

Supplementary material S9. PAHs in offshore sediments

Compound	Unit	Concentration range offshore sediments		MAd <sup>1</sup>		Ionian <sup>2</sup>		S Aegean <sup>2</sup> Cretan Sea		S Aegean <sup>3</sup> Cretan Sea		S Aegean <sup>4</sup>		E Med <sup>4</sup> South Crete		Lev <sup>2</sup>		Lev <sup>4</sup>		SE Lev <sup>5</sup>		E Med** deep	
		OffshoreMin	OffshoreMax	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max		
Naphthalene	µg kg <sup>-1</sup> dw	0.22	2.80	0.22	2.13																1.4	2.8	
Acenaphthene	µg kg <sup>-1</sup> dw	LOD(0.005)	0.25	LOD	0.2							0.005	0.1	0.01	0.25				0.01	0.03	LOD	LOD	1.05
Acenaphthylene	µg kg <sup>-1</sup> dw	LOD(0.03)	0.38	LOD	0.15							0.06	0.38	0.03	0.29				0.07	0.09	LOD	LOD	0.33
Fluorene	µg kg <sup>-1</sup> dw	LOD(0.06)	0.7	0.18	0.43	0.06	0.68	0.09	0.33			0.08	0.42	0.08	0.57	0.07	0.22	0.07	0.12	LOD(0.7)	0.7	0.45	
Phenanthrene	µg kg <sup>-1</sup> dw	LOD(0.62)	10.72	1.13	7.21	0.62	10.72	1.61	4.72	0.74	4.18	0.8	2.2	0.7	4.2	1.81	4.38	0.63	1.1	LOD(1.6)	4.9	3.95	
Anthracene	µg kg <sup>-1</sup> dw	LOD(0.04)	0.90	0.17	0.27	0.06	0.73	0.14	0.30	0.04	0.32	0.06	0.19	0.04	0.53	0.09	0.24	0.06	0.15	LOD(0.6)	0.9	1.56	
Fluoranthene	µg kg <sup>-1</sup> dw	0.45	17.83	0.73	3.27	0.45	17.83	1.87	3.02	1.13	11.1	1.1	2	0.5	4.3	2.25	5.18	1.1	1.7	1.3	5.5	6.7	
Pyrene	µg kg <sup>-1</sup> dw	0.30	9.71	0.77	3.13	0.30	9.71	1.13	2.72	0.5	6.35	0.6	1.5	0.5	3.1	1.16	2.87	0.8	1.3	1.6	5.3	2.1	
Benzo[a]anthracene	µg kg <sup>-1</sup> dw	0.08	47.39	0.2	47.39	0.17	6.24	0.56	1.46	0.36	4.82	0.33	0.8	0.08	1.6	0.69	1.58	0.33	0.57	1.1	3	1.28	
Chrysene	µg kg <sup>-1</sup> dw	LOD(0.25)	11.37	0.25	5.15	0.63	11.37	2.38	3.90	0.97	7.3	0.8	2.7	0.5	3.9	2.09	3.51	1.1	1.7	LOD(0.9)	2.5	6.64	
Benzo[a]pyrene	µg kg <sup>-1</sup> dw	LOD(0.10)	8.76	0.25	2.04	0.22	8.76	0.85	1.57	0.54	6.65	0.42	1.26	0.1	2.2	0.98	1.68	0.52	0.84	LOD(0.8)	1.4	3.71	
Benzo[ghi]perylene	µg kg <sup>-1</sup> dw	LOD(0.51)	10.79	0.51	4.03	0.60	10.79	1.44	3.22	1.11	8.91	1.1	3	0.8	5.4	2.17	2.65	1.7	2.8	LOD(1.2)	3.7	3.25	
Indeno[1,2,3-cd]pyrene	µg kg <sup>-1</sup> dw	LOD(0.75)	12.82	1.07	7.18	0.75	12.82	1.88	4.42	1.39	9.85	1.6	4.7	0.9	8.7	2.82	3.10	2.4	3.9	1	4.4	4.49	
Dibenzo[ah]anthracene	µg kg <sup>-1</sup> dw	LOD(0.10)	2.88	0.17	1.07	0.11	2.88	0.34	0.66	0.37	2.46	0.2	0.7	0.10	1.20	0.45	0.71	0.3	0.5	LOD(0.8)	1	1.37	
Perylene	µg kg <sup>-1</sup> dw	0.19	18.35	0.28	3.1	0.19	12.25	0.86	2.07	0.43	18.35	0.21	1.73	0.3	5.3	0.36	1.33	0.24	0.47				
Benzo[b]fluoranthene	µg kg <sup>-1</sup> dw	0.61	14.46			0.61	14.46	3.37	4.50			2	5.1	1.2	8.5	2.39	4.07	2.4	3.8	1.4	5.5	8.32	
Dibenzothiophene	µg kg <sup>-1</sup> dw	0.01	0.71	0.15	0.71	0.01	0.52	0.01	0.52							0.02	0.03						
Benzo[k]fluoranthene	µg kg <sup>-1</sup> dw	LOD(0.20)	12.62			0.71	12.62	2.53	3.54			0.56	1.5	0.20	2.3	2.16	3.75	0.7	1.1	LOD(1.1)	1.5	6.03	
TPAH	µg kg <sup>-1</sup> dw	5.59	164.91	35.46	164.9	5.59	122.73	22.1	35.25	14.7	161.5	14	34	9	60	19.5	34.4	17	27	11	35		
Core section	cm			ns (top)		0	1	0	1	0	1	0	1	0	1	0	1	0	1	1			
Organic carbon	%					0.15	1.15	0.37	0.61	0.3	0.82	0.33	0.82	0.36	0.73	0.31	0.49	0.42	0.5	0.59	0.97		
Bottom depth	m			78	175	1450	4087	1101	3626	100	1570	1025	4015	215	4393	1305	3090	2042	2390	1496	1901		
Stations selected				4 (S4-S7)		9		5		10		5		42		3		5		17*			

E Med: Eastern Mediterranean Sea; NAD: North Adriatic Sea; MAd: 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>Mandic&Vrancic, 2017; <sup>2</sup>Parinos et al., 2013; <sup>3</sup>Gogou et al., 2000; <sup>4</sup>Mandalakis et al., 2014; <sup>5</sup>Asterhan et al., 2017;

\*excluded shallower stations near dumping and gas drilling sites \*\*UNEP/MAP 2011: not used

LOD: Limit of detection; ns: not specified;