

1 **Supporting information for:**

2 **“Chemical and physical transformations of mercury in the**
3 **ocean: a review”**

4

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1 Table S1. DGM Concentrations in Seawater.

Location	Concentration, fM	Reference
North Pacific	30-90	Laurier et al. (2003)
South and equatorial Pacific Ocean	60-200	Laurier et al. (2003)
South and equatorial Pacific Ocean	60-140	Kim and Fitzgerald (1986)
Equatorial Pacific	50-225	Kim and Fitzgerald (1986)
Equatorial Pacific	15-690	Mason and Fitzgerald (1993)
Equatorial Pacific	40-325	Mason and Fitzgerald (1993)
North Atlantic Ocean	100-720	Mason et al. (1998)
North Atlantic Ocean	150-1500	Mason et al. (1998)
North Atlantic Ocean	28-89	Andersson et al. (2011)
South Atlantic Ocean	400-2000	Mason and Sullivan (1999)
South and Equatorial Atlantic Ocean	80-160	Mason et al. (2001)
South and Equatorial Atlantic Ocean	110	Gardfeldt et al. (2003)
Ireland, Mace Head	107	Gardfeldt et al. (2003)
Mediterranean Sea, East	170	Gardfeldt et al. (2003)
Mediterranean Sea, West	75	Gardfeldt et al. (2003)
Tyrrhenian Sea	95	Gardfeldt et al. (2003)
Mediterranean Sea, East	201-221	Ferrara et al. (2003)
Mediterranean Sea, West	88	Ferrara et al. (2003)
Mediterranean Sea, West	670	Ferrara et al. (2003)
Mediterranean Sea, West	35-220	Cossa et al. (1997)
Mediterranean Sea	30-370	Horvat et al. (2003)
Mediterranean Sea, West	200	Andersson et al. (2007)
Tyrrhenian Sea	100-300	Andersson et al. (2007)

Location	Concentration, fM	Reference
Ionian Sea	80-330	Andersson et al. (2007)
Adriatic Sea	150-210	Andersson et al. (2007)
Adriatic Sea, North	350-1030	Andersson et al. (2007)
Mediterranean Sea, Strait of Sicily	100-140	Andersson et al. (2007)
Mediterranean Sea, Strait of Messina	220	Andersson et al. (2007)
Mediterranean Sea, Strait of Otranto	130-180	Andersson et al. (2007)
Mediterranean Sea	120-190	Andersson et al. (2007)
North Sea	60-800	Baeyens and Leermakers (1998)
North Sea	150-370	Coquery and Cossa (1995)
Baltic Sea	70-100	Wangberg et al. (2001)
Baltic Sea	50-160	Kuss and Schneider (2007)
Arctic Ocean, Beringia	25-670	Andersson et al. (2008)
Canada, Bay St.Francois	105-720	Zhang et al. (2006)
Japan, Tokyo Bay	130-390	Narukawa et al. (2006)
Black Sea, Coastal site	251-893	Lamborg et al. (2008)
Black Sea, Western Gyre	206-1161	Lamborg et al. (2008)
Mediterranean Sea, Strait of Sicily	2250	Gardfeldt et al. (2003)
France, Arcachon Bay, Aquitaine	25-960	Bouchet et al. (2011)
USA , Chesapeake Bay	100-30	Mason et al. (1999)
USA, San Francisco Bay	20-1780	Conaway et al. (2003)
Brazil, Sepetiba Bay	160-410	Boszke et al. (2002)
Brazil, Sepetiba Bay	50-550	Molisani et al. (2007)
Global ocean (modelling)	70	Strode et al. (2007)

1 Table S2. Total Mercury Concentrations in Seawater.

Location	Concentration, pM	Reference
North Atlantic Ocean	0.8-4.0	Mason et al. (1998)
Deep North Atlantic Ocean	1.5-3.1	Mason et al. (1998)
South and Equatorial Atlantic Ocean	0.94-2.42	Mason and Sullivan (1999)
South and Equatorial Atlantic Ocean	1.2-4.6	Mason and Sullivan (1999)
North Atlantic, Celtic Sea, LDW (lower deep water)	1.73-2.19	Cossa et al. (2004)
North Atlantic, Celtic Sea, LSW (Labrador sea water)	1.34-2.60	Cossa et al. (2004)
North Atlantic, Celtic Sea, MIW (Mediterranean intermediate water)	1.20-2.88	Cossa et al. (2004)
North Atlantic, Celtic Sea, ISOW (Iceland-Scotland overflow water)	2.31-3.11	Cossa et al. (2004)
North Atlantic, Celtic Sea	1.5-2.7	Cossa et al. (2004)
North Atlantic (Mediterranean Sea)	1.13-2.01	Cossa et al. (1997)
Gibraltar, MOW (Mediterranean outflow water)	1.82-2.64	Cossa et al. (1997)
Mediterranean Sea, West	1.29-3.79	Cossa et al. (1997)
Mediterranean Sea, West	1.05-1.87	Horvat et al. (2003)
Mediterranean Sea, West	1.72-1.93	Horvat et al. (2003)
North Pacific	0.38-0.90	Laurier et al. (2004)
Black Sea, Coastal site	1.6-7.6	Lamborg et al. (2008)
Black Sea, Western Gyre	1.9-11.8	Lamborg et al. (2008)

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