, AK	39
52	AT-2	AKW-04-009	F	31 Jul 2004	Adult	Transient	Alate Island, AK	35
West coast transients (WC/T)								
53	T-93	SEAK-03-02	M	24 Jun 2003	Adult	Transient	Icy Strait, Southeast Alaska	34
54	T-85	SEAK-03-03	F	11 Jul 2003	Adult	Transient	Iscas Bay, Southeast Alaska	26
55	T124A	WA050202-03	F	2 Feb 2005	Adult	Transient	Hood Canal, Puget Sound, WA	23*
56	T71A ^b	WA050202-01	F	2 Feb 2005	Juvenile	Transient	Hood Canal, Puget Sound, WA	10*
57	T71B ^b	WA050202-02	F	2 Feb 2005	Juvenile	Transient	Hood Canal, Puget Sound, WA	5*
58	T71A ^b	WA050323-02	F	23 Mar 2005	Juvenile	Transient	Hood Canal, Puget Sound, WA	10*
59	T71B ^b	WA050323-01	F	23 Mar 2005	Juvenile	Transient	Hood Canal, Puget Sound, WA	5*

^aKnown/estimated age of killer whale at time of biopsy sampling. Asterisk (*) indicates whales whose ages are believed to be exact to within ± 1 yr. All others are estimates are believed to be accurate to within ± 3 yr. Ages were obtained from one of the following sources: Dahlheim et al. (1997), Ford & Ellis (1999), Ford et al. (2000), Matkin et al. (1999), Plater (2001), D. K. Ellifrit, A. M. van Ginneken, K. C. Balcomb (unpubl.), G. M. Ellis (unpubl.)

^bWhales that were biopsy-sampled repeatedly (~6 wk intervals)