

Table 1. Sex, date of first observation, estimated age, birthdate and survival status for each calf whose mother was sampled during her pregnancy or lactation of that calf.

Year	Calf Data						Mother of Calf data		
	Calf ID	Calf Sex	Date Calf was first photographed	Assigned Calf Birthday	Estimated age of Calf	Calf age at death	Mother of Calf	Birth year of Mother	Age of Mother
2007	J42	F	5/2/2007	5/2/2007		Alive	J16	1972	35
2008	K42	M	6/3/2008	4/3/08	1–3 mo	Alive	K14	1977	31
2008	L111	F	8/12/2008	7/30/2008	2 wk	<1 month	L47	1974	34
2009	L112	F	2/6/2009	1/24/2009	2 wk	3 years	L86	1991	18
2009	J44	M	2/6/2009	1/1/2009	1 mo +	Alive	J17	1977	32
2009	J45	M	3/3/2009	2/15/2009	2 wk	Alive	J14	1974 (died 2016)	35
2009	L113	F	10/10/2009	10/1/2009	1–2 wk	Alive	L94	1995	14
2009	J46	F	11/11/2009	10/28/2009	2 wk	Alive	J28	1993 (died 2016)	16
2010	J47	M	1/3/2010	12/9/2009	< 1 mo (12/5 no calf)	Alive	J35	1998	12
2010	K43	F	2/21/2010	1/31/2010	3 wk	Alive	K12	1972	38
2010	L115	M	8/6/2010	7/31/2010	1 wk	Alive	L47	1974	36
2010	L116	M	10/13/2010	10/3/2010	1–2 wk	Alive	L82	1990	20
2010	L117	M	12/6/2010	11/30/2010	1 wk	Alive	L54	1977	33
2010	L114	U	2/21/2010	2/16/2010	< 1 wk	4 months	L77	1987	23
2011	K44	M	7/6/2011	7/3/2011	3 days (No calf 3 days prior)	Alive	K27	1994	17
2011	L118	F	2/10/2011	1/20/2011	3 wk?	Alive	L55	1977	34
2011	J48	U	2/17/2011	1/29/2011	≤ 3 wk	<1 month	J16	1972~	39
2012	J49	M	8/6/2012	8/6/2012	1 day, saw 1 st day	Alive	J37	2001	11
2012	L119	F	5/29/2012	5/15/2012	2 wk	Alive	L77	1987	25
2013	unk	U	1/7/2013	1/7/2013	1 day	<1 month	J28	1993	20
2014	J50	F	12/23/2014	12/15/2014	2 wk? (12/12 no calf)	Alive	J16	1972~	42
2015	L123	M	11/7/2015	10/15/2015	< 1 Mo (10/11 no calf)	Alive	L103	2003	12
2015	J53	F	10/24/2015	10/14/2015	1–2 wk (10/03 no calf)	Alive	J17	1977	38
2015	L122	M	9/7/2015	8/24/2015	2 wk	Alive	L91	1995	20
2015	J52	M	3/30/2015	3/16/2015	2 wk (no calf 02/18)	Alive	J36	1999	16
2015	L121	M	2/25/2015	2/18/2015	~ 1 wk	Alive	L94	1995	20
2015	J51	M	2/12/2015	2/5/2015	1 wk	Alive	J41	2005	10

Maternal age at time of sampling is also included.

? = best guess.

<https://doi.org/10.1371/journal.pone.0179824.t001>

cranial crest (lumpy at birth), flopped over dorsal fin (apparent in first 1–2 days), fetal folds, fattening after first month, jaundice coloration, skin molting at 3–5 months, date of previous observed photo of pregnant females without a calf. The Center for Whale Research (unpublished data) developed these criteria by compiling a time-stamped folder of known-age calf photos that illustrate these age-dependent morphological differences.

A fecal P4 concentration threshold was then established to indicate pregnancy by comparing P4 concentrations across all known sex and reproductive classes, and demonstrating that all gestating SRKW females, subsequently confirmed to have been pregnant by a live birth, surpassed this threshold and sustained it until the end of their 18 month gestation period (see also