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Supplementary Data

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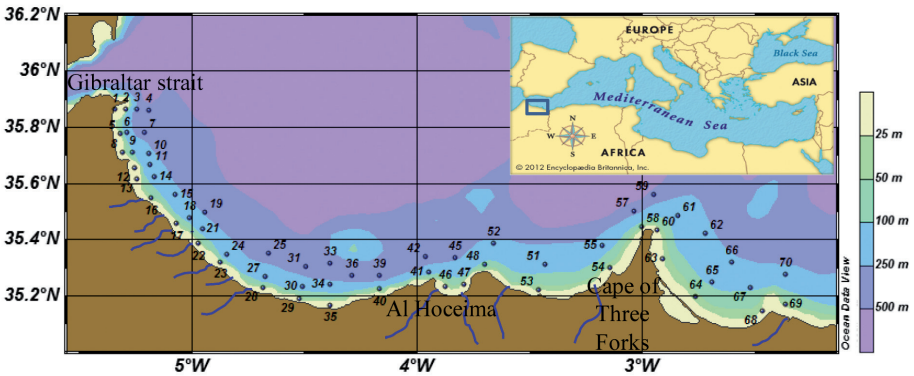

***Figure S1*:** Sampling stations along the Moroccan Mediterranean sea

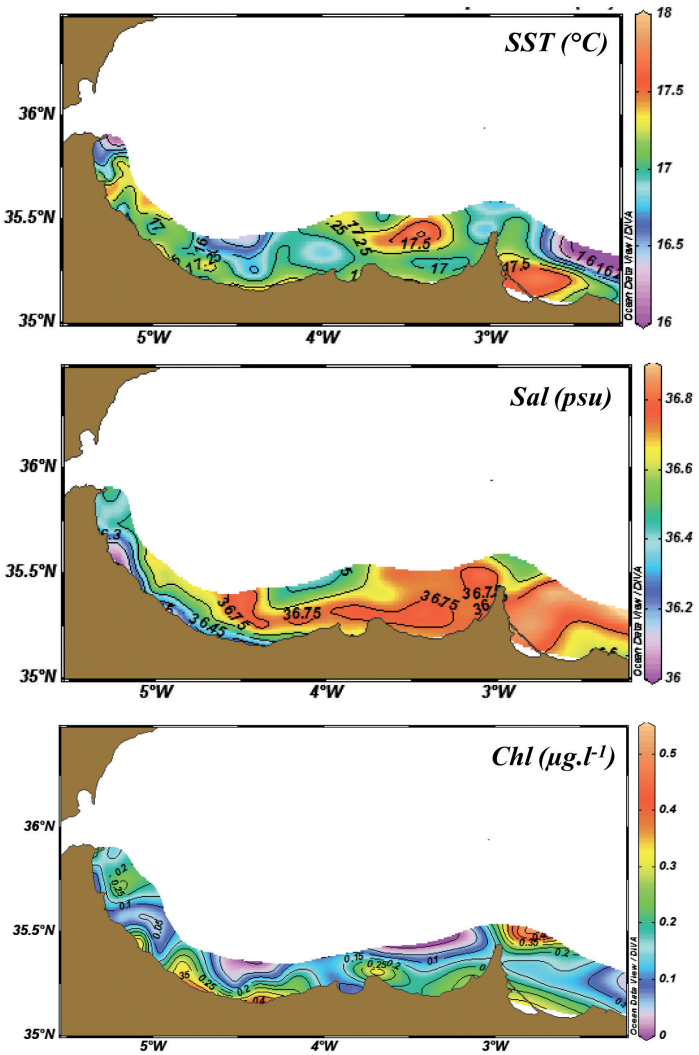

***Figure S2*:** Sea surface temperature, salinity and chlorophyll-a concentrations along the Moroccan Mediterranean Sea in April 2013.

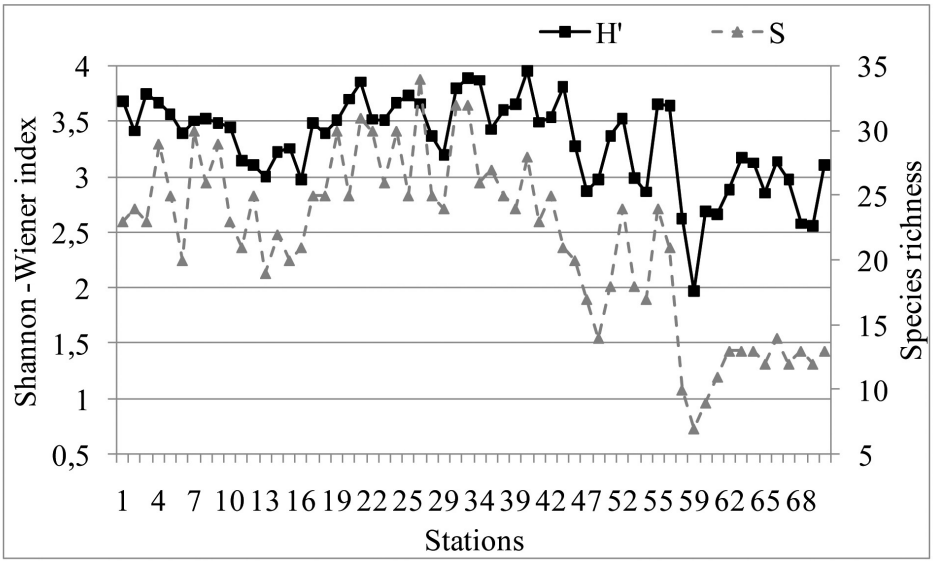

***Figure S3*:** Species richness (*S*) and Shannon-Wiener index (*H'*) evolution along the study area.

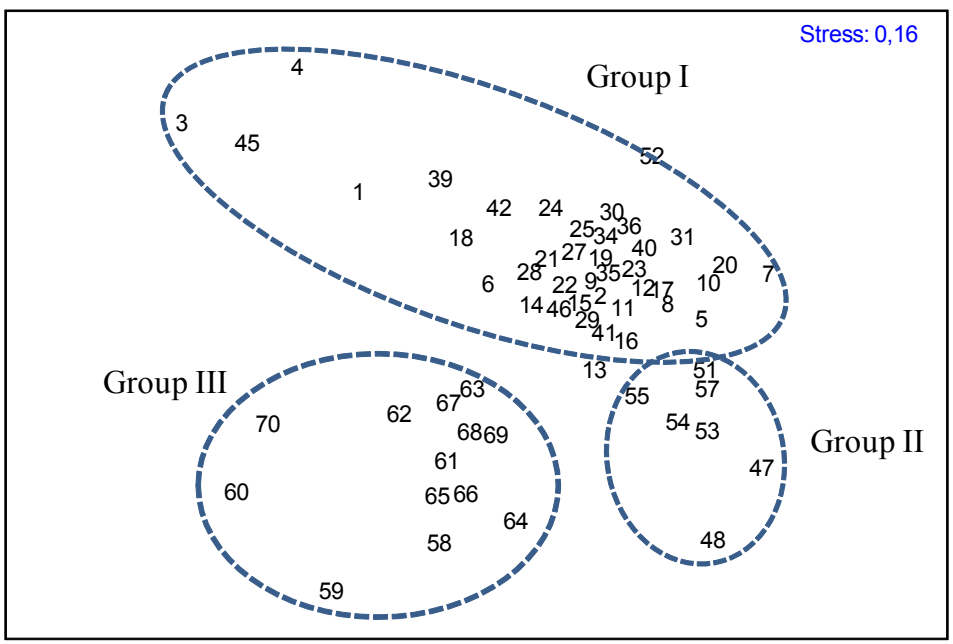

***Figure S4*:** MDS plot; groups were delimited at 60% similarity level of the hierarchical clustering.

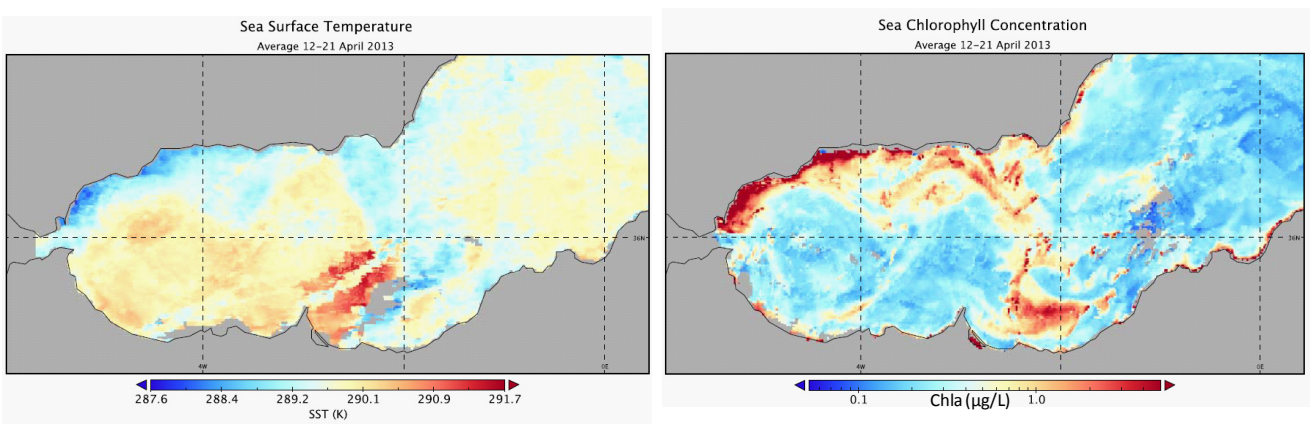

***Figure S5*:** Satellite images of average SST and Chlorophyll-a during the sampling period

Table S1. average abundance (ind m^{-3}), 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.
ACARTIIDAE				**LUCICUTIIDAE**			
Acartia clausi	31.85	0 - 181.69	90.16	*Lucicutia longicornis*	0.10	0 - 6.16	1.64
Acartia longiremis	0.01	0 - 0.36	1.64	*Lucicutia sp.*	0.08	0 - 4.87	1.64
Acartia danae	0.11	0 - 4.58	3.28	**METRIDINIDAE**			
AETIDEIDAE				*Pleuromamma robusta*	0.05	0 - 2.77	1.64
Aetideus armatus	0.16	0 - 8.47	4.92	*Pleuromamma abdominalis*	7.18	0 - 242.64	32.79
Gaetanus sp.	2.41	0 - 18.66	32.79	**OITHONIDAE**			
CALANIDAE				*Oithona similis*	74.61	0 - 651.15	93.44
Calanoides carinatus	7.29	0 - 49.09	54.10	*Oithona nana*	265.00	1.13 - 1067.36	100.00
Calanus helgolandicus	3.15	0 - 68.59	18.03	*Oithona plumifera*	44.08	0 - 419.15	83.61
Nannocalanus minor	0.52	0 - 22.93	11.48	*Oithona setigera*	0.05	0 - 2.89	1.64
CLAUSOCALANIDAE				*Oithona sp.*	16.42	0 - 513.84	44.26
Clausocalanus arcuicornis	90.75	0 - 633.59	78.69	**ONCAEIDAE**			
Clausocalanus sp.	25.22	0 - 263.00	36.07	*Triconia (Oncaea) conifera*	0.32	0 - 8.90	9.84
Clau`socalanus furcatus	8.60	0 - 92.39	54.10	*Oncaea mediterranea*	17.11	0 - 139.29	75.41
CANDACIIDEA				*Oncaea venusta*	65.09	1.55- 285.46	100.00
Candacia armata	1.88	0 - 25.35	31.15	*Oncaea sp.*	6.15	0 - 55.39	39.34
Candacia longimana	4.62	0 - 49.28	52.46	**PARACALANIDAE**			
Candacia sp.	0.61	0 - 14.27	14.75	*Mecynocera clausi*	1.60	0 - 68.23	11.48
CENTROPAGIDAE				*Paracalanus aculeatus*	0.07	0 - 4.41	1.64
Centropages chierchiae	0.58	0 - 21.92	8.20	*Paracalanus parvus*	241.71	2.63 - 921.15	100.00
Centropages typicus	16.23	0 - 154.41	73.77	*Calocalanus pavoninus*	9.69	0 - 76.21	62.30
Centropages violaceus	0.36	0 - 9.54	13.11	*Calocalanus sp.*	0.07	0 - 4.41	3.28
Centropages sp.	2.60	0 - 46.43	26.23	**PELTIDIIDAE**			
CORYCAEIDAE				*Goniopsyllus rostratus*	1.64	0 - 21.92	34.43
Corycaeus speciosus	0.70	0 - 14.44	13.11	**PHAENNIDAE**			
Corycaeus Clausi	0.11	0 - 6.90	1.64	*Phaenna spinifera*	0.34	0 - 14.27	8.20
Agetus (Corycaeus) limbatus	0.01	0 - 0.65	1.64	**PONTELLIDAE**			
Agetus (Corycaeus) typicus	2.10	0 - 36.14	22.95	*Labidocera wollastoni*	47.85	0 - 234.07	9.84
Agetus (Corycaeus) flaccus	0.49	0 - 12.31	14.75	**TACHYDIIDAE**			
Corycaeus sp.	7.52	0 - 59.28	60.66	*Euterpina acutifrons*	47.85	0.24 - 234.07	100.00
ECTINOSOMATIDAE				**SAPPHIRINIDAE**			
Microsetella norvegica	2.56	0 - 19.50	29.51	*Sapphirina iris*	0.44	0 - 9.75	9.84
Microsetella rosea	13.80	0 - 126.72	78.69	*Sapphirina intestinata*	0.26	0 - 8.47	4.92
EUCALANIDAE				*Sapphirina ovatolanceolata*	0.10	0 - 4.91	3.28
Subeucalanus (Eucalanus) crassus	4.17	0 - 41.58	45.90	*Sapphirina sp.*	0.54	0 - 8.01	22.95
Eucalanus hyalinus	54.70	0 - 314.14	93.44	**TEMORIDAE**			
Rhincalanus nasutus	5.79	0 - 33.75	59.02	*Temora longicornis*	6.67	0 - 180.69	29.51
Eucalanus sp.	12.47	0 - 99.91	68.85	*Temora stylifera*	43.38	0 - 388.06	96.72

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

	Species	IndVal	p Value
Group I	Clausocalaunus 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
Group II	Clausocalanus sp.	99.3	***
	Centropages sp.	75.1	***
	Centropages chierchiae	46.7	*
	Temora longicornis	82.3	***
Group III	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' $p > 0.05$.**