

SUPPLEMENT

Table S1. Causes of death in 291 belugas from the St. Lawrence Estuary population that were examined from 1983 to 2022. Each diagnosis was classified in one of the following categories of cause of death: "bacterial diseases," "verminous pneumonia," "toxoplasmosis," "other parasitic diseases," "other infectious diseases," "trauma—entrapment," "other noninfectious diseases," "dystocia—postpartum complications," "neonatal mortality," "cancer," "primary starvation," and "undetermined". Age was determined based on dental growth layer groups (1 GLG = 1 yr; Steward et al. 2006). Scaled mass index could be determined in 257 cases, which were used for this study.

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL1982-001	1982/09/15	M	55	410				Undetermined	Undetermined
DL1982-002	1982/12/12	M	49	420				Undetermined	Undetermined
DL1982-003	1982/12/20	F	53	371				Undetermined	Undetermined
DL1983-001	1983/06/08	F	55	377				Undetermined	Undetermined
DL1983-004	1983/06/20	M	0	145				Neonatal mortality	Neonatal mortality
DL1983-007	1983/07/18	F	59	425				Undetermined	Undetermined
DL1983-013	1983/08/15	M	19	400				Dissecting aneurysm of the main pulmonary artery	Other noninfectious diseases
DL1983-014	1983/08/21	M	37	460				Undetermined	Undetermined
DL1983-015	1983/11/05	F	41	374				Intestinal volvulus and internal hemorrhage	Other noninfectious diseases
DL1983-018	1983/11/30	M	33	357				Bladder transitional cell carcinoma	Cancer
DL1984-001	1984/04/17	M	50	384				Undetermined	Undetermined
DL1984-002	1984/06/19	M	48	414				Pneumonia with abscess	Bacterial diseases
DL1984-004	1984/06/24	F	36	374				Dystocia	Dystocia— postpartum complications
DL1984-005	1984/08/13	M	30	413				Undetermined	Undetermined

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL1984-006	1984/08/16	M	3	274				Parasitic bronchopneumonia	Verminous pneumonia
DL1984-009	1984/09/03	F	3	249				Perforated ulcer of the first gastric compartment with diffuse exudative peritonitis	Other parasitic diseases
DL1984-010	1984/09/27	F	34	376				Postpartum complication (circumstantial)	Dystocia—postpartum complications
DL1984-011	1984/11/16	F	40	369				Undetermined	Undetermined
DL1984-013	1984/12/03	M	45	405				Perforated ulcer of the first gastric compartment with diffuse exudative peritonitis	Other parasitic diseases
DL1985-001	1985/08/15	M	40	407	952	>290	767	Undetermined	Undetermined
DL1985-002	1985/08/24	F	48	376	860	>290	914	<i>Escherichia coli</i> septicemia	Bacterial diseases
DL1985-004	1985/10/25	F	3	243	275	<290	119	Undetermined	Undetermined
DL1985-005	1985/11/11	M	47	410				Undetermined	Undetermined
DL1986-001	1986/05/13	F	26	344	516	>290	749	Nocardiosis	Bacterial diseases
DL1986-002	1986/05/26	M	42	400	842	>290	721	Perforated duodenal ulcer of suspected parasitic origin with peritonitis	Other parasitic diseases
DL1986-003	1986/06/01	M	0	155	46	<290	84	Neonatal mortality	Neonatal mortality
DL1986-004	1986/06/10	F	32	368	592	>290	678	Dystocia	Dystocia—postpartum complications
DL1986-005	1986/07/21	F	42	386				Bacterial necrotic mastitis (<i>Aeromonas</i> sp.)	Bacterial diseases

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DL1986-006	1986/11/20	M	39	414	1075	>290	816	Adenocarcinoma of the salivary glands	Cancer
DL1987-001	1987/07/03	F	37	344	662	>290	961	Undetermined	Undetermined
DL1987-002	1987/09/02	F	16	373	836	>290	914	Chronic peritonitis (<i>Edwardsiella tarda</i>)	Bacterial diseases
DL1987-003	1987/09/17	F	38	360	609	>290	754	Enteritis of unknown origin with segmental ileal stenosis	Other infectious diseases
DL1988-001	1988/05/29	M	6	315	461	>290	910	Undetermined	Undetermined
DL1988-004	1988/07/15	F	42	362	583	>290	708	Protozoal bronchopneumonia	Other parasitic diseases
DL1988-005	1988/07/24	M	0					Neonatal mortality	Neonatal mortality
DL1988-007	1988/08/02	M	39	402	781	>290	657	Chronic peritonitis (<i>Pseudomonas putrefaciens</i>)	Bacterial diseases
DL1988-008	1988/08/13	M	41	401	845	>290	717	Undetermined	Undetermined
DL1988-009	1988/10/07	F	45	365				Adenocarcinoma of the mammary glands	Cancer
DL1988-010	1988/10/11	F	2	228	193	<290	102	Parasitic bronchopneumonia	Verminous pneumonia
DL1988-011	1988/10/13	F	51	371	619	>290	689	Toxoplasmosis	Toxoplasmosis
DL1988-012	1988/10/24	F	32	352	617	>290	826	Undetermined	Undetermined
DL1988-013	1988/11/16	F	43	392	830	>290	762	Undetermined	Undetermined
DL1988-014	1988/11/27	F	46	358	773	>290	975	Undetermined	Undetermined
DL1989-001	1989/04/26	M	45	402	1039	>290	874	Undetermined	Undetermined
DL1989-002	1989/05/30	M-F	57	414	1059	>290	804	Undetermined	Undetermined

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL1989-003	1989/06/13	F	45	360				Postpartum complication (circumstantial)	Dystocia— postpartum complications
DL1989-004	1989/06/13	F	40	335	614	>290	978	Undetermined	Undetermined
DL1989-005	1989/07/13	F	54	397				Undetermined	Undetermined
DL1989-006	1989/08/17	F	50	357				Bacterial necrotic mastitis	Bacterial diseases
DL1989-007	1989/08/23	M	61	411	793	>290	617	Intestinal adenocarcinoma	Cancer
DL1989-008	1989/12/06	M	45	419				Intestinal adenocarcinoma	Cancer
DL1990-001	1990/04/08	M	46	417	1220	>290	903	Thymic lymphosarcoma	Cancer
DL1990-002	1990/06/16	M	56	424	1082	>290	755	Undetermined	Undetermined
DL1990-003	1990/07/19	M	39	438	1306	>290	814	Undetermined	Undetermined
DL1990-004	1990/07/29	F	25	329	709	>290	1202	Undetermined	Undetermined
DL1990-005	1990/09/30	F	27	356	546	>290	703	Undetermined	Undetermined
DL1990-006	1990/10/03	M	49	413	842	>290	644	Undetermined	Undetermined
DL1991-001	1991/06/08	F	35	375	663	>290	711	Peritonitis with intra-abdominal nematode	Other parasitic diseases
DL1991-002	1991/08/24	F	54	347	572	>290	805	Chronic peritonitis	Bacterial diseases
DL1991-003	1991/08/25	M	45	394				Undetermined	Undetermined
DL1991-004	1991/08/30	M	0	155	59	<290	107	Neonatal mortality	Neonatal mortality
DL1991-005	1991/09/09	M	27	416	900	>290	671	Severe fibrinonecrotic lymphadenitis (mediastinal lymph node) (<i>Kingella kingae</i>)	Bacterial diseases
DL1991-006	1991/09/25	M	49	430	1361	>290	904	Undetermined	Undetermined
DL1992-001	1992/06/21	M	5	272	345	<290	104	Undetermined	Undetermined
DL1992-002	1992/07/03	M	51	397	905	>290	795	Parasitic bronchopneumonia	Verminous pneumonia

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DL1992-003	1992/08/11	F	0	139	37	<290	95	Neonatal mortality	Neonatal mortality
DL1992-004	1992/09/02	M	3	247	224	<290	92	Undetermined	Undetermined
DL1992-005	1992/09/24	F	42	337				Severe segmental multifocal glomerular thrombosis	Other noninfectious diseases
DL1992-006	1992/10/12	F	63	388	730	>290	695	Hepatitis	Other infectious diseases
DL1992-007	1992/10/15	F	50	372	683	>290	754	Cutaneous laceration (propeller?)	Trauma—entrapment
DL1993-001	1993/04/18	M	20	424	1094	>290	764	Undetermined	Undetermined
DL1993-002	1993/05/20	M	47	397				Intestinal adenocarcinoma	Cancer
DL1993-003	1993/06/18	M	18					Undetermined	Undetermined
DL1993-004	1993/07/07	F	14	341	721	>290	1079	Undetermined	Undetermined
DL1993-005	1993/08/23	M	7	270	313	<290	96	Parasitic bronchopneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia
DL1993-006	1993/08/26	M		413	1090	>290	834	Undetermined	Undetermined
DL1993-007	1993/10/13	F	29	355				Undetermined	Undetermined
DL1993-008	1993/10/20	F	16	355	578	>290	751	Postpartum complication (circumstantial)	Dystocia—postpartum complications
DL1993-009	1993/12/08	M	48	409				Undetermined	Undetermined
DL1994-001	1994/05/24	M	60	456	1285	>290	695	Gastric adenocarcinoma	Cancer
DL1994-002	1994/05/28	M	51	405	812	>290	665	Intestinal adenocarcinoma	Cancer
DL1994-003	1994/06/13	M	18	389	1006	>290	949	Dissecting aneurysm of the main pulmonary artery	Other noninfectious diseases
DL1994-004	1994/09/23	F	14	339	388	>290	593	Parasitic bronchopneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia

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DL1994-005	1994/10/28	M	46	399	1025	>290	885	Perigastric pyogranuloma	Other parasitic diseases
DL1994-006	1994/10/31	M	53	424	904	>290	631	Undetermined	Undetermined
DL1994-007	1994/12/29	F	45	365	533	>290	629	Intestinal adenocarcinoma	Cancer
DL1995-001	1995/05/14	F	53	370	437	>290	491	Starvation	Primary starvation
DL1995-002	1995/05/21	F	50	331	583	>290	968	Uterine adenocarcinoma	Cancer
DL1995-003	1995/05/30	M	52	384	758	>290	748	Internal hemorrhagy	Other noninfectious diseases
DL1995-004	1995/06/17	F	3	240	269	<290	121	Parasitic bronchopneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia
DL1995-005	1995/06/30	F	42	370	707	>290	795	Vessel propeller laceration and peritonitis	Trauma—entrapment
DL1995-006	1995/07/01	M	45	437	1174	>290	737	Undetermined	Undetermined
DL1995-007	1995/07/31	M	1	199	130	<290	106	Parasitic bronchopneumonia	Verminous pneumonia
DL1995-008	1995/08/10	F	0	157	64	<290	112	Neonatal mortality	Neonatal mortality
DL1995-009	1995/08/18	M	3	247	278	<290	114	Parasitic bronchopneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia
DL1995-010	1995/08/23	M	0	168	74	<290	104	Neonatal mortality	Neonatal mortality
DL1995-011	1995/10/03	M	49	419	1211	>290	881	Dissecting aneurysm of the main pulmonary artery	Other noninfectious diseases
DL1995-012	1995/10/06	M	19	400	915	>290	783	Undetermined	Undetermined
DL1996-001	1996/04/10	M	42	427	996	>290	678	Lymphadenitis (<i>Vibrio alginolyticus</i>)	Bacterial diseases
DL1996-002	1996/05/16	F	9	325	304	>290	538	Parasitic bronchopneumonia	Verminous pneumonia

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DL1996-003	1996/06/02	F	38	334	534	>290	859	Cutaneous laceration (propeller?)	Trauma— entrapment
DL1996-004	1996/07/22	M-F	34	420	868	>290	626	Retroperitoneal abscess with septicemia (<i>Edwardsiella tarda</i>)	Bacterial diseases
DL1996-005	1996/07/23	F	38	346	483	>290	687	Intestinal adenocarcinoma	Cancer
DL1996-006	1996/08/11	F	0	145	46	<290	103	Neonatal mortality	Neonatal mortality
DL1996-007	1996/10/13	M	53	399	895	>290	773	Retroperitoneal abscess with septicemia	Bacterial diseases
DL1996-008	1996/10/18	F	2	216	151	<290	95	Parasitic bronchopneumonia	Verminous pneumonia
DL1996-009	1996/11/23	M	50	393	1072	>290	976	Metastases of a malignant epithelial tumor	Cancer
DL1997-001	1997/05/03	M	16	396	931	>290	825	Undetermined	Undetermined
DL1997-002	1997/05/23	F	57	338	614	>290	947	Undetermined	Undetermined
DL1997-003	1997/06/08	F	43	363	841	>290	1011	Severe subacute fibrinopurulent mural arteritis with aortic valve rupture (<i>Acinetobacter baumannii</i>)	Bacterial diseases
DL1997-004	1997/07/01	M	0	139	43	<290	111	Neonatal mortality	Neonatal mortality
DL1997-005	1997/07/15	M	12	378	744	>290	776	Bladder trigone: abscess with secondary urethral impaction	Bacterial diseases
DL1997-006	1997/07/29	F	62	385	693	>290	678	Severe focal renal laceration with secondary internal hemorrhage	Trauma— entrapment
DL1997-007	1997/11/25	M	53	428				Undetermined	Undetermined
DL1998-001	1998/03/06	F	5	277	381	<290	108	Parasitic pneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL1998-002	1998/05/23	M	26	401	711	>290	603	Severe fibrinopurulent valvular endocarditis with intralesional bacteria (<i>Vibrio fluvialis</i>)	Bacterial diseases
DL1998-003	1998/05/24	F	59	377	916	>290	965	Mammary adenocarcinoma	Cancer
DL1998-004	1998/05/24	F	42	356	534	>290	687	Mammary adenocarcinoma	Cancer
DL1998-005	1998/06/02	M	2	239	251	<290	114	Toxoplasmosis	Toxoplasmosis
DL1998-006	1998/07/16	F	18	388	1003	>290	955	Postpartum complication (circumstantial)	Dystocia— postpartum complications
DL1998-007	1998/08/07	M	36	406	639	>290	519	Marked multifocal coalescent suppurative pneumonia with intraluminal ciliated protozoa	Other parasitic diseases
DL1998-008	1998/09/27	M	45	396	862	>290	764	Pulmonary abscess / protozoal pneumonia, probable	Other parasitic diseases
DL1998-009	1998/12/04	M	47	406	1019	>290	828	Intestinal adenocarcinoma	Cancer
DL1999-001	1999/04/08	M	35	402	821	>290	690	Toxoplasmosis	Toxoplasmosis
DL1999-002	1999/04/24	M	38	416	1005	>290	750	Severe diffuse necrosuppurative cystitis	Bacterial diseases
DL1999-003	1999/05/31	F	54	366	832	>290	972	Undetermined	Undetermined
DL1999-004	1999/06/07	M	35	398	985	>290	858	Medullary thyroid carcinoma	Cancer
DL1999-005	1999/07/05	F	30	357	516	>290	658	Neuroendocrine carcinoma with widespread metastases	Cancer
DL1999-006	1999/08/03	M	29	418	1181	>290	866	Undetermined	Undetermined
DL1999-007	1999/08/19	F	32	338	462	>290	713	Verminous pneumonia	Verminous pneumonia
DL1999-008	1999/09/13	F	0	157				Neonatal mortality	Neonatal mortality

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL1999-009	1999/10/15	F	39	389	845	>290	797	Septicemia caused by <i>Streptococcus phocae</i>	Bacterial diseases
DL2000-001	2000/07/22	F	11	353	316	>290	419	Postpartum complication (circumstantial)	Dystocia—postpartum complications
DL2000-002	2000/07/26	F	9	316	284	>290	555	Dystocia	Dystocia—postpartum complications
DL2000-003	2000/07/29	M	35	411				Undetermined	Undetermined
DL2000-004	2000/10/06	F		372	605	>290	668	Brain necrosis	Other noninfectious diseases
DL2000-005	2000/10/12	F	50	401	803	>290	681	Cholangiocellular carcinoma	Cancer
DL2001-001	2001/04/18	M	48	440	1226	>290	752	Verminous pneumonia	Verminous pneumonia
DL2001-002	2001/05/04	F	61	375	678	>290	727	Intestinal adenocarcinoma	Cancer
DL2001-003	2001/06/22	M	48	418	1173	>290	861	Undetermined	Undetermined
DL2001-004	2001/07/28	M	60	410	1189	>290	933	Probable ossifying fibroma with mesenteric torsion and marked segmental intestinal infarction	Other parasitic diseases
DL2001-005	2001/09/25	M	7	298	342	>290	820	Gastric abscess (<i>Edwardsiella tarda</i>)	Bacterial diseases
DL2001-006	2001/10/02	F	9	300	335	>290	785	Septicemia (<i>Shewanella putrefasciens</i>)	Bacterial diseases
DL2001-007	2001/11/18	M	59	391	840	>290	779	Undetermined	Undetermined

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DL2002-001	2002/04/07	F	56	376	698	>290	742	Poorly differentiated malignant neoplasm with abdominal carcinomatosis and metastases to the lungs, muscles, bones, lymph nodes, ovaries, and adrenal glands	Cancer
DL2002-002	2002/05/06	M	21	401	933	>290	792	Undetermined	Undetermined
DL2002-003	2002/06/14	M	21	433	1191	>290	772	Perforating ulcerative enteritis of the proximal intestine with secondary focal peritonitis, likely caused by nematodes	Other parasitic diseases
DL2002-004	2002/07/24	M	55	411	1130	>290	880	Multiple fractures and dislocations	Trauma—entrapment
DL2002-005	2002/07/25	F	27	371	988	>290	1100	Dystocia	Dystocia—postpartum complications
DL2002-006	2002/08/23	F	8	303	413	>290	934	Mild (<i>Halocercus</i> sp.) to moderate (<i>Stenurus</i> sp.) parasitic pneumonia with marked and diffuse emphysema of the right lung	Verminous pneumonia
DL2002-007	2002/08/24	M	45	408	952	>290	760	Multiple abscesses (<i>Aeromonas</i> sp.)	Bacterial diseases
DL2002-008	2002/11/03	M	28	425	858	>290	594	Abscess-forming pneumonia (<i>Klebsiella oxytoca</i>)	Bacterial diseases
DL2002-009	2002/11/08	M	48	420	1160	>290	837	Marked parasitic pneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia
DL2003-001	2003/05/22	M	36	413	965	>290	738	Jaw fracture	Trauma—entrapment

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2003-002	2003/06/13	F	45	356	576	>290	741	Meningeal, vertebral, pulmonary, and peri-renal metastases of a squamous cell carcinoma	Cancer
DL2003-003	2003/07/23	M	0	153	69	<290	131	Neonatal mortality	Neonatal mortality
DL2003-004	2003/07/30	F	0	144	42	<290	97	Neonatal mortality	Neonatal mortality
DL2003-005	2003/08/12	M		418	918	>290	673	Severe unilateral fibrinous pleuritis with <i>Edwardsiella tarda</i> , likely with septicemia	Bacterial diseases
DL2003-006	2003/10/17	F	52	383	587	>290	585	Squamous cell carcinoma of the lung	Cancer
DL2003-007	2003/10/22	F	30	310	373	>290	779	Multiple rib fractures with hemothorax and pulmonary lacerations	Trauma—entrapment
DL2003-008	2003/11/24	M	33	374	782	>290	847	Undetermined	Undetermined
DL2004-001	2004/05/10	F	12	334	655	>290	1054	Toxoplasmosis	Toxoplasmosis
DL2004-002	2004/06/04	F	60	347	658	>290	926	Gastric adenocarcinoma	Cancer
DL2004-003	2004/06/11	F	56	330	525	>290	881	Poorly differentiated thyroid carcinoma	Cancer
DL2004-004	2004/06/19	M	3	233	216	<290	106	Verminous pneumonia (<i>Stenurus</i> sp. and <i>Halocercus</i> sp.)	Verminous pneumonia
DL2004-005	2004/07/30	M	12	416	853	>290	636	Undetermined	Undetermined
DL2004-006	2004/09/13	F	8	326	316	>290	553	Parasitic bronchopneumonia (<i>Stenurus</i> sp. and/or <i>Halocercus</i> sp.) with bacterial pneumonia and probable secondary septicemia from <i>Pasteurella</i> sp.	Verminous pneumonia
DL2004-007	2004/08/19	F	0	161	51	<290	82	Neonatal mortality	Neonatal mortality

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2004-008	2004/09/13	M	49	429	1000	>290	670	Undetermined	Undetermined
DL2004-009	2004/10/10	M	25	300	436	>290	1021	Focally extensive ulcerative stomatitis with herpesvirus and marked cellulitis of the muzzle with secondary septicemia (<i>Klebsiella oxytoca</i>)	Other infectious diseases
DL2004-010	2004/12/03	M	38	423	1170	>290	823	Abscess and septicemia (<i>Edwardsiella tarda</i>)	Bacterial diseases
DL2005-001	2005/05/13	M	38	420	992	>290	716	Undetermined	Undetermined
DL2005-002	2005/06/02	F	35	377	795	>290	837	Intestinal incarceration due to the presence of a pedunculated bony mass in the omentum	Other parasitic diseases
DL2005-003	2005/08/04	F	48	362	629	>290	763	Mammary carcinoma	Cancer
DL2005-004	2005/09/04	M	50	418	912	>290	669	Moderate parasitic pneumonia (<i>Halocercus</i> sp.) with probable secondary septicemia	Verminous pneumonia
DL2005-005	2005/09/13	M	38	437	1207	>290	758	Entanglement in fishing gear	Trauma—entrapment
DL2005-006	2005/09/11	F	48	373	646	>290	706	Undetermined	Undetermined
DL2006-001	2006/07/11	M	55	436	903	>290	572	Squamous cell carcinoma of the urethra	Cancer
DL2006-002	2006/09/17	F	4	262	317	<290	107	Hydrometra resulting from segmental aplasia of the vagina	Other noninfectious diseases
DL2006-003	2006/06/21	F	35	391	905	>290	839	Uterine rupture with fetal mortality	Dystocia—postpartum complications

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2007-001	2007/05/23	M	58	422	1042	>290	739	Cardiac tamponade likely secondary to pulmonary artery aneurysm	Other noninfectious diseases
DL2007-002	2007/05/27	F	44	397	716	>290	629	Undetermined	Undetermined
DL2007-003	2007/07/01	F	50	374	680	>290	736	Mammary adenocarcinoma with hepatic and pulmonary metastasis	Cancer
DL2007-004	2007/07/03	F	28	380	841	>290	861	Postpartum complication (circumstantial)	Dystocia—postpartum complications
DL2007-005	2007/06/08	M	0	148	46	<290	97	Neonatal mortality	Neonatal mortality
DL2007-006	2007/08/17	F	55	366	741	>290	865	Mammary carcinoma	Cancer
DL2007-007	2007/08/25	F	38	338	635	>290	980	Severe and diffuse suppurative bacterial mastitis; Severe and multifocal suppurative bacterial pneumonia	Bacterial diseases
DL2007-008	2007/09/11	F	38	360	614	>290	760	Undetermined	Undetermined
DL2007-009	2007/09/22	M	50	405	998	>290	818	Bacterial nephritis (<i>Edwardsiella</i> sp.) with proteinuria	Bacterial diseases
DL2007-010	2007/11/25	M	24	392	850	>290	781	Undetermined	Undetermined
DL2008-001	2008/05/03	M	21	428	961	>290	649	Aspiration pneumonia, probable	Other noninfectious diseases
DL2008-002	2008/06/07	F	37	370	645	>290	725	Lung carcinoma, probable	Cancer
DL2008-003	2008/06/16	F	52	370	603	>290	678	Inanition	Primary starvation
DL2008-004	2008/07/18	F	0	169	64	<290	88	Neonatal mortality	Neonatal mortality
DL2008-005	2008/08/11	F	50	359	762	>290	952	Saxitoxin intoxication	Other noninfectious diseases
DL2008-006	2008/08/13	F	0	159	61	<290	102	Neonatal mortality	Neonatal mortality

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2008-007	2008/09/18	F	57	382	610	>290	613	Inanition	Primary starvation
DL2009-001	2009/06/16	F	12	325	425	>290	752	Dilated cardiomyopathy	Other noninfectious diseases
DL2009-002	2009/07/29	M	1	196	124	<290	106	Mild suppurative encephalitis of unknown origin	Other infectious diseases
DL2009-003	2009/08/01	M	49	414	867	>290	658	Marked bronchopneumonia associated with protozoans (likely <i>Kyaroikeus cetarius</i>)	Other parasitic diseases
DL2009-004	2009/09/03	M	0	165	63	<290	94	Drowning due to accidental entanglement in a net	Trauma—entrapment
DL2009-005	2009/09/15	F	48	358	728	>290	919	Undetermined	Undetermined
DL2010-001	2010/03/09	F	2	229	206	<290	107	Parasitic bronchopneumonia	Verminous pneumonia
DL2010-002	2010/03/21	F	1	209	141	<290	98	Extensive verminous bronchopneumonia, caused by <i>Stenurus</i> sp. and <i>Halocercus</i> sp., with bacterial complications and septicemia	Verminous pneumonia
DL2010-003	2010/04/30	F	7	317	435	>290	840	Abscess due to a foreign body caudal to the blowhole	Other noninfectious diseases
DL2010-004	2010/06/09	F	42	369	762	>290	865	Toxoplasmosis	Toxoplasmosis
DL2010-005	2010/06/10	F	51	363	636	>290	765	Probable rectal perforation of parasitic origin (nematode) with peritonitis and likely septicemia due to <i>Aeromonas</i> sp.	Other parasitic diseases

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2010-006	2010/07/16	F	18	348	667	>290	929	Postpartum complication (circumstantial)	Dystocia—postpartum complications
DL2010-007	2010/07/31	F	40	371	909	>290	1012	Dystocia	Dystocia—postpartum complications
DL2010-008	2010/08/29	F	31	369	729	>290	827	Dystocia	Dystocia—postpartum complications
DL2010-009	2010/11/04	M	1	175	90	<290	111	Verminous bronchopneumonia, <i>Stenurus</i> sp.	Verminous pneumonia
DL2010-010	2010/12/31	M	2	165	85	<290	126	Herpesvirosis	Other infectious diseases
DL2010-011	2010/12/31	F	35	388	652	>290	621	Inanition	Primary starvation
DL2011-001	2011/04/07	M	2	231	145	<290	73	Pulmonary pneumatocele with marked atelectasis of the right lung, likely secondary to old rib fractures	Trauma—entrapment
DL2011-002	2011/05/19	F	44	365	839	>290	989	Dystocia	Dystocia—postpartum complications
DL2011-003	2011/06/08	F	30	306	718	>290	1569	Dystocia	Dystocia—postpartum complications
DL2011-004	2011/07/12	F	56	361	466	>290	571	Metastatic lymphangiosarcoma	Cancer

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2011-005	2011/08/09	F	14	356	795	>290	1023	Dystocia	Dystocia—postpartum complications
DL2011-006	2011/09/10	F	68	379	573	>290	592	Inanition, likely of senile origin	Primary starvation
DL2011-007	2011/10/09	M	55	424	1017	>290	710	Undetermined	Undetermined
DL2011-008	2011/10/28	F	22	335	510	>290	812	Verminous bronchopneumonia (<i>Halocercus</i> sp.)	Verminous pneumonia
DL2011-009	2011/11/09	M	43	435	1368	>290	873	Undetermined	Undetermined
DL2012-001	2012/05/19	F	26	364	629	>290	749	Fibrinous peritonitis and septicemia (<i>Edwardsiella tarda</i>) likely secondary to complications during parturition	Dystocia—postpartum complications
DL2012-002	2012/05/27	M	23	396	738	>290	654	Verminous bronchopneumonia (<i>Halocercus</i> sp. and <i>Stenurus</i> sp.), probable	Verminous pneumonia
DL2012-003	2012/07/16	F	21	357	697	>290	888	Undetermined	Undetermined
DL2012-004	2012/08/12	F	0	154	59	<290	109	Neonatal mortality	Neonatal mortality
DL2012-005	2012/08/04	M	0	144	44	<290	101	Neonatal mortality	Neonatal mortality
DL2012-006	2012/08/23	F	0	144	53	<290	122	Neonatal mortality	Neonatal mortality
DL2012-007	2012/10/03	F	3	260	273	<290	95	Verminous bronchopneumonia (<i>Stenurus</i> sp. and <i>Halocercus</i> sp.)	Verminous pneumonia
DL2012-008	2012/11/05	M	53	402	940	>290	791	Undetermined	Undetermined
DL2012-009	2012/11/07	F	30	361	761	>290	933	Undetermined	Undetermined
DL2013-001	2013/07/28	F	0	136	34	<290	94	Neonatal mortality	Neonatal mortality
DL2013-002	2013/09/02	M	0	148	46	<290	97	Neonatal mortality	Neonatal mortality
DL2013-003	2013/09/15	M	41	419	976	>290	710	Bacterial infection	Bacterial diseases
DL2013-004	2013/10/25	F	47	367	716	>290	828	Undetermined	Undetermined

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2013-005	2013/10/31	M	21	418	870	>290	638	Undetermined	Undetermined
DL2013-006	2013/05/26	F	34	352	470	>290	629	Chronic bacterial multisystemic infection, likely <i>Escherichia coli</i>	Bacterial diseases
DL2013-007	2013/06/01	M	54	438	596	>290	371	Verminous bronchopneumonia	Verminous pneumonia
DL2014-001	2014/07/25	M	0	147	50	<290	108	Neonatal mortality	Neonatal mortality
DL2014-002	2014/08/07	F	9	339	600	>290	916	Undetermined	Undetermined
DL2014-003	2014/09/28	F	32	360	565	>290	699	Undetermined	Undetermined
DL2015-001	2015/05/26	M	39	320	860	>290	1607	Extensive scar wound on the right flank with panniculitis, marked chronic fibrinous unilateral right pleuritis, and pyothorax due to beta-hemolytic <i>Streptococcus</i> sp., likely from a collision with a boat	Trauma—entrapment
DL2015-002	2015/05/31	M	6	310	497	>290	1038	Chronic, diffuse verminous bronchopneumonia (<i>Stenurus arctomarinus</i>)	Verminous pneumonia
DL2015-003	2015/07/17	F	21	335	530	>290	844	Dystocia	Dystocia—postpartum complications
DL2015-004	2015/07/25	F	33	354	823	>290	1080	Hemo-abdomen caused by uterine tear, likely secondary to dystocia	Dystocia—postpartum complications
DL2015-005	2015/07/29	F	0	147	50	<290	108	Neonatal mortality	Neonatal mortality

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2015-006	2015/08/18	F	33	371	720	>290	802	Acute fibrinous peritonitis due to <i>Escherichia coli</i> , resulting from uterine perforation suggesting dystocia	Dystocia—postpartum complications
DL2015-007	2015/08/03	M	0	170	73	<290	99	Neonatal mortality	Neonatal mortality
DL2016-001	2016/05/28	F	15	326	489	>290	856	Undetermined	Undetermined
DL2016-002	2016/06/28	F	18	352	575	>290	770	Toxoplasmosis, probable	Toxoplasmosis
DL2016-003	2016/08/05	F	0	161	59	<290	95	Neonatal mortality	Neonatal mortality
DL2016-004	2016/09/13	F	39	379	691	>290	714	Undetermined	Undetermined
DL2016-005	2016/12/05	M	2	250	252	<290	99	Marked diffuse non-suppurative meningoencephalitis, suspected viral origin	Other infectious diseases
DL2017-001	2017/05/20	F	53	363	690	>290	829	Moderate to marked multifocal non-suppurative encephalitis of unknown origin	Other infectious diseases
DL2017-002	2017/09/09	M	36	480	1275	>290	576	Toxoplasmosis	Toxoplasmosis
DL2017-003	2017/09/19	F	43	388	680	>290	647	Uterine tear, likely secondary to dystocia	Dystocia—postpartum complications
DL2017-004	2017/10/23	F	45	398	649	>290	565	Primary starvation, probable	Primary starvation
DL2017-005	2017/11/28	M	7	294	400	>290	1006	Severe bacterial bronchopneumonia (Gram-negative bacilli) and parasitic (<i>Stenurus</i> sp.)	Bacterial diseases
DL2017-006	2017/07/07	F	0	136	33	<290	92	Neonatal mortality	Neonatal mortality
DL2017-007	2017/08/01	M	0	159	50	<290	85	Neonatal mortality	Neonatal mortality

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2018-001	2018/05/20	F	47	368	685	>290	785	Multiple traumas; likely intra-species aggression	Trauma—entrapment
DL2018-002	2018/07/10	F	18	374	630	>290	682	Peri-partum mortality, possibly following parturition	Dystocia—postpartum complications
DL2018-003	2018/07/22	F	36	368	775	>290	888	Tear of the right mesometrium with multiple internal hemorrhages (likely dystocia)	Dystocia—postpartum complications
DL2018-004	2018/07/29	F	45	363	633	>290	761	Unilateral bacterial mastitis	Bacterial diseases
DL2019-001	2019/04/08	F	5	284	370	<290	97	Undetermined	Undetermined
DL2019-002	2019/05/13	M	1	209	194	<290	135	Acute septicemia secondary to bacterial pneumonia with <i>Edwardsiella tarda</i>	Bacterial diseases
DL2019-003	2019/06/19	M		494	1227	>290	502	Trauma with presence of a foreign body in the face (a wooden stake fashioned by humans), perforation of the right eye globe, and bacterial suppurative cellulitis.	Trauma—entrapment
DL2019-004	2019/07/04	F	33	398	940	>290	819	Dystocia	Dystocia—postpartum complications
DL2019-005	2019/07/16	F	21	358	720	>290	909	Dystocia	Dystocia—postpartum complications
DL2019-006	2019/08/01	F	46	378	700	>290	730	Undetermined	Undetermined
DL2019-007	2019/08/06	F	0	156	43	<290	77	Neonatal mortality	Neonatal mortality

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2019-008	2019/10/17	F	30	366	670	>290	783	Undetermined	Undetermined
DL2019-009	2019/11/09	F	28	388	790	>290	752	Dystocia with probable uterine tear and associated peritonitis	Dystocia—postpartum complications
DL2020-001	2020/05/23	F	0	148	31	<290	65	Neonatal mortality	Neonatal mortality
DL2020-002	2020/06/20	M	48	460	992	>290	521	Undetermined	Undetermined
DL2020-003	2020/07/08	F	32	340	405	>290	612	Primary inanition	Primary starvation
DL2020-004	2020/07/31	F	0	148				Neonatal mortality	Neonatal mortality
DL2020-005	2020/08/01	F	68	402	496	>290	417	Undetermined	Undetermined
DL2020-006	2020/08/04	F	0	158	50	<290	85	Neonatal mortality	Neonatal mortality
DL2020-007	2020/08/10	F	56	381	519	>290	527	Gram-negative bacilli septicemia	Bacterial diseases
DL2021-001	2021/04/04	M	6	251	292	<290	113	Accidental stranding	Other noninfectious diseases
DL2021-002	2021/06/19	F	11	345	490	>290	704	Extensive abdominal skin wound, likely from collision with a boat	Trauma—entrapment
DL2021-003	2021/06/21	F	26	337	496	>290	773	Dystocia	Dystocia—postpartum complications
DL2021-004	2021/07/01	F		352	657	>290	880	Undetermined	Undetermined
DL2021-005	2021/08/03	M	0	177	81	<290	96	Neonatal mortality	Neonatal mortality
DL2021-006	2021/09/04	F	17	305	380	>290	840	Intestinal volvulus	Other noninfectious diseases
DL2021-007	2021/09/04	F		145	37	<290	83	Neonatal mortality	Neonatal mortality
DL2021-008	2021/12/14	M	30	411	846	>290	658	Pericarditis and bacterial pleurisy secondary to likely transmural esophagitis of verminous origin	Other parasitic diseases

Beluga ID	Date found (YYYY/MM/DD)	Sex	Age (yr)	Total length (cm)	Mass (kg)	Length group (cm)	Scaled mass index (kg)	Primary diagnosis	Category of cause of death
DL2022-001	2022/04/25	F	45	367	695	>290	804	Peripartum mortality—link with pregnancy uncertain	Undetermined
DL2022-002	2022/05/16	F	49	305	612	>290	1353	Dystocia	Dystocia—postpartum complications
DL2022-003	2022/06/05	M	28	380	733	>290	751	Lymphocytic/histiocytic meningo-encephalitis of unknown origin	Other infectious diseases
DL2022-004	2022/07/27	F	0	135	34	<290	96	Neonatal mortality	Neonatal mortality
DL2022-005	2022/08/08	M	0	149	40	<290	82	Neonatal mortality	Neonatal mortality
DL2022-006	2022/09/17	M	35	440	734	>290	450	Undetermined	Undetermined

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