

# TROPHIC CHAIN ORGANOCHLORINE CONTAMINATION IN A HIGHLY PRODUCTIVE UPWELLING AREA IN SOUTHEASTERN BRAZIL

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## Supplementary Information:

**Table S1.** Morphometric and collection information for *Pontoporia blainvillei* individuals

**Table S2.** Morphometric and collection information for fish species and squid

**Table S3.** Method detection limits (MDLs) and method quantification limits (MQLs) in ng g<sup>-1</sup> wet weight for all analyzed organochlorinated pesticides (OCPs)

**Table S4.** Average concentrations and range in muscle and liver samples of *Pontoporia blainvillei* (n=9)

**Table S1.** Morphometric and collection information for *Pontoporia blainvillei* individuals

Sample ID	Length (cm)	Sex	Collection Location	Collection Status	Date
PB01	144	Female	Sao Joao da Barra	accidental capture	7/30/2011
PB02	125	Female	Sao Joao da Barra	accidental capture	1/16/2012
PB03	144	Female	Sao Joao da Barra	stranded	1/24/2012
PB04	136	Male	Quissama	stranded	2/9/2012
PB05	122	Male	Quissama	stranded	7/9/2012
PB06	113	Female	Quissama	stranded	8/28/2012
PB07	115	Male	Quissama	accidental capture	8/31/2012
PB08	102	Female	Quissama	accidental capture	9/23/2012
PB09	107	Male	Quissama	accidental capture	9/25/2012

**Table S2.** Morphometric and collection information for fish species and squid

Species	Sample ID	Length (cm)	Sex	Collection Location	Date
<i>Trichiurus lepturus</i>	PE01	117	female	Cabo Frio	8/14/2012
	PE02	148	female	Cabo Frio	8/14/2012
	PE03	121	female	Cabo Frio	8/14/2012
	PE04	118	male	Cabo Frio	8/14/2012
	PE05	133	female	Cabo Frio	8/14/2012
	PE06	119	female	Cabo Frio	8/14/2012
	PE07	115	female	Cabo Frio	8/14/2012
	PE08	108	female	Cabo Frio	8/14/2012
	PE09	136	female	Cabo Frio	8/14/2012
	PE10	140	female	Cabo Frio	8/14/2012
	PE11	105	female	Cabo Frio	8/14/2012
	PE12	119	male	Cabo Frio	8/14/2012
<i>Micropogonias furnieri</i>	C01	48	female	Cabo Frio	8/15/2012
	C02	53	female	Cabo Frio	8/15/2012
	C03	50	female	Cabo Frio	8/15/2012
	C04	47	male	Cabo Frio	8/15/2012
	C05	50	female	Cabo Frio	8/15/2012
	C06	57	female	Cabo Frio	8/15/2012
	C07	49	female	Cabo Frio	8/15/2012
	C08	53	female	Cabo Frio	8/15/2012
	C09	47	female	Cabo Frio	8/15/2012
<i>Mugil liza</i>	T01	56	female	Cabo Frio	8/15/2012
	T02	54	female	Cabo Frio	8/15/2012

	T03	55	male	Cabo Frio	8/15/2012
	T04	60	female	Cabo Frio	8/15/2012
	T05	58	female	Cabo Frio	8/15/2012
	T06	50	male	Cabo Frio	8/15/2012
	T07	54	female	Cabo Frio	8/15/2012
	T08	57	female	Cabo Frio	8/15/2012
	T09	57	female	Cabo Frio	8/15/2012
	T10	54	male	Cabo Frio	8/15/2012
<i>Sardinella brasiliensis</i>	S01	24	N/A	Praia Seca	9/24/2013
	S02	24	N/A	Praia Seca	9/24/2013
	S03	25	N/A	Praia Seca	9/24/2013
	S04	26	N/A	Praia Seca	9/24/2013
	S05	25	N/A	Praia Seca	9/24/2013
	S06	24	N/A	Praia Seca	9/24/2013
	S07	25	N/A	Praia Seca	9/24/2013
	S08	24	N/A	Praia Seca	9/24/2013
	S09	24	N/A	Praia Seca	9/24/2013
	S10	25	N/A	Praia Seca	9/24/2013
<i>Scomber japonicus</i>	CAV01	31	N/A	Praia Seca	9/25/2013
	CAV02	32	N/A	Praia Seca	9/25/2013
	CAV03	30	N/A	Praia Seca	9/25/2013
	CAV04	28	N/A	Praia Seca	9/25/2013
	CAV05	27	N/A	Praia Seca	9/25/2013
	CAV06	30	N/A	Praia Seca	9/25/2013
	CAV07	31	N/A	Praia Seca	9/25/2013
	CAV08	30	N/A	Praia Seca	9/25/2013
	CAV09	27	N/A	Praia Seca	9/25/2013
	CAV10	29	N/A	Praia Seca	9/25/2013
<i>Logigo plei</i>	L01	36	N/A	Cabo Frio	8/15/2012
	L02	33	N/A	Cabo Frio	8/15/2012
	L03	42	N/A	Cabo Frio	8/15/2012
	L04	37	N/A	Cabo Frio	8/15/2012
	L05	41	N/A	Cabo Frio	8/15/2012
	L06	37	N/A	Cabo Frio	8/15/2012
	L07	34	N/A	Cabo Frio	8/15/2012
	L08	42	N/A	Cabo Frio	8/15/2012
	L09	39	N/A	Cabo Frio	8/15/2012
	L10	38	N/A	Cabo Frio	8/15/2012

**Table S3.** Method detection limits (MDLs) and method quantification limits (MQLs) in ng g<sup>-1</sup> wet weight for all analyzed organochlorinated pesticides (OCPs)

OCPs	MDL	MQL
α-HCH	0.310	1.40
HCB	0.300	1.36
β-HCH	0.430	1.91
γ-HCH	0.360	1.63
δ-HCH	0.410	1.82
Heptachlor	0.22	0.97
Aldrin	0.22	0.99
Isodrin	0.330	1.48
Heptachlor Epoxide A	0.420	1.88
Oxychlordane	0.470	2.12
Heptachlor Epoxide B	0.410	1.86
γ-Chlordane	0.340	1.54
o,p'-DDE	0.19	0.87
Endosulfan I	0.270	1.21
α-Chlordane	0.45	2.0
Dieldrin	0.230	1.03
p,p'-DDE	0.27	1.20
o,p'-DDD	0.20	0.91
Endrin	0.280	1.23
Endosulfan II	0.420	1.88
p,p'-DDD	0.290	1.31
o,p'-DDT	0.310	1.39
p,p'-DDT	0.280	1.24
Methoxychlor	0.320	1.44
Mirex	0.410	1.84

**Table 4.** Average concentrations and range in muscle and liver samples of *Pontoporia blainvillei* (n=9)

Compounds	Muscle		Liver	
	Average ± SD	Range	Average ± SD	Range
HCB	<MQL	<MQL	2.97 ± 1.48	2.11 - 6.01
β-HCH	<MQL	<MQL	5.80 ± 2.46	2.84 - 10.09
γ-HCH	1.77 ± 1.01	1.64 - 3.00	5.04 ± 1.71	3.48 - 9.14
p,p'-DDE	29.97 ± 17.58	13.69- 40.19	86.38 ± 33.26	42.56 - 120.58
p,p'-DDD	1.88 ± 2.08	<MQL- 5.72	2.64 ± 1.95	<MQL- 5.91
Mirex	3.02 ± 2.43	1.93 - 7.29	4.51 ± 2.15	2.12 - 8.67

SD: standard deviation

