

Supplementary Information for

Air Concentrations of Polybrominated Diphenyl Ethers (PBDEs) in 2002-2004 at a Rural Site in the Great Lakes: Comparison to Measurements in the Arctic

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Content

			Page
1.	Regression results of temperature dependence at Point Petre.	Table S1	2
2.	Median concentrations ($\text{pg}\cdot\text{m}^{-3}$) of BDE-47, 99, and 209 in each of 6 clusters at Point Petre.	Table S2	2
3.	Air mass back-trajectories on July 1-4, 2002 (A) and November 10-11, 2004 (B).	Figure S1	2
4.	Plots of ϕ (%) vs. $\log P_L$ and fitting lines using Eq. 1 for individual sampling events. Regression results and sampling dates, averaged temperatures are shown as well.	Figure S2	3
5.	clusters identified by analyzing five-day air mass back-trajectories in 2002-2004	Figure S3	4

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Table S1. Regression results of temperature dependence at Point Petre.

		m	p	R^2	n
Tetra-BDE	BDE-47	-6300±1700	<0.01	0.33	29
	BDE-49	-4600±2200	<0.1	0.21	18
	BDE-66	-4100±3800	>0.1	0.068	18
Penta-BDE	BDE-85	-350±2400	>0.1	<0.01	18
	BDE-99	-6100±3300	<0.1	0.13	26
	BDE100	-5200±3000	<0.1	0.12	25
Hexa-BDE	BDE-153	-3400±5100	>0.1	0.028	17
	BDE-154	-1500±2300	>0.1	0.021	21

Table S2. Natural logarithm of median concentrations ($\text{pg}\cdot\text{m}^{-3}$) of BDE-47, 99, and 209 in each of 6 clusters at Point Petre.

	BDE-47	BDE-99	BDE-209
SW	0.77	0.13	0.77
WNW	0.91	0.33	0.55
WNW:L	0.91	0.19	0.39
NNW	-0.19	-0.26	-0.25
N	-0.40	-0.46	-0.25
SE	0.11	-0.63	-0.25

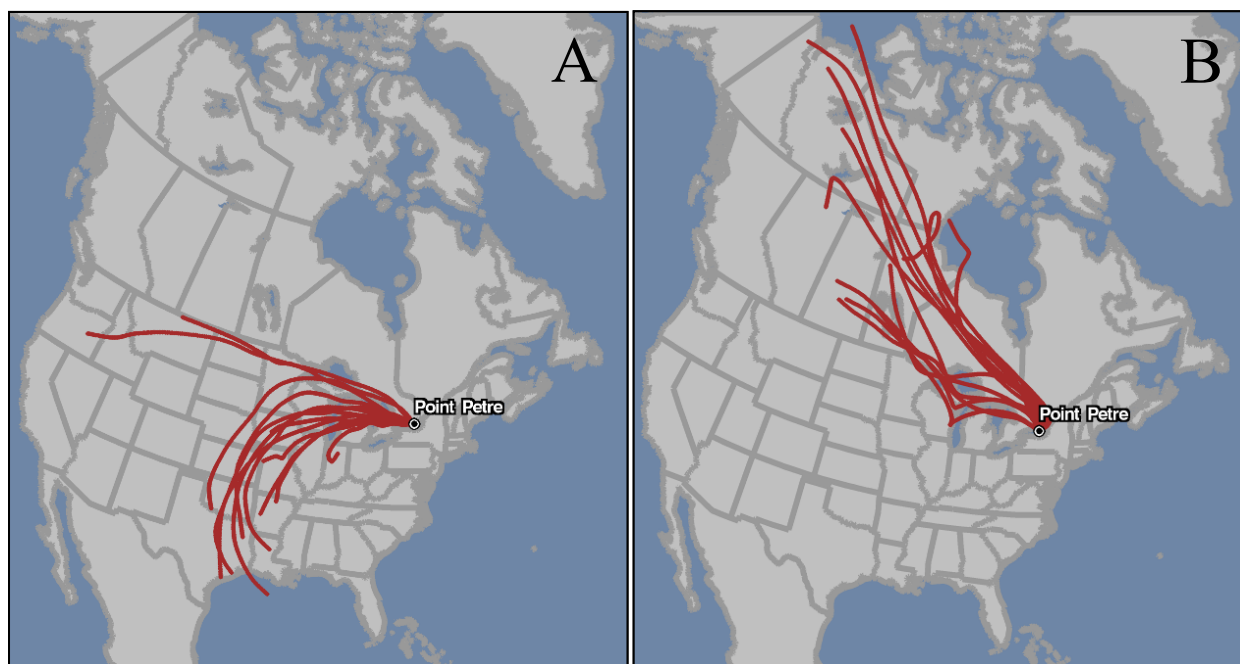


Figure S1. Air mass back-trajectories on July 1-4, 2002 (A) and November 11-14, 2004 (B).

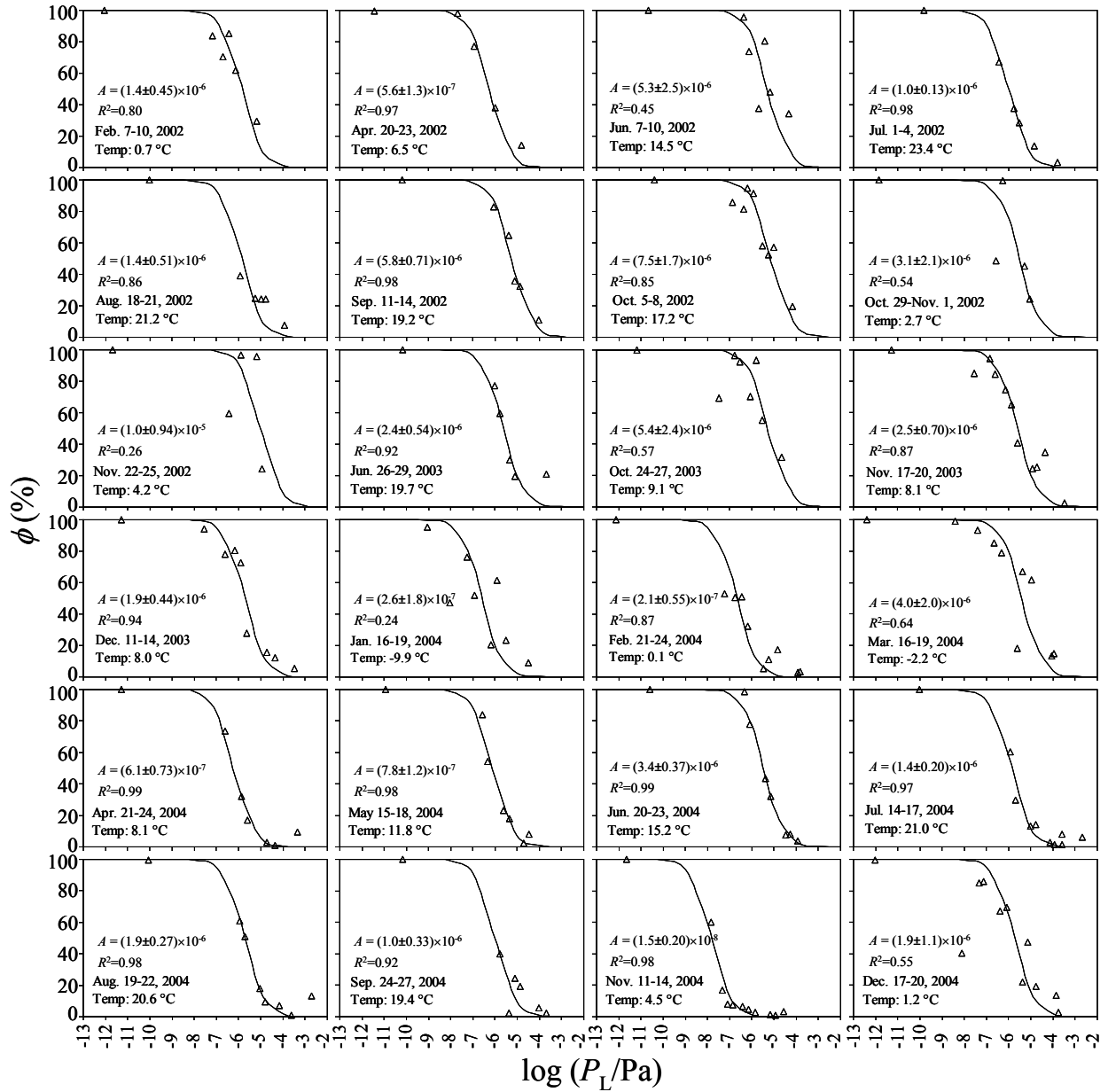


Figure S2. Plots of ϕ (%) vs. $\log P_L$ and fitting lines using Eq. 1 for individual sampling events. Regression results, sampling dates, and averaged temperatures are shown as well.

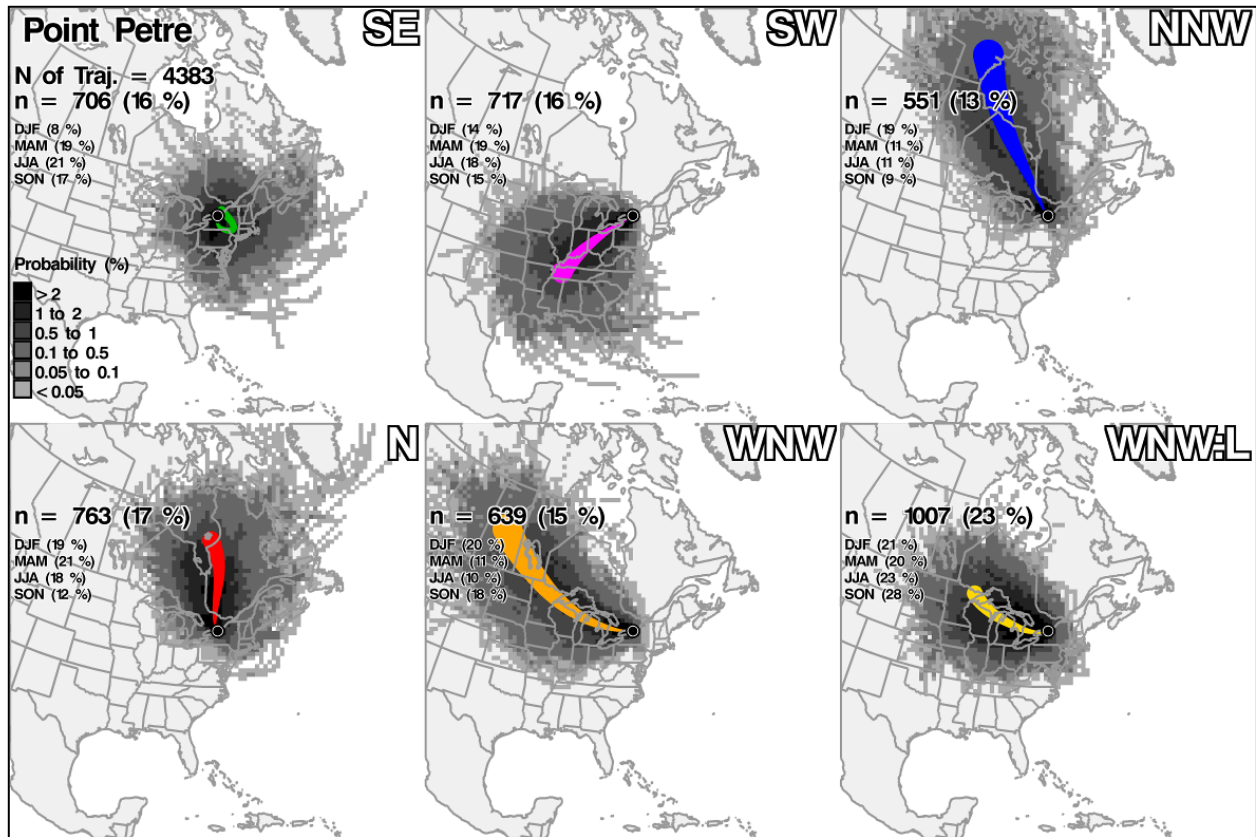


Figure S3. Six clusters identified by analyzing five-day air mass back-trajectories in 2002-2004.