

SUPPLEMENTARY TABLE 1

Total mercury (THg in ng g⁻¹ dw) concentration, stable isotope ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in ‰) values, C:N ratio, and sex of rough-toothed dolphins (*Steno bredanensis*) stranded in the Ostional beach, Pacific coast of Panama.

Sample	THg	$\delta^{13}\text{C}$	$\delta^{15}\text{N}$	C:N ratio	Sex
S1	14,684	-16.54	14.96	3.34	Female
S2	16,088	-16.60	14.73	3.40	Female
S3	4,764	-15.78	15.11	3.19	Female
S4	18,608	-15.23	15.85	3.16	Male
S5	11,327	-16.74	14.29	3.58	Female
S7	5,256	-16.05	14.77	3.29	Male
S8	18,689	-15.63	15.63	3.24	Male
S9	13,334	-15.95	14.55	3.29	Female
S10	12,820	-16.81	14.99	3.57	Male
Mean	12,841	-16.15	14.99		
SD	5,083	0.55	0.49		

SUPPLEMENTARY TABLE 2

Total mercury concentrations (THg in ng g^{-1}) of rough-toothed dolphins (*Steno bredanensis*) reported in the literature. Data are shown as sample location, tissue type, storage method, individual state (if specimen was caught, free-ranging or wild, or stranded), sample year, sample number (n), THg mean \pm standard deviation, THg minimal and maximum, and the study reference.

Location	Tissue	Storage method	State	Year	n	THg (mean \pm SD)	THg (min – max)	Reference
Brazil (southern Rio de Janeiro State)	Liver	Frozen	Stranded	2001 – 2010	3	594,800 \pm 200,300 dw	469,400 – 825,900	Lemos et al. (2013)
Brazil (southern Rio de Janeiro State)	Liver	Frozen	Stranded	2001 – 2010	3	298,200 \pm 171,500 ww	195,700 – 496,200	Lemos et al. (2013)
Brazil (central-northern Rio de Janeiro State)	Muscle	Freeze-dried	Stranded	2001 – 2013	9	10,150 \pm 6,230 dw	-	Baptista et al. (2016)
Colombia (La Guajira – Caribbean basin)	Skin	Ethanol	Wild	2015	3	16,817 \pm 3,815 dw	12,746 – 20,311	Barragán-Barrera et al. (2019b, 2019c)
Japan	Muscle	Frozen	Caught	2000 – 2002	2	6,000 ww	2,010 – 9,980	Endo et al. (2003)
Japan	Muscle	Frozen	Caught	2000 – 2003	5	5,020 \pm 3,630 ww	1,220 – 9,980	Endo et al. (2005)
Japan	Muscle	Frozen	Caught	-	6	5,330 \pm 1,750 ww	-	Endo et al. (2010)
Japan	Muscle	Frozen	Caught	-	13	1,020 \pm 480 ww	-	Honda et al. (1990)

United States (Cape San Blas, Florida)	Liver	Frozen	Stranded	1997	15	70,000 ww	3,400 – 235,000	Mackey et al. (2003)
Panama (Azuero Peninsula – Pacific basin)	Skin	Ethanol	Stranded	2016	9	12,841 ± 5,083 dw	4,764 – 18,689	This study

SUPPLEMENTARY TABLE 3

Stable isotope values ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ in ‰) of rough-toothed dolphins (*Steno bredanensis*) reported in the literature. Data are shown as sample location, tissue type, storage method, individual state (if specimen was caught, free-ranging or wild, or stranded), sample year, sample number (n), THg mean ± standard deviation, THg minimal and maximum, and the study reference.

Location	Tissue	Storage method	State	Year	N	$\delta^{13}\text{C}$ (mean ± SD)	$\delta^{15}\text{N}$ (mean ± SD)	Reference
Brazil (central-northern Rio de Janeiro State)	Muscle	Freeze-dried	Stranded	2001 – 2013	9	~ -17.1	~ 16.5	Baptista et al. (2016)
Brazil (Rio de Janeiro State)	Muscle	-	Caught	1994 – 2009	3	-14.9 ± 0.5	14.4 ± 0.3	Bisi et al. (2013)

Brazil (Pará)	Bone	Dry	Caught	2005 – 2014	9	-12.0 ± 0.8	12.2 ± 1.0	Costa et al. (2020)
Brazil (southern Rio de Janeiro State)	Skin	Frozen	Wild	2009 – 2015 (Spring)	3	-16.1 ± 0.1	17.7 ± 0.4	Troina et al. (2020)
Brazil (southern Rio de Janeiro State)	Skin	Frozen	Wild	2009 – 2015 (Autumn)	4	-16.2 ± 0.2	18.1 ± 0.5	Troina et al. (2020)
Brazil (southwestern Atlantic)	Skin	Frozen	Wild	2009 – 2015	5	-15.6 ± 0.2	18.6 ± 0.2	Troina et al. (2021)
Brazil (southwestern Atlantic)	Skin	Frozen	Wild	2011 – 2016	3	-16.3 ± 0.6	14.5 ± 0.1	Paschoalini et al. (2021)
Colombia	Skin	Ethanol	Wild	2015	3	-14.71 ± 0.17	12.76 ± 0.14	Barragán-Barrera et al. (2019b, 2019c)
Japan	Muscle	Frozen	Caught	-	6	-16.9 ± 0.5	11.6 ± 0.5	Endo et al. (2010)
Society Archipelago (Moorea)	Skin	Ethanol	Wild	2002 – 2004	35	~ -14.9	~ 14.7	Kiszka et al. (2010)
Panama (Azüero Peninsula – Pacific basin)	Skin	Ethanol	Stranded	2016	9	-16.2 ± 0.6	15.0 ± 0.5	This study

SUPPLEMENTARY TABLES REFERENCES

Baptista, G., Kehrig, H. A., Di Benedetto, A. P. M., Hauser-Davis, R. A., Almeida, M. G., Rezende, C. E., Siciliano, S., de Moura, J. F., & Moreira, I. (2016). Mercury, selenium and stable isotopes in four small cetaceans from the Southeastern Brazilian coast: Influence of feeding strategy. *Environmental Pollution*, 218, 1298–1307. <https://doi.org/10.1016/j.envpol.2016.08.088>

Barragán-Barrera, D. C., Farías-Curtidor, N., Luna-Acosta, A., Bustamante, P., Ayala, R., & Caballero, S. (2019b). Evidence of mercury bioaccumulation in skin samples of wild delphinids in La Guajira, Colombian Caribbean. *SETAC Latin America 13th Biennial Meeting*.

Barragán-Barrera, D. C., Farías-Curtidor, N., Chávez-Carreño, P. A., Mesa-Gutiérrez, R. A., Duarte, A., Correa-Cárdenas, C. A., Polo-Silva, C. J., Riet-Sapriza, F., Luna-Acosta, A., Bustamante, P., Jiménez-Pinedo, C., Ayala-Mendoza, R., & Caballero, S. (2019c). Estado genético y ecotoxicológico de cuatro especies de delfines en La Guajira, Caribe colombiano. *XVIII Seminario Nacional de Ciencias y Tecnologías del Mar SENALMAR*.

Bisi, T. L., Dorneles, P. R., Lailson-Brito, J., Lepoint, G., Azevedo, A. dF., Flach, L., Malm, O., & Das, K. (2013). Trophic Relationships and Habitat Preferences of Delphinids from the Southeastern Brazilian Coast Determined by Carbon and Nitrogen Stable Isotope Composition. *PLoS ONE*, 8(12), e82205. <https://doi.org/10.1371/journal.pone.0082205>

Costa, A. F., Botta, S., Siciliano, S., & Giarrizzo, T. (2020). Resource partitioning among stranded aquatic mammals from Amazon and Northeastern coast of Brazil revealed through Carbon and Nitrogen Stable Isotopes. *Scientific Reports*, 10, 12897. <https://doi.org/10.1038/s41598-020-69516-8>

Endo, T., Hotta, Y., Haraguchi, K., & Sakata, M. (2003). Mercury Contamination in the Red Meat of Whales and Dolphins Marketed for Human Consumption in Japan. *Environmental Science & Technology*, 37(12), 2681–2685. <https://doi.org/10.1021/es034055n>

Endo, T., Haraguchi, K., Hotta, Y., Hisamichi, Y., Lavery, S., Dalebout, M. L., & Baker, C.S. (2005). Total mercury, methyl mercury, and selenium levels in the red meat of small cetaceans sold for human consumption in Japan. *Environmental Science & Technology*, 39, 5703–5708. <https://doi.org/10.1021/es050215e>

Endo, T., Hisamichi, Y., Kimura, O., Haraguchi, K., Lavery, S., Dalebout, M. L., Funahashi, N., & Baker, C. S. (2010). Stable Isotope Ratios of Carbon and Nitrogen and Mercury Concentrations in 13 Toothed Whale Species Taken from the Western Pacific Ocean off Japan. *Environmental Science & Technology*, 44(7), 2675–2681. <https://doi.org/10.1021/es903534r>

Honda, K. (1990). Contamination of heavy metals in marine mammals. In N. Miyazaki & T. Kasuya (Eds.), *Biology in Marine Mammals* (pp. 242-253). Scientist Inc.

Kiszka, J., Oremus, M., Richard, P., Poole, M., & Ridoux, V. (2010). The use of stable isotope analyses from skin biopsy samples to assess trophic relationships of sympatric delphinids off Moorea (French Polynesia). *Ecology*, *395*(1–2), 48–54. <https://doi.org/10.1016/j.jembe.2010.08.010>

Lemos, L. S., de Moura, J. F., Hauser-Davis, R. A., de Campos, R. C., & Siciliano, S. (2013). Small cetaceans found stranded or accidentally captured in southeastern Brazil: Bioindicators of essential and non-essential trace elements in the environment. *Ecotoxicology and Environmental Safety*, *97*, 166–175. <https://doi.org/10.1016/j.ecoenv.2013.07.025>

Mackey, E., Oflaz, R., Epstein, M., Buehler, B., Porter, B. J., Rowles, T., Wise, S. A., & Becker, P. R. (2003). Elemental composition of liver and kidney tissues of rough-toothed dolphins (*Steno bredanensis*). *Archives of Environmental Contamination and Toxicology*, *44*, 0523–0532. <https://doi.org/10.1007/s00244-002-2039-9>

Paschoalini, V. U., Troina, G. C., Campos, L. B., & Santos, M. C. O. (2021). Trophic ecology and foraging areas of cetaceans sampled in the coastal waters of south-eastern Brazil assessed through skin $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$. *Journal of the Marine Biological Association of the United Kingdom*, *101*(2), 471–480. <https://doi.org/10.1017/S0025315421000217>

Troina, G. C., Botta, S., Dehairs, F., Di Tullio, J. C., Elskens, M., & Secchi, E. R. (2020). Skin $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ reveal spatial and temporal patterns of habitat and resource use by free ranging odontocetes from the southwestern Atlantic Ocean. *Marine Biology*, *167*(186), 1–19. <https://doi.org/10.1007/s00227-020-03805-8>

Troina, G. C., Riekenberg, P., van der Meer, M., Botta, S., Dehairs, F., & Secchi, E. R. (2021). Combining isotopic analysis of bulk-skin and individual amino acids to investigate the trophic position and foraging areas of multiple cetacean species in the western South Atlantic. *Environmental Research*, *201*, 111610. <https://doi.org/10.1016/j.envres.2021.111610>