

Don't Hold Your Breath: Limited DNA Capture Using Non-Invasive Blow Sampling for Small Cetaceans

Supplemental Material

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Sequences

Sample 31 *D. delphis* 12S sequence (F&R combined):

ACTATCGGCAACAGCCCAAACTCAAAGGACTTGGCGGTGCTTCATATCCTTCTAGAGGAGCCTGTTCTGTAAACGAT
AAACCACGATTAACCTCACCAATCCTTGCTACTTCAGTCTATATACCGCCATCTTCAGCAAACCCCT

***D. delphis* stranded dolphin 12S sequence (F&R combined):**

ACTATCGGCAACAGCCCAAACTCAAAGGACTTGGCGGTGCTTCATATCCTTCTAGAGGAGCCTGTTCTGT
AAACGATAAACACGATTAACCTCACCAATCCTTGCTACTTCAGTCTATATACCGCCATCTTCAGCAAACCCCT

Table S1. Information on the 13 separate blow sampling surveys undertaken for both bottlenose dolphins (*Tursiops truncatus*; BND) and short-beaked common dolphins (*Delphinus delphis*; SCBD) between August 2017 and August 2018. Information includes date, vessel, associated collaborator, vessel type, survey length (h), sample location, sample site code, approximate latitude and longitude of sample collection(s), species sampled, estimate of total number of individuals encountered, and number of samples collected in total.

Date	Vessel	Collaborator	Vessel type	Survey length (h)	Sample location	Sample site code	Latitude	Longitude	Species	Estimate of total no. individuals	Number of samples
25 Aug 17	<i>Pedryn</i>	NRW/ Sea Watch Foundation	RHIB	12	Criccieth	B1	52.884601	-4.2164612	BND	7	1
14 May 18	<i>Sea Serpent</i>	Gower Coast Adventures	RHIB	5	Gower (Nr Lundy)	C1	51.2556833	-4.6164833	SBCD	50	6
27 May 18	<i>Slioch</i>	Swansea University	Sailing boat	18	Lundy	C2	51.4723333	-5.0495333	SBCD	30	3
28 May 18	<i>Slioch</i>	Swansea University	Sailing boat	16	Lundy	C3	51.340264	-4.8312378	SBCD	25	4
7 June 18	<i>Pedryn</i>	NRW/ Sea Watch Foundation	RHIB	12	Bwlchtocyn	B2	52.7903167	-4.4874833	BND	15	4
7 June 18	<i>Calypso</i>	Swansea University	RHIB	6	New Quay	N/A	N/A	N/A	BND	18	0
10 June 18	<i>Slioch</i>	Swansea University	Sailing boat	24	Pembrokeshire	C4	51.646998	-5.4556272	SBCD	40	2
24 June 18	<i>Dunbar Castle 2</i>	Sea Watch Foundation	Motorboat	10	New Quay	B3	52.224207	-4.3698120	BND	50	1
6 July 18	<i>Dunbar Castle 2</i>	Sea Watch Foundation	Motorboat	10	New Quay	B4	52.198629	-4.4248581	BND	20	2
7 July 18	<i>Slioch</i>	Swansea University	Sailing boat	18	Bristol Channel	C5	51.255031	-5.3448272	SBCD	35	4
20 July 18	<i>Slioch</i>	Swansea University	Sailing boat	18	Bristol Channel	C6	51.076561 -51.44727	-5.6759620- 5.368767	SBCD	15	10
5 Aug 18	<i>Calypso</i>	Swansea University	RHIB	6	Bristol Channel	N/A	N/A	N/A	BND	1	0

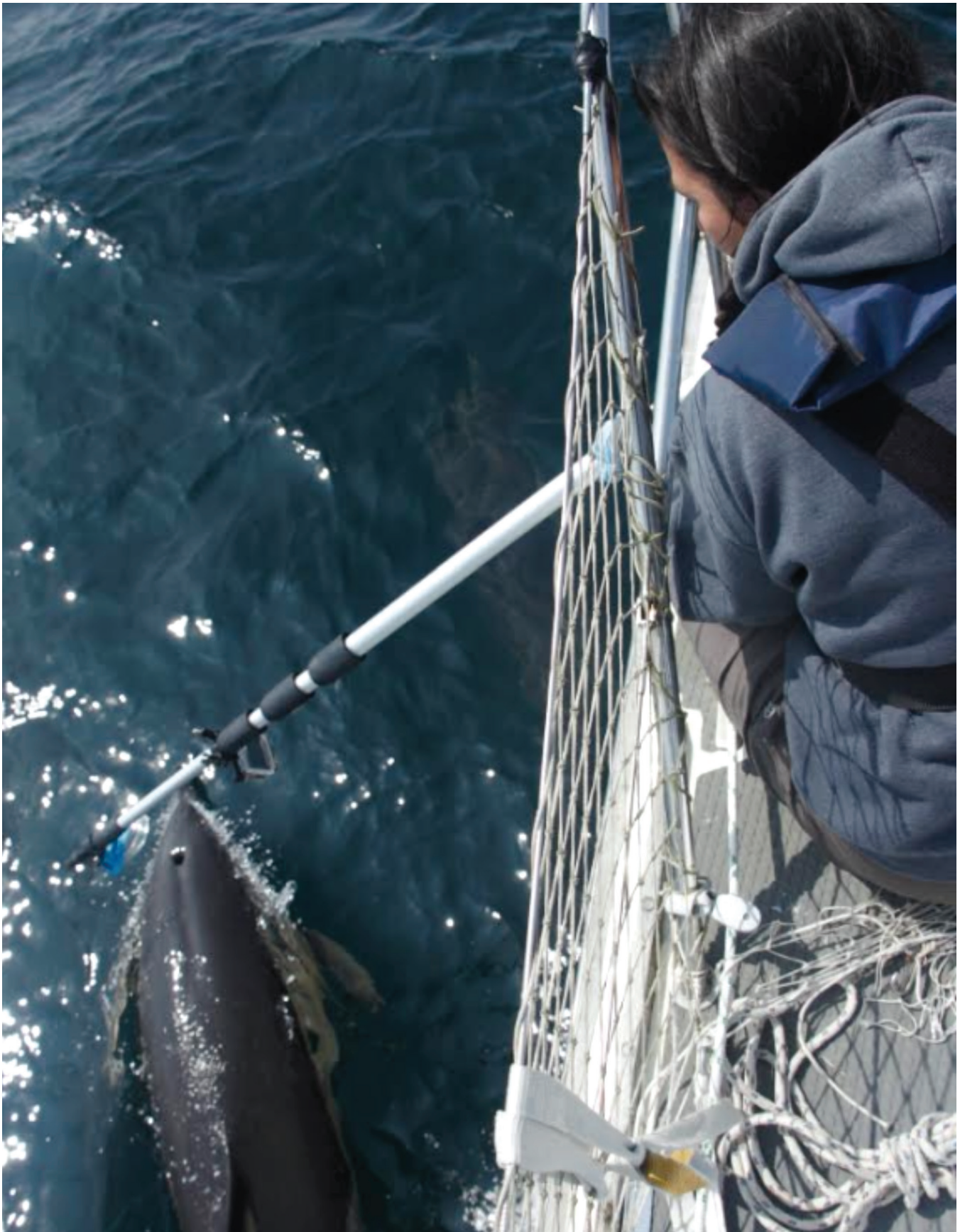


Figure S1. Sample being collected from the blowhole of a short-beaked common dolphin (*Delphinus delphis*) off the coast of southwest Wales (6 October 2018) (Photograph by Jure Železnik, SEACAMS2)

Table S2. DNA concentrations from 38 field “blow” samples collected from both bottlenose dolphins (BND) and short-beaked common dolphins (SBCD) between August 2017 and August 2018

Sample ID	Species	Nucleic acid concentration	Unit	260/280	260/230
1	BND	0.9	ng/μl	1.88	1.74
2	SBCD	0.5	ng/μl	2.39	1.34
3	SBCD	0.5	ng/μl	1.58	1.82
4	SBCD	0.6	ng/μl	1.70	1.85
5	SBCD	0.6	ng/μl	1.67	1.75
6	SBCD	1.1	ng/μl	1.60	1.18
7	SBCD	0.7	ng/μl	1.85	1.89
8	SBCD	0.2	ng/μl	1.57	1.63
9	SBCD	0.3	ng/μl	1.64	1.43
10	SBCD	0.5	ng/μl	1.84	1.45
11	SBCD	0.7	ng/μl	2.21	1.68
12	SBCD	0.7	ng/μl	1.7	1.88
13	SBCD	0.7	ng/μl	1.99	1.87
14	SBCD	0.5	ng/μl	1.96	1.34
15	BND	1.0	ng/μl	1.52	1.30
16	BND	0.6	ng/μl	1.80	1.55
17	BND	0.3	ng/μl	2.00	1.67
18	BND	0.1	ng/μl	1.53	1.54
19	SBCD	1.0	ng/μl	1.79	1.47
20	SBCD	0.7	ng/μl	1.54	1.63
21	BND	0.4	ng/μl	1.60	1.56
22	BND	0.8	ng/μl	1.80	1.94
23	BND	0.9	ng/μl	1.64	1.19
24	SBCD	0.9	ng/μl	1.73	1.58
25	SBCD	0.3	ng/μl	1.90	1.52
26	SBCD	0.5	ng/μl	2.21	1.62
27	SBCD	1.6	ng/μl	1.48	1.87
28	SBCD	1.1	ng/μl	1.76	1.66
29	SBCD	0.2	ng/μl	1.69	1.28
30	SBCD	1.3	ng/μl	1.98	1.90
31	SBCD	1.1	ng/μl	1.65	1.70
32	SBCD	0.8	ng/μl	1.89	1.58
33	SBCD	0.5	ng/μl	1.61	1.37
34	SBCD	0.2	ng/μl	1.90	1.51
35	SBCD	0.8	ng/μl	1.97	1.67
36	SBCD	0.2	ng/μl	1.69	1.70
37	SBCD	0.6	ng/μl	1.78	1.50
BND	BND	5.6	ng/μl	1.88	1.75
SBCD	SBCD	5.0	ng/μl	1.92	1.63
BL1	N/A	-0.9	ng/μl	-1.19	0.06
BL2	N/A	-0.3	ng/μl	-1.87	0.76
BL3	N/A	-0.5	ng/μl	-1.01	0.30
BL4	N/A	-0.2	ng/μl	-1.98	0.21