

**Defying Evolution: Observations of a Mouth-Breathing
Bottlenose Dolphin (*Tursiops truncatus*)**

Supplemental Materials

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Table S1. General information on the observations of Boa between 2009 and 2019. Observation numbers (#) are the same as in Figure 2 of the article. “Group size” includes Boa and her calves. In the “Behaviour” column, the group behaviour states witnessed in the observations are listed in alphabetical order: ATF = active trawler follow, D = dive, DT = dive travel, M = milling, ND = not determined, ST = social travel, and T = travel.

#	Date	Start time	End time	Group size	Behaviour	Calf
1	12 September 2009	1542 h	1706 h	9	DT, T	Boas09
2	5 July 2010	1457 h	1725 h	44	ST, T	--
3	11 July 2012	1842 h	1952 h	21	DT, T	Boas12
4	25 July 2012	1810 h	1850 h	9	M	Boas12
5	18 August 2012	1236 h	1302 h	3	ATF	Boas12
6	12 June 2015	1832 h	1959 h	18	T	Boas12
7	15 July 2015	1521 h	1714 h	17	DT, M, ST	Boas12
8	16 July 2015	1850 h	1954 h	13	DT, M, T	Boas12
9	30 August 2015	1755 h	1847 h	8	DT, M, T	Boas12
10	18 May 2016	2001 h	2017 h	3	ND	Boas12
11	23 July 2016	1632 h	1745 h	16	DT, M, ST, T	Boas12
12	27 July 2016	1742 h	2014 h	30	DT, M, ST, T	Boas12
13	31 July 2016	1752 h	1926 h	22	DT, M, T	Boas12
14	26 August 2016	0737 h	0829 h	3	DT, M, T	Boas12
15	26 August 2016	0918 h	0926 h	2	DT	Boas12
16	5 May 2018	1038 h	1156 h	7	D, DT	--
17	5 May 2018	1610 h	1658 h	9	DT	--
18	12 August 2019	1021 h	1110 h	16	T	Boas19
19	23 August 2019	1538 h	1623 h	12	D, DT	Boas19

Supplemental Video link. A short compilation of the best recorded footage of “Boa,” a mouth-breathing bottlenose dolphin (*Tursiops truncatus*) female from the Adriatic Sea: <https://doi.org/10.6084/m9.figshare.25341595>



Figure S1. Boa and her three calves during their first observations: (a) with her juvenile Boas09 on 12 September 2009, (b) with her juvenile Boas12 on 25 July 2012, and (c) with her newborn calf Boas19 on 12 August 2019 (Photographs provided by Blue World Institute)



Figure S2. A small puff of spray appears from Boa's blowhole as she surfaces (Photographed by Blue World Institute on 26 August 2016)



Figure S3. Observations from 12 September 2009 of Boa and Boas09 seem to suggest that Boa can open her blowhole: (a) a view from above and behind and (b) a view from the side (Photographs provided by Blue World Institute)