

Supplementary Material

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Brominated flame retardants in wild bird eggs from the industrialised heartland of South Africa

Quinn, Roos, Pieters, Polder and Bouwman

Supplementary table: Raw data and lipid content

Sample ID		% Lipid	BDE-28	BDE-47	BDE-99	BDE-100	BDE-153	BDE-154	BDE-183	BDE-206	BDE-207	BDE-208	BDE-209	HBCD
			1	2	3	4	5	6	7	8	9	10	11	12
half LOD			0.009709	0.019418	0.009709	0.009709	0.009709	0.009709	0.019153	0.052599	0.023872	0.008328	1.561590	0.145632
Sample ID		% Lipid	BDE-28	BDE-47	BDE-99	BDE-100	BDE-153	BDE-154	BDE-183	BDE-206	BDE-207	BDE-208	BDE-209	HBCD
LOD			0.02	0.04	0.02	0.02	0.02	0.02	0.04	0.11	0.05	0.02	3.12	0.29
Relative recovery %			103.38	104.96	117.46	100.79	100.83	94.08	105.46	112.48	112.51	114.91	230.12	102.86
Sacred Ibis	SIs11	5.60	ND	0.13	0.48	0.20	4.69	0.34	15.35	0.86	5.06	2.01	14.58	3.03
Sacred Ibis	SIs12	6.76	ND	0.14	0.57	ND	5.23	0.45	15.04	ND	0.22	0.20	15.05	4.53
Sacred Ibis	SIs13	5.60	ND	0.22	0.79	0.34	6.95	0.62	16.56	1.05	5.80	2.05	21.14	3.15
Sacred Ibis	SIs14	5.99	ND	0.29	1.35	0.48	6.05	0.67	16.39	0.91	3.90	1.58	12.98	3.37
Sacred Ibis	SIs15	5.51	ND	0.14	0.46	0.21	4.75	0.40	12.18	0.94	5.25	1.80	20.17	1.59
Sacred Ibis	SIs16	6.05	ND	0.14	0.44	0.12	3.79	0.33	11.23	1.02	4.50	1.83	19.87	1.83
Sacred Ibis	SIs17	4.69	ND	0.13	0.42	0.25	3.86	0.42	14.83	0.55	6.14	1.07	9.58	2.47
Sacred Ibis	SIs18	6.47	ND	0.11	0.60	0.21	50.62	4.51	121.18	0.90	15.74	1.65	25.40	1.31
Sacred Ibis	SIs19	7.21	ND	0.18	0.41	ND	2.46	0.21	6.66	1.23	4.31	1.91	17.61	1.43
Sacred Ibis	SIs20	4.12	ND	0.12	0.25	0.08	0.37	0.07	0.43	0.11	0.29	0.26	ND	0.92

Sacred Ibis	SIs21	5.61	ND	0.20	0.69	0.32	9.17	0.78	29.84	0.85	4.93	1.86	16.22	1.26
Sacred Ibis	SIs22	5.52	ND	0.36	1.12	0.33	4.76	0.41	10.60	0.57	2.95	1.18	10.56	4.83
Sacred Ibis	SIs23	4.97	ND	0.59	1.76	0.72	2.35	0.32	5.18	0.37	1.44	0.47	8.84	2.03
Sacred Ibis	SIs24	7.60	ND	0.11	0.40	0.30	3.93	0.55	12.01	1.79	5.52	1.47	25.48	3.44
Sacred Ibis	SIs25	5.17	ND	0.52	1.48	0.67	3.61	0.59	7.39	0.94	3.66	1.39	24.13	3.78
Sacred Ibis	SIs26	6.39	ND	0.32	1.10	0.34	3.56	0.29	7.83	0.41	2.05	0.87	7.55	4.21
Cattle Egret	CEs27	6.37	ND	0.83	1.94	0.39	1.02	1.61	0.78	ND	0.20	0.13	ND	1.17
Cattle Egret	CEs28	6.63	ND	0.05	0.11	0.07	0.66	0.10	0.41	ND	0.06	0.03	ND	ND
Cattle Egret	CEp29	7.55	ND	ND	ND	ND	0.19	ND	0.22	ND	ND	ND	ND	ND
Cattle Egret	CEp30	6.40	ND	ND	7.74	ND	0.03	0.05	0.08	ND	ND	ND	ND	ND
Cattle Egret	CEsb31	8.59	ND	ND	7.63	ND	0.03	0.05	ND	ND	ND	0.02	ND	ND
Cattle Egret	CEsb32	5.81	ND	ND	ND	ND	0.05	ND	0.05	0.17	ND	0.03	ND	ND
African Darter	ADk33	6.23	ND	0.38	ND	0.39	0.22	0.78	0.06	ND	ND	0.03	ND	0.62
African Darter	ADk34	6.45	ND	0.38	0.09	3.28	0.84	2.38	0.38	ND	0.05	ND	ND	0.74
African Darter	ADp35	5.41	ND	0.15	ND	0.26	0.43	0.62	0.11	0.17	ND	ND	ND	0.57
African Darter	ADp36	5.51	ND	0.39	ND	0.50	0.32	0.78	0.04	ND	ND	ND	ND	0.44
African Darter	ADp37	4.84	ND	0.06	ND	0.07	0.06	0.14	ND	ND	0.02	ND	ND	ND
African Darter	ADp38	3.14	ND	0.20	ND	0.45	0.54	0.84	0.16	0.35	0.05	ND	ND	0.56
African Darter	ADp39	5.62	ND	0.14	9.67	0.41	0.36	0.68	0.07	ND	ND	ND	ND	0.43
African Darter	ADk40	5.43	ND	2.01	0.08	4.68	2.49	6.07	1.00	0.91	0.23	0.13	ND	6.43
African Darter	ADk41	2.09	ND	0.09	9.74	0.10	0.05	0.23	ND	ND	ND	ND	ND	ND
African Darter	ADk42	2.81	ND	0.11	ND	0.08	0.10	0.44	0.15	ND	0.07	ND	ND	ND
African Darter	ADk43	1.32	0.18	6.48	ND	3.79	0.93	3.59	0.64	0.90	0.23	ND	3.16	9.60
African Darter	ADk44	4.86	0.11	4.18	ND	1.78	0.35	1.54	0.15	0.28	0.06	ND	ND	1.49
African Darter	ADk45	5.56	ND	0.40	0.01	0.29	0.07	0.81	0.19	ND	ND	ND	ND	ND
White-breasted Cormorant	WCr7	3.80	ND	0.42	ND	0.43	0.46	0.68	0.12	0.41	0.11	ND	ND	0.31
White-breasted Cormorant	WCr8	5.41	ND	1.39	0.12	1.08	1.60	2.11	0.09	ND	ND	ND	ND	0.96
White-breasted Cormorant	WCr9	3.82	n =	0.98	0.09	0.85	1.22	1.56	0.15	ND	ND	ND	ND	0.82

White-breasted Cormorant	WCr10	3.84	ND	0.63	0.08	0.46	0.57	0.82	0.07	ND	ND	ND	3.19	0.40
Black Crowned Night Heron	BCHs5	6.53	ND	0.06	0.10	0.06	0.18	0.05	0.09	ND	ND	ND	ND	ND
Black Crowned Night Heron	BCHs6	5.92	ND	0.05	0.11	ND	0.21	0.05	0.16	0.35	0.09	ND	ND	ND
Black Headed Heron	BHHk4	5.78	ND	ND	0.06	ND	1.91	0.15	2.49	0.55	0.64	0.41	16.84	0.61
Grey/Black Headed Heron	B/GHp1	7.26	ND	ND	0.18	0.11	0.52	0.18	0.63	ND	ND	ND	ND	ND
Grey/Black Headed Heron	B/GHp2	5.60	ND	0.04	0.30	0.22	22.21	0.67	24.74	1.62	0.41	0.24	ND	0.41
Grey/Black Headed Heron	B/GHp3	6.44	ND	0.06	0.37	0.19	7.70	0.32	11.74	ND	0.36	0.17	ND	ND
Crowned Lapwing	CPvp53	15.51	ND	1.29	1.30	0.40	1.00	0.37	1.22	0.90	0.22	0.14	ND	ND
Crowned Lapwing	CPvp54	11.06	ND	0.68	0.95	0.31	0.24	0.14	0.21	ND	0.07	0.04	ND	ND
Crowned Lapwing	CPvd55	8.71	ND	0.22	0.31	0.11	0.15	0.10	0.11	1.33	0.34	0.21	ND	ND
Crowned Lapwing	CPv56	11.18	ND	0.98	0.39	0.06	0.26	0.09	0.38	0.30	0.07	ND	ND	0.40
Crowned Lapwing	CPsb57	11.41	ND	0.37	0.38	0.09	0.18	0.06	0.17	ND	0.10	0.05	ND	0.32
Crowned Lapwing	CPsb58	10.97	ND	0.54	0.46	ND	0.23	0.09	0.21	ND	0.11	0.04	ND	ND
Red-knobbed Coot	RCs46	13.49	ND	0.13	8.14	ND	0.07	0.08	0.05	ND	ND	ND	ND	1.11
Red-knobbed Coot	RCs47	14.11	ND	0.21	9.69	ND	0.03	0.08	0.05	3.25	1.28	0.56	193.25	0.36
Red-knobbed Coot	RCk48	13.24	ND	2.64	1.08	0.20	0.22	0.09	ND	ND	0.11	0.10	ND	0.38
Red-knobbed Coot	RCk49	13.16	ND	2.97	1.20	0.48	0.26	0.09	ND	0.41	0.09	0.07	ND	0.32
Red-knobbed Coot	RCvp50	12.43	ND	2.83	1.24	0.33	0.17	0.09	0.20	0.18	0.20	0.20	ND	2.24
Red-knobbed Coot	RCvp51	13.28	ND	0.09	9.80	ND	0.08	0.07	0.04	ND	0.07	ND	ND	ND
Cape Turtle Dove	CDsb52	8.52	ND	ND	10.99	0.03	0.08	0.07	ND	ND	0.05	ND	ND	0.34
Cape Sparrow	Ssb64	6.54	ND	0.03	10.58	ND	0.17	ND	0.17	ND	0.13	0.07	ND	0.37
Cape Sparrow	Ssb65	7.14	ND	0.06	11.44	ND	0.09	0.08	0.14	ND	0.06	ND	ND	0.39
Cape Sparrow	Svp66	3.85	ND	31.62	10.16	ND	0.21	0.09	0.15	ND	0.12	0.10	ND	0.36
Southern Masked Weaver	SMWp60	6.06	ND	0.54	10.37	0.14	0.28	0.09	0.19	ND	0.22	0.14	3.86	0.37

Southern Masked Weaver	SMWvp61	2.97	ND	147.18	0.55	0.09	0.15	0.03	0.07	ND	0.08	0.06	ND	0.36
Southern Masked Weaver	SMWvp62	4.08	ND	11.24	15.88	0.05	2.28	1.43	1.77	0.32	0.63	0.38	ND	0.33
Southern Masked Weaver	SMWp63	4.72	ND	0.39	0.49	0.08	0.34	0.07	0.25	ND	0.15	0.07	ND	1.28