SUPPLEMENTARY INFORMATION

Ocean warming and acidification synergistically increase coral mortality

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SUPPLEMENTARY FIGURES

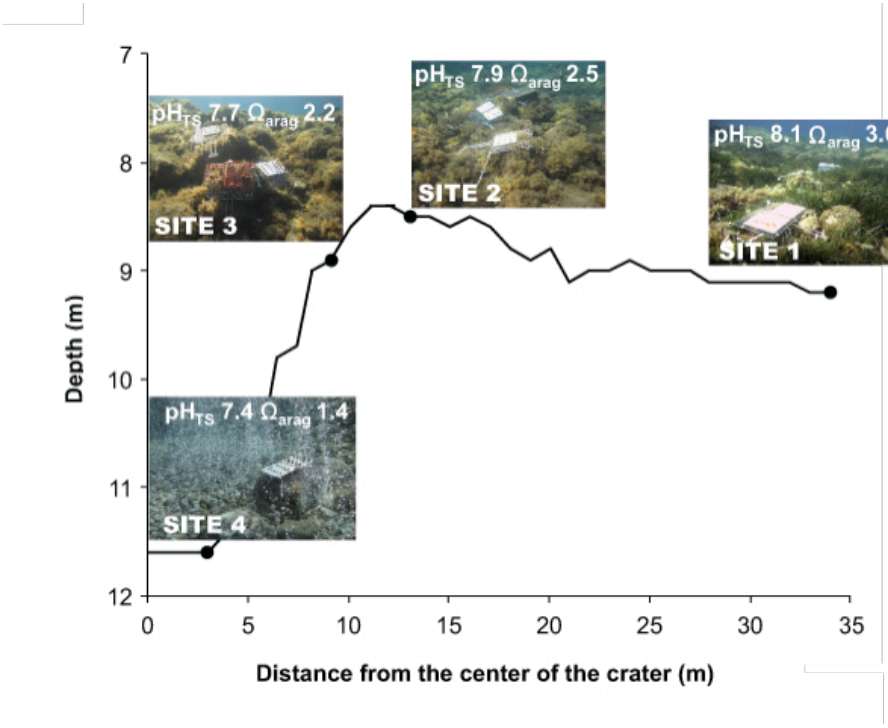
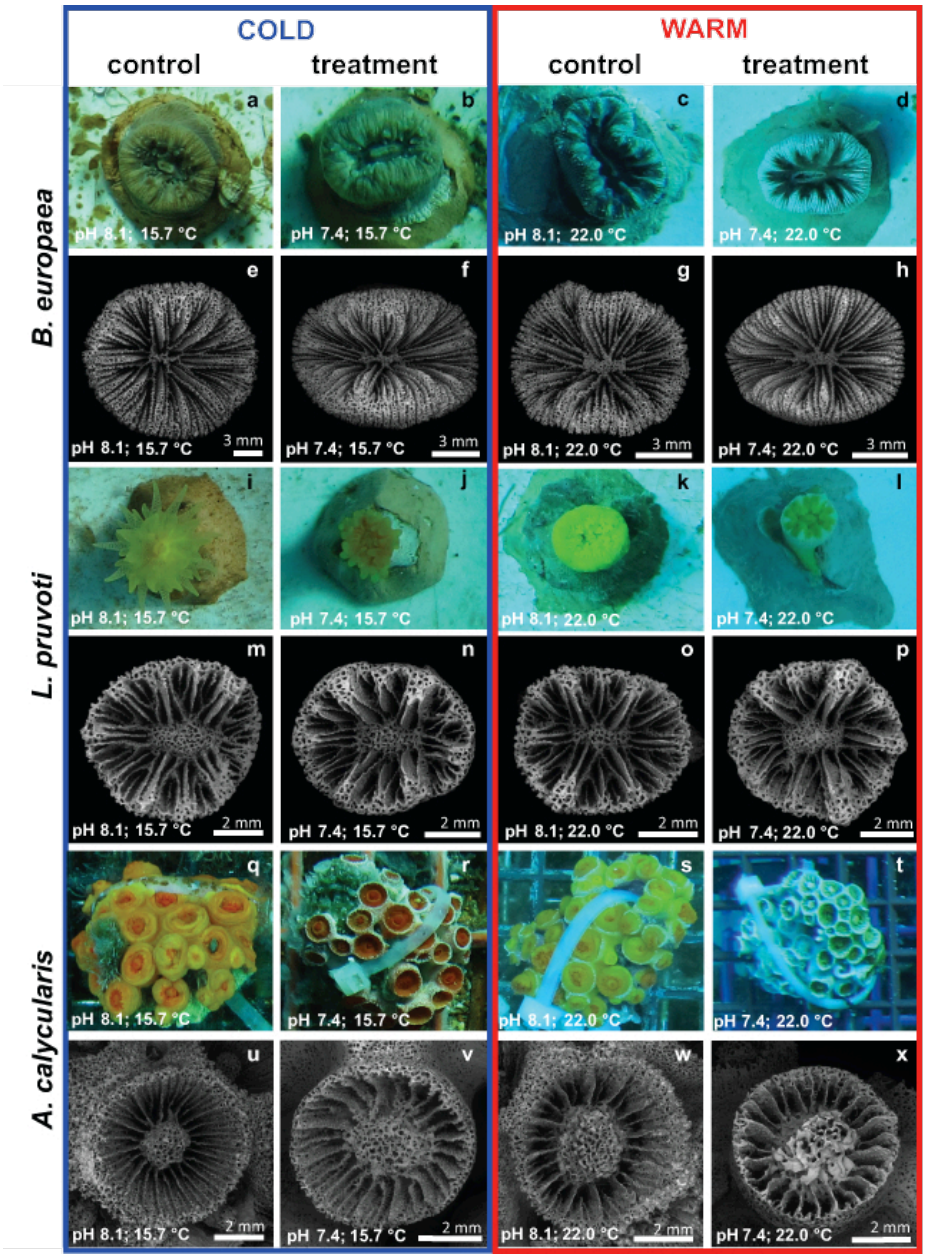


Fig. S1. Bathymetric profile of the four sites. Sites are shown in the pictures, with the associated mean pH_{TS} and Ω_{arag}.



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14 **Fig. S2. Images of the three coral species under different pH and temperature conditions**. **a-d**, **i-l**, **q-t**:
15 Pictures of live *B. europaea*, *L. pruvoti,* and *A. calycularis* specimens. **e-h**, **m-p**, **u-x**: Low magnification
16 SEM images of coral skeletons (image courtesy of J.C. Weaver at Harvard University). Images are reported
17 for corals exposed to mean pH 8.1 and pH 7.4 in COLD (November 2010-March 2011; mean temperature:
18 15.7°C) and WARM (May-June 2012; mean temperature: 22.0°C) periods.

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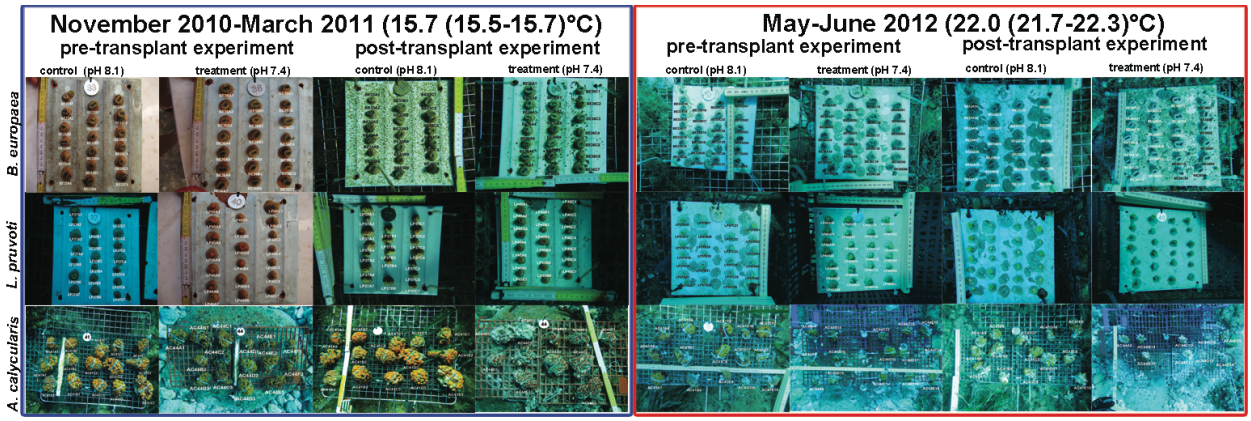

Fig. S3. Pre and post experimental images for *B. europaea*, *L. pruvoti* and *A. calycularis* under different pH and temperature conditions. A few examples are given of specimens at the beginning and at the end of transplant experiments in two representative transplant periods (COLD period in blue: November 2010-March 2011; WARM period in red: May-June 2012) and two sites (control: pH_{TS} 8.1; treatment: pH_{TS} 7.4).

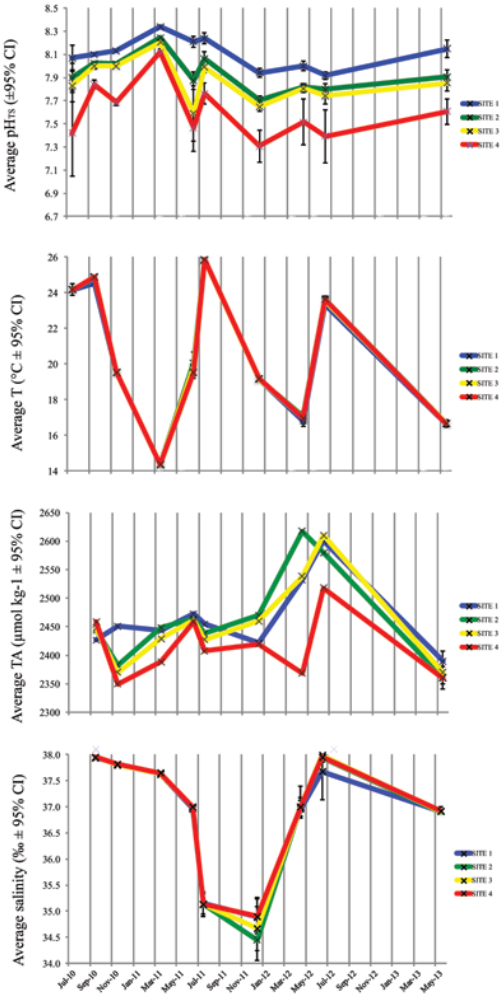

Fig. S4. Plots of average pH_{TS}, temperature, total alkalinity and salinity as measured at the times of data collection at the experimental sites. Average values and 95% confidence intervals were calculated from the related data reported in Table S1.

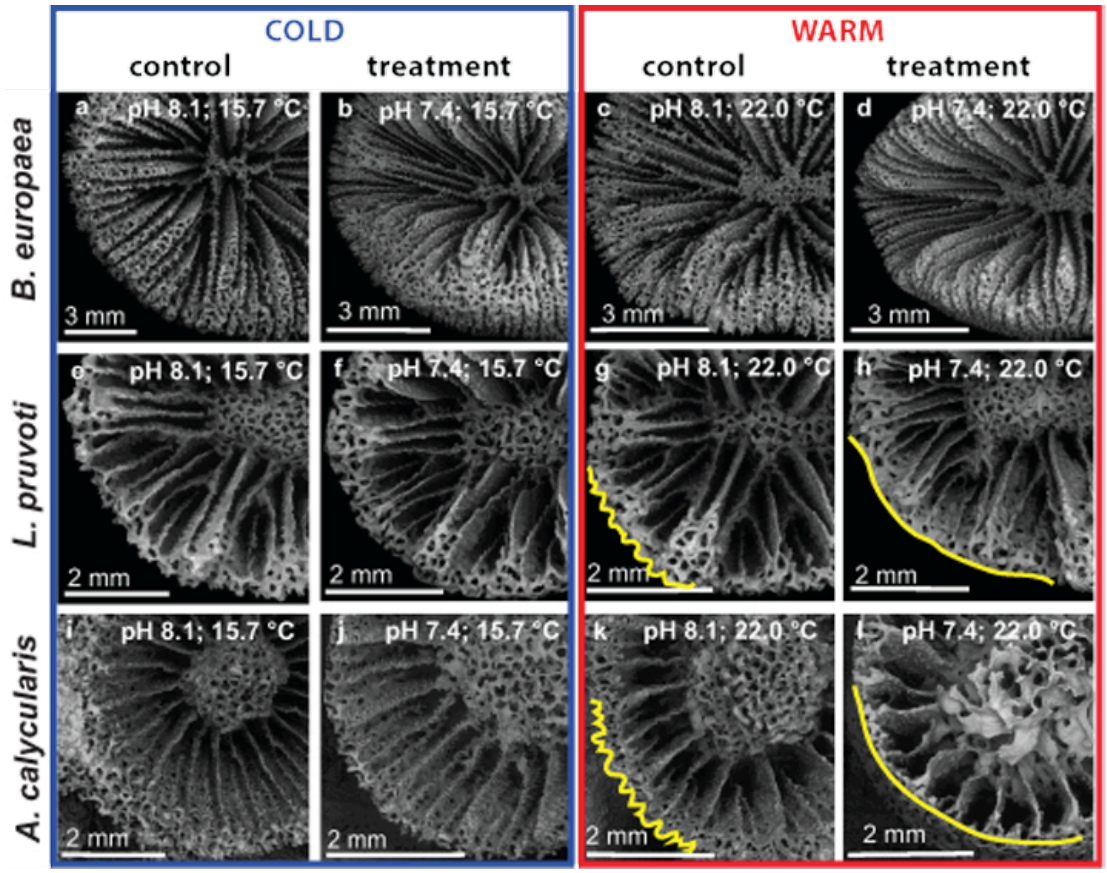

Fig. S5. Low magnification SEM images of skeletons. SEM images of skeletons of *Balanophyllia europaea, Leptopsammia pruvoti* and *Astroides calycularis* specimens under different pH and temperature conditions (image courtesy of J.C. Weaver at Harvard University). **a-d**, Images of *B. europaea*, **e-h**, *L. pruvoti*, and **i-l,** *A. calycularis* skeletons. **g, k,** Yellow contour lines highlight rough and **h, l,** smooth surfaces at mean pH 8.1 and pH 7.4, respectively, for *L. pruvoti* and *A. calycularis*. Images are reported for corals in COLD (November 2010-March 2011; mean temperature: 15.7°C) and WARM (May-June 2012; mean temperature: 22.0°C) periods.

SUPPLEMENTARY TABLES

Measured Parameters				
Treatment	pH range (total scale)	T (°C)	TA (µmol kg^{-1})	S (‰)
Site 1	8.07 (7.82-8.45)	20.5 (14.3-26.0)	2438 (2368-2600)	37 (33-38)
Site 2	7.87 (7.54-8.25)	20.7 (14.4-26.0)	2429 (2334-2618)	37 (33-38)
Site 3	7.74 (7.05-8.21)	20.6 (14.4-26.0)	2426 (2343-2610)	37 (34-38)
Site 4	7.40 (6.71-8.14)	20.6 (14.4-26.0)	2395 (2329-2518)	37 (34-38)
Statistical significance	***	NS	NS	NS

Calculated Parameters					
Treatment	*pCO_2 (µatm)	*HCO_3^- (µmol kg^{-1})	*CO_3^{2-} (µmol kg^{-1})	*DIC (µmol kg^{-1})	*Ω_{arag}
Site 1	391 (127-780)	1869 (1466-2144)	232 (120-398)	2114 (1867-2291)	3.6 (1.8-6.3)
Site 2	672 (234-1561)	2030 (1664-2264)	163 (68-314)	2214 (1984-2383)	2.5 (1.1-5.0)
Site 3	907 (262-5100)	2073 (1835-2365)	144 (25-243)	2246 (2089-2552)	2.2 (0.4-3.9)
Site 4	1944 (306-7231)	2159 (1826-2355)	96 (16-233)	2317 (2070-2613)	1.4 (0.2-3.1)
Statistical significance	***	***	***	***	***

Table S1. Seawater carbonate chemistry. Measurements are shown for each study Site off the Island of Panarea. Site 1 is the reference and sites 2-4 are the elevated pCO_2 Sites. Temperature (T; n = 112-115 per site), pH (n = 103-110 per site) and salinity (S; n = 107-110 per site) were measured in July 2010, September 2010, November 2010, March 2011, June 2011, July-August 2011, November-December 2011, April-May 2012, June 2012 and May 2013. Total alkalinity (TA; n = 14 per site) was measured in September 2010, November 2010, March 2011, June 2011, July-August 2011, November-December 2011, April-May 2012, June 2012 and May 2013. pCO_2 = carbon dioxide partial pressure; HCO_3^- = bicarbonate; CO_3^{2-} = carbonate; DIC = dissolved inorganic carbon; Ω_{arag} = aragonite saturation; NS = not significant; ***p<0.001, Kruskal-Wallis test. In brackets the min and max values.

	MORTALITY RATE					
	Dec 2011-Apr 2012	**Nov 2010-Mar 2011**	**Mar-Jun 2011**	**June-July 2011**	**July-Dec 2011**	**July-Sep 2010**
***B. europaea* polyp**	9	12	12	12	12	9
***L. pruvoti* polyp**		12	12	9	12	9
***A. calycularis* polyp**		45	46	44	35	44
***A. calycularis* tissue**		45	46	44	35	39

	NET CALCIFICATION RATE			
	Dec 2011-Apr 2012	**Nov 2010-Mar 2011**	**Mar-Jun 2011**	**July-Dec 2011**
B. europaea	18	24	20	21
L. pruvoti		21	21	22
A. calycularis		20	15	12

Table S2. Number of observations for each species and experimental period.

For polyp mortality, number of tiles in *B. europaea* and *L. pruvoti,* and number of colonies in *A. calycularis*; for net calcification, number of polyps in *B. europaea* and *L. pruvoti,* and number of colonies in *A. calycularis*.

December 2011-April 2012		November 2010-March 2011		March-June 2011		July-December 2011		June-July 2011		July-September 2010	
DATE	DEPTH T (°C)	DATE	DEPTH T (°C)	DATE	DEPTH T (°C)	DATE	DEPTH T (°C)	DATE	DEPTH T (°C)	DATE	DEPTH T (°C)
20111201	18.1	20101115	18.8	20110303	14.3	20110731	24.6	20110606	21.5	20100714	26.4
20111201	18.1	20101115	18.7	20110303	14.3	20110731	24.5	20110606	21.3	20100714	24.8
20111201	18.1	20101115	18.6	20110303	14.1	20110731	24.4	20110606	21.3	20100714	24.5
20111201	18.1	20101115	18.8	20110303	14.2	20110731	24.5	20110606	21.4	20100714	24.5
20111201	18.4	20101115	19.1	20110303	14.4	20110731	25.1	20110606	21.7	20100714	25.7
20111201	18.4	20101115	19.1	20110303	14.6	20110731	25.2	20110606	22.1	20100714	27.3
20111201	18.3	20101115	19.0	20110303	14.5	20110731	24.8	20110606	21.9	20100714	27.7
20111201	18.2	20101115	18.9	20110303	14.4	20110731	24.6	20110606	21.7	20100714	27.5
20111202	18.2	20101116	18.8	20110304	14.3	20110801	24.4	20110607	21.4	20100715	26.6
20111202	18.1	20101116	18.7	20110304	14.3	20110801	24.3	20110607	21.2	20100715	25.6
20111202	18.0	20101116	18.8	20110304	14.0	20110801	24.3	20110607	21.0	20100715	25.3
20111202	18.1	20101116	18.8	20110304	14.0	20110801	24.5	20110607	21.5	20100715	25.3
20111202	18.3	20101116	18.8	20110304	14.2	20110801	25.0	20110607	22.0	20100715	25.2
20111202	18.4	20101116	18.8	20110304	14.4	20110801	25.2	20110607	22.4	20100715	26.9
20111202	18.1	20101116	18.7	20110304	14.3	20110801	24.7	20110607	22.2	20100715	27.8
20111202	18.0	20101116	18.7	20110304	14.2	20110801	24.5	20110607	21.3	20100715	27.7
20111203	17.9	20101117	18.6	20110305	14.1	20110802	24.4	20110608	21.0	20100716	26.8
20111203	17.9	20101117	18.7	20110305	14.1	20110802	24.3	20110608	20.8	20100716	25.5
20111203	17.8	20101117	18.7	20110305	14.1	20110802	24.3	20110608	21.3	20100716	26.7
20111203	17.8	20101117	18.7	20110305	14.1	20110802	24.6	20110608	21.4	20100716	25.3
20111203	18.1	20101117	18.6	20110305	14.4	20110802	25.2	20110608	21.9	20100716	26.0
20111203	18.1	20101117	18.6	20110305	14.5	20110802	25.5	20110608	21.3	20100716	27.0
20111203	18.1	20101117	18.5	20110305	14.3	20110802	24.9	20110608	20.8	20100716	27.1
20111203	18.0	20101117	18.5	20110305	14.1	20110802	24.7	20110608	21.4	20100716	27.7
20111204	18.0	20101118	18.5	20110306	14.1	20110803	24.6	20110609	21.3	20100717	27.7
20111204	18.0	20101118	18.5	20110306	14.2	20110803	24.5	20110609	20.8	20100717	27.5
20111204	18.1	20101118	18.5	20110306	14.1	20110803	24.4	20110609	19.9	20100717	26.5
20111204	18.1	20101118	18.4	20110306	14.2	20110803	24.7	20110609	19.7	20100717	26.2
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20111205	18.2	20101119	18.3	20110307	14.0	20110804	24.5	20110610	20.2	20100718	27.5
20111205	18.3	20101119	18.4	20110307	13.9	20110804	24.7	20110610	20.5	20100718	26.8
20111205	18.3	20101119	18.5	20110307	14.3	20110804	25.2	20110610	20.9	20100718	27.3
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20111205	18.2	20101119	18.4	20110307	14.1	20110804	25.0	20110610	20.5	20100718	28.4
20111205	18.2	20101119	18.3	20110307	13.7	20110804	24.8	20110610	20.2	20100718	28.5
20111206	18.2	20101120	18.3	20110308	13.6	20110805	24.6	20110611	20.1	20100719	27.0
20111206	18.2	20101120	18.3	20110308	13.4	20110805	24.7	20110611	20.3	20100719	27.1
20111206	18.1	20101120	18.2	20110308	13.5	20110805	24.7	20110611	20.4	20100719	25.9
20111206	18.1	20101120	18.2	20110308	13.7	20110805	25.0	20110611	20.5	20100719	25.9
20111206	18.1	20101120	18.5	20110308	14.0	20110805	25.5	20110611	21.3	20100719	25.6
20111206	18.0	20101120	18.5	20110308	14.1	20110805	25.8	20110611	21.4	20100719	27.1
20111206	18.0	20101120	18.4	20110308	13.8	20110805	25.2	20110611	20.8	20100719	27.4
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20111207	17.9	20101121	18.4	20110309	14.3	20110806	25.7	20110612	21.3	20100720	26.1
20111207	17.9	20101121	18.4	20110309	14.5	20110806	25.7	20110612	21.3	20100720	27.0
20111207	17.9	20101121	18.2	20110309	14.2	20110806	25.2	20110612	20.5	20100720	27.8
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20111211	17.5	20101125	17.7	20110313	13.7	20110810	25.4	20110616	21.3	20100724	26.7
20111211	17.6	20101125	17.7	20110313	13.8	20110810	25.7	20110616	22.2	20100724	27.0
20111211	17.6	20101125	17.8	20110313	13.9	20110810	25.6	20110616	22.5	20100724	27.4
20111211	17.5	20101125	17.7	20110313	13.9	20110810	25.3	20110616	21.9	20100724	27.2
20111211	17.3	20101125	17.7	20110313	13.9	20110810	25.1	20110616	21.5	20100724	27.3
20111212	17.3	20101126	17.6	20110314	13.9	20110811	24.7	20110617	21.4	20100725	26.8
20111212	17.4	20101126	17.6	20110314	13.8	20110811	24.7	20110617	21.3	20100725	25.8
20111212	17.4	20101126	17.7	20110314	13.8	20110811	24.8	20110617	21.4	20100725	25.3
20111212	17.6	20101126	17.6	20110314	14.0	20110811	25.1	20110617	22.0	20100725	24.6
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20111213	17.7	20101127	17.6	20110315	13.9	20110812	24.6	20110618	22.0	20100726	25.1
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20111214	17.4	20101128	17.6	20110316	14.2	20110813	24.7	20110619	22.8	20100727	23.5
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20111214	17.9	20101129	17.6	20110316	14.4	20110813	25.4	20110619	22.5	20100727	25.1
20111214	18.0	20101129	17.5	20110316	14.2	20110813	25.1	20110619	21.4	20100727	24.8
20111215	18.0	20101129	17.6	20110317	14.3	20110814	25.0	20110620	21.0	20100728	24.1
20111215	18.0	20101129	17.5	20110317	14.3	20110814	24.8	20110620	21.0	20100728	23.1
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20120419	15.3						
20120419	15.3						
20120419	15.3						
20120419	15.4						
20120419	15.6						
20120419	15.5						
20120419	15.4						
20120419	15.4						
20120420	15.3						
20120420	15.4						
20120420	15.3						
20120420	15.4						
20120420	15.6						
20120420	15.5						
20120420	15.4						
20120420	15.4						
20120421	15.4						
20120421	15.4						
20120421	15.3						
20120421	15.4						
20120421	15.7						
20120421	15.9						
20120421	15.6						
20120421	15.5						
20120422	15.4						
20120422	15.4						
20120422	15.3						
20120422	15.7						
20120422	16.2						
20120422	16.5						
20120422	16.1						
20120422	15.9						
20120423	15.7						
20120423	15.7						
20120423	15.7						
20120423	15.9						
20120423	16.0						
20120423	15.9						
20120423	15.7						
20120423	15.5						
20120424	15.3						
20120424	15.1						
20120424	15.1						
20120424	15.6						
20120424	16.5						
20120424	16.8						
20120424	16.1						
20120424	15.7						
20120425	15.6						
20120425	15.6						
20120425	15.6						
20120425	15.9						
20120425	15.9						
20120425	15.9						
20120425	15.9						
20120425	15.9						
20120426	15.8						
20120426	15.8						
20120426	15.8						
20120426	16.1						
20120426	16.9						
20120426	17.1						
20120426	17.0						
20120426	16.9						
20120427	16.8						
20120427	16.6						
20120427	16.4						
20120427	16.9						
20120427	17.9						

20120427	18.1										
20120427	17.2										
20120427	16.2										
20120428	16.2										
20120428	16.3										
20120428	16.4										
20120428	16.9										
20120428	17.5										
20120428	18.0										
20120428	18.3										
20120428	17.8										
AVG	**15.6**	**AVG**	**15.7**	**AVG**	**16.2**	**AVG**	**22.8**	**AVG**	**23.5**	**AVG**	**25.6**
SD	**1.2**	**SD**	**1.3**	**SD**	**1.7**	**SD**	**3.0**	**SD**	**1.7**	**SD**	**1.1**
n	**1177**	**n**	**860**	**n**	**728**	**n**	**934**	**n**	**408**	**n**	**520**
95%	**0.1**	**95%**	**0.1**	**95%**	**0.1**	**95%**	**0.2**	**95%**	**0.2**	**95%**	**0.1**
CI	**15.5**	**CI**	**15.6**	**CI**	**16.0**	**CI**	**22.6**	**CI**	**23.4**	**CI**	**25.5**
CI	**15.6**	**CI**	**15.7**	**CI**	**16.3**	**CI**	**23.0**	**CI**	**23.7**	**CI**	**25.7**

Table S3. At-depth temperature data for the six experimental transplant periods. At-depth temperatures were obtained from linear regression analysis between depth temperature, recorded by temperature sensors placed in the sea bottom for almost 23 months (from June 3rd 2011 to April 25th 2013), and sea surface temperature, recorded by mareographic stations close to Panarea Island using SM3810 (Society for Environmental and Industrial monitoring; SIAP+MICROS) from the National Mareographic Network of the Institute for the Environmental Protection and Research (ISPRA, available to http://www.mareografico.it)