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*Supplement of*

## **Brief communication: Organochlorine pesticides in an archived firn core from Law Dome, East Antarctica**

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**Table 1: Surrogate standard recoveries for ice core sample A and B (in %)**

Sampling material	XAD (dissolved compounds)		Glass fibre filter (particles)		
	Sample #	A	B	A	B
Hexachlorobenzene, <sup>13</sup> C <sub>6</sub> -		15	18	17	6
α-HCH, <sup>13</sup> C <sub>6</sub> -		46	53	47	50
γ-HCH-D6		30	39	48	51
Heptachlor, <sup>13</sup> C <sub>10</sub> -		130	128	77	80
Oxychlorane, <sup>13</sup> C <sub>10</sub> -		49	56	64	64
trans-Nonachlor, <sup>13</sup> C <sub>10</sub> -		63	66	51	59
Dieldrin, <sup>13</sup> C <sub>12</sub> -		47	55	52	58
Endrin, <sup>13</sup> C <sub>12</sub> -		49	67	72	82
Endosulfan II, <sup>13</sup> C <sub>9</sub> -		22	34	43	49
4,4'-DDE, <sup>13</sup> C <sub>12</sub> -		36	42	43	46
4,4'-DDD, <sup>13</sup> C <sub>12</sub> -		14	21	42	42
4,4'-DDT, <sup>13</sup> C <sub>12</sub> -		8	11	40	36
Methoxychlor-D6		102	168	37	36
Mirex, <sup>13</sup> C <sub>10</sub> -		5	5	21	18
Mirex, <sup>13</sup> C <sub>8</sub> -*		7	6	30	28
δ-HCH*		135	67	96	110

Notes: \* indicates surrogate standards added prior to sampling (XAD) or prior to extraction (filters)

**Table 2 Concentrations and deposition rates of detected OCPs in Law Dome firn core, sample A (1945-57) and sample B (1958-67)**

	Sample A			Sample B	
	MDL	Concentration	Deposition rate	Concentration	Deposition rate
	pg·L <sup>-1</sup>	pg·L <sup>-1</sup>	pg·cm <sup>-2</sup> ·yr <sup>-1</sup>	pg·L <sup>-1</sup>	pg·cm <sup>-2</sup> ·yr <sup>-1</sup>
α-HCH	0.87	22	0.24	19	0.25
γ-HCH	1.18	22	0.24	60	0.78
Heptachlor	0.51	2.3	0.03	2.4	0.03
trans-Chlordane	1.25	< 3.3	-	5.0	0.07
Dieldrin	4.75	222	2.4	310	4.0
Endrin	1.20	4.8	0.05	8.3	0.11

Notes: MDL stands for method detection limits, < indicates values detected below limits of quantifications (determined for each individual sample).