Supplementary information

Telomere DNA length regulation is influenced by seasonal temperatures differences in short-lived but not in long-lived reef-building corals

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This pdf contains Supplementary Figure 1-13 and Supplementary Tables 1-6.



Supplementary Figure 1: Controls of TL measurement in coral.

a) Bal31 Telomere restriction fragment assay. For each lane $5\mu g$ of DNA was digested by the exonuclease Bal31 for (t0, 5, 10, 15 and 30 minutes). The reactions were then digested by *Rsal* and *Hin*fl to perform the Southern blotting TRF analyses. Results show a decrease in the hTL smear with the increase of incubation time with Bal31 while the discrete band (Interstitial Telomeric Sequence) remains, showing that the smear signal is terminally located.

b) Boxplot of mean host TL measures (mean hTL) in 2 different localizations (apex or top of a branch/colony compared to base or edge of a branch/colony) of *Pocillopora* spp. and *Porites* spp. colonies. The colonies were sampled at the Clipperton island. The lower and upper bounds of the box represent the first (Q1) and the third (Q3) quartile, respectively. The entire box represents the interquartile range (IQ). The median is represented as a line across the box. Whiskers extending from Q1 and Q3 are defined as 1.5xIQ. The right box displays the colony part localized at the apex of a branch (*Pocillopora spp.*) or the top of the colony (*Porites spp.*). The right box displays the colony part localized at the apex of a branch (*Pocillopora spp.*) or the colony (*Porites spp.*). The right box displays the colony part localized at the base of a branch (*Pocillopora spp.*) or the edge of the colony (*Porites spp.*). Samples are colored by colony (6 colonies for *Pocillopora spp.* and 4 colonies *Porites spp.*) and displayed as dots. Apex and base groups were compared using the Wilcoxon nonparametric test (absence of normal distribution of data) (ns= not significant, pvalue=0.1797 and pvalue=0.4557 respectively). The scheme of the experimental design of branch sectioning is shown below the *Pocilopora* spp hTL results and a picture showing the apex and base sampling of a *Porites* spp colony is found below the *Porites* spp hTL results.

Source data are provided as a Source Data file.



Supplementary Figure 2: Correlation among TL parameters

Correlation matrix between TL (hTL and sTL: mean, median, Q1: 1st quartile, Q3: 3rd quartile, IQ: interquartile distance) in *Pocillopora* and *Porites* samples with the distribution plots in the left half and significant correlation coefficient s (r_s > 0.3, p<0.05) in the right half (n = 363 samples).



Supplementary Figure 3: Southern control quality

a-b) Examples of Telomere Restriction Fragment (TRF) Southern blotting of *Pocillopora spp.* samples (left) and *Porites spp.* samples (right) hybridized with the radioactive labelled complementary probe to the host telomeric repeat sequence (hTL). The lane names are referring to the sampling island of the samples for *Pocillopora spp.* (blot #150120, samples names are displayed from left to right, M011C06, M021C10, M044C10, M053C10, M063C06, M091C04, M081C01, M102C06, M111C10, M122C01, M131C06, M142C01, M152C10, M163C10, M171C06, M183C07, M193C10, M202C10, M213C01, M223C10, M231C01, M241C01, M252C05, M261C01, HepG2 (human cells), M313C01) and *Porites spp.* (blot #080419, samples names are displayed from left to right, L012C16, L022C13, L031C04, L043C16, L051C16, L061C11, L071C16, L081C11, L093C16, L102C12, L113C11, L123C19, L141C16, L153C11, L163C16, L171C12, L182C16, L191C11, L201C15, L213C11, L222C11, L231C11, L243C11, L263C12, L272C11, L251C13)

c) Correlation analyses between technical replicates of TRF duplicated results for samples loaded at least twice in separate gels. The samples are displayed as dots and colored by genus (*Pocillopora* spp. in purple and *Porites* spp. in green) for mean hTL results on the left and mean sTL on the right. A smoothed linear regression curved is plot as a white line with a grey confidence interval. The hTL (left) data were log transformed, not the sTL (right), to perform a Pearson's correlation test between the technical duplicates (r=0.7233599, pvalue<2.2e⁻¹⁶ and r=0.8953802, pvalue<2.2e⁻¹⁶, respectively), n indicates the number of samples.

Source data are provided as a Source Data file, including detailed information of all the blots used in the study to measure TL.



Supplementary Figure 4: Results of TL measurement

Boxplot of coral TLs analyzed in 32 islands of the Pacific Ocean. The various TL parameters analyzed by Southern blotting are shown (n = 444 samples (*Pocillopora* hTL, n = 363 samples (*Pocillopora* sTL), n = 409 samples (*Porites* hTL), n = 341 samples (*Porites* sTL) The boxplots are defined as follows: the lower and upper bounds of the box represent the first (Q1) and the third (Q3) quartile, respectively. The entire box represents the interquartile range (IQ). The median is represented as a line across the box. Whiskers extending from Q1 and Q3 are defined as 1.5xIQ.

Source data are provided as a Source Data file.



Supplementary Figure 5: TL and colony size

a-b) Log(TL) as a function of Colony diameter mean (scaled: centered and reduced) in *Pocillopora* (a) and *Porites* (b). The red dashed line is extracted from the linear model log(TL) ~ Colony diameter mean. The p-value is obtained using a F-test on the linear model. **c**) Boxplot of mean hTL differences between *Pocillopora* of 4 different size classes from Clipperton Island (Colony diameter: S1< 15 cm ,cm 20 <S2< 25 cm, cm 40 <S3< 50 cm, S4> 75 cm). **d**) Pictures of colonies of different sizes of *Pocillopora* spp. from Clipperton (a-h) and *Porites* spp. from Palau (i-p). Two colonies per size class are displayed ((a-b;i-j) =S4, (c-d;k-l)=S3, (e-f;m-n) =S2, (g-h;o-p) =S1). **e-f**) Boxplot of mean hTL differences between *Porites* samples of 4 different size classes from Palau and Clipperton (Colony diameter: S1< 15 cm, cm 20 <S2< 25 cm, cm 40 <S3< 50 cm, S4> 75 cm). For **c-e-f**) the lower and upper bounds of the box represent the first (Q1) and the third (Q3) quartile, respectively. The entire box represents the interquartile range (IQ). The median is represented as a line across the box. Whiskers extending from Q1 and Q3 are defined as 1.5xIQ. Each individual sample is displayed as a dot on top of the box. TL was not significantly different between size group (Kruskal-Wallis test : (**c**) p = 0.4286, (**e**) p= 0.7748, (**f**) p= 0.4448).

Source data are provided as a Source Data file.



Supplementary Figure 6: Species effect on TL variation

Box plot of mean hTL depending on genetic lineage for 11 islands across the Pacific Ocean. Individuals are colored by island. There are no significant differences neither for *Pocillopora* spp. (left) nor *Porites* spp. (right) (respectively 0.082 and <math>p=0.93). Genetic clusters are equivalent to species and n refers to the number of samples. **b**) Percentage of TL variation explained by the island of origin and host species for 11 islands across the Pacific Ocean. In this analysis, hTL/sTL mean, median, Q1, Q3 and IQ were used. n refers to the number of samples. **c-d**) Box plots of mean hTL and sTL depending on islands of origin for 11 islands for which the host species (genetic cluster) was determined. Individuals are colored by host species. Statistics in **a**, **c** and **d** are calculated using a pairwise wilcoxon test and are displayed as letters for **c** and **d**. Islands sharing at least one letter are not significantly different from each other. For all the boxplots, the lower and upper bounds of the box represent the first (Q1) and the third (Q3) quartile, respectively. The entire box represents the interquartile range (IQ). The median is represented as a line across the box. Whiskers extending from Q1 and Q3 are defined as 1.5xIQ. Each individual sample is displayed as a dot on top of the box.



Supplementary Figure 7: sPLS model between TL and environmental variables Sample plot generated using the *plotIndiv* function corresponding to the sPLS model representing the relationship between hTL and environmental variables. Samples are labelled according to their island of origin.



Supplementary Figure 8: Characterization of the expression of hTL-correlated genes

a) Venn diagram of the hTL-correlated genes for which more than 25% of the variation in their expression is explained by one of four predictor variables: the island of origin, the host species (shown as "species")), the Symbiodiniaceae composition and hTL.

b) Functional enrichment analysis of the genes with expression variations explained by hTL. p-value of the Fisher's exact test is given as a color gradient.

c) Expression by island of three genes correlated to hTL and involved in redox functions (n = 103 samples). Correlation values from Spearman correlation and adjusted p-value using Benjamini–Hochberg method are given. The boxplots are defined as follows: the lower and upper bounds of the box represent the first (Q1) and the third (Q3) quartile, respectively. The entire box represents the interquartile range (IQ). The median is represented as a line across the box. Whiskers extending from Q1 and Q3 are defined as 1.5xIQ. Source data are provided as a Source Data file.



Supplementary Figure 9: Reactome analysis of the expression of hTL-correlated genes

Significant pathways (adjusted p-value < 0.05, hypergeometric test, FDR adjustment) from Reactome analysis of the human homologs of the hTL-correlated genes for which at least 25% of their expression variance is explained by the island of origin (see **Fig. 4a**). Terms and pathways related to telomeres, DNA repair, DNA replication and cell cycle are represented by colored arrows.





DNA repair genes whose expression variance is explained by islands and correlated with hTL



Supplementary Figure 10: Correlation among hTL-correlated genes

Correlograms obtained with Spearman correlation of hTL and genes involved in cell cycle, DNA repair, and DNA replication from the variance partition attributable to island (**Figure 4a-c**). The genes shown here are significantly (r>0.3, p<0.05) correlated with hTL. When the genes are significantly correlated between each other (p<0.05) they are shown according to the color scale of the correlation coefficient. Blank cells indicate genes that are not significantly correlated (p>0.05). *p*-values were adjusted by the Benjamini–Hochberg method.



Supplementary Figure 11: Expression of hTL-correlated genes between islands Gene expression by island for the genes correlated with hTL in the different terms/pathways (Supplementary Fig. 9). The expression of each gene is normalized to the mean expression value of I01 (Las Perlas). The results for total, negatively correlated and positively correlated genes are shown separately. (n = 103 samples). The boxplots are defined as follows: the lower and upper bounds of the box represent the first (Q1) and the third (Q3) quartile, respectively. The entire box represents the interquartile range (IQ). The median is represented as a line across the box. Whiskers extending from Q1 and Q3 are defined as 1.5xIQ. Source data are provided as a Source Data file.



Supplementary Figure 12: Correlation between gene expression and environmental variables

Correlation matrix obtained with Spearman correlation between telomere gene expression and environmental variables in *Pocillopora* spp. ($r_s > 0.3$, p < 0.05) (related to **Figure 5**). *p*-values were adjusted by the Benjamini–Hochberg method.



Supplementary Figure 13: sPLS model of gene expression and environmental variables Sample plot generated using the *plotIndiv* function corresponding to the sPLS model representing the relationship between gene expression and environmental variables (related to **Fig. 5**). Samples are labelled according to their island of origin.

Pocillopora hTL															1	
r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik		AIC		BIC		deviance	df.residual	nobs	error.rate	frml
0,080219713	0,077538138	0,178735877	29,91514606	6 8,71482E-0	B 1		105, 5060231		-205,0120462		-193,4814129	10,95765426	343	345	0,03516845	log(hTL_Mean) ~ ColonyDiameterMean
0,081163371	0,075790057	0,178905151	15,10490115	5 5, 17308E-0	7 2		105,6830921		-203,3661841		-187,9920064	10,94641214	342	345	0,035201757	log(hTL_Mean) ~ poly(ColonyDiameterMean, 2)
0,072889158	0,070186211	0,179446717	26,96655017	7 3,55605E-0	7 1		104, 1366652	2	-202,2733304		-190,7426971	11,04498565	343	345	0,035308317	log(hTL_Mean) ~ log(ColonyDiameterMean)
0,069382148	0,066668976	0,960881406	25,57234057	6,95255E-0	7 1		-474,7639061		955, 5278122		967,0584455	316,6895254	343	345	0,189065063	hTL_Mean ~ ColonyDiameterMean
0,070154353	0,064716659	0,961885854	12,90149006	3,96513E-0	6 2		-474,6207101		957,2414203		972,615598	316,4267437	342	345	0,1892627	hTL_Mean ~ poly(ColonyDiameterMean, 2)
0,062693965	0,059961294	0,964328066	22,9423785	5 2,48827E-0	6 1		-475,999199	9	957,998398		969, 5290312	318,9655161	343	345	0,189743235	hTL_Mean ~ log(ColonyDiameterMean)
Pociliopora sTL																
r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik		AIC		BIC		deviance	df.residual	nobs	error.rate	frml
0,096339772	0,093180121	0,467604059	30,49063585	5 7,53464E-0	B 1		-188,732399)	383,4647979		394,4536794	62,53491703	286	288	0,049048977	log(sTL_Mean) ~ ColonyDiameterMean
0,096478113	0,090137609	0,468387842	15,21615727	5,26334E-0	7 2		-188,7103524	1	385,4207049		400,0725468	62,52534361	285	288	0,049131191	log(sTL_Mean) ~ poly(ColonyDiameterMean, 2)
0,079578651	0,076360395	0,471920703	24,72725601	1,14052E-0	6 1		-191,3788479	9	388,7576958		399,7465772	63,69481683	286	288	0,049501768	log(sTL Mean) ~ log(ColonyDiameterMean)
0,05144397	0,048127341	5,766561821	15,51091865	5 0,00010312	3 1		-912,2487062	2	1830,497412		1841,486294	9510,425278	286	288	0,604879172	sTL_Mean ~ ColonyDiameterMean
0.051449693	0.044793199	5,776652311	7,729248707	0,00053839	7 2		-912.2478374	1	1832,495675		1847, 147517	9510, 367899	285	288	0,605937606	sTL Mean ~ poly(ColonyDiameterMean, 2)
0,042026741	0,038677184	5,795116231	12,54695553	0,00046322	9 1		-913,6712829	9	1833, 342566		1844,331447	9604,844428	286	288	0,607874365	sTL_Mean ~ log(ColonyDiameterMean)
Porites hTL															1	
r.squared	adi.r.squared	sigma	statistic	p.value	df	logLik		AIC		BIC		deviance	df.residual	nobs	error.rate	frml
0,001333042	-0,001837329	0,273705377	0,420468828	0,51717560	B 1		-38,06249038	3	82,12498075		93,40168607	23, 59810949	315	317	0,046663208	log(hTL_Mean) ~ ColonyDiameterMean
0,000923327	-0,002248345	0,273761517	0,291116757	0,58988695	5 1		-38, 12750362	2	82,25500724		93,53171257	23,60779091	315	317	0,046672779	log(hTL_Mean) ~ log(ColonyDiameterMean)
0,00371468	-0,002631086	0,273813784	0,585379334	0,55750113	7 2		-37,6840454	1	83,3680908		98,4036979	23,54183231	314	317	0,04668169	log(hTL_Mean) ~ poly(ColonyDiameterMean, 2)
0,002642093	-0,000524123	2,588364947	0,834464046	0,36168351	9 1		-750,2757101		1506,55142		1517,828126	2110,384426	315	317	0,441282568	hTL_Mean ~ log(ColonyDiameterMean)
0,001304451	-0,001866011	2,590100104	0,411438735	5 0,52170660	1 1		-750,4881457	7	1506,976291		1518,252997	2113,214844	315	317	0,44157839	hTL_Mean ~ ColonyDiameterMean
0,001520221	-0,004839523	2,593940931	0,239038015	5 0,78752809	9 2		-750,4538978	3	1508,907796		1523,943403	2112,75828	314	317	0,442233201	hTL_Mean ~ poly(ColonyDiameterMean, 2)
Porites sTL								-							1	
r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik		AIC		BIC		deviance	df.residual	nobs	error.rate	frml
0,001835688	-0,001974099	0,52344258	0,48183476	0,48820743	4 1		-202,7013898	3	411,4027795		422, 1306268	71,78593933	262	264	0,045762928	log(sTL_Mean) ~ ColonyDiameterMean
0,00079866	-0,003015086	0,523714421	0,209416056	0,64760473	9 1		-202,8384581		411,6769161		422,4047635	71,8605203	262	264	0,045786694	log(sTL_Mean) ~ log(ColonyDiameterMean)
0,002722553	-0,00491942	0,52421135	0,356263066	0,70062838	6 2		-202,5840562	2	413, 1681124		427,4719088	71,72215784	261	264	0,045830139	log(sTL_Mean) ~ poly(ColonyDiameterMean, 2)
0,004252114	0,00045155	9,054554982	1,11881127	0,29114881	9 1		-955,2587029	9	1916,517406		1927,245253	21480,06107	262	264	0,791611085	sTL_Mean ~ ColonyDiameterMean
0,00155384	-0,002257023	9,066814683	0,407739688	0,52367675	9 1		-955,6159122	2	1917,231824		1927,959672	21538,26766	262	264	0,792682912	sTL_Mean ~ log(ColonyDiameterMean)
0.006598002	-0.001014274	9.061191739	0.866758103	0.42151818	6 2		-954.9473565	5	1917.894713		1932, 198509	21429.45609	261	264	0.792191316	sTL Mean ~ poly(ColonyDiameterMean, 2)

Supplementary Table 1 Regression model for the 32 islands

Regression models between TL and colony diameter mean for the 32 islands. r.squared: multiple R²; adj.r.squared: adjusted R²; sigma: Residual Standard Error (RSE); statistic: F-test value; p.value: p-value of the F-test; df: degree of freedom of the overall F-test; logLik: log-likelihood of the model; AIC: Akaike's Information Criterion; BIC: Bayesian Information Criterion; df.residual: Residual degrees of freedom; error.rate: RSE divided by the mean of TL; frml: formula of the model

Pocillopora			
Variable	R2_condition	R2_marginal	
hTL_Mean	0.385564468	0.001481365	75877723
hTL_Med	0.348170197	0.018068105	4639989
hTL_Q3	0.435161114	0.009440069	44738771
hTL_Q1	0.297177488	0.020140762	6550593
hTL_IQ	0.456166650	0.004453974	8181321
sTL_Mean	0.453202394	0.000307014	721826544
sTL_Med	0.380238778	1.072331519	1928e-07
sTL_Q3	0.268080119	0.003281387	54819394
sTL_Q1	0.381634366	0.000340510	802483626
sTL_IQ	0.259583308	0.003530450	40265365
Porites			
Variable	R2_condition	R2_marginal	
hTI Mean			
III L_IVICUII	0.158962699	0.007117282	02982334
hTL_Med	0.158962699 0.200836769	0.007117282 0.000403365	02982334 007582494
hTL_Med hTL_Q3	0.158962699 0.200836769 0.189367375	0.007117282 0.000403365 0.002667874	02982334 007582494 999667
hTL_Med hTL_Q3 hTL_Q1	0.158962699 0.200836769 0.189367375 0.152205307	0.007117282 0.000403365 0.002667874 0.001892524	02982334 007582494 999667 897665
hTL_Med hTL_Q3 hTL_Q1 hTL_IQ	0.158962699 0.200836769 0.189367375 0.152205307 0.184209367	0.007117282 0.000403365 0.002667874 0.001892524 0.002126701	02982334 007582494 999667 897665 09477538
hTL_Med hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean	0.158962699 0.200836769 0.189367375 0.152205307 0.184209367 0.234392958	0.007117282 0.000403365 0.002667874 0.001892524 0.002126701 0.001623852	02982334 007582494 999667 897665 09477538 06679871
hTL_Med hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean sTL_Med	0.158962699 0.200836769 0.189367375 0.152205307 0.184209367 0.234392958 0.240415948	0.007117282 0.000403365 0.002667874 0.001892524 0.002126701 0.001623852 0.001779277	02982334 007582494 999667 897665 09477538 06679871 89304019
hTL_Med hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean sTL_Med sTL_Q3	0.158962699 0.200836769 0.189367375 0.152205307 0.184209367 0.234392958 0.240415948 0.087560389	0.007117282 0.000403365 0.002667874 0.001892524 0.002126701 0.001623852 0.001779277 0.002028338	02982334 007582494 999667 897665 09477538 06679871 89304019 62581076
hTL_Med hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean sTL_Med sTL_Q3 sTL_Q1	0.158962699 0.200836769 0.189367375 0.152205307 0.184209367 0.234392958 0.240415948 0.087560389 0.217739106	0.007117282 0.000403365 0.002667874 0.001892524 0.002126701 0.001623852 0.001779277 0.002028338 0.007740355	02982334 007582494 999667 897665 09477538 06679871 89304019 62581076 38845887

Supplementary Table 2: R2 values of variance partition Marginal and conditional R2 related to the variance partition analysis in Fig. 2. The marginal R2 considers only the variance of the fixed effects, while the conditional R2 considers both the fixed and random effects (i.e., the total model).

Pocillopora hTL

	hereune r ihe	siama	statistic	n value	df	logi ik	AIC	BIC	devience	df residual	error rate	fmi
0,509922374	0,427945753	0,140663779	6,220339018	6,28624E-23	47	200,0697011	-304,1394021	-122,9609279	5,441232123	275	0,027371958	log(hTL_Mean) ~ island+ITS2+16S
0,509922458	0,425858062	0,140920219	6,065855261	1,58521E-22	48	200,0697286	-302,1394571	-117,1864314	5,441231193	274	0,027421859	log(hTL_Mean) ~ island+ITS2+16S+ColonyDiameterMean
0,485727921	0,410423795	0,142801788	6,45021658	1,69342E-22	42	192,3113262	-298,6226525	-136,316936	5,709858213	280	0,027787996	log(hTL_Mean) ~ island+ITS2
0,485746898	0,408332452	0,143054837	6,27462865	4,33351E-22	43	192,3172672	-296,6345345	-130,5542665	5,709647519	279	0,027837238	log(hTL_Mean) ~ island+ITS2+ColonyDiameterMean
0,427933007	0.369045564	0.147485121	7,532059015	0,37000E-22	31	175,1642397	-286,3284795	-1/1,31/3815	6,351543377	292	0.028599333	log(hTL_Mean) ∼ Island log(hTL_Mean) ∼ island+ColonyDiameterMean
0,441554137	0,375396788	0,146982551	6,674302097	4,59153E-21	35	179,044086	-286,088172	-150,2043164	6,200310744	287	0.028601537	log(hTL_Mean) ~ island+16S
0,441604344	0,373269211	0,14723267	6,462332427	1,18953E-20	36	179,0585613	-284,1171226	-144,4587155	6,199753307	286	0,028650208	log(hTL_Mean) ~ island+16S+ColonyDiameterMean
0,271786157	0,225971379	0,163622183	5,932281421	1,04597E-12	20	136,3087187	-230,6174373	-151,3518549	8,085210067	302	0,031839466	log(hTL_Mean) ~ ITS2+16S+ColonyDiameterMean
0,264580127	0,220891818	0,16415819	6,056085297	1,46739E-12	19	134,7233764	-229,4467528	-153,9557219	8,165217152	303	0,031943768	log(hTL_Mean) ~ ITS2+16S
0,224901736	0,189555235	0,167426957	6,362772305	3,21259E-11	15	126,2631125	-220,526225	-160,1334003	8,60575826	307	0,032579842	log(hTL_Mean) ~ ITS2+ColonyDiameterMean
0,209229748	0,175653061	0,100030305	0,200743104	2 77014E-05	14	101 0804105	-210,0005300	-159,4022050	10 00670913	308	0.034737967	log(hTL_Mean) ~ 1152
0.05452907	0.051574474	0 181119533	18 45567327	2,77014E-05	2	94 27348682	-182 5469736	-171 223319	10 49737128	320	0.035244299	log(hTL_Mean) ~ ColonyDiameterMean
0.063854986	0.046023653	0,181648776	3,581055003	0.001899304	7	95,86943923	-175,7388785	-145,5424661	10,39382753	315	0.035347285	log(hTL Mean) ~ 16S
0,465445932	0,376029615	0,789745787	5,205380271	1,34589E-18	47	-355,4893316	806,9786631	988,1571373	171,5170622	275	0,153677719	hTL Mean ~ island+ITS2+16S
0,465530181	0,373851051	0,791123266	5,077820688	3,05399E-18	48	-355,463955	808,9279099	993,8809357	171,49003	274	0,153945764	hTL_Mean ~ island+ITS2+16S+ColonyDiameterMean
0,440387896	0,358444696	0,800796892	5,374306735	3,55519E-18	42	-362,8649009	811,7298018	974,0355182	179,5571855	280	0,155828169	hTL_Mean ~ island+ITS2
0,440402659	0,3561622	0,802220146	5,227923259	8,32556E-18	43	-362,8606535	813,721307	979,801575	179,5524486	279	0,156105122	hTL_Mean ~ island+ITS2+ColonyDiameterMean
0,379134608	0,317473319	0,825971658	6,148664979	1,98892E-17	30	-379,5880396	821,1760792	938,1871772	199,2109207	292	0,160726961	hTL_Mean ~ island
0,379371376	0,315389043	0,827231858	5,929314573	4,78414E-17	31	-379,5266303	823,0532606	943,8389101	199,1349513	291	0,160972185	hTL_Mean ~ Island+ColonyDiameterMean
0.393151323	0.318886625	0.825116047	5 293919348	2 66944E-16	36	-375 9116312	825 8232624	965 4816696	194,7735163	286	0.160560466	hTL_Mean ~ island+16S+ColonyDiameterMean
0.248233096	0.200936503	0.893708678	5 248435009	6.05248E-11	20	410 3892731	862 7785462	942 0441287	241 2119905	302	0 173908001	hTL_Mean ~ ITS2+16S+ColonyDiameterMean
0.242718003	0,197730954	0.895499499	5,395286126	6.35372E-11	19	-411,5660858	863,1321715	938.6232024	242,9815637	303	0.174256479	hTL Mean ~ ITS2+16S
0,201532769	0,165120583	0,913518204	5,534761537	1,62447E-09	15	-420,0923601	872,1847202	932,5775449	256,1962613	307	0,177762764	hTL_Mean ~ ITS2+ColonyDiameterMean
0,188130192	0,15386296	0,91965658	5,490090096	5,7818E-09	14	-422,7723763	875,5447527	932,1630259	260,4966132	308	0,178957239	hTL_Mean ~ ITS2
0,090227021	0,069945458	0,964183151	4,448721252	9,79789E-05	6 8	-441,1030478	900,2060955	934,1770594	291,9098326	314	0,187621725	hTL_Mean ~ 16S+ColonyDiameterMean
0,047421889	0,044445082	0,977311828	15,93045669	8,15316E-05	2	-448,5053473	903,0106947	914,3343493	305,644291	320	0,190176453	hTL_Mean ~ ColonyDiameterMean
0,062240631	0,044378547	0,977345852	3,484511289	0,002379025	7	-445,9810718	907,9621435	938,1585559	300,8895482	315	0,190183074	hTL_Mean ~ 16S
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	pora a											
r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik	AIC	BIC	deviance	df.residual	error.rate	fml
0,612088335	0,545147826	0,315276128	9,143765818	6,70035E-29	40	-48,71828634	179,4365727	326,3599213	22,4641823	9 22	6 0,03166530	1 log(sTL_Mean) ~ island+ITS2
0,613431961	0.544708754	0,315428261	8,926125361	1,44465E-28	41	-48,25680892	180,5136178	331,0204628	22,3863722	5 22	0,03168064	1 log(s1L_Mean) ~ island+ITS2+ColonyDiameterMean
0,573388916	0.524991861	0,322185861	11,84759916	9,94728E-31	28	-61,36593993	180,7318799	284,6532728	24,7052874	4 23	0.02235935	3 log(sit_Mean) ~ island
0.61012600	0.54535420	0.315204566	8 392350094	1,96866E-30 8 84147E 39	29	-00,07370992	182 5656779	200,8523091	29,5770369	23	0.0323432	3 log(sTL_Mean) ~ island+US2+16S
0,620596386	0,545059015	0,315306906	8,215753039	1.77351F-27	45	-45,76873678	183.5374736	348.3783038	21.9714763	15 22	0,0316684	2 log(sTL_Mean) ~ island+ITS2+16S+ColonyDiameterMean
0,575826812	0,519632928	0,323998177	10,24714384	7.11035E-29	32	-60,60372335	187.2074467	305.4628249	24.5641075	6 23	0,0325413	6 log(sTL_Mean) ~ island+16S
0,578333369	0,520422072	0,323731936	9,986538003	1,23253E-28	33	-59,81545814	187,6309163	309,4697908	24,4189514	4 233	0,03251463	6 log(sTL_Mean) ~ island+16S+ColonyDiameterMean
0,384533019	0,339681174	0,379868071	8,573404756	8,7956E-18	19	-110,1115719	260,2231438	331,89307	35,6420385	1 24	0,0381527	6 log(sTL_Mean) ~ ITS2+16S
0,386772127	0,339408998	0,379946351	8,166101773	1,76537E-17	20	-109,6268272	261,2536545	336,5070769	35,5123705	2 24	0,03816063	8 log(sTL_Mean) ~ ITS2+16S+ColonyDiameterMean
0,329333631	0,291925945	0,393364616	8,803902805	1,51933E-15	15	-121,5350085	275,070017	332,405958	38,8386660	8 25	0,03950832	7 log(s1L_Mean) ~ ITS2+ColonyDiameterMean
0,322356799	0,287399015	0,394620062	9,221316687	1,57084E-15	14	-122,9114387	275,8228773	329,575322	39,2426983	5 25	0,03963442	1 log(s1L_Mean) ~ ITS2
0,151656079	0.128638996	0,436370126	6,008848749	3,58565E-07	8	-152,7919133	323,5838266	355,8352934	49,1280728	25	0.044302766	o log(stic_Mean) ~ 165+ColonyDiameterMean
0.064117796	0.060572779	0.453093176	18.08677979	2,47900E-06 2 9323E-06	2	-165 8529799	320,3979174	348 4564/97	54 1974646	1 25	0.0443068	8 log(sTL_Mean) ~ ColonyDiameterMean
0,553309808	0,50263487	4,195411127	10,91880588	1.52826F-28	28	-744.0863366	1546.172673	1650.094066	4189.15093	6 23	0,4213741	9 sTL Mean ~ island
0,553419868	0,500659346	4,203734913	10,48927964	4,98811E-28	29	-744,0535626	1548,107125	1655,612015	4188,11877	1 23	0,42221015	4 sTL_Mean ~ island+ColonyDiameterMean
0,555366695	0,496462283	4,221364585	9,428269873	1,05063E-26	32	-743,4724934	1552,944987	1671,200365	4169,86103	6 234	0,42398082	4 sTL_Mean ~ island+16S
0,555510661	0,494464915	4,229728678	9,099907799	3,16032E-26	33	-743,4294228	1554,858846	6 1676,69772	4168,51089	2 233	0,42482088	8 sTL_Mean ~ island+16S+ColonyDiameterMean
0,575986306	0,502815801	4,194647957	7,871837265	5,1613E-25	6 40	-737,1571005	1556,314201	1703,23755	3976,48615	6 226	0,42129748	9 sTL_Mean ~ island+ITS2
0,576010489	0,500634576	4,203839179	7,641837624	1,45698E-24	41	-737,1495149	1558,29903	1708,805875	3976,25936	4 22	5 0,42222062	6 sTL_Mean ~ island+ITS2+ColonyDiameterMean
0,579993306	0,498640658	4,212223578	6 036844505	1,22955E-23	44	-735,8942519	1561,766504	1723,040636	3938,90765	9 22	0,423062	3 STL_Mean ~ Island+ITS2+16S+ColonyDiameterMean
0.265105274	0.211550193	5 282309997	4 950142321	1.58649E-09	19	-810 3019809	1660,603963	1732 273888	6891 99132	9 24	0.53053890	5 sTL_Mean ~ ITS2+16S
0.268928958	0.212464121	5.279247625	4,762768727	2.15102E-09	20	-809,6081706	1661,216341	1736,469764	6856,1320	5 24	0.5302313	3 sTL Mean ~ ITS2+16S+ColonyDiameterMean
0,216584258	0,172887763	5,41027178	4,956559005	3,93141E-08	15	-818,805503	1669,611006	1726,946947	7347,03122	5 25	0,54339099	2 sTL_Mean ~ ITS2+ColonyDiameterMean
0,209439288	0,168656394	5,424093152	5,135469015	4,30314E-08	14	-820,0130021	1670,026004	1723,778449	7414,03820	3 253	0,54477916	8 sTL_Mean ~ ITS2
0,108100607	0,083901786	5,693874325	4,467184901	0,000103405	6 8	-836,0542495	1690,108499	1722,359966	8 8364,41284	6 25	0,57187518	6 sTL_Mean ~ 16S+ColonyDiameterMean
0,09418339	0,073199221	5,727037859	4,488306942	0,00024096	7	-838,1135591	1692,227118	1720,895089	8494,93132	2 259	0,57520599	9 sTL_Mean ~ 16S
0,033861799	0,030202185	5,858378936	9,252632531	0,002588137	2	-846,6880/1/	1699,376143	1/10,120032	9060,63935	204	0,58839745	sit_mean ~ ColonyDiameterMean
Poritos	hTI											
i ontoo	,,,,,											
r.squared	adj.r.squared	sigma	statistic p	value	df I	ogLik /	AIC	BIC	deviance	df.residual	error.rate	fml
0,353125319	0,288437851	0,230873973	5,458944819	1,24687E-14	29	29,73216286	0,535674273	112,5359126	14,92478161	280	0,039520909	log(hTL_Mean) ~ Island
0.353125534	A A A A A A A A A A A A A A A A A A A	0.004003043	E 05400004	0.000055.44	0.0	00 30004443		1 1 9 2004 1 6 1 2	14 M2477666	2/9		
0.201002040	0,285887686	0,231287317	5,251886334	2,96665E-14	30	29,73221417	2,535571666	140 4575142	14,72372424	272	0.030351000	log(hTL_Mean) - island+160
0,361882648	0,285887686 0,280072731 0,277669182	0,231287317 0,232227084 0,232614418	5,251886334 4,423456978 4,288817336	2,96665E-14 8,41321E-13 1,73619E-12	30 36 37	29,73221417 31,83805651 31,89007517	10,32388698	148,4575142	14,72273131	273	0,039752534	log(hTL_Mean) ~ island+16S log(hTL_Mean) ~ island+16S
0,361882648 0,36209746 0,382966769	0,285887686 0,280072731 0,277669182 0,28554047	0,231287317 0,232227084 0,232614418 0,231343539	5,251886334 4,423456978 4,288817336 3,930835629	2,96665E-14 8,41321E-13 1,73619E-12 4,31768E-12	30 36 37 43	29,73221417 31,83805651 31,89007517 37,02915194	10,32388698 12,21984967 13,94169611	148,4575142 154,0868182 178,2087123	14,72273131 14,71777515 14,23627556	273 272 266	0,039752534 0,039818838 0.039601289	log(hTL_Mean) ~ island+16S log(hTL_Mean) ~ island+16S log(hTL_Mean) ~ island+16S+ColonyDiameterMean log(hTL_Mean) ~ island+1TS2
0,361882648 0,36209746 0,382966769 0,38333612	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679	0,231287317 0,232227084 0,232614418 0,231343539 0,231710244	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104	2,96665E-14 8,41321E-13 1,73619E-12 4,31768E-12 8,18947E-12	30 36 37 43 44	29,73221417 31,83805651 31,89007517 37,02915194 37,12166187	10,32388698 12,21984967 13,94169611 15,75667626	148,4575142 154,0868182 178,2087123 183,7570337	14,72273131 14,71777515 14,23627556 14,22775386	273 272 266 265	0,039752534 0,039818838 0,039601289 0,039664062	log(hTL_Mean) - island-t05kin/painterinvean log(hTL_Mean) - island+165 log(hTL_Mean) - island+165+ColonyDiameterMean log(hTL_Mean) - island+1TS2+ColonyDiameterMean
0,361882648 0,36209746 0,382966769 0,38333612 0,394080065	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679 0,279446564	0,231287317 0,232227084 0,232614418 0,231343539 0,231710244 0,232328054	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906	2,96665E-14 8,41321E-13 1,73619E-12 4,31768E-12 8,18947E-12 8,04573E-11	30 36 37 43 44 50	29,73221417 31,83805651 31,89007517 37,02915194 37,12166187 39,83719307	2,535571668 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385	148,4575142 154,0868182 178,2087123 183,7570337 212,726019	14,72273131 14,71777515 14,23627556 14,22775386 13,97986808	273 272 266 265 259	0,039752534 0,039818838 0,039601289 0,039664062 0,039769818	bg(nTL_Mean) island+165+ColonyDiameterMean log(nTL_Mean) island+165+ColonyDiameterMean log(nTL_Mean) island+1TS2+ColonyDiameterMean log(nTL_Mean) island+1TS2+ColonyDiameterMean log(nTL_Mean) island+1TS2+16S
0,361882648 0,36209746 0,382966769 0,38333612 0,394080065 0,395625667	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679 0,279446564 0,278498858	0,231287317 0,232227084 0,232614418 0,231343539 0,231710244 0,232328054 0,232480788	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022	2,96665E-14 8,41321E-13 1,73619E-12 4,31768E-12 8,18947E-12 8,04573E-11 1,19412E-10	30 36 37 43 44 50 51	29,73221417 31,83805651 31,89007517 37,02915194 37,12166187 39,83719307 40,23180058	2,535371668 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385 23,53639883	148,4575142 154,0868182 178,2087123 183,7570337 212,726019 217,6701452	14,72273131 14,71777515 14,23627556 14,22775386 13,97986808 13,94420775	273 272 266 265 259 258	0,039752534 0,039818838 0,039601289 0,039664062 0,039769818 0,039795963	Dagittkeen) - island+165 logittkeen) - island+165+ColonyDiameterMean logittkeen) - island+165+ColonyDiameterMean logittkeen) - island+1152+ColonyDiameterMean logittkeen) - island+1152+165+ColonyDiameterMean
0,361882648 0,36209746 0,382966769 0,38333612 0,394080065 0,395625667 0,064168139	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679 0,279446564 0,278498858 0,042404608	0,231287317 0,232227084 0,232614418 0,231343539 0,231710244 0,232328054 0,232480788 0,267830222	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022 2,948424938	2,96665E-14 8,41321E-13 1,73619E-12 4,31768E-12 8,18947E-12 8,04573E-11 1,19412E-10 0,005302565	30 36 37 43 44 50 51 8	29,73221417 31,83806651 31,89007517 37,02915194 37,12166187 39,83719307 40,23180058 -27,32209783	2,535371668 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385 23,53639883 72,64419566	148,4575142 154,0868182 178,2087123 183,7570337 212,726019 217,6701452 106,2442672	14,72273131 14,7177515 14,23627556 14,22775386 13,97986808 13,94420775 21,5916414	273 272 266 265 259 258 301	0,039357663 0,039752534 0,039818838 0,039601289 0,039664062 0,039769818 0,039795963 0,045847064	logint_Mean saint+163-colonyDameterMean logint_Mean saint+163-colonyDameterMean logint_Mean saint+1153-colonyDameterMean logint_Mean saint+1152-colonyDiameterMean logint_Mean saint+1152+colonyDiameterMean logint_Mean -165-colonyDiameterMean logint_Mean -165
0,361882648 0,36209746 0,382966769 0,3833612 0,394080065 0,395625667 0,064168139 0,064470906	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679 0,279446564 0,278498858 0,042404608 0,039523463	0,231287317 0,232227084 0,232614418 0,231343539 0,231710244 0,232328054 0,232480788 0,267830222 0,268232834	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022 2,948424938 2,584269148	2,96665E-14 8,41321E-13 1,73619E-12 4,31768E-12 8,18947E-12 8,04573E-11 1,19412E-10 0,005302565 0,009836457	30 36 37 43 44 50 51 8 9	29,73221417 31,83805651 31,83807517 37,02915194 37,12166187 39,83719307 40,23180058 -27,32209783 -27,27210488 27,272210488	2,535371666 10,32386698 12,21984967 13,94169611 15,75667626 22,32561385 23,53639883 72,64419566 74,54420975	148,4575142 154,0868182 178,2087123 183,7570337 212,726019 217,6701452 106,2442672 111,8776225	14,72273131 14,71777515 14,23627556 14,2277586 13,9786686 13,9786686 13,94420775 21,5916414 21,58465593	273 272 266 265 259 258 301 300	0,03957505 0,03961283 0,039601285 0,039664062 0,039769818 0,039769818 0,039795963 0,045815986	Jag)TL, Maan) - alland +158 Jag)TL, Maan) - laiand +158 -ColonyDameterMean Jog)TL, Maan) - laiand +152 Jog)TL, Maan) - baind +1522 - LoonyDiameterMean Jog)TL, Maan) - baind +1524 +158 Jog)TL, Maan) - 168 - colonyDiameterMean Jog)TL, Maan) - 168 - colonyDiameterMean
0,361882648 0,36209746 0,382966769 0,38333612 0,394080065 0,395625667 0,064168139 0,064470906 0,000630731	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679 0,279446564 0,278498858 0,042404608 0,039523463 -0,00262454	0,231287317 0,232227084 0,232614418 0,231343539 0,231710244 0,232328054 0,232480788 0,267830222 0,268232834 0,274054996	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022 2,948424938 2,584269148 0,193756495 4,75872402	2,96665E-14 8,41321E-13 1,73619E-12 4,317661E-12 8,18947E-12 8,04573E-11 1,19412E-10 0,005302565 0,009336457 0,660118082 0,02564141	30 36 37 43 44 50 51 8 9 2 22	29,73221417 31,8300561 31,89007517 37,02915194 37,12166187 39,83719307 40,23180058 -27,32209783 -27,27210488 -37,47097498	2,5357/68698 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385 23,53639883 72,64419566 74,54420975 80,94194996 92,7200557	148,4575142 154,0868182 178,2087123 183,7570337 212,726019 217,6701452 106,2442672 111,8776225 92,14197379	14,72273131 14,71777515 14,23627556 14,2277536 13,97986808 13,94420775 21,5916414 21,58465593 23,05758524	273 272 266 265 259 258 301 300 307	0,03953100 0,03975253 0,039601285 0,039664062 0,039769818 0,039769818 0,039795963 0,04584706 0,045915963 0,0469129618	Logi TL, Mean J. Jamin - Bio Journet enterine Logi TL, Mean J. Jamin - Bio Acclony Olametenkean Logi TL, Mean J. Jamin - His Colony Olametenkean Logi TL, Mean J. Jamin - His Colony Olametenkean Logi TL, Mean J. Jamin - His Colony Olametenkean Logi TL, Mean J. Jamin - His Colony Olametenkean Logi TL, Mean J. Jamin - His Colony Olametenkean Logi TL, Mean J. Jamin - His Colony Olametenkean Logi TL, Mean J. Jamin - Sci Colony Olametenkean Logi TL, Mean J. Jourg Colony Clametenkean Logi TL, Mean J. Jourg Clametenkean
0,361882648 0,36209746 0,382966769 0,38333612 0,394080065 0,395625667 0,064168139 0,064470906 0,000630731 0,114017657 0,116188516	0,285887686 0,280072731 0,277669182 0,28554047 0,283273679 0,279446564 0,278498858 0,042404608 0,039523463 -0,00262454 0,049189681 0,048203017	0.231267317 0.232227084 0.232614418 0.231343539 0.231710244 0.232328054 0.232328054 0.232480788 0.267830222 0.268232834 0.274054996 0.266879676	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022 2,948424938 2,584269148 0,193756495 1,758772427 1,709019101	2,96665E-14 8,41321E-13 1,73619E-12 4,31786E-12 8,18947E-12 8,04573E-11 1,19472E-10 0,005302565 0,009836457 0,660118082 0,022564141 0,0225655971	30 36 37 43 44 50 51 8 9 2 22 22 23	29,73221417 31,83805651 31,89007517 37,02915194 37,12166187 39,83719307 40,23180058 -27,32209783 -27,32210488 -37,47097498 -18,86495278	2,93537168898 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385 23,53639883 72,64419566 74,54420975 80,94194996 83,7299055 84,97185603	148,4575142 154,0868182 178,2087123 183,757037 212,726019 217,6701452 106,2442672 111,8776225 92,14197379 169,5967549 174,5720467	14,72273131 14,7177515 14,23627556 13,97986808 13,94220775 21,5916414 21,58465593 23,05758524 20,44150647 20,34142012	273 272 266 265 259 258 301 300 307 287 287	0,03975253 0,039875253 0,03960128 0,03966406 0,039769818 0,03979596 0,04584706 0,04591598 0,046912618 0,045912618 0,04568433	Jag)TL, Maan) - alland +158 Jag)TL, Maan) - laiand +158 - Colony OlameterMean Jog)TL, Maan) - aliand +152 Jog)TL, Maan) - aliand +152 Jog)TL, Maan) - aliand +152 Jog)TL, Maan) - aliand +152 HSS-colony OlameterMean Jog)TL, Maan) - 168 Jog)TL, Maan) - 158 Jog)TL, Maan) - 158 Jog)TL, Maan) - 1782+168+Colony GlameterMean HSMTL Maan) - 1782+158+Colony GlameterMean
0,361882648 0,36209746 0,382966769 0,3833612 0,394080065 0,395625667 0,064168139 0,064470906 0,000630731 0,114017657 0,116188516 0,057934801	0.285887686 0.280072731 0.277669182 0.28554047 0.283273679 0.278448564 0.042404608 0.039523463 -0.00262454 0.048189681 0.048203017 0.013074554	0.231287317 0.232227084 0.232614418 0.231343539 0.231710244 0.23228054 0.232480788 0.267830222 0.268232834 0.274054996 0.266879676 0.267018111 0.271900954	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022 2,948424938 2,584269148 0,193756495 1,758772427 1,709019101 1,291450772	2,96665E-14 8,41321E-13 1,73619E-12 4,31788E-12 8,1947E-12 8,04573E-11 1,19412E-10 0,005302565 0,009636457 0,660118082 0,022584141 0,026565971 0,211333297	30 36 37 43 44 50 51 8 9 2 22 23 23 15	29,73221417 31,83805651 31,89007517 37,02915194 37,12166187 40,23180058 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -28,3477096	2,93537168898 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385 23,5363983 72,64419566 74,54420975 80,94194996 83,72990557 84,97185603 88,69554191	118,4575142 154,068182 178,2087123 183,7570337 212,726019 217,6701452 106,2442672 111,8776225 92,14197379 169,5967549 174,5720467 148,4290023	14,72273131 14,7177515 14,23627556 13,97986802 13,94420775 21,5916414 21,58465593 23,05768524 20,44150647 20,39142012 21,73545784	273 272 266 265 259 258 301 300 307 287 286 294	0.03975253 0.039675253 0.03961285 0.03966406 0.03969406 0.03976986 0.04594706 0.04591598 0.046912611 0.04568436	bag) TL, Maan) - siland +156 Liap/TL, Maan) - siland +152 Liap/TL, Maan) - siland +152 Liap/TL, Maan) - siland +152 Liap/TL, Maan) - siland +152 Liap/TL, Maan) - siland +152+168 Liap/TL, Maan) - siland +152+168 Liap/TL, Maan) - 165 Liap/TL, Maan) - 165 Liap/TL, Maan) - 165 Liap/TL, Maan) - 152 Liap/TL, Maan) - 1782+169 Liap/TL, Maa
0,361882648 0,36209746 0,382366769 0,3833612 0,394080065 0,395625667 0,064470906 0,0064470906 0,000630731 0,114017657 0,116188516 0,057934801 0,0624623	0.285887686 0.280072731 0.277669182 0.28554047 0.28554047 0.278498564 0.278498858 0.042404608 0.039523463 0.00262454 0.049189681 0.049189681 0.0494189641 0.013074554	0.231287317 0.23227084 0.232614418 0.231343539 0.23171024 0.23228054 0.23228054 0.23228054 0.232480788 0.266832834 0.266839676 0.2668796718111 0.2717090953	5,251886334 4,423456978 4,288817336 3,930835629 3,830969104 3,43773906 3,377755022 2,948424938 2,584269148 0,193756495 1,758772427 1,709019101 1,291450772	2,96065E-14 8,41321E-13 1,73619E-12 4,31768E-12 8,04673E-11 1,19412E-10 0,005302565 0,00958457 0,660118082 0,022584141 0,02556971 0,211333297 0,9888721	30 36 37 43 44 50 51 8 9 2 22 23 15 16	29,73221417 31,8306651 31,89007517 37,02915194 37,12166187 39,83719307 40,23180058 -27,32209783 -27,27210488 -37,47097498 -18,8495278 -18,48592801 -28,3477709 -28,3477709	2,93537168698 10,32388698 12,21984967 13,94169611 15,75667626 22,32561385 23,53639883 72,64419566 74,54420975 80,94194996 83,72990557 84,97185603 88,69554191 89,20692978	148,4575142 154,0688182 178,2087123 183,7570337 212,726019 217,6701452 106,2442672 111,8776225 92,14197379 169,5967549 174,5720467 148,4290023 152,6737315	14,72273131 14,7177515 14,23627556 14,2277536 13,97968080 13,94420775 21,5916414 21,5916414 20,44150647 20,39142012 21,73545784 21,63099876	273 272 266 265 259 258 301 300 307 287 286 294 293	0.03975253 0.03975253 0.039601288 0.039664065 0.039769811 0.039795961 0.04584706 0.04584706 0.04591588 0.045912611 0.04568438 0.04654388 0.04654385	Jag)TL, Maan) - alland +158 (ConryQiameterMean Jog)TL, Maan) - alland +158 (CotoryQiameterMean Jog)TL, Maan) - alland +152 (CotoryQiameterMean Jog)TL, Maan) - alland +152 +158 Jog)TL, Maan) - alland +152 +158 +CotoryQiameterMean Jog)TL, Maan) - 168 +CotoryQiameterMean Jog)TL, Maan) - 168 +CotoryQiameterMean Jog)TL, Maan) - CotoryQiameterMean Jog)TL, Maan) - 1782 + CotoryQiameterMean Jog)TL, Maan) - 1782 + CotoryQiameterMean Jog)TL, Maan) - 1782 + CotoryQiameterMean
0,361882648 0,36209746 0,382966769 0,38333612 0,394080065 0,064168139 0,064470906 0,00630731 0,114017657 0,116188516 0,057934801 0,0624623 0,243995634	0.285887686 0.280072731 0.277669182 0.28554047 0.279446564 0.279446564 0.042404608 0.042404608 0.042404608 0.0498498681 0.048203017 0.013074554 0.01446549 0.1446549	0.231287317 0.232227084 0.232214418 0.231143539 0.231710244 0.23228054 0.232240788 0.267830222 0.268232834 0.274054996 0.266798767 0.266718111 0.271790283 2.378963139	5.251886334 4,423456978 4,288817336 3,830985629 3,830989104 3,43773900 3,377755022 2,948424938 4,584269148 0,193756495 1,758772427 1,709019101 1,291450772 1,301384392 3,227436829	2,96065E-14 8,41321E-13 1,73619E-12 8,16947E-12 8,04778E-11 8,0478E-12 8,04778E-11 1,19412E-10 0,00502565 0,009830457 0,660118082 0,022554141 0,025565971 0,21133297 0,199898721 3,54171E-07	30 36 37 43 44 50 51 8 9 2 22 22 23 15 16 29	29,73221417 31,83805651 31,89007517 37,02915194 37,12166187 39,83719307 40,23180058 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,32209783 -27,60346489 -27,60346489 -69,0251769	2,3537168698 10,32388698 12,21984967 13,94169611 15,75667626 22,3256139883 72,64419566 80,94194996 83,729055 84,97185603 88,69554191 89,2069278 14420,50354	110,20315142 1148,4575142 1154,0686182 1178,2087123 183,7570337 212,726019 217,6701452 106,2442672 1111,8776225 92,14197379 169,5607547 1148,4290023 1148,4290023 1148,4290023 11554,050592	14,72273131 14,71777515 14,22627555 14,22775386 13,97986808 13,94420775 21,5916414 21,58465593 23,05758524 20,4415004 20,39142012 21,73545784 21,6309876 11584,650373	273 272 266 265 259 258 301 300 307 287 286 294 293 280	0,03975253 0,03961283 0,03961283 0,03966406 0,03976981 0,04584706 0,04591598 0,04591598 0,04591261 0,0456843 0,04570804 0,0465430 0,0465180 0,0465180	bight TL, Maan) - siland +152 bight TL, Maan) - siland +152+165 bight TL, Maan) - 165 bight TL, Maan) - 165 bight TL, Maan) - 165 bight TL, Maan) - 165 bight TL, Maan) - 152+165 bight TL, Maan) - 1152+165 bight TL, Maan) - 1152+165 bight TL, Maan) - 1152+ bight TL, Maan) - 1152- bight TL, Maan - 1152- bight TL, bight
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Jog) TL, Maan) = siland +158 (2-lostny)Dameter/Mean Jog) TL, Maan) = siland +158 - Colony)Dameter/Mean Jog) TL, Maan) = siland +152 - Lostny Dameter/Mean Jog) TL, Maan) = siland +152 + 158 - Lostny Diameter/Mean Jog) TL, Maan) = 458 - Colony Diameter/Mean Jog) TL, Maan) = 158 - Colony Diameter/Mean Jog) TL, Maan) = 1582 + (58 - Colony Diameter/Mean Jog) TL, Maan) = 1582 + (58 - Colony Diameter/Mean Jog) TL, Maan) = 1782 + (58 - Colony Diameter/Mean Jog) TL, Maan) = 1782 + (58 - Colony Diameter/Mean Jog) TL, Maan) = 1782 - Colony Diameter/Mean TL, Mean = siand +158 - Colony Diameter/Mean TL, Maan = siand +158 - Colony Diameter/Mean TL, Maan = siand +1782 - Colony Diameter/Mean TL, Maan = siand +1782 + (58 - Colony Diameter/Mean TL, Maan = siand +1782 + (58 - Colony Diameter/Mean TL, Maan = siand +1782 + (58 - Colony Diameter/Mean TL, Maan = siand +1782 + (58 - Colony Diameter/Mean TL, Maan = 168 - Colony Diameter/Mean TL, Maan = 168 - Colony Diameter/Mean TL, Maan = 158 - Colony Diameter/Mean
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0.36188248 0.38208749 0.38208749 0.3833342 0.395625697 0.05447096 0.06447096 0.0000517 0.11818856 0.05734401 0.052452734401 0.052452734401 0.05245273401 0.05245273401 0.05268535 0.245955740 0.050087147 0.05008	0.285887686 0.28507731 0.277669182 0.27546564 0.28554047 0.285273679 0.285273679 0.278445564 0.039522463 0.039522463 0.042404600 0.0446203017 0.014865488 0.0144655481 0.158262103 0.158262103 0.158262103 0.158262103 0.141857443 0.025472707 0.01207455 0.014657345 0.014657345 0.014657345 0.014657345 0.014657345 0.014657345 0.014657345 0.014657345 0.014657345 0.025472707 0.0025475707 0.0025475707 0.01167575 0.01167575 0.01167575 0.01167575 0.01167575 0.01167575 0.01167575 0.01167575 0.01167575 0.01167575 0.002547570 0.0116757575 0.0116757575 0.0116757575 0.0116757575 0.01167575757575757575757575757575757575757	0.231287317 0.23222708 0.23222708 0.23214418 0.232344418 0.23232005 0.23174024 0.23232005 0.23232005 0.23232005 0.23232005 0.23232005 0.23232005 0.2469205 0.26687067 0.267018111 0.27190028 0.2719000000000000000000000000000000000000	5.25168034 4.234697136 3.830035024 3.830035024 3.830035024 3.830035024 2.948424938 3.93775906 3.937	2,96605E-14 8,41321E-13 1,73818E-12 4,37708E-12 8,04673E-11 1,19412E-10 0,00530285 0,006534457 0,660116002 0,022384141 0,211333277 0,969808721 3,54071E07 5,70051E07 4,57508E-00 6,28006E-06 6,28006E-06 6,28006E-06 1,40321845 0,00228405 0,00228415 0,00228415 0,00228415 0,00228415 0,00228415 0,00028415 0,0000861 0,0000861 0,0000861 0,0000861 0,0000861 0,0000861 0,0000861 0,0000861 0,0000861 0,0000861 0,000086	30 36 37 43 44 50 51 8 9 2 22 23 15 16 29 30 30 37 43 44 50 51 16 29 30 30 37 43 44 50 51 15 16 29 22 23 15 16 29 20 22 23 15 16 29 20 20 20 20 20 20 20 20 20 20	22 72221417 31,880055 31,880055 31,880055 31,880055 31,880055 40,2310005 40,2310005 40,2310005 40,2310005 40,2310005 40,231005 40,2310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,42310075 40,4231075	20337/1896 20337/1896 212.2194467 22.32561365 22.32561365 22.32561365 22.32561365 22.32561365 22.32561365 22.32561365 22.32561365 22.3551265 22.355525 22.3551265555555555555555555555555555555555	148,4575412, 154,0686182, 178,0687182, 178,0267123, 217,272019, 217,6701452, 108,2442672, 104,0470279, 104,0470279, 104,0470279, 104,0470279, 104,0470279, 104,0470279, 104,0470279, 105	14, 22273131 4, 27273131 4, 2727313 13, 2726600 13, 27276600 13, 27276600 21, 3746600 21, 3746600 21, 374676 20, 374677 21, 3591641 21, 3794677 21, 3591641 21, 3794677 21, 359167 21, 3591	273 272 2266 2259 2259 2259 2300 2300 2300 273 272 286 266 265 259 279 272 266 265 265 259 273 272 273 272 266 300 300 307 259 258 301 300 307 228 259 228 301 279 228 301 279 228 301 279 228 301 279 228 301 279 228 301 279 228 301 279 229 301 279 229 229 229 229 229 229 229 229 229	0.03972253 0.039874253 0.039861282 0.039861282 0.039861282 0.039876811 0.039876811 0.039876811 0.045813847060 0.04581281 0.04581281 0.04581281 0.045870804 0.045847080 0.045847080 0.045847080 0.045847080 0.045847080 0.045847080 0.04585100 0.045847080 0.04585100 0.045847080 0.04585100 0.045855100 0.04585100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.045855100 0.0458551000 0.0458551000000000000000000000000000000000	Jog) TL, Maan) = siland +155 (2) Jointenieta Jog) TL, Maan) = siland +155 (2) Colony Qiameterkean Jog) TL, Maan) = siland +152 (2) Colony Qiameterkean Jog) TL, Maan) = siland +152 +165 Jog) TL, Maan) = siland +152 +165 + Colony Qiameterkean Jog) TL, Maan) = (55) Colony Qiameterkean Jog) TL, Maan) = (55) Colony Qiameterkean Jog) TL, Maan) = (152 + (55) Colony Qiameterkean Jog) TL, Maan) = (152 + (55) Colony Qiameterkean Jog) TL, Maan) = (152 + (55) Colony Qiameterkean Jog) TL, Maan) = (152 + (55) Colony Qiameterkean Jog) TL, Maan) = (152 + (55) Colony Qiameterkean TL, Maan = isiand + (152) John = isiand + (152) TL, Maan = isiand + (152) + (156) + Colony Qiameterkean TL, Maan = isiand + (152) + (156) + Colony Qiameterkean TL, Maan = isiand + (152) + (156) + Colony Qiameterkean TL, Maan = isiand + (152) + (156) + Colony Qiameterkean TL, Maan = isiand + (152) + (156) + Colony Qiameterkean TL, Maan = 163 + Colony Qiameterkean TL, Maan = 153 + Colony Qiameterkean TL Maan = 153 + Colony Qia
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Supplementary Table 3: Regression models

Regression models between TL, island of sampling, ITS2 clusters, 16S clusters and colony diameter mean for the 32 islands. r.squared: multiple R2; adj.r.squared: adjusted R2; sigma: Residual Standard Error (RSE); statistic: F-test value; p.value: p-value of the F-test; df: degree of freedom of the overall F-test; logLik: log-likelihood of the model; AIC: Akaike's Information Criterion; BIC: Bayesian Information Criterion; df.residual: Residual degrees of freedom; error.rate: RSE divided by the mean of TL; frml: formula of the model.

Pocillopora		
Variable	R2_condition	R2_marginal
hTL_Mean	0.116721607	0
hTL_Med	0.154398860	0
hTL_Q3	0.164377142	0
hTL_Q1	0.140371332	0
hTL_IQ	0.186773575	0
sTL_Mean	0.196642379	0
sTL_Med	0.178153814	0
sTL_Q3	0.228716366	0
sTL_Q1	0.184217637	0
sTL_IQ	0.326476388	0
D		
Porites		
Porites Variable	R2_condition	R2_marginal
Porites Variable hTL_Mean	R2_conditior 0.069784033	R2_marginal 0
Variable hTL_Mean hTL_Med	R2_condition 0.069784033 0.115918231	R2_marginal 0 0
Variable hTL_Mean hTL_Med hTL_Q3	R2_condition 0.069784033 0.115918231 0.140117746	R2_marginal 0 0 0
Variable hTL_Mean hTL_Med hTL_Q3 hTL_Q1	R2_condition 0.069784033 0.115918231 0.140117746 0.073030285	R2_marginal 0 0 0 0
Porites Variable hTL_Mean hTL_Med hTL_Q3 hTL_Q1 hTL_IQ	R2_condition 0.069784033 0.115918231 0.140117746 0.073030285 0.111594215	R2_marginal 0 0 0 0 0
Porites Variable hTL_Mean hTL_Med hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean	R2_condition 0.069784033 0.115918231 0.140117746 0.073030285 0.111594215 0.158229362	R2_marginal 0 0 0 0 0 0 0
Porites Variable hTL_Mean hTL_Q3 hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean sTL_Med	R2_condition 0.069784033 0.115918231 0.140117746 0.073030285 0.111594215 0.158229362 0.225056949	R2_marginal 0 0 0 0 0 0 0 0
Porites Variable hTL_Mean hTL_Q3 hTL_Q1 hTL_IQ sTL_IQ sTL_Mean sTL_Med sTL_Q3	R2_condition 0.069784033 0.115918231 0.140117746 0.073030285 0.111594215 0.158229362 0.225056949 0.121876166	R2_marginal 0 0 0 0 0 0 0 0 0 0
Porites Variable hTL_Mean hTL_Q3 hTL_Q3 hTL_Q1 hTL_IQ sTL_Mean sTL_Med sTL_Q3 sTL_Q3	R2_condition 0.069784033 0.115918231 0.140117746 0.073030285 0.111594215 0.158229362 0.225056949 0.121876166 0.172565639	R2_marginal 0 0 0 0 0 0 0 0 0 0 0 0

Supplementary Table 4: R2 of variance partition analysis

Marginal and conditional R2 related to the variance partition analysis in **Supplementary Fig. 6b**. The marginal R2 considers only the variance of the fixed effects, while the conditional R2 considers both the fixed and random effects (i.e., the total model). Since the island and the host species are random effects, the marginal R2 is null.

Pocillopora hTL													
r.squared	adj.r.squared	sigma	statistic	p.value	df	logLik	AIC	BIC	deviance	df.residual	error.rate	frml	
0.202067683	0.13197903	0.158884393	2.883030063	0.000969446	14	4 75,46477246	-120,9295449	-74,61559989	3,736149036	148	0.030391336	log(hTL Mean) ~ island+genetic clusters	
0.140855452	0.08998505	0.162682334	2.768907844	0.004984471	10	69,47778666	-116,9555733	-82,99201363	4.022762341	152	0.031117805	log(hTL_Mean) ~ island	
0.048999584	0.02477027	0.168410667	2.022326864	0.093888148	5	5 61.25002398	-110.500048	-91,97446995	4,452857982	157	0.032213518	log(hTL Mean) ~ genetic clusters	
0.186960057	0.11554439	0.895032951	2.617913614	0.0026232	14	4 -204,5819848	439,1639696	485,4779146	118,5604296	148	0.171201506	hTL Mean ~ island+genetic clusters	
0.123802299	0.07192217	0.91683926	2.386314484	0.014838497	10	-210.6417173	443,2834347	477.2469944	127,7703226	152	0.175372607	hTL Mean ~ island	
0.050992184	0.02681364	0.93885605	2,108984969	0.082205165		-217.1075652	446,2151305	464,7407085	138.3877573	157	0.179583969	hTL Mean ~ genetic clusters	
	-,	-,	-,	-,					,		-,	a	
Pocillopora sTL													
r.squared	adi.r.souared	sigma	statistic	p.value	df	logLik	AIC	BIC	deviance	df.residual	error.rate	frml	
0.42082145	0.35399316	0.27223361	6.297055076	2.93173E-08	13	-6.897418548	41,7948371	80.46527218	7,707558409	104	0.029625902	log(sTL Mean) ~ island+genetic clusters	
0.363789458	0.31666275	0.279988846	7,719390594	3.8483E-08	\$	-12.39166501	44,78333003	72,40506938	8.466525415	108	0.030469868	log(sTL_Mean)~island	
0.193020434	0.16419974	0.309652389	6.697285016	7.18655E-05		-26.30113962	64 60227925	81,17532286	10,73907543	112	0.033698012	log(sTL_Mean) ~ genetic_clusters	
0 254461129	0 19923603	2 562716831	4 60770776	7 3698E-05	0	-271 438261	562 8765221	590 4982614	709 2918959	108	0 278888407	sTI Mean ~ island	
0 296376284	0.21518893	2 53706105	3 650522866	0.000140044	13	-268 0532431	564 1064861	602 7769212	669 4145922	100	0.276096409	sTL Mean ~ island+genetic clusters	
0 133314859	0 10236182	2 713307512	4 30700363	0.002804756		-280 246517	572 493034	589.0660776	824 5482171	112	0 295276481	sTL_Mean ~ genetic_clusters	
0,133314039	0,10230182	2,713307312	4,30700303	0,002004730		-200,240317	572,455054	369,0000770	024,0402171	112	0,293270401	STL_Wearr - genetic_clusters	
Poritos hTI													
r onues ni L	adi r aquarad	olama	atatiatia	n value	đf	log ik	AIC	RIC	douionee	dfroeiduol	orror roto	freel	
0 142073105	0.08509055	0 166503369	2 533690203	0.00747919	11	1 66 00701292	-100 8158256	-72 61742851	4 246262588	153	0.030325808	log(T2 Mean) ~ island	
0,142073195	0,08599955	0,100393300	1.070252092	0,00747616	1	67 34 930593	-109,0150250	-72,01742031	4,240202388	153	0,030325608	log(T2_Mean) ~ Island	
0,14035011	0,07237304	0,10763030	0.12006610	0,020132454		+ 07,31029302	-104,0305910	-30,13039323	4,225004551	150	0,03055102	log(T2_Mean) ~ Island+genetic_clusters	
0,002596979	-0,01610433	1,020020840	0,13000019	0,930034757	4.4	4 04,000/49/7	-99,11149955	-03,01210741	4,930392010	160	0,031974636	T2 Meen vielend	
0,12241199	0,0650533	1,029939619	2,134140003	0,0249301		-231,0500431	407,7010001	524,9000633	102,2907329	153	0,167464999	T2_Mean ~ Island	
0,127989601	0,05241537	1,036877443	1,693561328	0,067540845	14	4 -231,3280195	492,656039	539,1540354	161,2672248	150	0,188/4/889	12_Mean ~ island+genetic_clusters	
0,002286532	-0,0164206	1,073878507	0,12222783	0,946890342	- 4	-242,3705315	494,741063	510,2403951	184,5144076	160	0,195483374	12_Mean ~ genetic_clusters	
De site e sTi													
Porites STL	a d'a san and	at a second		a contra	-10	In addition	410	DIO	de de se	df an al darah		faul	
r.squared	adj.r.squared	sigma	statistic	p.value	ar	IOGLIK	AIC	BIC	deviance	df.residual	error.rate		
0,2452/8/08	0,191/9452	0,39062856	4,58600431	2,98463E-05	10	-60,42295518	142,8459104	1/4,965/006	19,37901533	12/	0,040116012	log(sTL_Mean) ~ Island	
0,259077024	0,18/3/48	0,391695192	3,613235561	0,000121033	12	-59,15900294	146,3180059	187,1977388	19,0247153	124	0,040225551	log(sIL_Mean) ~ island+genetic_clusters	
0,054117079	0,03278137	0,427332008	2,536456098	0,059457359		4 -/5,88821851	161,776437	176,3763416	24,28748177	133	0,043885311	log(sIL_Mean) ~ genetic_clusters	
0,21/285814	0,16181788	5,024730036	3,91/3229/8	0,000203343	10	-410,3716278	842,7432556	874,8630458	3206,484815	127	0,516019947	sIL_Mean ~ island	
0,223816321	0,148/01//	5,063891619	2,97966668	0,001099035	13	-409,7977066	847,5954131	888,4751461	31/9,/31/93	124	0,520041687	sIL_Mean ~ island+genetic_clusters	
0,037532043	0,01582224	5,444779675	1,72880621	0,164137788	- 4	4 -424,5328499	859,0656998	873,6656044	3942,86822	133	0,559157388	s IL_Mean ~ genetic_clusters	
Commonality a	nalysis												
	Variable		Coefficier	nt Tota	۱%								
Pocillop	oora hTL: log(h	TL_Mean) ~ islar	nd + genetic_clus	ters (R2 adj = 0.	13))							
Unique to island	t b		0,15	31		75,75							
Unique to gene	tic_clusters		0,06	12		30,29							
Common to isla	ind, and genetic	c_clusters	-0,01	22		-6,04							
Total			0,20	21		100							
Pocillop	oora sTL: log(s	TL_Mean) ~ islar	nd + genetic_clus	ters (R2 adj = 0.	35))							
Unique to island	±		0,22	78		54,13							
Unique to gene	tic_clusters		0,0	57		13,55							
Common to isla	ind, and genetic	c_clusters	0,1	36		32,31							
Total		_	0.42	08		100							

Porites hTL: log(hTL_Mean) ~ island (R2 adj = 0.09) Porites sTL: log(sTL_Mean) ~ island (R2 adj = 0.19)

Supplementary Table 5

Regression models between TL, island of sampling and genetic lineages for the 11 islands. r.squared: multiple R2; adj.r.squared: adjusted R2; sigma: Residual Standard Error (RSE); statistic: F-test value; p.value: p-value of the F-test; df: degree of freedom of the overall F-test; logLik: log-likelihood of the model; AIC: Akaike's Information Criterion; BIC: Bayesian Information Criterion; df.residual: Residual degrees of freedom; error.rate: RSE divided by the mean of TL; frml: formula of the model. The last sheet describes the commonality analysis (see Table 1 for details).

Variable lat lon SST_min_DegC SST_max_DegC SST_mean_DegC SST_std_DegC seasonal_min_DegC seasonal_max_DegC seasonal_mean_DegC seasonal_std_DegC SST_anomaly_min_DegC SST_anomaly_max_DegC SST_anomaly_mean_DegC SST_anomaly_std_DegC SST_anomaly_freq_max_day SST_anomaly_freq_mean_day SST_anomaly_freq_std_day TSA heat max DegC TSA_heat_mean_DegC TSA heat std DegC TSA_heat_freq_max_day TSA_heat_freq_sum_day TSA heat freq mean day TSA_heat_freq_std_day TSA DHW max DegC TSA_DHW_sum_DegC TSA_DHW_mean_DegC TSA_DHW_std_DegC TSA_DHW_freq_max_day TSA_DHW_freq_sum_day TSA_DHW_freq_mean_day TSA_DHW_freq_std_day TSA_DHW_minlenght_day TSA_DHW_maxlenght_day TSA_DHW_meanlenght_day TSA DHW stdlenght day TSA_DHW_lastmax_DegC TSA_DHW_lastsum_DegC TSA DHW lastduration day TSA_DHW_minrecovery_day TSA_DHW_maxrecovery_day TSA_DHW_meanrecovery_day TSA_DHW_lastrecovery_day TSA_cold_min_DegC TSA_cold_mean_DegC TSA_cold_std_DegC TSA_cold_freq_max_day TSA_cold_freq_sum_day TSA_cold_freq_mean_day TSA cold freq std day TSA_DCW_min_DegC TSA_DCW_sum_DegC

Type of environmental data Historical Historical

TSA DCW mean DegC TSA_DCW_std_DegC TSA_DCW_freq_max_DegC TSA_DCW_freq_sum_day TSA_DCW_freq_mean_day TSA_DCW_freq_std_day TSA_DCW_minlenght_day TSA_DCW_maxlenght_day TSA_DCW_meanlenght_day TSA DCW stdlenght day TSA_DCW_lastmin_DegC TSA_DCW_lastsum_DegC TSA_DCW_lastduration_day TSA_DCW_minrecovery_day TSA_DCW_maxrecovery_day TSA_DCW_meanrecovery_day TSA_DCW_lastrecovery_day Moon_light_lux barometer_hp airTemp dewPoint Course_Over_Ground Speed_over_Ground apparent windspeed bow apparent_winddir_bow true wind speed true_wind_dir gamma_acs_final fCDOM_ppb PAR ssh_copernicus u_copernicus v_copernicus current_speed_copernicus MLD copernicus wavesignificantheight_copernicus windspeed_copernicus eastward_wind_copernicus orthward_wind_copernicus o2 copernicus nppv_copernicus phyc_copernicus spco2_copernicus mergedPOC SST SSS chl daily_min_zenith Aerosols_conc PAR_Sat PIC_Sat bb_GSM_Sat KD490 Sat

Historical Contextual Contextual

NO2mole_L_	Contextual
Proc_mL	Contextual
Syn_mL	Contextual
Pico_mL	Contextual
Nano_mL	Contextual
OrgNano_mL	Contextual
TotalEuks_mL	Contextual
CorrectedBact_mL	Contextual
corrected_AT	Contextual
corrected_CT	Contextual
NO3	Contextual
PO4	Contextual
SiOH	Contextual
рН	Contextual
MoonLength	Contextual
SunLength	Contextual

Supplementary Table 6: List of the historical and contextual environmental data used for the sPLS analysis.