

## Supplementary material S10. PAHs in coastal sediments

Compound	Unit	Range of concentrations		NAd <sup>1</sup>		NAd <sup>2</sup>		NAd <sup>3</sup>		NAd <sup>4</sup>		SAd <sup>5</sup>		Ionian <sup>6</sup>		S Aegean <sup>7</sup>		S Aegean <sup>8</sup>		EMed <sup>9</sup>		Lev <sup>10</sup>		Lev <sup>11</sup>		
		CoastMin	CoastMax	West coast		Po delta, Ancona		Trieste gulf		Rovinj harbor		marinas		Taranto harbor		Greece coast		Greece coast		Sfax, Tunisia coast		Lebanon Tripoli harbor		Egypt coast		
				Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min
Naphthalene	µg kg <sup>-1</sup> dw	<b>LOD(0.04)</b>	<b>1170</b>					3.11	76.3			2.5	160	15	56					3.2	26.4	4.6	17.7	LOD(0.04)	1170.4	
Acenaphthene	µg kg <sup>-1</sup> dw	<b>LOD(0.01)</b>	<b>463</b>						LOD(9.3)	47.9													0.7	15.5	LOD(0.01)	462.8
Acenaphthylene	µg kg <sup>-1</sup> dw	<b>LOD(0.01)</b>	<b>285</b>						LOD(3.5)	7.9													1.4	18.6	LOD(0.01)	285.4
Fluorene	µg kg <sup>-1</sup> dw	<b>LOD(0.01)</b>	<b>532</b>						LOD(2.7)	6.9													3.1	21.3	LOD(0.01)	531.5
Phenanthrene	µg kg <sup>-1</sup> dw	<b>LOD(0.02)</b>	<b>2350</b>						1.8	41.8													29.6	215.8	LOD(0.02)	1547.3
Anthracene	µg kg <sup>-1</sup> dw	<b>LOD(0.01)</b>	<b>765</b>						LOD(0.9)	7.6													9.9	70.9	LOD(0.01)	223
Fluoranthene	µg kg <sup>-1</sup> dw	<b>LOD(0.03)</b>	<b>3551</b>						LOD(5.2)	55.8													14.4	369.6	LOD(0.03)	1820.3
Pyrene	µg kg <sup>-1</sup> dw	<b>LOD(0.03)</b>	<b>2976</b>						5.2	48.1													6.5	339	LOD(0.03)	1372.6
Benzo[a]anthracene	µg kg <sup>-1</sup> dw	<b>LOD(0.04)</b>	<b>1888</b>																				4.5	343.1	LOD(0.04)	1099.5
Chrysene	µg kg <sup>-1</sup> dw	<b>LOD(0.04)</b>	<b>2327</b>						LOD(2.8)	42.5													4.4	262.2	LOD(0.04)	746.6
Benzo[a]pyrene	µg kg <sup>-1</sup> dw	<b>LOD(0.05)</b>	<b>2756</b>						1.1	36.9													4.8	458.3	LOD(0.05)	2540
Benzo[ghi]perylene	µg kg <sup>-1</sup> dw	<b>LOD(0.08)</b>	<b>1924</b>						6.2	82.4													9.16	44.4	0.08	555.8
Indeno[1,2,3-cd]pyrene	µg kg <sup>-1</sup> dw	<b>LOD(&lt;0.1)</b>	<b>1944</b>						LOD(10.4)	47.4													13.8	92.4	0.1	708.4
Dibenzo[ah]anthracene	µg kg <sup>-1</sup> dw	<b>LOD(0.06)</b>	<b>1379</b>						LOD(1.4)	6													18.3	112.3	0.06	1020.7
Perylene	µg kg <sup>-1</sup> dw	<b>1.7</b>	<b>678</b>																				7.1	483		
Benzo[b]fluoranthene	µg kg <sup>-1</sup> dw	<b>0.05</b>	<b>3807</b>						25.0	40.4													11.6	637.2	0.05	1381
Dibenzothiophene	µg kg <sup>-1</sup> dw	<b>0.7</b>	<b>93.40</b>																							
Benzo[k]fluoranthene	µg kg <sup>-1</sup> dw	<b>0.05</b>	<b>1707</b>						11.6	16.6													3.39	112.8	0.05	712.7
TPAH	µg kg <sup>-1</sup> dw	<b>2.1</b>	<b>26633</b>						60	577													243	2964.7	88	6388.4
Core section	cm								0	5													0	2	0	3
Silt+Clay	%																									
Organic carbon	%																									
Stations selected									11														18		15	31

EMed: Eastern Mediterranean Sea; NAd: North Adriatic Sea; MAAd: Middle Adriatic Sea; SAd: South Adriatic Sea; Ionian: Ionian Sea; N Aegean: North Aegean Sea; S Aegean: South Aegean Sea; Lev: Levantine Sea.

<sup>1</sup>Caricchia et al., 1993; <sup>2</sup>Magi et al. 2002; <sup>3</sup>Notar et al. 2001; <sup>4</sup>Bihari et al., 2006; <sup>5</sup>Mali et al., 2017; <sup>6</sup>Cardellicchio et al., 2007; <sup>7</sup>Botsou&Hatziastis, 2012; <sup>8</sup>Tsapakis et al., 2010;<sup>9</sup>Zaghden et al., 2017; <sup>10</sup>Merhaby et al., 2015; <sup>11</sup>El Nemr et al., 2007

LOD: Limit of detection