

Table S1. Reported mean and range of total concentration of PCBs or PBDEs in coastal bivalves and deep-sea invertebrates

coastal bivalves									
Location	Organism	POPs	Mean	Range	Unit	Sampling period	Reference		
Asia									
Cambodia	<i>Perna viridis</i>	PCBs	35	<3.8–220	ng/g lw	1998	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		3.8–300		2003–2005	2		
		PBDEs		2.3–66					
China	<i>Perna viridis, Mytilus edulis</i>	PCBs	120	15–540		1999–2001	1		
Hong Kong	<i>Perna viridis</i>	PCBs	310	40–710		1998–1999	1		
	<i>Perna viridis</i>	PCBs		30–1200		2003–2005	2		
		PBDEs		26–130					
India	<i>Perna viridis</i>	PCBs	340	9.8–600		1998	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		56–1400		2003–2005	2		
		PBDEs		1.4–14					
Indonesia	<i>Perna viridis</i>	PCBs	87	5.6–210		1998	1		
Japan	<i>Mytilus gallorovincialis</i>	PCBs	3000	510–12000		1994	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		83–2000		2003–2005	2		
		PBDEs		6.2–49					
Korea	<i>Mytilus edulis</i>	PCBs	170	30–340		1998	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		17–1000		2003–2005	2		
		PBDEs		6.6–440					
Malaysia	<i>Perna viridis</i>	PCBs	56	<4.2–250		1998–1999	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		25–160		2003–2005	2		
		PBDEs		0.84–16					
Philippines	<i>Perna viridis</i>	PCBs	290	22–640		1998	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		1100–1900		2003–2005	2		
		PBDEs		69–140					
Russia	<i>Crenomytilus grayamus</i>	PCBs	3200	2700–3700		1999	1		
Singapore	<i>Perna viridis</i>	PCBs	90	90		1999	1		
Vietnam	<i>Perna viridis</i>	PCBs	160	21–450		1997	1		
	<i>Perna viridis, Mytilus edulis</i>	PCBs		44–290		2003–2005	2		
		PBDEs		0.66–5.4					
Europe									
Faxafløi Bay	<i>Mytilus</i> spp.	PCBs		11.9–38.2	ng/g dw	2004	3		
The Baltic Sea	<i>Mytilus</i> spp.			7.0–11.7		2003			
The North Sea	<i>Mytilus</i> spp.			5.0–34.3		2003–2004			
The English Channel	<i>Mytilus</i> spp.			3.3–1120.3		2004			
The Bay of Biscay	<i>Mytilus</i> spp.			3.8–21.7		2003–2004			
The Mediterranean Sea	<i>Mytilus</i> spp.			0.6–9.0		2003–2004			
The Black Sea	<i>Mytilus</i> spp.			8.2		2003			
United States									
Northwest	<i>Mytilus edulis, M. californianus, M. galloprovincialis, M. trossulus</i>	PCBs		3.5–144	ng/g dw	2004–2005	4		
		PBDEs		2–567	ng/g lw	2004–2007	5		
California	<i>Mytilus edulis, M. californianus, M. galloprovincialis, M. trossulus</i>	PCBs		4.4–642	ng/g dw	2004–2005	4		
		PBDEs		21–8202	ng/g lw	2004–2007	5		
Western Gulf Coast	<i>Crassostrea virginica</i>	PCBs		8.6–144	ng/g dw	2004–2005	4		
		PBDEs		2–438	ng/g lw	2004–2007	5		
Eastern Gulf Coast	<i>Crassostrea virginica</i>	PCBs		3.9–120	ng/g dw	2004–2005	4		
		PBDEs		2–436	ng/g lw	2004–2007	5		
Southeast	<i>Crassostrea virginica</i>	PCBs		5.8–109	ng/g dw	2004–2005	4		
		PBDEs		4–322	ng/g lw	2004–2007	5		
Middle Atlantic	<i>Crassostrea virginica</i>	PCBs		13–157	ng/g dw	2004–2005	4		
		PBDEs		0–185	ng/g lw	2004–2007	5		
Lower Northeast	<i>Mytilus edulis, M. californianus, M. galloprovincialis, M. trossulus</i>	PCBs		15–1413	ng/g dw	2004–2005	4		
		PBDEs		7–2189	ng/g lw	2004–2007	5		
Upper Northeast	<i>Mytilus edulis, M. californianus, M. galloprovincialis, M. trossulus</i>	PCBs		17–70	ng/g dw	2004–2005	4		
		PBDEs		21–167	ng/g lw	2004–2007	5		
Deep-sea invertebrates									
location	organism	Depth	POPs	mean	range	unit	sampling period	reference	
Mariana Trench	<i>Hirondellea gigas</i>	7841–10250	PCBs	382.28 (± 281.6 sd*)	147.3–905.0	ng/g dw	-	6	
					236.03–1866.25	ng/g lw			
				PBDEs		5.82–28.93			ng/g dw
						9.33–59.65			ng/g lw
Kermadec	<i>Hirondellea dubia, Bathycallisoma schellenbergi</i>	7227–10000	PCBs	25.24 (± 9.1 sd)	18.03–42.85	ng/g dw	-	6	
					62.02–239.31	ng/g lw			
				PBDEs		13.75–31.02			ng/g dw
						40.31–318.71			ng/g lw
Gulf of Mexico	<i>Actinoscyphia aurelia</i> <i>Benthodytes abyssicola, Benthodytes typica</i> <i>Kophobelemn</i> sp. sea lily	1998–2170	PCBs	2955.32 (± 1257.81 se [†])		ng/g ww	2017	7	
				2111.04 (± 1573.39 se)					
				9429.70 (± 1702.57 se)					
				5710.53					

* Standard deviation, † Standard error

Reference: 1. Monirith et al. (2003) *Mar Pollut Bull*; 2. Ramu et al. (2007) *Environ Sci Technol*; 3. Olenycz et al. (2015) *Oceanologia*; 4. Kimbrough et al. (2008) *NOAA Technical Memorandum NOS NCCOS*; 5. Kimbrough et al. (2009) *NOAA Technical Memorandum NOS NCCOS*; 6. Jamieson et al. (2017) *Nat Ecol Evol*; 7. Lawson et al. (2021) *Mar Pollut Bull*