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Supplementary Data

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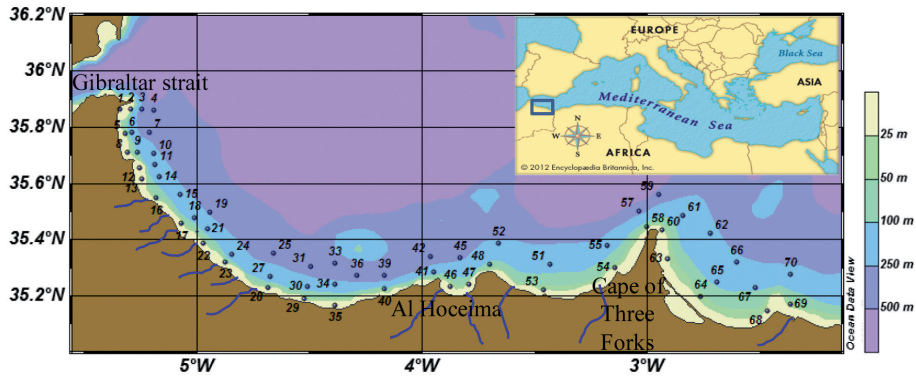


Figure S1: Sampling stations along the Moroccan Mediterranean sea

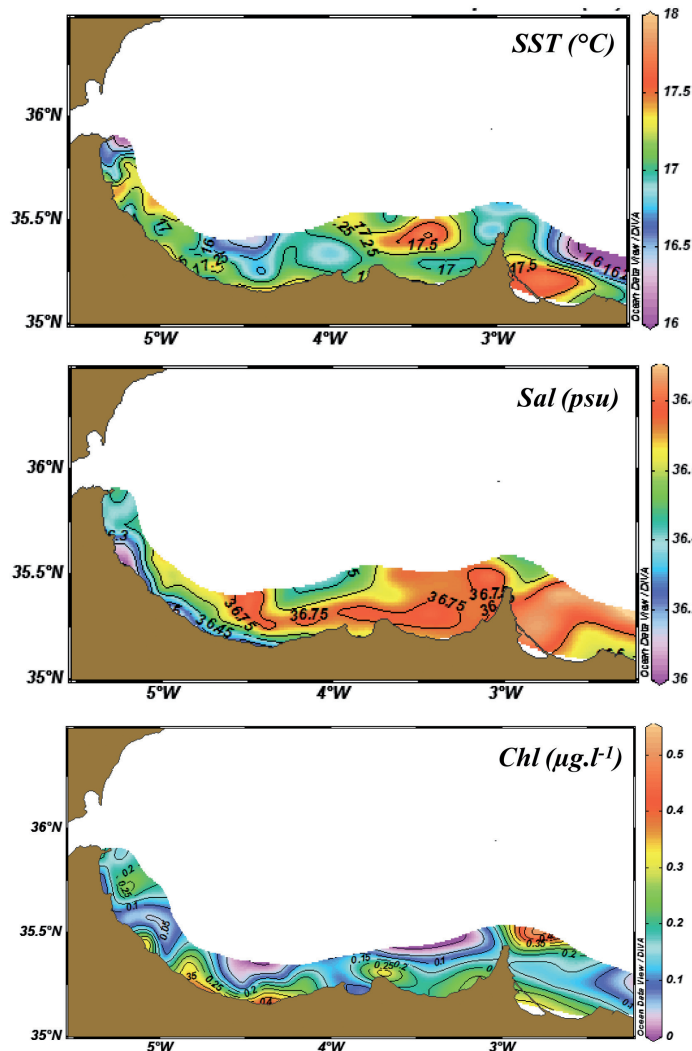


Figure S2: Sea surface temperature, salinity and chlorophyll-a concentrations along the Moroccan Mediterranean Sea in April 2013.

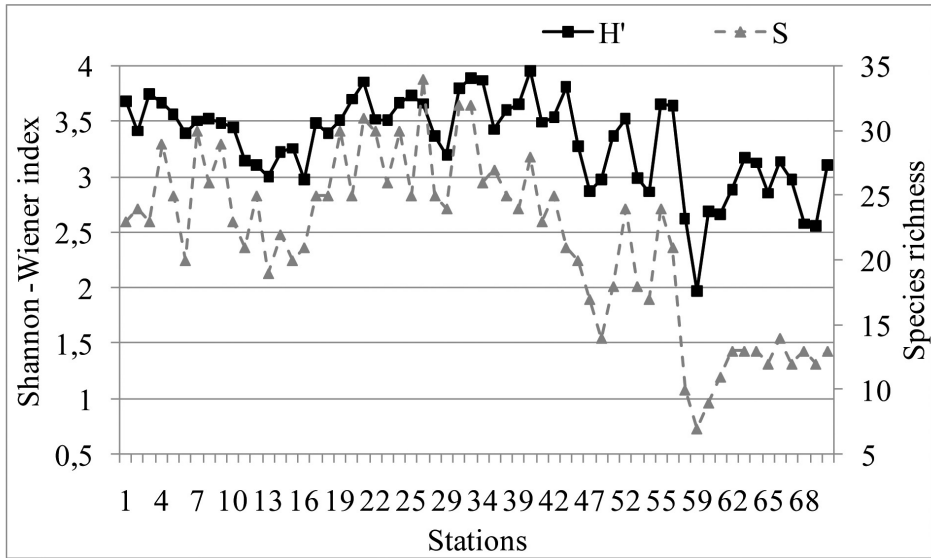


Figure S3: Species richness ( $S$ ) and Shannon-Wiener index ( $H'$ ) evolution along the study area.

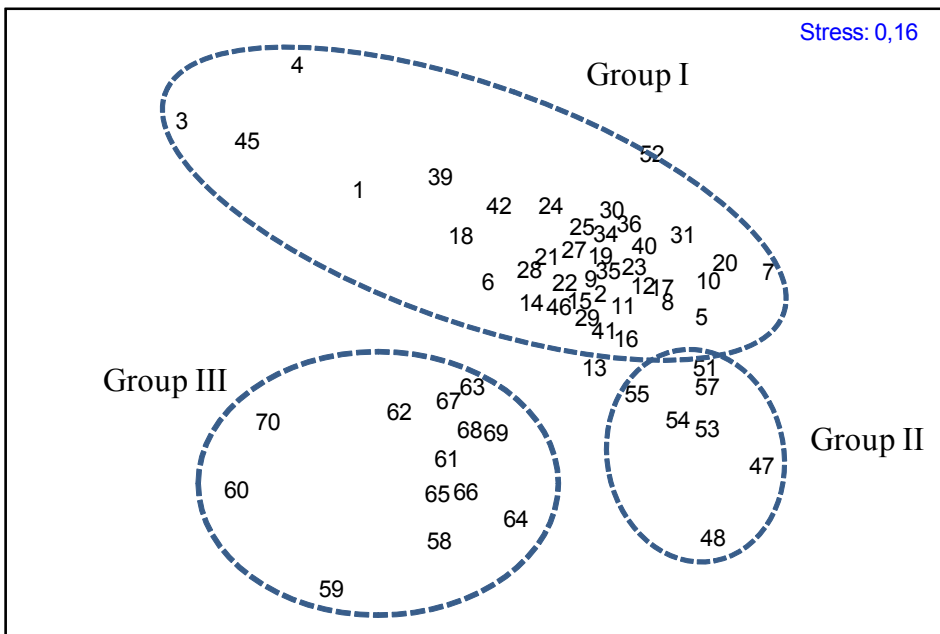


Figure S4: MDS plot; groups were delimited at 60% similarity level of the hierarchical clustering.

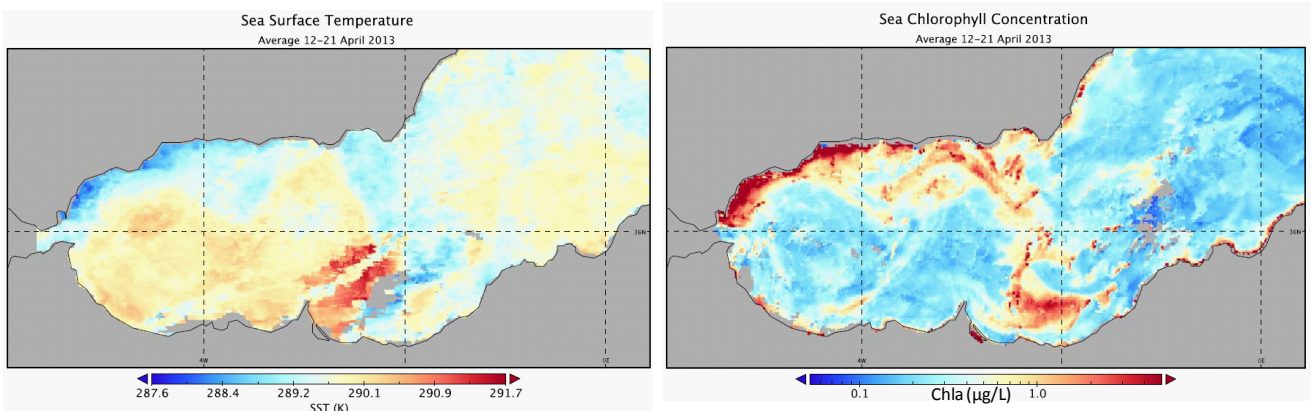


Figure S5: Satellite images of average SST and Chlorophyll-a during the sampling period

**Table S1.** average abundance (ind m<sup>-3</sup>), abundance range and occurrence (% Occ.) of copepod species recorded along the Moroccan Mediterranean coast.

Families / Species	Average Ab.	Ab. range	% Occ.	Families / Species	Average Ab	Ab. range	% Occ.
<b>ACARTIIDAE</b>				<b>LUCICUTIIDAE</b>			
<i>Acartia clausi</i>	31.85	0 - 181.69	90.16	<i>Lucicutia longicornis</i>	0.10	0 - 6.16	1.64
<i>Acartia longiremis</i>	0.01	0 - 0.36	1.64	<i>Lucicutia sp.</i>	0.08	0 - 4.87	1.64
<i>Acartia danae</i>	0.11	0 - 4.58	3.28	<b>METRIDINIDAE</b>			
<b>AETIDEIDAE</b>				<i>Pleuromamma robusta</i>	0.05	0 - 2.77	1.64
<i>Aetideus armatus</i>	0.16	0 - 8.47	4.92	<i>Pleuromamma abdominalis</i>	7.18	0 - 242.64	32.79
<i>Gaetanus sp.</i>	2.41	0 - 18.66	32.79	<b>OITHONIDAE</b>			
<b>CALANIDAE</b>				<i>Oithona similis</i>	74.61	0 - 651.15	93.44
<i>Calanoides carinatus</i>	7.29	0 - 49.09	54.10	<i>Oithona nana</i>	265.00	1.13 - 1067.36	100.00
<i>Calanus helgolandicus</i>	3.15	0 - 68.59	18.03	<i>Oithona plumifera</i>	44.08	0 - 419.15	83.61
<i>Nannocalanus minor</i>	0.52	0 - 22.93	11.48	<i>Oithona setigera</i>	0.05	0 - 2.89	1.64
<b>CLAUSOCALANIDAE</b>				<i>Oithona sp.</i>	16.42	0 - 513.84	44.26
<i>Clausocalanus arcuicornis</i>	90.75	0 - 633.59	78.69	<b>ONCAEIDAE</b>			
<i>Clausocalanus sp.</i>	25.22	0 - 263.00	36.07	<i>Triconia (Oncaea) conifera</i>	0.32	0 - 8.90	9.84
<i>Clau`socalanus furcatus</i>	8.60	0 - 92.39	54.10	<i>Oncaea mediterranea</i>	17.11	0 - 139.29	75.41
<b>CANDACIIDAE</b>				<i>Oncaea venusta</i>	65.09	1.55- 285.46	100.00
<i>Candacia armata</i>	1.88	0 - 25.35	31.15	<i>Oncaea sp.</i>	6.15	0 - 55.39	39.34
<i>Candacia longimana</i>	4.62	0 - 49.28	52.46	<b>PARACALANIDAE</b>			
<i>Candacia sp.</i>	0.61	0 - 14.27	14.75	<i>Mecynocera clausi</i>	1.60	0 - 68.23	11.48
<b>CENTROPAGIDAE</b>				<i>Paracalanus aculeatus</i>	0.07	0 - 4.41	1.64
<i>Centropages chierchiai</i>	0.58	0 - 21.92	8.20	<i>Paracalanus parvus</i>	241.71	2.63 - 921.15	100.00
<i>Centropages typicus</i>	16.23	0 - 154.41	73.77	<i>Calocalanus pavoninus</i>	9.69	0 - 76.21	62.30
<i>Centropages violaceus</i>	0.36	0 - 9.54	13.11	<i>Calocalanus sp.</i>	0.07	0 - 4.41	3.28
<i>Centropages sp.</i>	2.60	0 - 46.43	26.23	<b>PELTIDIIDAE</b>			
<b>CORYCAEIDAE</b>				<i>Goniopsyllus rostratus</i>	1.64	0 - 21.92	34.43
<i>Corycaeus speciosus</i>	0.70	0 - 14.44	13.11	<b>PHAENNIDAE</b>			
<i>Corycaeus Clausi</i>	0.11	0 - 6.90	1.64	<i>Phaenna spinifera</i>	0.34	0 - 14.27	8.20
<i>Agetus (Corycaeus) limbatus</i>	0.01	0 - 0.65	1.64	<b>PONTELLIDAE</b>			
<i>Agetus (Corycaeus) typicus</i>	2.10	0 - 36.14	22.95	<i>Labidocera wollastoni</i>	47.85	0 - 234.07	9.84
<i>Agetus (Corycaeus) flaccus</i>	0.49	0 - 12.31	14.75	<b>TACHYDIIDAE</b>			
<i>Corycaeus sp.</i>	7.52	0 - 59.28	60.66	<i>Euterpina acutifrons</i>	47.85	0.24 - 234.07	100.00
<b>ECTINOSOMATIDAE</b>				<b>SAPPHIRINIDAE</b>			
<i>Microsetella norvegica</i>	2.56	0 - 19.50	29.51	<i>Sapphirina iris</i>	0.44	0 - 9.75	9.84
<i>Microsetella rosea</i>	13.80	0 - 126.72	78.69	<i>Sapphirina intestinata</i>	0.26	0 - 8.47	4.92
<b>EUCALANIDAE</b>				<i>Sapphirina ovatolanceolata</i>	0.10	0 - 4.91	3.28
<i>Subeucalanus (Eucalanus) crassus</i>	4.17	0 - 41.58	45.90	<i>Sapphirina sp.</i>	0.54	0 - 8.01	22.95
<i>Eucalanus hyalinus</i>	54.70	0 - 314.14	93.44	<b>TEMORIDAE</b>			
<i>Rhincalanus nasutus</i>	5.79	0 - 33.75	59.02	<i>Temora longicornis</i>	6.67	0 - 180.69	29.51
<i>Eucalanus sp.</i>	12.47	0 - 99.91	68.85	<i>Temora stylifera</i>	43.38	0 - 388.06	96.72

**Table S2.** Copepod indicator species for each group of stations based on indicator values (IndVal  $\geq$  25%) and their significant association with the group ( $p < 0.05$ ).

	Species	IndVal	p Value
<b>Group I</b>	Clausocalanus furcatus	90.6	***
	Gaetanus sp.	71.6	**
	Corycaeus flaccus	48	ns
	Centropages violaceus	45.3	ns
	Corycaeus speciosus	45.3	ns
	Mecynocera clausi	42.4	ns
	Oncaea conifera	39.2	ns
	Sapphirina iris	39.2	ns
	Labidocera wollastoni	39.2	ns
<b>Group II</b>	Clausocalanus sp.	99.3	***
	Centropages sp.	75.1	***
	Centropages chierchiae	46.7	*
	Temora longicornis	82.3	***
<b>Group III</b>	Corycaeus typicus	56.0	ns
	Calanus helgolandicus	45.8	ns
	Aetideus armatus	26.9	ns

Signif. codes: '\*\*\*'  $p < 0.001$  '\*\*'  $p < 0.01$  '\*'  $p < 0.05$  'ns'  $p > 0.05$ .