

site name	Date	Latitude	Longitude	Island	depth (m) ^a
NCPI01	28-Oct-13	-22.66510	167.35120	Ile des Pins	23.5
NCPI02	28-Oct-13	-22.65220	167.35250	Ile des Pins	11.9
NCPI03	28-Oct-13	-22.64760	167.36960	Ile des Pins	15.1
NCPI04	29-Oct-13	-22.49630	167.37090	Ile des Pins	17.3
NCPI05	29-Oct-13	-22.51470	167.41350	Ile des Pins	14.9
NCPI06	29-Oct-13	-22.57630	167.30130	Ile des Pins	25.1
NCPI07	30-Oct-13	-22.63970	167.56100	Ile des Pins	11.2
NCPI08	30-Oct-13	-22.59940	167.54920	Ile des Pins	14.7
NCPI09	30-Oct-13	-22.71780	167.44900	Ile des Pins	12.6
NCPI09 (night dive 1)	30-Oct-13	-22.67180	167.42870	Ile des Pins	night dive
NCNE10	31-Oct-13	-22.56940	167.19610	Neulka	19.9
NCNE11	31-Oct-13	-22.55940	167.20790	Neulka	15.7
NCPI12	31-Oct-13	-22.65540	167.43600	Ile des Pins	2.4
NCPI13	31-Oct-13	-22.58120	167.30900	Ile des Pins	21.5
NCPI14	1-Nov-13	-22.71930	167.58720	Ile des Pins	14.2
NCPI15 (night dive 2)	1-Nov-13	-22.70060	167.37400	Ile des Pins	19.0
NCPI16	1-Nov-13	-22.74050	167.54220	Ile des Pins	15.1
NCPI17	2-Nov-13	-22.45880	167.30060	Ile des Pins	14.4
NCPI18	2-Nov-13	-22.48640	167.23640	Ile des Pins	11.8
NCPI19	2-Nov-13	-22.63980	167.30650	Ile des Pins	25.9
NCPI19 (night dive 3)	2-Nov-13	-22.65355	167.41860	Ile des Pins	night dive
NCPI20	3-Nov-13	-22.55430	167.53300	Ile des Pins	20.7
NCPI21	3-Nov-13	-22.51440	167.44230	Ile des Pins	20.2
NCPB22	4-Nov-13	-22.31393	166.84398	Prony Bay	26.3
NCPB23	4-Nov-13	-22.36591	166.89047	Prony Bay	20.9
NCPB24	4-Nov-13	-22.35196	166.85095	Prony Bay	18.0
NCPE25	6-Nov-13	-18.59763	163.23528	Pelotas Atoll	26.7
NCPE26	6-Nov-13	-18.57095	163.21188	Pelotas Atoll	30.0
NCCR27	7-Nov-13	-18.94829	163.57256	Cook Reef	7.6
NCCR28	7-Nov-13	-18.87086	163.55139	Cook Reef	16.9
NCCR29	7-Nov-13	-18.83593	163.48468	Cook Reef	24.3
NCCR30	8-Nov-13	-19.09862	163.55931	Cook Reef	18.7
NCCR31	8-Nov-13	-18.98573	163.50549	Cook Reef	11.8
NCCR32	8-Nov-13	-18.88454	163.41447	Cook Reef	22.5
NCCR33	9-Nov-13	-19.05290	163.68248	Cook Reef	28.7
NCCR34	9-Nov-13	-19.06056	163.63042	Cook Reef	27.1
NCCR35	9-Nov-13	-18.87739	163.43982	Cook Reef	
NCCR36	10-Nov-13	-18.84929	163.53050	Cook Reef	28.3
NCCR37	10-Nov-13	-18.85229	163.44774	Cook Reef	45.0
NCCR38	10-Nov-13	-18.85386	163.43465	Cook Reef	19.4

NCPO39	11-Nov-13	-18.50812	162.90837	Portail Atoll	33.7
NCPO40	11-Nov-13	-18.45819	162.88893	Portail Atoll	23.6
NCPO41	11-Nov-13	-18.46272	162.83760	Portail Atoll	33.3
NCPU42	12-Nov-13	-20.26330	163.87234	Puom	16.4
NCHU43	13-Nov-13	-17.88725	162.89752	Huon Atoll	20.5
NCHU44	13-Nov-13	-17.93625	162.89209	Huon Atoll	32.4
NCHU45	13-Nov-13	-17.99775	162.90631	Huon Atoll	28.5
NCHU46	14-Nov-13	-18.06129	162.82822	Huon Atoll	19.6
NCHU47	14-Nov-13	-17.97818	162.89603	Huon Atoll	17.5
NCHU48	14-Nov-13	-18.03598	162.91621	Huon Atoll	19.7
NCHU49	15-Nov-13	-18.23260	162.88835	Huon Atoll	20.9
NCHU50	15-Nov-13	-18.19555	162.84122	Huon Atoll	23.7
NCHU51	15-Nov-13	-18.13254	162.81593	Huon Atoll	23.2
NCHU52	16-Nov-13	-17.91976	162.92245	Huon Atoll	28.1
NCHU53	16-Nov-13	-17.95141	162.89218	Huon Atoll	25.4
NCHU54	16-Nov-13	-17.96912	162.93228	Huon Atoll	16.4
NCGU55	17-Nov-13	-17.99901	163.10968	Guibert Atoll	21.7
NCGU56	17-Nov-13	-18.01481	163.12909	Guibert Atoll	25.4
NCHU57	17-Nov-13	-17.96949	162.91711	Huon Atoll	25.7
NCGU58	18-Nov-13	-18.01741	163.08890	Guibert Atoll	26.1
NCGU59	18-Nov-13	-18.05783	163.07520	Guibert Atoll	30.4
NCHU60	18-Nov-13	-18.02024	162.96556	Huon Atoll	14.7
NCSU61	18-Nov-13	-18.50630	163.12769	Surprise Atoll	18.5
NCSU62	18-Nov-13	-18.49670	163.22739	Surprise Atoll	21.9
NCSU63	18-Nov-13	-18.42984	163.23144	Surprise Atoll	22.2
NCME64	19-Nov-13	-18.20019	163.02817	Merite Atoll	21.2
NCME65	20-Nov-13	-18.21463	163.01721	Merite Atoll	23.7
NCSU66	20-Nov-13	-18.46471	163.02458	Surprise Atoll	16.4
NCSUND4 (night dive 4	20-Nov-13	no coordinates were tak		Surprise Atoll	.
NCSU67	21-Nov-13	-18.31282	163.11971	Surprise Atoll	15.8
NCSU68	21-Nov-13	-18.27839	163.04002	Surprise Atoll	21.3
NCSU69	22-Nov-13	-18.29969	162.98744	Surprise Atoll	19.6
NCSU70	22-Nov-13	-18.39594	162.99118	Surprise Atoll	38.5
NCSU71	22-Nov-13	-18.49718	163.10036	Surprise Atoll	22.9
NCPO72	23-Nov-13	-18.47642	162.84201	Portail Atoll	25.7
NCPO73	23-Nov-13	-18.51935	162.87039	Portail Atoll	15.6
NCSU74	23-Nov-13	-18.46323	163.07988	Surprise Atoll	32.9
NCPE75	24-Nov-13	-18.53899	163.25275	Pelotas Atoll	17.9
NCPE76	24-Nov-13	-18.60136	163.18690	Pelotas Atoll	26.5

^athe depth to which the CTD fell (see "sample info" page for ex
 "." = no data.

max. temp. (°C)	min. temp. (°C)	average temp. (°C)	max. salinity	min. salinity
24.3	23.8	24.1	35.4	35.2
24.7	24.4	24.6	35.4	35.3
25.2	24.2	24.7	35.3	34.9
24.8	24.8	24.8	35.3	35.2
25.0	24.9	25.0	35.2	35.1
24.5	24.3	24.4	35.3	35.3
24.0	23.5	23.8	35.4	35.3
24.5	24.3	24.4	35.3	35.2
24.1	24.0	24.1	35.4	35.3
<hr/>				
24.1	23.7	23.9	35.4	35.0
24.1	23.8	24.0	35.4	35.2
<hr/>				
25.4	24.9	25.2	35.4	35.3
25.2	25.1	25.2	35.9	35.4
23.8	23.6	23.7	35.4	35.4
24.4	24.1	24.3	35.4	35.3
24.5	24.3	24.4	35.4	35.3
24.8	24.8	24.8	35.3	35.2
23.7	23.7	23.7	35.4	35.2
24.2	23.5	23.9	35.5	35.3
<hr/>				
24.8	23.7	24.3	35.4	35.2
24.8	24.8	24.8	35.3	35.2
<hr/>				
25.5	24.0	24.7	35.1	33.7
24.6	24.2	24.4	35.4	35.1
25.4	24.3	24.8	35.4	35.0
<hr/>				
25.6	23.8	24.7		35.1
25.3	25.0	25.1	35.2	35.2
<hr/>				
25.7	25.7	25.7	35.2	35.2
25.8	25.8	25.8	35.2	35.1
26.0	25.8	25.9	35.2	35.1
25.4	25.4	25.4	35.2	35.2
25.5	25.5	25.5	35.2	35.2
25.9	25.8	25.9	35.2	35.1
25.3	25.3	25.3	35.3	35.2
25.3	25.2	25.3		35.3
<hr/>				
25.7	25.6	25.7	35.2	35.1
25.7	25.6	25.7	35.2	35.2
26.0	27.0	26.5	35.2	35.2

25.5	25.5	25.5 .	35.2
25.6	25.5	25.6 .	35.1
26.2	25.5	25.9 .	35.1
25.3	25.2	25.3 .	35.3
26.1	26.1	26.1 .	35.1
26.0	25.8	25.9 .	35.1
26.2	26.0	26.1 .	35.1
26.0	26.0	26.0 .	34.9
26.5	26.1	26.3 .	35.1
26.1	26.0	26.1 .	35.2
25.8	25.7	25.7 .	35.2
25.9	25.9	25.9 .	35.1
26.1	25.9	26.0 .	35.2
26.3	25.7	26.0 .	35.0
26.3	26.2	26.2 .	35.1
26.6	26.0	26.3 .	34.5
25.8	25.5	25.6 .	35.2
25.8	25.7	25.7 .	35.2
26.6	25.9	26.3 .	35.1
25.7	25.6	25.6 .	35.2
25.5	25.2	25.4 .	35.2
26.1	25.7	25.9 .	35.2
25.8	25.8	25.8 .	35.2
26.3	25.2	25.7 .	35.1
25.9	25.6	25.7 .	35.3
26.2	25.4	25.8 .	35.0
26.2	25.8	26.0 .	35.2
26.5	26.0	26.2 .	35.2
26.1	26.0	26.0 .	35.2
26.3	25.8	26.0 .	35.3
25.8	25.0	25.4 .	35.3
26.1	25.7	25.9 .	35.2
26.9	26.3	26.6 .	35.2
26.5	26.3	26.4 .	35.2
26.7	26.3	26.5 .	35.1
26.3	26.1	26.2 .	35.2
25.7	25.4	25.6 .	35.3
26.6	26.2	26.4 .	35.3
avg. temperature		25.4	avg. salinity
std. dev.		0.8	std. dev.

avg. salinity	exposure	reef zone	reef type	emerged/submerge
35.3	protected	lagoonal	patch reef	emergent
35.4	protected	lagoonal	patch reef	emergent
35.1	protected	lagoonal	patch reef	submerged
35.3	exposed	forereef	barrier reef	
35.2	exposed	forereef	fringing reef	
35.3	intermediate	lagoonal	barrier reef	
35.4	exposed	forereef	fringing reef	
35.3	exposed	forereef	barrier reef	
35.4	intermediate	seaward of	barrier reef	
.	protected	lagoonal	fringing reef	
35.2	protected	forereef	patch reef	emergent
35.3	protected	forereef	patch reef	emergent
35.4	protected	lagoonal	fringing reef	
35.7	protected	lagoonal	fringing reef	
35.4	exposed	forereef	barrier reef	
35.4	protected	forereef	barrier reef	
35.4	intermediate	lagoonal	barrier reef	
35.3	exposed	forereef	barrier reef	
35.3	intermediate	forereef	barrier reef	
35.4	protected	lagoonal	reef platform	submerged
.	protected	lagoonal	fringing reef	
35.3	exposed	forereef	barrier reef	
35.3	protected	lagoonal	patch reef	
34.4	protected	bay	fringing reef	
35.3	protected	bay	fringing reef	
35.2	protected	bay	fringing reef	
35.1	exposed	forereef	atoll	
35.2	intermediate	forereef	atoll	
35.2	exposed	forereef	barrier reef	
35.2	exposed	forereef	barrier reef	
35.2	exposed	forereef	barrier reef	
35.2	intermediate	forereef	barrier reef	
35.2	intermediate	backreef	barrier reef	
35.2	intermediate	forereef	barrier reef	
35.3	exposed	forereef	barrier reef	
35.3	protected	channel	barrier reef	
.	protected	backreef	barrier reef	
35.2	exposed	forereef	barrier reef	
35.2	intermediate	backreef	barrier reef	
35.2	intermediate	forereef	barrier reef	

35.2	exposed	backreef	atoll
35.1	protected	backreef	atoll
35.1	intermediate	forereef	atoll
<hr/>			
35.3	intermediate	forereef	barrier
35.1	exposed	forereef	atoll
35.1	intermediate	forereef	atoll
35.1	protected	lagoonal	atoll
34.9	intermediate	forereef	atoll
35.1	intermediate	forereef	atoll
35.2	protected	lagoonal	atoll
35.2	exposed	forereef	atoll
35.1	intermediate	forereef	atoll
35.2	intermediate	channel	atoll
35.0	exposed	forereef	atoll
35.1	intermediate	forereef	atoll
34.5	exposed	forereef	atoll
35.2	intermediate	forereef	atoll
35.2	exposed	forereef	atoll
35.1	intermediate	backreef	atoll
35.2	intermediate	forereef	atoll
35.2	exposed	forereef	atoll
35.2	exposed	forereef	atoll
35.2	intermediate	forereef	atoll
35.1	exposed	forereef	atoll
35.3	exposed	forereef	atoll
35.0	exposed	forereef	atoll
35.2	exposed	forereef	atoll
35.2	intermediate	forereef	atoll
	protected	lagoonal	atoll
35.2	exposed	forereef	atoll
35.3	exposed	forereef	atoll
35.3	intermediate	channel	atoll
35.2	intermediate	channel	atoll
35.2	intermediate	forereef	atoll
35.2	intermediate	forereef	atoll
35.1	intermediate	forereef	atoll
35.2	protected	lagoonal	patch reef
35.3	exposed	forereef	atoll
35.3	intermediate	forereef	atoll

average live coral cover (%; \pm std. dev.)	ALCC (%)	<i>P. damicornis</i> / <i>P. acuta</i> presence
43 \pm 22		43 <i>P. damicornis</i> only
26 \pm 13		26 <i>P. damicornis</i> only
4.3 \pm 3.1		4.3 unknown (did not dive)
20 \pm 12		20 <i>P. damicornis</i> only
23 \pm 10		23 <i>P. damicornis</i> only
30 \pm 8.9		30 unknown (did not dive)
18 \pm 11		18 unknown (did not dive)
24 \pm 6.6		24 unknown (did not dive)
20 \pm 8.2		20 unknown (did not dive)
not determined	.	<i>P. damicornis</i> only
28 \pm 9.1		28 <i>P. damicornis</i> only
31 \pm 22		31 <i>P. damicornis</i> only
not determined	.	unknown (did not dive)
8.6 \pm 3.9		8.6 unknown (did not dive)
9.8 \pm 9.7		9.8 unknown (did not dive)
25 \pm 3.1		25 <i>P. damicornis</i> only
17 \pm 4.7		17 unknown (did not dive)
37 \pm 14		37 unknown (did not dive)
41 \pm 8.9		41 unknown (did not dive)
32 \pm 19		32 unknown (did not dive)
not determined	.	<i>P. damicornis</i> only
21 \pm 7.1		21 unknown (did not dive)
33 \pm 12		33 unknown (did not dive)
59 \pm 25		59 <i>P. acuta</i> only
63 \pm 18		63 <i>P. acuta</i> only
59 \pm 11		59 unknown (did not dive)
41 \pm 9.1		41 unknown (did not dive)
40 \pm 7.1		40 <i>P. acuta</i> only
25 \pm 15		25 <i>P. damicornis</i> only
35 \pm 15		35 unknown (did not dive)
19 \pm 16		19 unknown (did not dive)
27 \pm 6.8		27 <i>P. acuta</i> only
24 \pm 18		24 <i>P. damicornis</i> only
30 \pm 2.4		30 unknown (did not dive)
15 \pm 2.5		15 <i>P. damicornis</i> only
30 \pm 9.5		30 <i>P. damicornis</i> and <i>P. acuta</i>
37 \pm 12		37 unknown (did not dive)
26 \pm 5.3		26 <i>P. damicornis</i> only
30 \pm 16		30 <i>P. acuta</i> only
28 \pm 18		28 unknown (did not dive)

21±14	21 <i>P. damicornis</i> only
32±11	32 <i>P. damicornis</i> only
37±12	37 unknown (did not dive)
<hr/>	
31±11	31 unknown (did not dive)
27±9.2	27 <i>P. damicornis</i> only
30±2.5	30 <i>P. acuta</i> only
32±10	32 <i>P. acuta</i> only
18±9.0	18 <i>P. damicornis</i> only
23±18	23 <i>P. acuta</i> only
31±18	31 unknown (did not dive)
34±9.6	34 unknown (did not dive)
34±7.0	34 unknown (did not dive)
32±3.3	32 unknown (did not dive)
27±9.5	27 unknown (did not dive)
24±5.7	24 unknown (did not dive)
34±9.6	34 unknown (did not dive)
31±16	31 unknown (did not dive)
11±5.6	11 unknown (did not dive)
26±9.9	26 <i>P. acuta</i> only
12±9.4	12 unknown (did not dive)
47±19	47 unknown (did not dive)
27±21	27 unknown (did not dive)
41±10	41 <i>P. damicornis</i> only
43±6.6	43 unknown (did not dive)
29±6.2	29 unknown (did not dive)
28±6.8	28 unknown (did not dive)
41±16	41 unknown (did not dive)
35±7.4	35 unknown (did not dive)
not determined	<i>P. damicornis</i> only
32±13	32 unknown (did not dive)
20±8.8	20 unknown (did not dive)
28±13	28 unknown (did not dive)
39±6.6	39 unknown (did not dive)
35±5.9	35 unknown (did not dive)
29±17	29 unknown (did not dive)
36±8.4	36 unknown (did not dive)
38±9.0	38 unknown (did not dive)
43±4.7	43 unknown (did not dive)
55±4.6	55 unknown (did not dive)

avg. ALCC 30.30267
std. dev. 11.08177

# pocilloporids sampled	#pocilloporids genotype	#pocilloporids genotype
	9	9
	2	2
	0	0
	6	6
	2	2
	0	0
	0	0
	0	0
	0	0
10 (sampled each colony in light and dai		10
	6	5
	1	1
	0	0
	0	0
	0	0
10 (sampled each colony in light and dai		10
	0	0
	0	0
	0	0
	0	0
9 (sampled each colony in light and dark		9
	0	0
	0	0
	3	3
	4	4
	0	0
	0	0
	3	3
	4	4
	0	0
	0	0
	2	1
	2	2
	0	0
	2	2
	2	2
	0	0
	1	1
	1	1
	0	0

	140	104
total number of pocilloporid colonies analyzed		
	58	
total number of pocilloporid colonies genotyped		
	101	

#pocilloporids analyzed

9: #1-9

2: #10-11

0

6: #12-17

2: #18-19

0

0

0

0

10 for light (#20-29) and 9 for dark (#21D-29D)

5: #30-32, 34-35

1: #36

0

0

0

5 for light (#37, 43-46) and 9 for dark (37D-45D)

0

0

0

0

7 for light (#47-50, 53-55) and 8 for dark (#47D-53D, 55D)

0

0

3: #56-58

4: #59-62

0

0

3: #63-65

3: #66-68

0

0

1: #70

2: #72-73

0

2: #74-75

2: #76-77

0

1: #78

1: #79

0

1: #80
2: #82-83

0
0
0

1: #85
1: #86

0

2: #88-89

0
0
0
0
0
0
0
0
0
0

3: #90-92

0
0
0

5: 93-97

0
0
0
0
0

5 for light (#98, 100, 102-104) and 5 for dark (#99-100D, 102D-

0
0
0
0
0
0
0
0
0
0
0

**total number of samples included in
multivariate statistical analyses**

notes (1)

Colony #17 was an outlier.

Colony #20D was not analyzed.

Colony #33 was neither genotyped nor processed for all response variables.

Colonies #38-42 and 46D were not analyzed.

Colonies #51-52 and 54D were not analyzed.

Colony #58 was an outlier.

Colony #59 was an outlier.

Colony #69 was not analyzed.

Colony #71 was not analyzed.

Colony #81 was not analyzed.

Colony #87 was not analyzed.

Colony #94 was not genotyped.

notes (2)

Colony #24 (sampled during the light) was an outlier. Colony #24D (the same colony sampled at night) was an outlier.
Colony #34 was an outlier.

Colonies # 37, 44, and 46 were outliers. Colonies #37D and 44D (the same colonies sampled at night) were outliers.

Colonies #48 and 53D were outliers. Colonies #48D and 53 (the same colonies sampled at night) were outliers.

at night) was not.

at night) were not.

ight and day respectively) were not.

samples highlighted in red were not analyzed for all response variables

sample number	ENVIRONMENTAL PARAMETERS	
	region	Island
NC1	Southern reefs (SR)	Ile des Pins
NC2	Southern reefs (SR)	Ile des Pins
NC3	Southern reefs (SR)	Ile des Pins
NC4	Southern reefs (SR)	Ile des Pins
NC5	Southern reefs (SR)	Ile des Pins
NC6	Southern reefs (SR)	Ile des Pins
NC7	Southern reefs (SR)	Ile des Pins
NC8	Southern reefs (SR)	Ile des Pins
NC9	Southern reefs (SR)	Ile des Pins
NC10	Southern reefs (SR)	Ile des Pins
NC11	Southern reefs (SR)	Ile des Pins
NC12	Southern reefs (SR)	Ile des Pins
NC13	Southern reefs (SR)	Ile des Pins
NC14	Southern reefs (SR)	Ile des Pins
NC15	Southern reefs (SR)	Ile des Pins
NC16	Southern reefs (SR)	Ile des Pins
NC17	Southern reefs (SR)	Ile des Pins
NC18	Southern reefs (SR)	Ile des Pins
NC19	Southern reefs (SR)	Ile des Pins
NC20	Southern reefs (SR)	Ile des Pins
NC21	Southern reefs (SR)	Ile des Pins
NC22	Southern reefs (SR)	Ile des Pins
NC23	Southern reefs (SR)	Ile des Pins
NC24	Southern reefs (SR)	Ile des Pins
NC25	Southern reefs (SR)	Ile des Pins
NC26	Southern reefs (SR)	Ile des Pins
NC27	Southern reefs (SR)	Ile des Pins
NC28	Southern reefs (SR)	Ile des Pins
NC29	Southern reefs (SR)	Ile des Pins
NC20-D	Southern reefs (SR)	Pins
NC21-D	Southern reefs (SR)	Ile des Pins
NC22-D	Southern reefs (SR)	Ile des Pins
NC23-D	Southern reefs (SR)	Ile des Pins
NC24-D	Southern reefs (SR)	Ile des Pins
NC25-D	Southern reefs (SR)	Ile des Pins
NC26-D	Southern reefs (SR)	Ile des Pins
NC27-D	Southern reefs (SR)	Ile des Pins

NC28-D	Southern reefs (SR)	Ile des Pins
NC29-D	Southern reefs (SR)	Ile des Pins
NC30	Southern reefs (SR)	Neulka
NC31	Southern reefs (SR)	Neulka
NC32	Southern reefs (SR)	Neulka
NC33	Southern reefs (SR)	Neulka
NC34	Southern reefs (SR)	Neulka
NC35	Southern reefs (SR)	Neulka
NC36	Southern reefs (SR)	Neulka
NC37	Southern reefs (SR)	Ile des Pins
NC38	Southern reefs (SR)	Ile des Pins
NC39	Southern reefs (SR)	Ile des Pins
NC40	Southern reefs (SR)	Ile des Pins
NC41	Southern reefs (SR)	Ile des Pins
NC42	Southern reefs (SR)	Ile des Pins
NC43	Southern reefs (SR)	Ile des Pins
NC44	Southern reefs (SR)	Ile des Pins
NC45	Southern reefs (SR)	Ile des Pins
NC46	Southern reefs (SR)	Ile des Pins
NC37-D	Southern reefs (SR)	Ile des Pins
NC38-D	Southern reefs (SR)	Ile des Pins
NC39-D	Southern reefs (SR)	Ile des Pins
NC40-D	Southern reefs (SR)	Ile des Pins
NC41-D	Southern reefs (SR)	Ile des Pins
NC42-D	Southern reefs (SR)	Ile des Pins
NC43-D	Southern reefs (SR)	Ile des Pins
NC44-D	Southern reefs (SR)	Ile des Pins
NC45-D	Southern reefs (SR)	Ile des Pins
NC46-D	Southern reefs (SR)	Ile des Pins
NC47	Southern reefs (SR)	Ile des Pins
NC48	Southern reefs (SR)	Ile des Pins
NC49	Southern reefs (SR)	Ile des Pins
NC50	Southern reefs (SR)	Ile des Pins
NC51	Southern reefs (SR)	Ile des Pins
NC52	Southern reefs (SR)	Ile des Pins
NC53	Southern reefs (SR)	Ile des Pins
NC54	Southern reefs (SR)	Ile des Pins
NC55	Southern reefs (SR)	Ile des Pins
NC47-D	Southern reefs (SR)	Ile des Pins
NC48-D	Southern reefs (SR)	Ile des Pins
NC49-D	Southern reefs (SR)	Ile des Pins

NC50-D	Southern reefs (SR)	Ile des Pins
NC51-D	Southern reefs (SR)	Ile des Pins
NC52-D	Southern reefs (SR)	Ile des Pins
NC53-D	Southern reefs (SR)	Ile des Pins
NC54-D	Southern reefs (SR)	Ile des Pins
NC55-D	Southern reefs (SR)	Ile des Pins
NC56	Southern reefs (SR)	Prony Bay
NC57	Southern reefs (SR)	Prony Bay
NC58	Southern reefs (SR)	Prony Bay
NC59	Southern reefs (SR)	Prony Bay
NC60	Southern reefs (SR)	Prony Bay
NC61	Southern reefs (SR)	Prony Bay
NC62	Southern reefs (SR)	Prony Bay
NC63	Northern reefs and atolls (NR/Pelotas Atoll	
NC64	Northern reefs and atolls (NR/Pelotas Atoll	
NC65	Northern reefs and atolls (NR/Pelotas Atoll	
NC66	Northern reefs and atolls (NR/Cook Reef	
NC67	Northern reefs and atolls (NR/Cook Reef	
NC68	Northern reefs and atolls (NR/Cook Reef	
NC69	Northern reefs and atolls (NR/Cook Reef	
NC70	Northern reefs and atolls (NR/Cook Reef	
NC71	Northern reefs and atolls (NR/Cook Reef	
NC72	Northern reefs and atolls (NR/Cook Reef	
NC73	Northern reefs and atolls (NR/Cook Reef	
NC74	Northern reefs and atolls (NR/Cook Reef	
NC75	Northern reefs and atolls (NR/Cook Reef	
NC76	Northern reefs and atolls (NR/Cook Reef	
NC77	Northern reefs and atolls (NR/Cook Reef	
NC78	Northern reefs and atolls (NR/Cook Reef	
NC79	Northern reefs and atolls (NR/Cook Reef	
NC80	Northern reefs and atolls (NR/Portail Atoll	
NC81	Northern reefs and atolls (NR/Portail Atoll	
NC82	Northern reefs and atolls (NR/Portail Atoll	
NC83	Northern reefs and atolls (NR/Portail Atoll	
NC84	Northern reefs and atolls (NR/Huon Atoll	
NC85	Northern reefs and atolls (NR/Huon Atoll	
NC86	Northern reefs and atolls (NR/Huon Atoll	
NC87	Northern reefs and atolls (NR/Huon Atoll	
NC88	Northern reefs and atolls (NR/Huon Atoll	
NC89	Northern reefs and atolls (NR/Huon Atoll	
NC90 ^a	Northern reefs and atolls (NR/Huon Atoll	

NC91	Northern reefs and atolls (NR/Huon Atoll
NC92	Northern reefs and atolls (NR/Huon Atoll
NC93	Northern reefs and atolls (NR/Surprise Atoll
NC94	Northern reefs and atolls (NR/Surprise Atoll
NC95	Northern reefs and atolls (NR/Surprise Atoll
NC96	Northern reefs and atolls (NR/Surprise Atoll
NC97	Northern reefs and atolls (NR/Surprise Atoll
NC98	Northern reefs and atolls (NR/Surprise Atoll
NC99	Northern reefs and atolls (NR/Surprise Atoll
NC100	Northern reefs and atolls (NR/Surprise Atoll
NC101	Northern reefs and atolls (NR/Surprise Atoll
NC102	Northern reefs and atolls (NR/Surprise Atoll
NC103	Northern reefs and atolls (NR/Surprise Atoll
NC104	Northern reefs and atolls (NR/Surprise Atoll
NC98-D	Northern reefs and atolls (NR/Surprise Atoll
NC99-D	Northern reefs and atolls (NR/Surprise Atoll
NC100-D	Northern reefs and atolls (NR/Surprise Atoll
NC101-D	Northern reefs and atolls (NR/Surprise Atoll
NC102-D	Northern reefs and atolls (NR/Surprise Atoll
NC103-D	Northern reefs and atolls (NR/Surprise Atoll
NC104D	Northern reefs and atolls (NR/Surprise Atoll

average

std. dev

std. error

^acertain missing
gene expression
data points were
imputed with JMP

minimum

maximum

coefficient of variation

NCPI night dive 3	-22.65355	167.4186	protected	lagoonal
NCPI night dive 3	-22.65355	167.4186	protected	lagoonal
NCPI night dive 3	-22.65355	167.4186	protected	lagoonal
NCPI night dive 3	-22.65355	167.4186	protected	lagoonal
NCPI night dive 3	-22.65355	167.4186	protected	lagoonal
NCPI night dive 3	-22.65355	167.4186	protected	lagoonal
NCPB22	-22.31393	166.84398	protected	bay
NCPB22	-22.31393	166.84398	protected	bay
NCPB22	-22.31393	166.84398	protected	bay
NCPB23	-22.36591	166.89047	protected	bay
NCPB23	-22.36591	166.89047	protected	bay
NCPB23	-22.36591	166.89047	protected	bay
NCPB23	-22.36591	166.89047	protected	bay
NCPE26	-18.57095	163.21188	intermediate	forereef
NCPE26	-18.57095	163.21188	intermediate	forereef
NCPE26	-18.57095	163.21188	intermediate	forereef
NCCR27	-18.9424	163.5725	exposed	forereef
NCCR27	-18.9424	163.5725	exposed	forereef
NCCR27	-18.9424	163.5725	exposed	forereef
NCCR27	-18.9424	163.5725	exposed	forereef
NCCR30	-19.0986	163.5593	intermediate	forereef
NCCR30	-19.0986	163.5593	intermediate	forereef
NCCR31	-18.9855	163.5052	intermediate	backreef
NCCR31	-18.9855	163.5052	intermediate	backreef
NCCR33	-19.0532	163.6834	exposed	forereef
NCCR33	-19.0532	163.6834	exposed	forereef
NCCR34	-19.06056	163.63042	protected	channel
NCCR34	-19.06056	163.63042	protected	channel
NCCR36	-18.8493	163.5307	exposed	forereef
NCCR37	-18.8486	163.4469	intermediate	backreef
NCPO39	-18.508120	###	exposed	backreef
NCPO39	-18.508120	###	exposed	backreef
NCPO40	-18.458190	###	protected	backreef
NCPO40	-18.458190	###	protected	backreef
NCHU43	-17.887250	###	exposed	forereef
NCHU44	-17.936250	###	intermediate	forereef
NCHU45	-17.997750	###	protected	lagoonal
NCHU46	-18.061290	###	intermediate	forereef
NCHU47	-17.978180	###	intermediate	forereef
NCHU47	-17.978180	###	intermediate	forereef
NCHU57	-17.969490	###	intermediate	backreef

NCHU57	-17.969490	### intermediatebackreef
NCHU57	-17.969490	### intermediatebackreef
NCSU61	-18.506303	### intermediateforereef
NCSU61	-18.506303	### intermediateforereef
NCSU61	-18.506303	### intermediateforereef
NCSU61	-18.506303	### intermediateforereef
NCSU61	-18.506303	### intermediateforereef
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal
NCSUND4 (night dive 4.	.	protected lagoonal

samples highlighted in blue were considered to be outliers (see r
Average live coral cover (ALCC)

Reef type	ALCC (%)	ALCC- categorical (%)	Exact date	Exact depth (m)	depth- categorical (m)
patch	43	30-45	28-Oct-13	19.9	15-20
patch	43	30-45	28-Oct-13	19.5	15-20
patch	43	30-45	28-Oct-13	21.3	20-25
patch	43	30-45	28-Oct-13	21.7	20-25
patch	43	30-45	28-Oct-13	22.2	20-25
patch	43	30-45	28-Oct-13	15.5	15-20
patch	43	30-45	28-Oct-13	13.5	10-15
patch	43	30-45	28-Oct-13	12.5	10-15
patch	43	30-45	28-Oct-13	12.5	10-15
patch	26	15-30	28-Oct-13	19.8	15-20
patch	26	15-30	28-Oct-13	12	10-15
barrier	20	15-30	29-Oct-13	21	20-25
barrier	20	15-30	29-Oct-13	21	20-25
barrier	20	15-30	29-Oct-13	21.6	20-25
barrier	20	15-30	29-Oct-13	15.3	15-20
barrier	20	15-30	29-Oct-13	10.3	10
barrier	20	15-30	29-Oct-13	9.7	10
fringing	23	15-30	29-Oct-13	28.5	25-30
fringing	23	15-30	29-Oct-13	23.8	20-25
fringing	.	.	30-Oct-13	10.2	10
fringing	.	.	30-Oct-13	10.7	10
fringing	.	.	30-Oct-13	11	10
fringing	.	.	30-Oct-13	10.5	10
fringing	.	.	30-Oct-13	11.4	10
fringing	.	.	30-Oct-13	11.4	10
fringing	.	.	30-Oct-13	11.2	10
fringing	.	.	30-Oct-13	10.5	10
fringing	.	.	30-Oct-13	10.2	10
fringing	.	.	30-Oct-13	10	10
fringing	.	.	30-Oct-13	10.2	10
fringing	.	.	30-Oct-13	10.7	10
fringing	.	.	30-Oct-13	11	10
fringing	.	.	30-Oct-13	10.5	10
fringing	.	.	30-Oct-13	11.4	10
fringing	.	.	30-Oct-13	11.4	10
fringing	.	.	30-Oct-13	11.2	10
fringing	.	.	30-Oct-13	10.5	10

fringing	.	.	30-Oct-13	10.2	10
fringing	.	.	30-Oct-13	10	10
patch		28 15-30	31-Oct-13	29 25-30	
patch		28 15-30	31-Oct-13	25 20-25	
patch		28 15-30	31-Oct-13	19.2 15-20	
patch		28 15-30	31-Oct-13	15.7 15-20	
patch		28 15-30	31-Oct-13	14.5 10-15	
patch		28 15-30	31-Oct-13	11	10
patch		31 30-45	31-Oct-13	24.6 20-25	
barrier		25 15-30	1-Nov-13	10.5	10
barrier		25 15-30	1-Nov-13	11.2	10
barrier		25 15-30	1-Nov-13	11.8	10
barrier		25 15-30	1-Nov-13	10.5	10
barrier		25 15-30	1-Nov-13	10.9	10
barrier		25 15-30	1-Nov-13	11.4	10
barrier		25 15-30	1-Nov-13	10.2	10
barrier		25 15-30	1-Nov-13	9.1	10
barrier		25 15-30	1-Nov-13	10	10
barrier		25 15-30	1-Nov-13	9.2	10
barrier		25 15-30	1-Nov-13	10.5	10
barrier		25 15-30	1-Nov-13	11.2	10
barrier		25 15-30	1-Nov-13	11.8	10
barrier		25 15-30	1-Nov-13	10.5	10
barrier		25 15-30	1-Nov-13	10.9	10
barrier		25 15-30	1-Nov-13	11.4	10
barrier		25 15-30	1-Nov-13	10.2	10
barrier		25 15-30	1-Nov-13	9.1	10
barrier		25 15-30	1-Nov-13	10	10
barrier		25 15-30	1-Nov-13	9.2	10
fringing	.	.	2-Nov-13	10.2	10
fringing	.	.	2-Nov-13	10.5	10
fringing	.	.	2-Nov-13	10.2	10
fringing	.	.	2-Nov-13	10.4	10
fringing	.	.	2-Nov-13	10.5	10
fringing	.	.	2-Nov-13	10.3	10
fringing	.	.	2-Nov-13	10.3	10
fringing	.	.	2-Nov-13	9.9	10
fringing	.	.	2-Nov-13	9.7	10
fringing	.	.	2-Nov-13	10.2	10
fringing	.	.	2-Nov-13	10.5	10
fringing	.	.	2-Nov-13	10.2	10

fringing	.	.	2-Nov-13	10.4	10
fringing	.	.	2-Nov-13	10.5	10
fringing	.	.	2-Nov-13	10.3	10
fringing	.	.	2-Nov-13	10.3	10
fringing	.	.	2-Nov-13	9.9	10
fringing	.	.	2-Nov-13	9.7	10
fringing		59 45-60	4-Nov-13	10.6	10
fringing		59 45-60	4-Nov-13	7.6 5-10	
fringing		59 45-60	4-Nov-13	5 5-10	
fringing		63 >60	4-Nov-13	20.8 20-25	
fringing		63 >60	4-Nov-13	21 20-25	
fringing		63 >60	4-Nov-13	15 15-20	
fringing		63 >60	4-Nov-13	10.7	10
atoll		40 30-45	6-Nov-13	19.5 15-20	
atoll		40 30-45	6-Nov-13	25.2 25-30	
atoll		40 30-45	6-Nov-13	21.2 20-25	
barrier		25 15-30	7-Nov-13	20.8 20-25	
barrier		25 15-30	7-Nov-13	14.3 10-15	
barrier		25 15-30	7-Nov-13	10.5	10
barrier		25 15-30	7-Nov-13	26 25-30	
barrier		27 15-30	8-Nov-13	19 15-20	
barrier		27 15-30	8-Nov-13	15.5 15-20	
barrier		24 15-30	8-Nov-13	31 >30	
barrier		24 15-30	8-Nov-13	20.3 20-25	
barrier		15 15-30	9-Nov-13	21.7 20-25	
barrier		15 15-30	9-Nov-13	15.8 15-20	
barrier		30 30-45	9-Nov-13	30.2 >30	
barrier		30 30-45	9-Nov-13	29.9 25-30	
barrier		26 15-30	###	30.5 >30	
barrier		30 30-45	###	29 25-30	
atoll		21 15-30	###	24.5 20-25	
atoll		21 15-30	###	19.5 15-20	
atoll		32 30-45	###	30 25-30	
atoll		32 30-45	###	24.8 20-25	
atoll		27 15-30	###	25.5 25-30	
atoll		30 30-45	###	29.5 25-30	
atoll		32 30-45	###	14.5 10-15	
atoll		18 15-30	###	25.8 25-30	
atoll		23 15-30	###	29.2 25-30	
atoll		23 15-30	###	10.5	10
atoll		26 15-30	###	25.5 25-30	

atoll		26 15-30	###	25.4 25-30	
atoll		26 15-30	###	15.4 15-20	
atoll		41 30-45	###	20.9 20-25	
atoll		41 30-45	###	21 20-25	
atoll		41 30-45	###	15.9 15-20	
atoll		41 30-45	###	15.8 15-20	
atoll		41 30-45	###	10.5	10
atoll	.	.	###	11.1	10
atoll	.	.	###	10.3	10
atoll	.	.	###	10.5	10
atoll	.	.	###	10.2	10
atoll	.	.	###	9.6	10
atoll	.	.	###	10.1	10
atoll	.	.	###	10.5	10
atoll	.	.	###	11.1	10
atoll	.	.	###	10.3	10
atoll	.	.	###	10.5	10
atoll	.	.	###	10.2	10
atoll	.	.	###	9.6	10
atoll	.	.	###	10.1	10
atoll	.	.	###	10.5	10
See "environmental data"				14.91643	
worksheet				6.475206	
				0.55	

18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
08:45 <10:00		23.9 23.5-24	35.2
09:00 <10:00		23.9 23.5-24	35.2
09:02 <10:00		23.9 23.5-24	35.2
09:07 <10:00		23.9 23.5-24	35.2
09:12 <10:00		23.9 23.5-24	35.2
09:22 <10:00		23.9 23.5-24	35.2
11:24 10:00-14:00		24.0 23.5-24	35.3
11:30 10:00-14:00		24.2 24-24.5	35.3
11:37 10:00-14:00		24.2 24-24.5	35.3
11:41 10:00-14:00		24.2 24-24.5	35.3
11:50 10:00-14:00		24.2 24-24.5	35.3
11:54 10:00-14:00		24.2 24-24.5	35.3
11:57 10:00-14:00		24.2 24-24.5	35.3
12:00 10:00-14:00		24.2 24-24.5	35.3
12:05 10:00-14:00		24.2 24-24.5	35.3
12:08 10:00-14:00		24.2 24-24.5	35.3
12:10 10:00-14:00		24.2 24-24.5	35.3
18:15 night	.	.	.
18:20 night	.	.	.
18:25 night	.	.	.
18:30 night	.	.	.
18:35 night	.	.	.
18:40 night	.	.	.
18:45 night	.	.	.
18:50 night	.	.	.
18:55 night	.	.	.
19:00 night	.	.	.
11:40 10:00-14:00	.	.	.
11:45 10:00-14:00	.	.	.
11:50 10:00-14:00	.	.	.
11:55 10:00-14:00	.	.	.
11:58 10:00-14:00	.	.	.
12:02 10:00-14:00	.	.	.
12:08 10:00-14:00	.	.	.
12:12 10:00-14:00	.	.	.
12:18 10:00-14:00	.	.	.
18:20 night	.	.	.
18:25 night	.	.	.
18:30 night	.	.	.

18:35 night	.	.	.
18:40 night	.	.	.
18:45 night	.	.	.
18:50 night	.	.	.
18:55 night	.	.	.
19:00 night	.	.	.
08:45 <10:00	24.7	24.5-25	34.4
08:55 <10:00	24.7	24.5-25	34.4
09:05 <10:00	24.7	24.5-25	34.4
10:40 10:00-14:00	24.3	24-24.5	35.3
10:45 10:00-14:00	24.3	24-24.5	35.3
11:00 10:00-14:00	24.3	24-24.5	35.3
11:07 10:00-14:00	24.3	24-24.5	35.3
14:50 14:00-18:00	25.1	25-25.5	35.2
15:00 14:00-18:00	25.1	25-25.5	35.2
15:10 14:00-18:00	25.1	25-25.5	35.2
08:51 <10:00	25.7	25.5-26	35.2
09:02 <10:00	25.7	25.5-26	35.2
09:10 <10:00	25.7	25.5-26	35.2
10:57 10:00-14:00	25.7	25.5-26	35.2
09:12 <10:00	25.4	25-25.5	35.2
09:39 <10:00	25.4	25-25.5	35.2
11:20 10:00-14:00	25.5	25.5-26	35.2
11:40 10:00-14:00	25.5	25.5-26	35.2
10:32 10:00-14:00	25.3	25-25.5	35.2
10:40 10:00-14:00	25.3	25-25.5	35.2
12:20 10:00-14:00	25.3	25-25.5	35.3
12:25 10:00-14:00	25.3	25-25.5	35.3
08:40 <10:00	25.6	25.5-26	35.1
10:55 10:00-14:00	25.7	25.5-26	35.2
08:26 <10:00	25.5	25.5-26	35.2
08:40 <10:00	25.5	25.5-26	35.2
10:25 10:00-14:00	25.6	25.5-26	35.1
10:35 10:00-14:00	25.6	25.5-26	35.1
08:50 <10:00	26.1	>26	35.1
10:45 10:00-14:00	25.9	25.5-26	35.1
15:25 14:00-18:00	26.1	>26	35.1
09:57 <10:00	26.0	>26	34.9
11:48 10:00-14:00	26.3	>26	35.1
12:10 10:00-14:00	26.3	>26	35.1
15:45 14:00-18:00	26.3	>26	35.1

16:05 14:00-18:00		26.3 >26	35.1
16:15 14:00-18:00		26.3 >26	35.1
09:02 <10:00		25.8 25.5-26	35.2
09:08 <10:00		25.8 25.5-26	35.2
09:14 <10:00		25.8 25.5-26	35.2
09:19 <10:00		25.8 25.5-26	35.2
09:35 <10:00		25.8 25.5-26	35.2
12:02 10:00-14:00	.	.	.
12:06 10:00-14:00	.	.	.
12:12 10:00-14:00	.	.	.
12:16
12:25 10:00-14:00	.	.	.
12:30 10:00-14:00	.	.	.
12:35 10:00-14:00	.	.	.
18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
18:00-19:00 night	.	.	.
collection temperatur		24.9	collection salinit 35.2
		0.8	0.2
		0.09	0.02

mORF sequence <i>Symbiodinium</i>				
host	NCBI accession	assemblage	color	polyps expanded?
<i>P. damicornis</i>	KU881840	clade C only	normal	.
<i>P. damicornis</i>	KU881841	clades A+C	normal	.
<i>P. damicornis</i>	KU881842	clade C only	blue	.
<i>P. damicornis</i>	KU881843	.	normal	.
<i>P. damicornis</i>	KU881844	clades A+C	pale	no
<i>P. damicornis</i>	KU881845	clade C only	bleached	no
<i>P. damicornis</i>	KU881846	clade C only	pale	yes
<i>P. damicornis</i>	KU881847	clade C only	purple	.
<i>P. damicornis</i>	KU881848	clade C only	green	yes
<i>P. damicornis</i>	KU881849	clade C only	green	no
<i>P. damicornis</i>	KU881850	clades A+C	normal	.
<i>P. damicornis</i>	KU881851	clade C only	blue	.
<i>P. damicornis</i>	KU881852	clade C only	normal	yes
<i>P. damicornis</i>	KU881853	clade C only	purple	yes
<i>P. damicornis</i>	KU881854	clades A+C	normal	.
<i>P. damicornis</i>	KU881855	clade C only	pale	no
<i>P. damicornis</i>	KU881856	clades A+C	purple	no
<i>P. damicornis</i>	KU881857	clade C only	normal	yes
<i>P. damicornis</i>	KU881858	clade C only	purple	no
<i>P. damicornis</i>	KU881859	clades A+C	normal	.
<i>P. damicornis</i>	KU881860	clade C only	normal	no
<i>P. damicornis</i>	KU881861	clade C only	normal	yes
<i>P. damicornis</i>	KU881862	clade C only	pale	yes
<i>P. damicornis</i>	KU881863	clade C only	pale	yes
<i>P. damicornis</i>	KU881864	clade C only	normal	yes
<i>P. damicornis</i>	KU881865	clade C only	normal	yes
<i>P. damicornis</i>	KU881866	clade C only	green	yes
<i>P. damicornis</i>	KU881867	clade C only	normal	yes
<i>P. damicornis</i>	KU881868	clade C only	normal	yes
<i>P. damicornis</i>	KU881859	clades A+C	normal	.
<i>P. damicornis</i>	KU881860	clade C only	normal	no
<i>P. damicornis</i>	KU881861	clade C only	normal	yes
<i>P. damicornis</i>	KU881862	clade C only	pale	yes
<i>P. damicornis</i>	KU881863	clade C only	pale	yes
<i>P. damicornis</i>	KU881864	clade C only	normal	yes
<i>P. damicornis</i>	KU881865	clade C only	normal	yes
<i>P. damicornis</i>	KU881866	clade C only	green	yes

<i>P. damicornis</i>	KU881867	clade C only	normal	yes
<i>P. damicornis</i>	KU881868	clade C only	normal	yes
<i>P. damicornis</i>	KU881834	.	normal	no
<i>P. damicornis</i>	KU881835	clades A+C	purple	yes
<i>P. damicornis</i>	KU881836	clades A+C	purple	.
did not extract nucleic acids or proteins			normal	yes
<i>P. damicornis</i>	KU881837	clades A+C	normal	yes
<i>P. damicornis</i>	KU881838	clade C only	purple	yes
<i>P. damicornis</i>	KU881839	clade C only	normal	.
<i>P. damicornis</i>	KU881869	clades A+C	very pale	no
<i>P. damicornis</i>	KU881870		normal	yes
<i>P. damicornis</i>	KU881871	clades A+C	purple	yes
<i>P. damicornis</i>	KU881872		normal	yes
<i>P. damicornis</i>	KU881873	clades A+C	normal	yes
<i>P. damicornis</i>	KU881874		normal	.
<i>P. damicornis</i>	KU881875	clade C only	purple	no
<i>P. damicornis</i>	KU881876	clade C only	normal	yes
<i>P. damicornis</i>	KU881877	clade C only	purple	no
<i>P. damicornis</i>	KU881878	clades A+C	normal	.
<i>P. damicornis</i>	KU881869	clades A+C	very pale	no
<i>P. damicornis</i>	KU881870	clade C only	normal	yes
<i>P. damicornis</i>	KU881871	clades A+C	purple	yes
<i>P. damicornis</i>	KU881872	clade C only	normal	yes
<i>P. damicornis</i>	KU881873	clades A+C	normal	yes
<i>P. damicornis</i>	KU881874	clade C only	normal	.
<i>P. damicornis</i>	KU881875	clade C only	purple	no
<i>P. damicornis</i>	KU881876	clade C only	normal	yes
<i>P. damicornis</i>	KU881877	clade C only	purple	no
<i>P. damicornis</i>	KU881878		normal	.
<i>P. damicornis</i>	KU881879	clades A+C	purple	.
<i>P. damicornis</i>	KU881880	clades A+C	normal	no
<i>P. damicornis</i>	KU881881	clades A+C	green	no
<i>P. damicornis</i>	KU881882	clade C only	normal	yes
<i>P. damicornis</i>	KU881883	clade C only	normal	no
<i>P. damicornis</i>	KU881884	.	normal	yes
<i>P. damicornis</i>	KU881885	clade C only	green	no
<i>P. damicornis</i>	KU881886	clade C only	green	no
<i>P. damicornis</i>	KU881887	clade C only	normal	yes
<i>P. damicornis</i>	KU881879	clades A+C	purple	.
<i>P. damicornis</i>	KU881880	clades A+C	normal	no
<i>P. damicornis</i>	KU881881	clades A+C	green	no

<i>P. damicornis</i>	KU881882	clade C only	normal	yes
<i>P. damicornis</i>	KU881883	clade C only	normal	no
<i>P. damicornis</i>	KU881884	.	normal	yes
<i>P. damicornis</i>	KU881885	clade C only	green	no
<i>P. damicornis</i>	KU881886		green	no
<i>P. damicornis</i>	KU881887	clade C only	normal	yes
<i>P. acuta</i>	KU881822	clades A+C	very pale	no
<i>P. acuta</i>	KU881823	clades A+C	pale	no
<i>P. acuta</i>	KU881803	clades A+C	very pale	.
<i>P. acuta</i>	KU881804		very pale	yes
<i>P. acuta</i>	KU881805	clade C only	very pale	yes
<i>P. acuta</i>	KU881806	clade C only	bleached	yes
<i>P. acuta</i>	KU881807	clades A+C	bleached	.
<i>P. acuta</i>	KU881819	clades A+C	bleached	yes
<i>P. acuta</i>	KU881820	clade C only	pale	.
<i>P. acuta</i>	KU881821	clade C only	normal	no
<i>P. damicornis</i>	KU881824	clade C only	normal	yes
<i>P. damicornis</i>	KU881825	.	normal	yes
<i>P. damicornis</i>	KU881826	clades A+C	normal	no
<i>P. acuta</i>	KU881808		very pale	yes
<i>P. acuta</i>	KU881809	clade C only	very pale	yes
not genotyped	not genotyped		normal	yes
<i>P. damicornis</i>	KU881827	clade C only	normal	.
<i>P. damicornis</i>	KU881828	clades A+C	blue	yes
<i>P. damicornis</i>	KU881829	clade C only	normal	yes
<i>P. damicornis</i>	KU881830	clade C only	purple	.
<i>P. acuta</i>	KU881810	clade C only	very pale	yes
<i>P. damicornis</i>	KU881831	clades A+C	normal	.
<i>P. damicornis</i>	KU881832	clade C only	normal	.
<i>P. acuta</i>	KU881811	clade C only	normal	yes
<i>P. damicornis</i>	KU881888	clades A+C	normal	no
<i>P. damicornis</i>	KU881889	clades A+C	normal	no
<i>P. damicornis</i>	KU881890	clades A+C	normal	.
<i>P. damicornis</i>	KU881891	clade C only	normal	.
<i>P. damicornis</i>	KU881892		pale	no
<i>P. acuta</i>	KU881812	clades A+C	very pale	yes
<i>P. acuta</i>	KU881813	clades A+C	normal	yes
<i>P. damicornis</i>	KU881833	clade C only	normal	yes
<i>P. acuta</i>	KU881814	clade C only	very pale	.
<i>P. acuta</i>	KU881815	clades A+C	very pale	.
<i>P. acuta</i>	KU881816	clades A+C	pale	.

<i>P. acuta</i>	KU881817	clade C only	normal	yes
<i>P. acuta</i>	KU881818	.	very pale	.
<i>P. damicornis</i>	KU881893	clade C only	purple	yes
not genotyped		clade C only	normal	no
<i>P. damicornis</i>	KU881894	clade C only	normal	yes
<i>P. damicornis</i>	KU881895	clade C only	normal	yes
<i>P. damicornis</i>	KU881896	clade C only	normal	.
<i>P. damicornis</i>	KU881897	clades A+C	very pale	yes
<i>P. damicornis</i>	KU881898	clade C only	normal	yes
<i>P. damicornis</i>	KU881899	clades A+C	purple	yes
<i>P. damicornis</i>	KU881900	clade C only	purple	yes
<i>P. damicornis</i>	KU881901	clade C only	very pale	.
<i>P. damicornis</i>	KU881902	clade C only	very pale	yes
<i>P. damicornis</i>	KU881903	clade C only	normal	yes
<i>P. damicornis</i>	KU881897	clades A+C	very pale	yes
<i>P. damicornis</i>	KU881898	clade C only	normal	yes
<i>P. damicornis</i>	KU881899	clades A+C	purple	yes
<i>P. damicornis</i>	KU881900	clade C only	purple	yes
<i>P. damicornis</i>	KU881901	clade C only	very pale	.
<i>P. damicornis</i>	KU881902	clade C only	very pale	yes
<i>P. damicornis</i>	KU881903	clade C only	normal	yes

MOLECULAR PHYSIOLOGICAL RESPONSE VARIABLE		<i>Symbiodinium</i> genome	
max. length (cm)	planar surface area (cm ²)	RNA/DNA	copy proportion (GCP) x 10 ⁴
.	.	0.2	4.4
.	.	0.9	16
.	.	1.4	3.6
25	292	0.3	6.6
9	50	0.3	12
.	.	1.0	11
19	256	1.7	0.63
17	182	1.1	2.7
23	290	2.4	2.5
18	161	3.6	0.6
19	212	1.8	5.2
17	157	1.2	1.9
15	128	2.5	1.3
27	317	2.3	8.5
12	68	1.6	4.2
8.5	50	1.3	8.7
16	120	1.3	3.1
28	452	0.9	6.7
18	124	0.3	2.8
17	175	2.1	4.5
21	247	1.5	4.9
19	216	1.3	1
21	257	1.1	4
23	280	3.3	0.3
24	252	0.8	4.5
.	.	1.3	2.8
.	.	2.7	2.1
23	351	1.2	22
24	325	0.8	4.6
17	175	0.1 sample was not processed for	
21	247	0.8	1.6
19	216	1.1	2
21	257	2.1	17
23	280	2.4	2.2
24	252	0.6	3.9
.	.		2.4
.	.	2.1	0.48

23	351	3.6	1.3
24	325	1.3	4.8
28	255	1.7	1.3
17	127	1.0	4
9	53	0.8	7.3
24	230 sample was not selected for macromolecula		
14	80	1.2	2.5
20	172	1.1	2.5
29	442	1.0	18
19	137	1.6	0.52
19	203 sample was not selected for macromolecula		
21	242 sample was not selected for macromolecula		
25	375 sample was not selected for macromolecula		
18	172 sample was not selected for macromolecula		
15.5	135	2.1	1.7
18	131	4.1	0.72
15	119	1.1	0.44
11	60	1.4	4.5
19	137	1.2	0.79
19	203	1.0	0.51
21	242	2.1	0.72
25	375	1.2	4.4
18	172	3.1	0.6
		1.7	3
15.5	135	1.5	2.8
18	131	1.6	12
15	119	1.5	1.4
11	60 sample was not selected for macromolecula		
15	137	0.9	0.83
31	270	5.8	0.41
28	520	1.4	6.3
44	809	0.9	5.4
23	176	0.9	4.5
29	700	0.1 sample was not processed fo	
22	234	2.0	4.3
34	513	2.7	9.6
26	366	0.9	1.6
		1.1	8.3
31	270	3.6	1.1
28	520	1.4	3.9

44	809	2.2	1.7
23	176	0.8	2.4
29	700	1.5	9.3
22	234	1.5	3.3
34	513		
26	366	1.5	1.2
13	97	1.2	14
18	124	3.8	8.5
13	91	1.5	21
22	166	0.2	4.5
22	252	3.0	1.5
16	130	0.8	3.2
31	401	0.9	9.6
.	.	2.6	13
22	300	0.7	17
23	271	0.9	17
23	288	1.1	1.6
14	97	2.0	24
16	122	1.4	4.5
11	54	2.5 sample was not processed fo	
11	63	1.3	6.3
13	70	sample was not processed fo	
16	137	0.7	5.3
22	202	0.7	3.6
21	118	1.5	5.1
.	.	1.6	17
16	125	2.7	9
.	.	1.9	2.4
.	.	2.7	3.7
23	178	1.9	9.4
38	430	1.0	3.2
33	408	0.5	0.59
17	135	0.8	9.3
31	535	1.7	0.76
19	149		12
17	92	2.1	19
17	141	3.5	
17	170	0.5	2.4
14	49	1.6	3.5
12	64	1.8	4.4
14	117	0.9	17

19	200	0.7	8.1
11	63	6.9	1.6
		1.5	0.79
21	264	1.1	1.1
16	103	1.0	1.8
20	114	1.6	5.1
19	144	2.3	2.3
30	360	0.2	2
22	176	0.2	1.6
25	174	4.9	0.3
16	98	1.6	This sample was analyzed but r
13	79	2.3	1.3
15	78	1.0	4.6
		0.6	2
30	360	1.4	2
22	176	1.9	0.74
25	174	3.8	0.97
16	98	0.9	This sample was analyzed bu
13	79	1.7	10.4
15	78	1.3	1.7
		0.8	0.59
20.5860655738	223.5983606557	1.6072985414	5.15992
6.6611283333	152.9564114346	1.080682277	5.2736631842
0.6	14	0.1	0.47

8.5	49	0.1	0.3
44	809	6.9	24.0
32.4	68.4	67.2	102.2

118.0 avg. coefficient of variation

134.0 avg. coefficient of variation for MSR/V only

SYMBIODINIUM GENE EXPRESSION **HOST CORAL GENE EXPRESSION**

Sym *rbcl* Sym *zif1l* Sym *ubiq-lig* Sym *hsp90* host *ca* host *lectin* host *cu-zn-sod*

18400	1096	524	14.8	415	70.1	28.5
662000	11900	15300	613	53300	5810	2590
91800	6590	3450	310	5000	462	184
18500	1460	318	36.8	382	409	85.1
318000	1560	2370	147	5970	449	365
31300	1450	1320	87.8	794	190	228
1970000	258000	81200	4290	5190	1100	1360
634000	18900	16400	600	8030	173	604
355000	20700	15700	1020	3570	1240	576
1430000	56400	105000	8620	69500	2800	2800
650000	9260	14400	1000	11900	373	1800
60800	5130	1510	156	5130	486	306
3070000	98300	74500	3750	14800	1850	1610
70000	10300	1510	142	4080	868	293
600000	228000	14900	412	17900	1230	869
33500	7990	999	62	5150	177	194
987000	333000	18500	708	135000	1600	3130
813000	18400	42300	2230	80700	3180	2100
400000	37900	15700	1480	23800	1100	695
213000	5930	9630	845	24300	3330	446
52200	564	1790	49.5	8820	144	95.2
1530000	46800	41700	1920	25700	3360	2790
98800	3630	3460	205	866	1120	464
634000	427000	229000	24700	29500	8600	4300
338000	30600	20600	865	77000	3250	3030
1880000	21700	72200	3170	58700	9900	3190
2880000	80200	59400	4230	46100	1440	3540
36700	644	615	47	1740	217	511
122000	8790	3920	344	316	147	407
or additional molecular physiological response variables due to the low quality and yield of						
374000	1530	7190	446	3680	2320	3280
218000	1520	3910	385	8010	3330	467
634000	4170	124	1400	2950	1340	704
634000	2820	6050	1480	29500	1050	1290
188000	4070	9790	493	385	385	1610
363000	1120	9640	808	4710	1910	331
634000	79200	138000	9830	27400	1270	4120

634000	9990	20400	1100	18600	701	2120
634000	1030	5810	487	29500	186	726
164000	56500	12300	939	12600	201	221
521000	39200	24100	921	116000	1070	1410
235000	120000	11400	524	138000	1750	4320

r extractions

371000 186000 36000 1950 229000 447 1960

1520000 61300 41400 1620 34400 1390 2010

634000 2490 2270 204 25700 1570 1250

10100000 470000 373000 20600 138000 6690 3420

r extractions

r extractions

r extractions

r extractions

r extractions

254000 5880 5240 410 31100 211 2280

7610000 238000 314000 15100 155000 3430 4740

1220000 26300 26900 2150 3860 2610 2670

634000 71900 45300 2030 173000 436 2900

634000 52400 35400 1290 29500 2160 2540

2260000 62900 97600 6200 3190 2360 3270

2320000 42600 95500 4600 3200 2110 2990

634000 1870 13900 926 831 870 1290

3670000 23900 112000 6060 18900 4420 1130

4530000 107000 115000 9860 5710 3200 3430

1300000 28000 61500 3810 109000 2210 6530

5710000 11900 66000 9860 15800 1760 2920

1340000 27000 78200 3350 1570 3620 2080

r extractions

822000 38100 19900 1520 16800 776 3400

663000 251000 289000 11500 44400 3840 2710

643000 22500 35800 2220 54200 4080 4080

748000 16500 38900 2200 45700 4330 4330

did not assess gene expression for this sample

r additional molecular physiological response variables due to the low quality and yield of

356000 14000 8230 774 45500 9900 4730

2920000 85200 64600 6980 112000 878 4040

2180000 89900 83900 4970 80100 655 4670

307000 7440 3810 366 4370 534 705

634000 1800 72700 3660 1080 7550 2380

634000 1440 44000 2860 40100 6310 3380

634000	5630	73100	5990	7090	9580	2850
634000	1660	44300	3080	29500	956	1320
146000	328	11000	651	117000	3050	1460
749000	1400	20900	2010	20400	24000	3520
740000	5650	12100	1440	5520	274	644
192000	35500	2170	169	77900	271	3770
634000	32600	1290	110	24700	101	930
214000	66000	3940	228	37000	364	4220
6250000	87000	110000	7120	27400	696	4420
2440000	71300	73000	4030	43900	1500	4560
2070000	67600	38800	2350	88200	888	6790
46700	5210	783	104	9490	747	1210
634000	1650	3880	310	59200	544	4560
23100	227	352	35.5	1200	2510	369
14200	4080	222	14.8	1410	2400	150
1120000	172000	10700	460	37400	927	1250
24700	3090	658	43.7	13300	119	314
634000	104000	8580	359	30600	912	1780
r additional molecular physiological response variables due to the low quality and yield of						
572000	28400	11800	494	53000	1090	908
r additional molecular physiological response variables due to the low quality and yield of						
57500	13100	3200	262	2790	220	419
634000	15900	2870	191	17800	496	254
1140000	140000	21500	608	117000	3670	2980
62200	18300	1170	93.6	10000	772	336
634000	11500	6760	607	14200	885	3620
1750000	7310	14600	950	3650	617	122
1220000	133000	11800	579	68100	2080	2130
365000	12200	5570	397	10600	2850	214
32300	12800	429	33.6	1010	112	50.1
sample was not processed for additional molecular physiological response variables due						
46100	1510	1040	56.3	16500	695	178
301000	32000	7290	583	21600	2090	1860
sample was not processed for additional molecular physiological response variables due						
634000	4200	3330	133	86600	2580	2300
sample was not processed for additional molecular physiological response variables due						
160000	6150	4250	263	1160	610	284
634000	17500	6650	432	57000	831	775
634000	41100	26200	1480	29500	2040	1700

31800	905	670	72.4	1610	2280	453
1600000	13700	16500	1440	108000	180	3300
634000	30500	5400	519	58300	3100	870
1280000	215000	32400	937	43700	1720	609
142000	23500	1310	132	6000	462	136
110000	14300	2160	161	3840	2010	182
967000	220000	10700	418	4490	2300	315
1820000	22600	37500	167	73300	5770	2890

RNA extraction failed

634000	104000	41400	1990	29500	1290	576
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not considered in statistical analyses since it may have been inadvertently switched with sample

968000	44800	17400	679	44800	1400	1760
5290	12100	39.4	7.77	371	1260	25.4
1820000	22600	37500	167	73300	5770	2890

Gene expression was not analyzed for this sample.

1800000	41600	20800	1000	22800	2210	1640
1010000	118000	10900	760	44700	1970	1010

it not considered in statistical analyses since it may have been inadvertently switched with

4520000	107000	38700	2820	21700	2010	1420
1020000	13500	12600	311	88000	3890	1730
4960000	45600	135000	535	110000	6250	2110

1086360.42	52355.16	35816.75126	2148.92076	37085.1	2220.8748	1892.33865546
1553121.15	82785.303	59863.30504	3786.3729	43038.8	2919.7059	1541.54112746
142400	7590	5490	347	3950	268	141

5290.0	227.0	39.4	7.8	316.0	70.1	25.4
10100000.0	470000.0	373000.0	24700.0	###	24000.0	6790.0
143.0	158.1	167.1	176.2	116.1	131.5	81.5

A sample was considered an outlier when its Mahalanobis distance was above the upper control limit of 4.2 and its heat map score was greater than or equal to 2.

OUTLIER ANALYSIS (the 10 outliers have been highlighted in blue)

host <i>gfp-cp</i>	Mahalanobis Distance	heat map score	outlier?	variability index
111000	2	0	no	0.4
70400	2.8	0	no	0.9
74600	1.4	0	no	0.3
14700	1.7	0	no	0.4
12500	1.9	0	no	0.6
8980	1.6	0	no	0.6
10900	3.7	1	no	1
40500	1.4	0	no	0.2
1490	1.5	0	no	0.4
253000	3.4	0	no	0.8
24400	1.2	0	no	0.3
86000	1.5	0	no	0.2
79800	2.0	0	no	0.6
27100	1.5	0	no	0.5
96800	3.6	0	no	0.8
68500	1.4	0	no	0.5
580000	6.0	2	yes	1.6
104000	1.9	0	no	0.5
182000	1.9	0	no	0.5
25400	1.5	0	no	0.4
2150	1.4	0	no	0.3
45700	1.6	0	no	0.4
124	1.3	0	no	0.2
22200	8.9	3	yes	2.3
125000	1.7	0	no	0.5
31400	3	1	no	0.9
55400	2.4	0	no	0.6
9180	3.5	0	no	1.2
36000	1.4	0	no	0.2
the extracted RNA				
34600	2.4	0	no	0.5
13600	1.6	0	no	0.2
6320	2.5	0	no	0.9
29100	1.8	0	no	0.4
12900	1.8	0	no	0.3
2250	2	0	no	0.4
15000	4	0	no	1



14100	2.4	0 no	0.7
43400	1.3	0 no	0.2
16200	1.6	0 no	0.3
153000	2.8	0 no	0.7
449000	3.8	1 no	1.3

112000	5.8	1 yes	1.6
398000	2.7	0 no	0.8
167000	2.7	0 no	0.9
200000	7.4	4 yes	2.5

328000	2.6	0 no	0.7
579000	5.9	6 yes	1.7
326000	2.6	0 no	0.7
489000	4.5	2 yes	1.3
22800	1.8	0 no	0.4
182000	2.4	0 no	0.8
400000	3.3	1 no	0.9
3320	1.3	0 no	0.2
230000	3.3	0 no	0.9
410000	3.9	1 no	1.1
492000	4.1	2 no	1.3
303000	5.9	1 no	1.2
343000	3.1	0 no	0.8

281000	2.5	0 no	0.7
15700	7.8	4 yes	1.8
58100	2	0 no	0.6
35400	2.4	0 no	0.7

the extracted RNA

36900	3.6	1 no	1.1
115000	3.6	0 no	0.7
279000	2.6	0 no	0.9
40200	1.1	0 no	0.4
1140	3.1	0 no	1
26400	2	0 no	0.7

4790	3.2	1 yes	1
23200	2.1	0 no	0.3
15000	3.2	0 no	0.8
18600	8	1 yes	2.5
84400	1.6	0 no	0.3
9300	2.9	0 no	0.9
6480	2.6	0 no	0.8
21300	4.3	1 yes	1.2
126000	4.8	1 yes	1.3
66500	2.8	0 no	0.7
261000	4	1 no	1.2
29400	1.3	0 no	0.5
17400	3.3	0 no	0.9
21000	2.6	0 no	0.9
31200	2.6	0 no	0.9
16300	2.8	0 no	0.6
14900	3.9	0 no	1.3
323000	2.5	0 no	0.7
the extracted DNA			
56800	1.2	0 no	0.3
the extracted DNA			
33800	1.4	0 no	0.3
98400	1.5	0 no	0.3
37000	2.8	0 no	0.8
92100	2.5	0 no	0.9
49300	2.6	0 no	0.7
14000	2	0 no	0.5
4350	2.5	0 no	0.6
5440	1.5	0 no	0.6
7540	1.6	0 no	0.2
to the low quality and yield of the extracted RNA			
23800	1.5	0 no	0.5
1700	1.5	0 no	0.3
to the low quality and yield of the extracted RNA			
92800	3.1	0 no	1
to the low quality and yield of the extracted RNA			
34800	1.3	0 no	0.3
11600	1.7	0 no	0.4
88000	2.3	0 no	1.1

5750	1.4	0 no	0.5
29700	5.8	1 yes	0.5
218000	2.3	0 no	0.6
55100	2.2	0 no	0.6
298	3.2	0 no	0.8
1530	1.7	0 no	0.2
426	1.2	0 no	0.4
29100	3.9	0 no	0.9

234000	5.8	1 no	1.6
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101-D.

192000	3.2	0 no	0.8
2970	3.7	0 no	0.8
29100	3.9	0 no	0.9

58800	1.6	0 no	0.4
205000	4	0 no	1.1

sample 101.

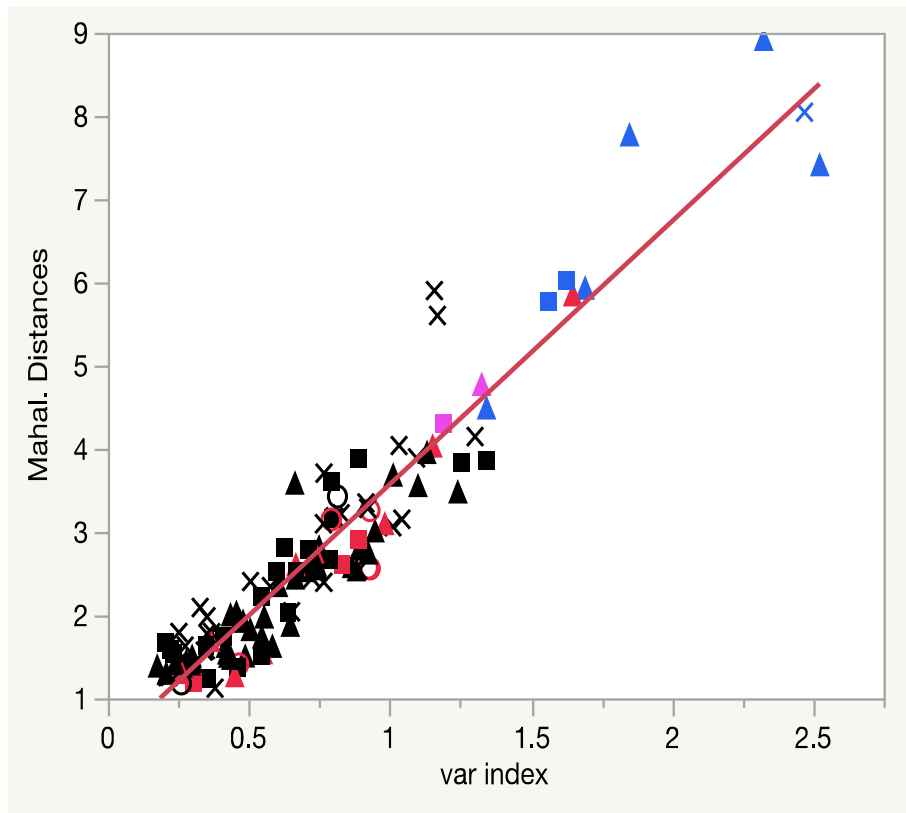
144000	1.5	0 no	0.4
43000	1.4	0 no	0.3
23300	5.6	0 no	1.2

99797.7143	2.7994962433	0.3193277311	0.7478991597
133482.308	1.5449256338	0.8823386981	0.4533956142
12200	0.14	0.08	0.04

124.0	1.1	0.0	0.2
580000.0	8.9	6.0	2.5
133.8	55.2	276.3.	60.6

ove the The heat map score was calculated by adding the response variables for
o 1. which the z-value was above 3.

notes



although technically an outlier, the aberrant RNA/DNA ratio was likely due to an issu



ie with the DNA extraction.



outliers have been highlighted in blue

z-score: (sample v
RNA/DNA z-score:

sample number	Island	site	z-score: (sample v RNA/DNA z-score:
NC1	Ile des Pins	NCPI01	-1.39
NC2	Ile des Pins	NCPI01	-0.73
NC3	Ile des Pins	NCPI01	-0.25
NC4	Ile des Pins	NCPI01	-1.26
NC5	Ile des Pins	NCPI01	-1.22
NC6	Ile des Pins	NCPI01	-0.63
NC7	Ile des Pins	NCPI01	0.02
NC8	Ile des Pins	NCPI01	-0.53
NC9	Ile des Pins	NCPI01	0.66
NC10	Ile des Pins	NCPI02	1.76
NC11	Ile des Pins	NCPI02	0.11
NC12	Ile des Pins	NCPI04	-0.43
NC13	Ile des Pins	NCPI04	0.76
NC14	Ile des Pins	NCPI04	0.57
NC15	Ile des Pins	NCPI04	-0.07
NC16	Ile des Pins	NCPI04	-0.34
NC17	Ile des Pins	NCPI04	-0.34
NC18	Ile des Pins	NCPI05	-0.74
NC19	Ile des Pins	NCPI05	-1.29
NC20	Ile des Pins	NCPI night dive 1	0.39
NC21	Ile des Pins	NCPI night dive 1	-0.16
NC21-D	Ile des Pins	NCPI night dive 1	-0.76
NC22	Ile des Pins	NCPI night dive 1	-0.34
NC22-D	Ile des Pins	NCPI night dive 1	-0.53
NC23	Ile des Pins	NCPI night dive 1	-0.53
NC23-D	Ile des Pins	NCPI night dive 1	0.39
NC24	Ile des Pins	NCPI night dive 1	1.49
NC24-D	Ile des Pins	NCPI night dive 1	0.66
NC25	Ile des Pins	NCPI night dive 1	-0.77
NC25-D	Ile des Pins	NCPI night dive 1	-1.01
NC26	Ile des Pins	NCPI night dive 1	-0.34
NC26-D	Ile des Pins	NCPI night dive 1	-1.34
NC27	Ile des Pins	NCPI night dive 1	0.94
NC27-D	Ile des Pins	NCPI night dive 1	0.39
NC28	Ile des Pins	NCPI night dive 1	-0.43
NC28-D	Ile des Pins	NCPI night dive 1	1.76
NC29	Ile des Pins	NCPI night dive 1	-0.78
NC29-D	Ile des Pins	NCPI night dive 1	-0.34
NC30	Neulka	NCNE10	0.02
NC31	Neulka	NCNE10	-0.62
NC32	Neulka	NCNE10	-0.83

NC34	Neulka	NCNE10	-0.43
NC35	Neulka	NCNE10	-0.53
NC36	Neulka	NCNE11	-0.62
NC37	Ile des Pins	NCPI15 (night dive 2)	-0.07
NC37-D	Ile des Pins	NCPI15 (night dive 2)	-0.43
NC38-D	Ile des Pins	NCPI15 (night dive 2)	-0.62
NC39-D	Ile des Pins	NCPI15 (night dive 2)	0.39
NC40-D	Ile des Pins	NCPI15 (night dive 2)	-0.43
NC41-D	Ile des Pins	NCPI15 (night dive 2)	1.31
NC42-D	Ile des Pins	NCPI15 (night dive 2)	0.02
NC43	Ile des Pins	NCPI15 (night dive 2)	0.39
NC43-D	Ile des Pins	NCPI15 (night dive 2)	-0.16
NC44	Ile des Pins	NCPI15 (night dive 2)	2.22
NC44-D	Ile des Pins	NCPI15 (night dive 2)	-0.07
NC45	Ile des Pins	NCPI15 (night dive 2)	-0.53
NC45-D	Ile des Pins	NCPI15 (night dive 2)	-0.16
NC46	Ile des Pins	NCPI15 (night dive 2)	-0.25
NC47	Ile des Pins	NCPI night dive 3	-0.68
NC47-D	Ile des Pins	NCPI night dive 3	-0.53
NC48	Ile des Pins	NCPI night dive 3	3.78
NC48-D	Ile des Pins	NCPI night dive 3	1.76
NC49	Ile des Pins	NCPI night dive 3	-0.25
NC49-D	Ile des Pins	NCPI night dive 3	-0.25
NC50	Ile des Pins	NCPI night dive 3	-0.71
NC50-D	Ile des Pins	NCPI night dive 3	0.48
NC51-D	Ile des Pins	NCPI night dive 3	-0.76
NC52-D	Ile des Pins	NCPI night dive 3	-0.16
NC53	Ile des Pins	NCPI night dive 3	0.30
NC53-D	Ile des Pins	NCPI night dive 3	-0.16
NC54	Ile des Pins	NCPI night dive 3	0.94
NC55	Ile des Pins	NCPI night dive 3	-0.68
NC55-D	Ile des Pins	NCPI night dive 3	-0.16
NC56	Prony Bay	NCPB22	-0.43
NC57	Prony Bay	NCPB22	1.95
NC58	Prony Bay	NCPB22	-0.16
NC59	Prony Bay	NCPB23	-1.33
NC60	Prony Bay	NCPB23	1.21
NC61	Prony Bay	NCPB23	-0.79
NC62	Prony Bay	NCPB23	-0.67
NC63	Pelotas Atoll	NCPE26	0.85
NC64	Pelotas Atoll	NCPE26	-0.93
NC65	Pelotas Atoll	NCPE26	-0.68
NC66	Cook Reef	NCCR27	-0.53

NC67	Cook Reef	NCCR27	0.30
NC68	Cook Reef	NCCR27	-0.25
NC70	Cook Reef	NCCR30	-0.34
NC72	Cook Reef	NCCR31	-0.93
NC73	Cook Reef	NCCR31	-0.89
NC74	Cook Reef	NCCR33	-0.16
NC75	Cook Reef	NCCR33	-0.07
NC76	Cook Reef	NCCR34	0.94
NC77	Cook Reef	NCCR34	0.21
NC78	Cook Reef	NCCR36	0.94
NC79	Cook Reef	NCCR37	0.21
NC80	Portail Atoll	NCPO39	-0.62
NC82	Portail Atoll	NCPO40	-0.79
NC83	Portail Atoll	NCPO40	0.02
NC85	Huon Atoll	NCHU44	0.39
NC86	Huon Atoll	NCHU45	1.67
NC88	Huon Atoll	NCHU47	-0.07
NC89	Huon Atoll	NCHU47	0.11
NC90	Huon Atoll	NCHU57	-0.74
NC91	Huon Atoll	NCHU57	-0.91
NC92	Huon Atoll	NCHU57	4.79
NC93	Surprise Atoll	NCSU61	-0.16
NC94 ^a	Surprise Atoll	NCSU61	-0.53
NC95	Surprise Atoll	NCSU61	-0.62
NC96	Surprise Atoll	NCSU61	-0.07
NC97	Surprise Atoll	NCSU61	0.57
NC98	Surprise Atoll	NCSUND4 (night dive 4	-1.38
NC99-D	Surprise Atoll	NCSUND4 (night dive 4	0.21
NC100	Surprise Atoll	NCSUND4 (night dive 4	2.95
NC100-D	Surprise Atoll	NCSUND4 (night dive 4	1.95
NC102	Surprise Atoll	NCSUND4 (night dive 4	0.57
NC102-D	Surprise Atoll	NCSUND4 (night dive 4	0.02
NC103	Surprise Atoll	NCSUND4 (night dive 4	-0.65
NC103-D	Surprise Atoll	NCSUND4 (night dive 4	-0.34
NC104	Surprise Atoll	NCSUND4 (night dive 4	-0.96
NC104-D	Surprise Atoll	NCSUND4 (night dive 4	1.31

^aexcluded from certain analyses since it was not genotyped.

Excluded samples reason for exclusion

colony 20-D	Low RNA yield.
colony 33	Macromolecules were never extracted.
colony 38	Macromolecules were never extracted.

colony 39	Macromolecules were never extracted.
colony 40	Macromolecules were never extracted.
colony 41	Macromolecules were never extracted.
colony 42	Macromolecules were never extracted.
colony 51	RNA was of low quality (260/280=2.7)
colony 52	Low RNA yield.
colony 54-D	Macromolecules were never extracted.
colony 69	Low DNA yield.
colony 71	DNA extraction failed.
colony 81	Low RNA yield.
colony 84	RNA extraction failed.
colony 87	RNA was of low quality (260/280=2.6).
colony 98-D	Gene expression was not analyzed for this sample.
colony 99	RNA extraction failed.
colony 101	This sample was included in the "sample info" spreadsheet bu
colony 101-D	This sample was included in the "sample info" spreadsheet bu

value-mean value for parameter)/standard deviation of parameter

Sym GCP z-score	Sym <i>hsp90</i> mRNA expression z-score	Sym <i>ubiq-lig</i> mRNA expression z-score
-0.15	-0.57	-0.58
2.09	-0.41	-0.34
-0.30	-0.49	-0.53
0.25	-0.56	-0.59
1.21	-0.53	-0.55
1.07	-0.55	-0.57
-0.87	0.57	0.76
-0.49	-0.41	-0.32
-0.51	-0.30	-0.33
-0.88	1.72	1.17
-0.01	-0.30	-0.35
-0.63	-0.53	-0.57
-0.75	0.43	0.65
0.62	-0.53	-0.57
-0.19	-0.46	-0.34
0.65	-0.55	-0.58
-0.40	-0.38	-0.28
0.28	0.02	0.11
-0.45	-0.18	-0.33
-0.13	-0.35	-0.43
-0.05	-0.56	-0.56
-0.70	-0.45	-0.47
-0.80	-0.06	0.10
-0.62	-0.47	-0.53
-0.24	-0.52	-0.53
2.15	-0.20	-0.59
-0.94	5.98	3.23
-0.57	-0.18	-0.49
-0.13	-0.34	-0.25
-0.26	-0.44	-0.43
-0.47	0.27	0.61
-0.53	-0.36	-0.43
-0.59	0.55	0.40
-0.90	2.04	1.71
3.24	-0.56	-0.58
-0.74	-0.28	-0.25
-0.11	-0.48	-0.53
-0.07	-0.44	-0.50
-0.74	-0.32	-0.39
-0.24	-0.33	-0.19
0.39	-0.43	-0.40

-0.52	-0.05	0.01
-0.52	-0.14	0.10
2.40	-0.52	-0.55
-0.89	4.89	5.63
-0.84	-0.23	0.00
-0.89	1.07	1.04
-0.85	0.65	1.00
-0.15	-0.32	-0.36
-0.88	1.04	1.28
-0.42	2.04	1.33
-0.67	-0.46	-0.51
-0.47	0.44	0.43
-0.86	3.44	4.65
1.21	2.04	0.51
-0.91	0.00	-0.14
-0.72	0.32	0.71
-0.13	-0.03	0.16
-0.83	-0.17	-0.26
0.58	-0.47	-0.53
-0.91	2.49	4.23
-0.79	0.40	0.62
0.20	0.02	0.00
-0.26	0.19	0.14
0.03	0.01	0.06
-0.66	1.02	0.63
-0.54	0.25	0.15
0.78	-0.40	-0.41
-0.17	-0.36	-0.46
-0.36	-0.04	-0.24
0.83	1.28	0.49
-0.69	0.75	0.81
-0.76	-0.19	-0.39
1.64	-0.52	-0.56
0.62	-0.54	-0.57
3.02	-0.51	-0.53
-0.13	1.32	1.24
-0.71	0.50	0.63
-0.38	0.05	0.06
0.83	-0.54	-0.58
1.54	-0.49	-0.53
2.15	-0.56	-0.59
2.15	-0.57	-0.59
-0.69	-0.45	-0.41

3.56	-0.56	-0.58
-0.13	-0.47	-0.45
0.20	-0.44	-0.40
0.01	-0.50	-0.54
-0.30	-0.52	-0.54
-0.02	-0.41	-0.23
2.15	-0.55	-0.57
0.72	-0.41	-0.48
-0.53	-0.32	-0.35
-0.29	-0.42	-0.40
0.80	-0.46	-0.50
-0.39	-0.56	-0.59
0.78	-0.56	-0.58
-0.85	-0.42	-0.47
2.60	-0.53	-0.54
-0.75	-0.01	-0.19
-0.32	-0.50	-0.52
-0.15	-0.46	-0.48
2.15	-0.18	-0.39
0.55	-0.55	-0.58
0.25	-0.19	-0.32
-0.84	-0.43	-0.50
-0.78	-0.32	-0.05
-0.66	-0.54	-0.57
-0.03	-0.53	-0.56
-0.56	-0.46	-0.41
-0.33	-0.51	-0.54
-0.85	-0.30	-0.25
-0.93	-0.04	0.10
-0.81	-0.37	-0.41
-0.75	-0.39	-0.30
0.99	0.18	0.05
-0.11	-0.57	-0.59
-0.67	-0.49	-0.38
-0.62	-0.53	0.03
-0.88	-0.43	1.66

t was not considered in statistical analyses since it may have been inadvertently switched with :
t was not considered in statistical analyses since it may have been inadvertently switched with :

Sym <i>zif11</i> mRNA expression z-score	Sym <i>rbcL</i> mRNA expression z-score
-0.62	-0.69
-0.49	-0.27
-0.55	-0.64
-0.61	-0.69
-0.61	-0.49
-0.61	-0.68
2.48	0.57
-0.40	-0.29
-0.38	-0.47
0.05	0.22
-0.52	-0.28
-0.57	-0.66
0.56	1.28
-0.50	-0.65
2.12	-0.31
-0.53	-0.68
3.39	-0.06
-0.41	-0.17
-0.17	-0.44
-0.56	-0.56
-0.62	-0.67
-0.61	-0.46
-0.06	0.29
-0.61	-0.56
-0.58	-0.64
-0.58	-0.29
4.52	-0.29
-0.59	-0.29
-0.26	-0.48
-0.58	-0.58
-0.37	0.51
-0.61	-0.47
0.34	1.16
0.33	-0.29
-0.62	-0.68
-0.51	-0.29
-0.52	-0.62
-0.62	-0.29
0.05	-0.59
-0.16	-0.36
0.82	-0.55

1.61	-0.46
0.11	0.28
-0.60	-0.29
5.04	5.84
0.00	-0.29
0.13	0.76
-0.11	0.79
-0.61	-0.29
-0.34	1.67
0.67	2.22
-0.56	-0.53
-0.29	0.14
2.24	4.21
-0.48	2.98
-0.31	0.08
-0.30	0.16
0.24	-0.29
-0.17	-0.17
-0.54	-0.50
2.40	-0.27
-0.61	-0.29
-0.36	-0.28
-0.61	-0.29
-0.43	-0.22
-0.56	-0.29
-0.61	-0.29
-0.62	-0.60
-0.46	-0.47
-0.61	-0.22
0.40	1.18
0.46	0.71
-0.56	-0.22
-0.20	-0.58
-0.23	-0.29
0.17	-0.56
0.42	3.33
0.23	0.88
0.19	0.63
-0.57	-0.67
-0.61	-0.29
-0.63	-0.68
-0.58	-0.69
1.44	0.02

-0.59	-0.68
0.63	-0.29
-0.29	-0.33
-0.47	-0.66
-0.44	-0.29
1.06	0.04
-0.41	-0.66
-0.49	-0.29
-0.54	0.43
0.98	0.09
-0.48	-0.46
-0.47	-0.68
-0.61	-0.67
-0.24	-0.50
-0.58	-0.29
-0.33	0.77
-0.55	-0.60
-0.42	-0.29
-0.36	-0.29
-0.62	-0.68
-0.46	0.33
-0.26	-0.29
1.97	0.12
-0.35	-0.61
-0.46	-0.63
2.03	-0.08
-0.55	-0.45
-0.13	0.46
0.63	-0.29
0.79	-0.05
-0.09	-0.08
0.66	2.21
-0.48	-0.70
-0.47	-0.04
-0.36	0.47
-0.08	2.50

sample 101-D.
sample 101.

host <i>gfp-cp</i> mRNA expression z-score	host <i>cuznsod</i> mRNA expression z-score
0.09	-1.21
-0.22	0.45
-0.19	-1.11
-0.64	-1.17
-0.65	-0.99
-0.68	-1.08
-0.67	-0.35
-0.44	-0.83
-0.74	-0.85
1.15	0.59
-0.56	-0.06
-0.10	-1.03
-0.15	-0.18
-0.54	-1.04
-0.02	-0.66
-0.23	-1.10
3.60	0.80
0.03	0.13
0.62	-0.78
-0.56	-0.94
-0.73	-1.16
-0.49	0.90
-0.41	0.58
-0.65	-0.92
-0.75	-0.93
-0.70	-0.77
-0.58	1.56
-0.53	-0.39
0.19	0.74
-0.65	-0.18
-0.51	0.84
-0.73	-1.01
-0.33	1.07
-0.64	1.44
-0.68	-0.89
-0.64	0.15
-0.48	-0.96
-0.42	-0.76
-0.63	-1.08
0.40	-0.31
2.61	1.57

0.09	0.04
2.23	0.07
0.50	-0.42
0.75	0.99
-0.58	0.42
0.62	0.89
2.25	0.71
-0.72	-0.39
0.97	-0.49
2.32	1.00
1.71	0.25
2.93	3.00
3.59	1.84
1.52	0.66
1.69	0.50
1.82	0.12
2.92	0.65
1.36	0.98
-0.45	-0.77
-0.63	0.53
-0.74	0.31
-0.31	1.41
-0.55	0.96
-0.48	1.58
-0.71	0.62
-0.57	-0.37
-0.64	-0.28
-0.47	1.83
-0.61	1.05
0.11	1.39
1.34	1.80
-0.12	-0.81
-0.68	1.22
-0.70	-0.62
-0.59	1.51
0.20	1.63
-0.25	1.73
1.21	3.17
-0.53	-0.44
-0.62	1.73
-0.59	-0.99
-0.51	-1.13
-0.63	-0.42

-0.64	-1.02
1.67	-0.07
-0.32	-0.64
-0.49	-0.95
-0.01	-1.06
-0.47	0.71
-0.06	-1.01
-0.38	1.12
-0.64	-1.15
-0.72	0.15
-0.71	-1.09
-0.69	-1.19
-0.57	-1.11
-0.74	-0.02
-0.05	0.27
-0.58	0.91
-0.49	-1.04
-0.66	-0.72
-0.32	-0.17
-0.70	-0.93
-0.53	0.91
0.88	-0.66
-0.34	-0.83
-0.75	-1.14
-0.74	-1.11
-0.74	-1.02
-0.02	-0.30
-0.31	-0.17
1.01	-0.85
0.79	-0.57
0.69	-0.08
0.33	-0.31
-0.73	-1.21
-0.43	-0.10
-0.53	0.64
-0.57	0.14

host <i>lectin</i> mRNA expression z-score	host <i>ca</i> mRNA expression z-score	variability index
-0.73	-0.86	0.44
1.24	0.38	0.89
-0.59	-0.75	0.27
-0.61	-0.86	0.41
-0.60	-0.73	0.65
-0.69	-0.85	0.58
-0.37	-0.74	1.01
-0.69	-0.68	0.18
-0.33	-0.78	0.43
0.21	0.76	0.81
-0.62	-0.59	0.26
-0.59	-0.75	0.23
-0.12	-0.52	0.64
-0.45	-0.77	0.54
-0.33	-0.45	0.79
-0.69	-0.74	0.46
-0.20	2.30	1.63
0.34	1.02	0.47
-0.37	-0.31	0.48
0.39	-0.30	0.42
-0.70	-0.66	0.31
0.04	-0.78	0.51
0.40	-0.27	0.42
0.39	-0.68	0.34
-0.37	-0.84	0.21
-0.29	-0.80	0.89
2.21	-0.18	2.32
-0.39	-0.18	0.37
0.37	0.94	0.55
-0.62	-0.86	0.25
2.65	0.51	0.95
-0.09	-0.75	0.35
-0.26	0.21	0.61
-0.32	-0.23	1.03
-0.68	-0.82	1.24
-0.51	-0.43	0.72
-0.70	-0.86	0.24
-0.69	-0.18	0.22
-0.68	-0.57	0.35
-0.39	1.85	0.71
-0.15	2.36	1.25

-0.60	4.48	1.56
-0.28	-0.06	0.79
-0.21	-0.26	0.92
1.55	2.36	2.52
-0.01	-0.18	0.35
0.06	-0.79	0.77
-0.03	-0.79	0.91
-0.45	-0.85	0.21
0.77	-0.42	0.92
0.35	-0.73	1.09
-0.68	-0.14	0.74
0.01	1.69	1.30
0.43	2.76	1.69
-0.15	-0.50	1.16
0.14	-0.77	0.74
0.49	-0.83	0.76
-0.60	3.18	1.34
-0.49	-0.47	0.71
-0.57	-0.76	0.38
0.57	0.17	1.85
1.84	-0.84	1.01
0.65	0.40	0.56
1.42	0.07	0.65
0.74	0.20	0.67
2.54	-0.70	1.04
-0.42	-0.18	0.33
0.30	1.88	0.80
2.65	0.20	1.10
7.49	-0.39	2.47
-0.45	1.76	0.66
-0.53	1.01	0.86
-0.66	-0.74	0.27
-0.66	0.95	0.89
-0.72	-0.29	0.83
-0.63	0.00	1.19
-0.51	-0.22	1.33
-0.24	0.16	0.73
-0.45	1.20	1.15
-0.50	-0.64	0.45
-0.57	0.52	0.93
0.11	-0.84	0.93
0.07	-0.83	0.92
-0.43	0.01	0.63

-0.71	-0.56	1.34
-0.44	-0.15	0.67
-0.38	0.37	0.30
-0.68	-0.80	0.28
-0.58	-0.45	0.30
0.51	1.88	0.75
-0.49	-0.63	0.88
-0.45	-0.53	0.67
-0.54	-0.78	0.46
-0.04	0.73	0.60
0.23	-0.62	0.55
-0.71	-0.84	0.22
-0.51	-0.48	0.49
-0.03	-0.36	0.30
0.14	1.16	0.98
-0.60	0.45	0.79
-0.54	-0.84	0.26
-0.47	0.47	0.36
-0.22	-0.18	0.80
0.03	-0.83	0.46
-0.69	1.66	1.65
0.31	0.50	0.55
-0.16	0.16	0.80
-0.59	-0.72	0.20
-0.06	-0.78	0.35
0.04	-0.76	0.89
0.51	0.18	0.51
0.01	-0.33	0.35
-0.31	-0.18	1.13
-0.07	0.18	0.83
-0.27	0.18	0.44
-0.06	-0.36	0.77
-0.32	-0.86	0.30
0.58	1.19	0.58
1.23	0.85	0.73
1.40	1.70	1.17

Multivariate statistical analyses: (Figs. 5-6)

Princial components analysis considering all 10 molecular-scale response varia

Eigenvalues	Figure 5a			
Number	Eigenvalue	Percent	Cumulative percentag	
1	4.29		42.86	42.86
2	1.32		13.24	56.10
3	1.10		11.05	67.14
4	0.90		8.96	76.10
5	0.69		6.87	82.97
6	0.64		6.37	89.34
7	0.44		4.37	93.71
8	0.36		3.57	97.28
9	0.20		2.00	99.28
10	0.07		0.72	100

Princial components analysis considering all 10 molecular-scale response varia

Eigenvalues	Figure 5b			
Number	Eigenvalue	Percent	Cumulative percentag	
1	4.89		48.94	48.94
2	1.90		19.04	67.98
3	1.23		12.28	80.26
4	0.73		7.32	87.58
5	0.60		6.04	93.62
6	0.23		2.33	95.95
7	0.21		2.15	98.10
8	0.16		1.57	99.67
9	0.03		0.26	99.93
10	0.01		0.07	100

Princial components analysis considering all 10 molecular-scale response varia

Eigenvalues	Figure 5c			
Number	Eigenvalue	Percent	Cumulative percentag	
1	4.16		41.62	41.62
2	1.27		12.74	54.36
3	1.03		10.28	64.64
4	0.90		8.98	73.63
5	0.85		8.52	82.15
6	0.62		6.17	88.31
7	0.44		4.40	92.71
8	0.42		4.19	96.91
9	0.23		2.35	99.25

10 0.07 0.75 100

CCA of molecular-scale response variables against the heat map score: 0

Canonical details calculated from the overall pooled within-group covariance matrix

Eigenvalue	Percent	Cumulative Percent	Canonical correlation
3.45	60.38	60.38	0.88
1.62	28.33	88.71	0.79
0.45	7.82	96.53	0.56
0.20	3.47	100.00	0.41

Test	Value	Approx. F	NumDF
Wilks' Lambda	0.05	12.10	40

Standardized scoring coefficients

	Sym GCP	RNA/DNA	Sym <i>rbcL</i>
Canonical 1	0.34	0.02	-0.50
Canonical 2	0.29	-0.04	0.63
Canonical 3	0.19	0.40	-0.86
Canonical 4	0.47	0.24	0.17

CCA of molecular-scale response variables against outlier status: no vs. y

Eigenvalue	Percent	Cumulative Percent	Canonical correlation
2.4	100	100	0.84

Test	Value	Exact F	NumDF
Wilks' Lambda	0.2937338	21.1591	10

Standardized scoring coefficients

	RNA/DNA	Sym GCP	Sym <i>hsp90</i>
Canonical 1	-0.14	0.14	0.31

bles and the 99 *Pocillopora damicornis* samples.

Eigenvectors	Prin1	Prin2
Sym GCP		-0.19 0.17
RNA/DNA		0.25 -0.40
Sym <i>rbcL</i>		0.37 0.02
Sym <i>zifl1l</i>		0.36 -0.03
Sym <i>hsp90</i>		0.42 -0.22
Sym <i>ubiq-lig</i>		0.44 -0.19
host <i>ca</i>		0.26 0.52
host <i>lectin</i>		0.18 -0.25
host <i>cuznsod</i>		0.34 0.26
host <i>gfp-cp</i>		0.24 0.58

bles and the 20 *Pocillopora acuta* samples.

Eigenvectors	Prin1	Prin2
Sym GCP		-0.24 -0.09
RNA/DNA		0.03 0.60
Sym <i>rbcL</i>		0.41 -0.12
Sym <i>zifl1l</i>		0.39 -0.09
Sym <i>hsp90</i>		0.41 -0.19
Sym <i>ubiq-lig</i>		0.42 -0.21
host <i>ca</i>		0.19 0.50
host <i>lectin</i>		-0.18 -0.46
host <i>cuznsod</i>		0.34 0.22
host <i>gfp-cp</i>		0.31 -0.13

bles and 119 of the 120 samples (excluding colony 94, which was not genotyp

Eigenvectors	Prin1	Prin2
Sym GCP		-0.20 0.22
RNA/DNA		0.20 -0.29
Sym <i>rbcL</i>		0.38 0.00
Sym <i>zifl1l</i>		0.37 -0.05
Sym <i>hsp90</i>		0.42 -0.24
Sym <i>ubiq-lig</i>		0.44 -0.21
host <i>ca</i>		0.26 0.53
host <i>lectin</i>		0.17 -0.31
host <i>cuznsod</i>		0.32 0.30

host *gfp-cp*

0.25

0.55

1, 2, 3, or 4

Fig. 6c

matrix.

Likelihood ratio

Approx. F

NumDF

0.05	12.10	40
0.22	7.80	27
0.58	4.24	16
0.83	3.06	7

DenDF

Prob>F

400 <.0001

Sym *zifl1l*

Sym *hsp90*

Sym *ubiq-lig*

0.63	0.62	0.47
-0.11	-1.71	1.60
0.48	-0.97	0.70
-0.24	0.43	-0.62

res-P. damicornis

not depicted

Likelihood ratio

Approx. F

NumDF

0.29	21.16	10
------	-------	----

DenDF

Prob>F

88 <.0001

Sym *ubiq-lig*

Sym *zifl1l*

Sym *rbcL*

0.79	0.54	-0.82
------	------	-------

Prin3	Prin4	Prin5	Prin6	Prin7
	-0.10	0.91	0.22	0.14 0.14
	-0.18	-0.12	0.69	0.47 -0.12
	-0.17	0.23	-0.40	0.13 -0.66
	-0.29	0.00	0.12	-0.55 0.31
	-0.10	0.19	-0.19	-0.01 0.36
	-0.12	0.12	-0.12	-0.01 -0.01
	0.10	0.01	0.48	-0.40 -0.36
	0.77	0.15	0.01	-0.02 -0.12
	0.45	0.00	0.02	0.19 0.36
	-0.14	-0.19	-0.11	0.5 0.17

Prin3	Prin4	Prin5	Prin6	Prin7
	0.56	-0.28	0.63	-0.03 -0.20
	-0.30	0.29	0.36	0.46 0.08
	-0.18	0.06	0.25	-0.23 -0.34
	0.13	-0.37	0.06	0.10 0.78
	-0.18	0.04	0.25	-0.08 -0.16
	-0.16	0.05	0.21	-0.03 0.01
	0.36	0.35	0.08	-0.63 0.19
	0.14	0.66	0.29	0.20 0.29
	0.39	-0.13	0.01	0.50 -0.24
	0.44	0.34	-0.47	0.19 -0.16

ted).

Prin3	Prin4	Prin5	Prin6	Prin7
	0.12	0.68	0.60	0.06 0.25
	-0.14	0.61	-0.59	0.27 0.18
	-0.13	-0.04	0.31	0.33 -0.47
	-0.27	0.03	0.10	-0.63 0.28
	-0.08	0.02	0.27	0.05 0.11
	-0.10	0.02	0.18	0.03 -0.04
	0.15	0.24	-0.24	-0.47 -0.28
	0.79	-0.14	0.02	-0.10 0.31
	0.44	0.09	-0.09	0.26 -0.21

-0.16 -0.29 -0.07 0.35 0.61

DenDF **Prob>F**
 400 <.0001
 310.22 <.0001
 214 <.0001
 108 0.0056

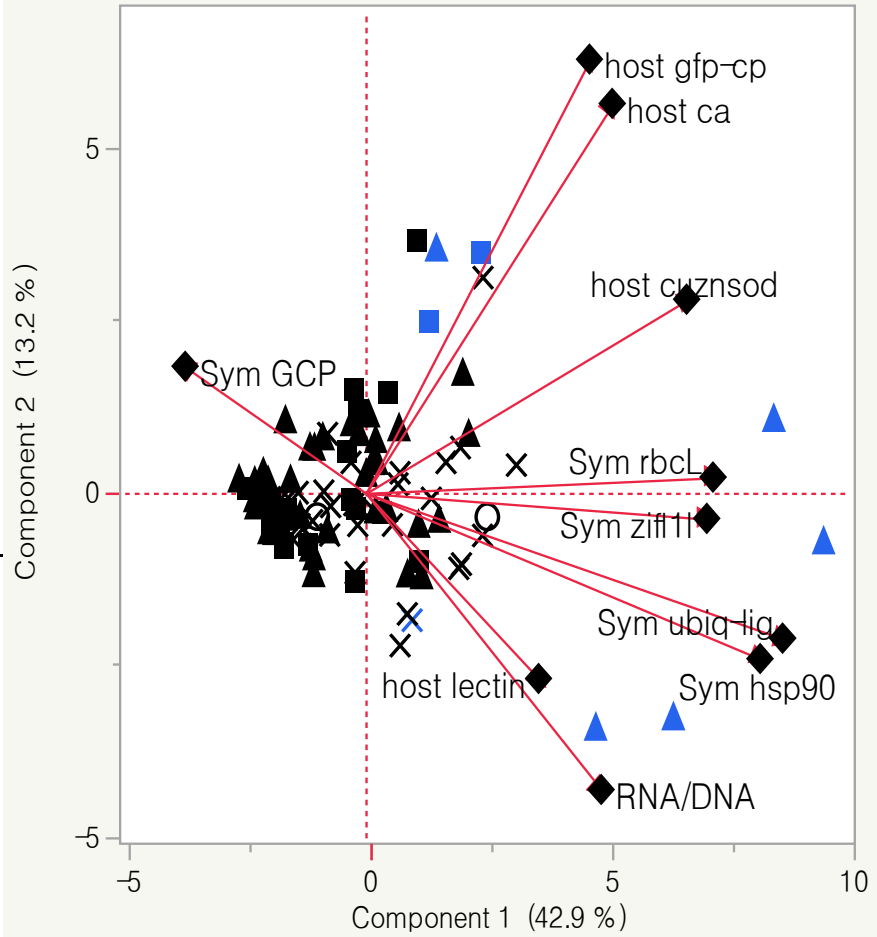
host <i>ca</i>	host <i>lectin</i>	host <i>cuznsod</i>	host <i>gfp-cp</i>
0.16	0.18	-0.29	0.15
0.14	-0.05	-0.15	0.33
-0.32	0.07	0.46	0.43
0.38	0.35	0.42	0.19

DenDF **Prob>F**
 88 <.0001

host <i>gfp-cp</i>	host <i>cuznsod</i>	host <i>lectin</i>	host <i>ca</i>
0.5	-0.82	0.78	0.73

PCA with 10 molecular-scale response variables-*P. da*

Prin8	Prin9	Prin10
0.08	0.04	-0.07
0.03	0.12	0.07
0.01	0.38	0.15
0.45	0.40	-0.07
-0.19	-0.37	0.63
-0.19	-0.39	-0.74
-0.19	-0.29	0.14
0.51	-0.14	0.01
-0.45	0.50	-0.09
0.47	-0.21	-0.02

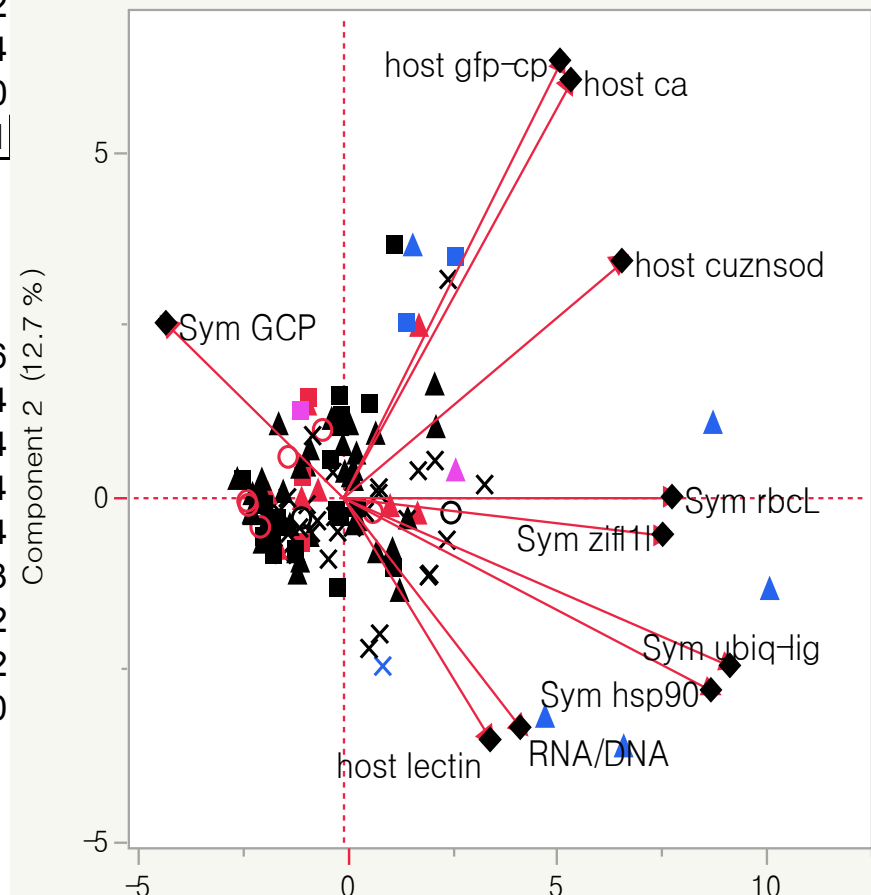


Label variab

Prin8	Prin9	Prin10
0.31	-0.10	-0.04
0.35	-0.02	-0.01
0.13	0.71	-0.17
0.17	0.20	0.06
0.00	-0.34	0.74
-0.07	-0.54	-0.64
-0.16	-0.07	0.02
-0.25	0.16	0.04
-0.59	0.10	0.00
0.55	-0.07	-0.01

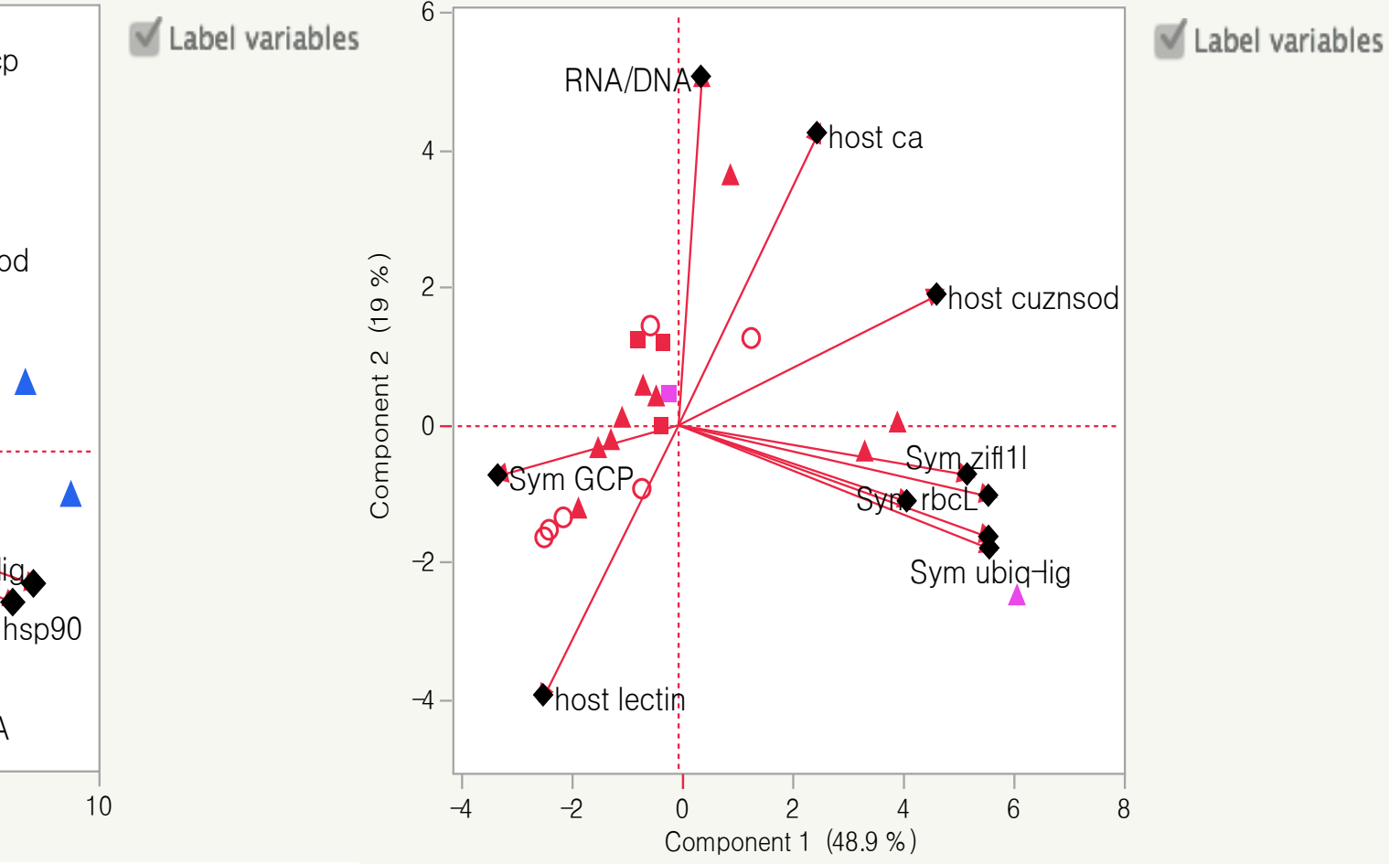
PCA with 10 molecular-scale response variables-both s

Prin8	Prin9	Prin10
0.06	0.02	-0.06
0.13	0.10	0.04
0.49	0.38	0.14
-0.14	0.54	-0.04
-0.28	-0.42	0.64
-0.01	-0.42	-0.73
0.28	-0.34	0.12
0.35	0.07	0.02
-0.64	0.28	-0.10



Label variab

micornis only (nPCA with 10 molecular-scale response variables-P. acuta only)



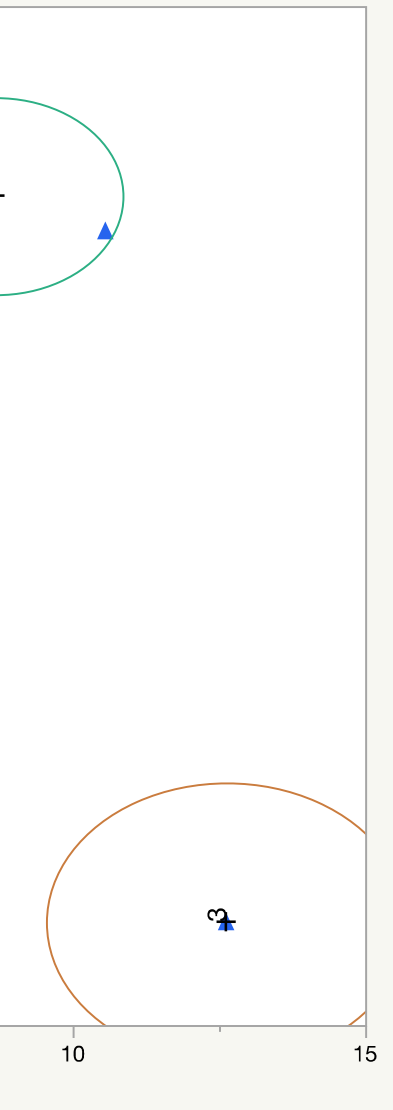
species (n=119)



Hig

0

heat map score: 0, 1, 2, 3, or 4



(n=20)

Label variables

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sample #	NC23-D	NC75	NC95	NC47-D	NC98	NC12	NC42-D	NC102-D	NC93	NC45	NC4	NC61
NC23-D												
NC75	80.50											
NC95	58.55	65.69										
NC47-D	70.80	73.35	79.86									
NC98	32.90	40.27	55.01	54.16								
NC12	56.03	70.97	89.74	80.75	58.91							
NC42-D	8.45	7.13	12.95	8.71	8.61	13.55						
NC102-D	29.14	29.17	12.38	24.05	6.09	13.15	46.92					
NC93	33.02	38.77	52.12	43.79	57.75	55.01	20.22	12.77				
NC45	20.77	19.78	40.67	32.35	29.64	41.48	44.12	15.13	48.96			
NC4	62.93	67.85	83.82	83.03	60.30	79.76	7.98	15.76	38.23	28.52		
NC61	3.91	7.02	19.68	14.10	20.24	18.03	36.55	19.90	29.57	40.86	16.15	
NC44-D	27.67	27.86	12.73	22.52	7.43	15.01	70.30	54.71	16.18	39.28	16.73	31.06
NC22-D	58.05	58.08	84.79	76.49	66.48	82.71	16.93	11.92	60.09	43.93	74.78	12.84
NC83	44.94	41.08	67.50	53.24	46.22	58.57	10.85	9.80	53.66	36.50	49.31	6.96
NC59	6.03	9.23	17.66	15.78	19.42	16.15	62.95	43.11	6.44	21.60	22.74	44.77
NC92	28.75	20.47	23.65	28.28	15.60	20.75	11.92	8.71	16.87	13.68	27.18	31.62
NC10	5.10	0.00	8.74	0.00	10.87	8.82	56.58	12.65	36.42	40.56	0.00	39.22
NC21-D	45.21	41.57	69.12	64.37	59.06	67.14	24.94	6.60	44.86	55.78	62.41	29.58
NC55-D	57.66	58.31	75.57	71.68	46.19	83.99	14.63	14.83	56.00	43.57	64.14	15.48
NC54	19.41	16.65	5.87	14.23	2.60	6.14	44.97	40.63	8.94	10.05	8.76	48.07
NC27	15.55	5.08	19.08	10.23	9.92	16.27	45.83	32.88	15.00	21.51	9.03	40.73
NC47	24.79	29.48	49.54	39.93	34.47	48.88	38.67	14.01	50.71	75.10	37.58	53.94
NC103-D	28.28	27.48	49.65	43.02	60.56	48.57	9.69	2.12	60.05	32.99	37.73	29.81
NC24-D	60.10	43.93	62.22	58.28	47.79	62.37	8.02	12.00	47.79	25.61	52.92	12.42
NC43	37.48	40.62	52.08	46.82	43.07	58.17	29.86	10.08	56.59	58.46	42.81	32.59
NC53	30.76	25.14	32.73	33.60	42.87	30.59	16.65	0.37	33.59	20.38	30.40	28.43
NC2	53.92	55.15	33.47	45.99	51.59	32.73	9.00	16.81	37.21	26.89	39.03	21.15
NC63	61.20	53.06	39.74	51.02	32.76	37.43	10.83	16.67	31.54	14.92	44.78	33.97
NC76	60.05	54.01	46.75	62.78	31.87	47.25	18.38	21.19	27.02	27.35	50.33	22.50
NC6	74.16	78.75	82.57	87.01	49.07	78.75	7.91	27.29	37.70	28.13	88.29	13.85
NC50-D	35.27	18.73	36.67	28.39	26.20	32.52	38.85	9.14	23.41	34.88	28.33	13.52
NC28	79.50	82.09	68.50	75.33	40.02	67.62	7.21	23.89	32.89	23.33	74.07	10.20
NC28-D	48.72	36.23	56.29	48.23	32.48	52.66	12.23	8.24	34.91	33.27	45.43	14.24
NC48-D	36.81	18.74	37.40	29.32	26.21	33.27	29.57	9.15	25.33	35.09	30.75	9.80
NC100-D	26.55	23.40	33.99	25.18	30.52	35.56	22.20	24.83	58.61	31.43	22.26	22.78
NC41-D	20.69	15.96	24.39	16.92	21.39	25.19	60.87	40.72	39.86	39.46	15.34	24.19
NC13	22.39	14.67	27.29	17.51	10.51	27.71	46.98	51.02	18.33	25.91	15.38	21.07
NC78	30.00	16.05	32.91	24.88	27.25	23.48	15.38	16.38	33.38	13.61	24.88	23.02
NC99-D	32.41	25.67	44.82	34.03	30.89	43.15	17.56	23.95	43.10	38.21	28.94	15.02
NC86	27.61	16.80	37.01	25.92	19.24	30.64	24.33	14.89	30.07	31.60	25.47	39.14
NC97	49.27	39.89	60.52	47.28	28.66	53.91	21.11	22.75	37.86	25.49	48.44	7.63
NC11	58.34	50.76	62.36	68.43	37.80	60.52	8.56	11.77	30.83	24.77	61.60	7.97
NC14	75.98	76.76	75.26	84.07	42.02	75.75	8.70	23.88	38.72	21.61	78.83	6.23

Please see Figure 5d for the corresponding r
Outliers have been highlighted in blue.

NC22	15.80	10.43	36.45	25.26	30.23	32.08	27.82	14.29	34.34	52.42	21.59	28.80
NC29	60.52	67.12	86.64	86.82	59.05	85.63	9.87	12.92	44.49	33.61	87.96	18.99
NC62	68.65	74.83	76.50	88.74	56.49	75.10	7.54	27.96	38.58	29.40	81.63	15.91
NC60	13.16	4.47	17.49	7.94	9.03	15.71	41.62	24.33	15.35	22.35	7.05	46.81
NC66	33.01	31.63	60.89	50.05	41.85	52.99	13.68	20.57	43.01	27.35	46.71	23.63
NC64	80.46	82.98	68.20	74.56	52.99	66.01	8.80	24.99	37.49	28.41	78.94	9.79
NC103	63.50	66.66	89.36	80.73	55.76	82.55	9.77	12.73	43.81	33.10	88.54	15.18
NC26-D	58.35	54.47	82.53	72.86	68.07	77.82	13.18	12.60	48.19	39.74	82.87	17.49
NC56	54.32	58.61	50.98	56.86	37.99	44.83	10.75	16.68	33.90	20.42	51.69	39.26
NC80	60.67	66.54	93.58	81.18	56.23	87.56	12.57	12.16	46.57	36.28	88.37	19.40
NC25-D	55.27	53.78	79.36	77.76	64.23	75.41	11.84	11.13	38.47	37.67	82.95	21.81
NC102	27.72	24.20	37.55	26.57	35.50	39.81	15.59	11.69	62.19	39.46	22.74	26.39
NC8	57.26	59.94	84.86	81.73	52.79	83.11	13.52	14.13	52.21	42.23	73.30	20.46
NC53-D	23.12	15.99	26.69	24.09	25.94	24.42	18.82	4.37	19.90	24.73	24.62	16.35
NC40-D	63.61	53.43	75.56	77.88	51.98	73.26	11.27	14.86	41.14	37.59	73.53	16.29
NC57	63.25	56.55	58.71	66.02	33.44	52.03	3.52	22.11	36.65	11.46	58.86	6.11
NC68	25.66	34.88	40.76	41.44	35.87	43.43	32.97	25.57	51.47	48.71	36.08	35.04
NC32	17.01	23.85	25.80	30.40	30.72	24.61	37.56	18.97	35.59	37.66	30.10	55.96
NC38-D	11.60	10.39	29.85	20.53	17.42	28.52	63.58	30.06	28.66	57.86	19.98	45.02
NC49-D	24.66	14.55	30.04	29.26	40.94	27.72	23.96	4.67	28.21	29.79	28.44	25.71
NC96	65.05	68.38	83.03	76.38	48.75	77.88	9.54	14.30	45.96	26.55	79.08	2.49
NC65.2	80.87	84.77	70.35	75.98	49.52	67.85	8.50	25.49	37.64	28.37	77.45	8.57
NC82	67.55	76.47	81.14	86.81	55.19	78.09	5.41	25.39	40.16	24.91	88.27	16.79
NC39-D	18.44	10.91	21.59	13.63	7.28	22.64	70.40	27.70	29.60	63.53	12.59	39.01
NC26	12.69	7.20	24.48	18.09	29.52	19.77	33.01	12.11	28.45	30.39	17.07	35.36
NC27-D	24.37	11.99	28.71	18.32	9.81	22.23	55.27	12.93	17.26	24.36	18.94	29.66
NC85	63.16	60.55	26.91	40.30	39.09	31.87	4.81	17.31	37.22	14.73	32.59	19.43
NC16	66.68	80.16	79.99	89.45	49.42	85.18	8.51	24.39	42.17	27.58	84.37	11.12
NC31	24.84	31.56	45.59	42.92	49.42	45.08	8.03	14.00	53.15	29.52	38.98	43.83
NC25	17.77	25.29	37.82	36.51	59.51	36.78	18.12	3.94	52.26	39.72	35.95	44.03
NC9	68.22	56.07	77.37	68.52	41.69	71.75	14.24	14.21	46.19	33.35	64.82	10.46
NC74	14.76	12.73	21.56	22.34	29.82	16.38	21.48	13.13	31.67	19.08	20.02	33.95
NC100	27.88	24.04	33.64	24.41	16.07	35.03	25.58	25.42	44.79	33.80	22.98	25.10
NC29-D	58.01	58.38	72.67	80.62	55.39	75.46	3.26	11.48	51.95	22.36	71.90	13.94
NC37-D	25.75	17.38	49.89	36.57	33.68	42.50	14.45	4.67	38.88	46.44	33.62	22.43
NC51-D	41.82	33.45	62.57	56.34	50.64	58.19	12.96	16.64	36.13	33.73	56.39	27.32
NC7	29.22	20.11	39.69	29.14	10.72	33.18	40.39	35.15	19.38	27.23	28.69	20.83
NC44	2.36	0.00	4.01	0.00	6.05	3.95	55.53	22.03	16.31	20.93	0.00	32.33
NC20	61.49	54.31	64.83	64.68	55.86	64.43	10.22	12.81	51.61	21.26	62.33	2.09
NC23	65.61	66.24	88.84	84.60	58.40	86.11	11.42	13.07	47.34	36.27	84.72	16.18
NC55	3.75	7.25	23.56	14.58	17.64	21.84	55.09	25.67	32.81	45.42	15.12	76.40
NC73	50.50	64.82	81.28	75.14	66.64	84.06	9.30	14.12	52.59	34.09	77.69	23.37
NC50	20.68	14.17	30.25	32.51	44.71	22.97	18.19	2.03	24.80	31.06	31.98	40.70
NC70	50.12	54.23	61.15	70.84	54.08	60.94	0.00	12.78	59.66	17.59	60.91	18.51
NC17	8.08	10.89	18.34	14.59	19.16	19.05	36.69	12.49	32.18	36.62	13.41	43.42

NC46	8.05	11.67	17.35	16.14	13.37	18.06	35.88	10.09	29.99	38.09	15.00	49.84
NC34	8.44	14.37	27.83	21.69	22.16	29.06	12.61	12.19	24.54	16.26	19.93	33.90
NC48	11.35	2.91	13.84	6.62	12.59	9.23	39.56	8.66	15.35	14.74	7.76	11.43
NC35	8.65	10.04	28.14	20.07	22.06	28.23	42.47	18.99	37.21	62.91	17.41	46.75
NC37	0.00	0.40	4.20	0.41	6.66	4.15	44.82	20.72	15.03	14.74	0.39	23.86
NC77	61.74	53.99	76.41	66.64	36.31	73.34	19.27	22.03	41.11	34.96	67.82	18.38
NC79	74.09	71.07	69.25	76.91	47.29	64.15	10.41	27.63	45.65	22.85	70.47	0.00
NC5	73.45	76.56	77.97	85.15	58.00	74.15	7.77	26.90	37.15	26.95	89.28	15.79
NC21	64.11	71.01	86.79	80.26	48.34	83.67	8.40	13.12	44.07	24.23	85.85	9.46
NC24	10.37	3.80	12.40	6.85	8.95	8.97	37.41	8.36	11.19	13.27	7.43	15.35
NC67	79.65	81.69	61.88	66.68	33.78	61.00	5.70	24.21	30.61	14.15	66.87	5.17
NC43-D	3.56	4.44	11.38	5.90	13.50	11.89	45.99	9.53	31.52	43.69	5.36	70.04
NC58	56.14	61.23	41.41	48.78	26.63	36.20	12.40	19.00	22.15	12.62	43.10	28.90
NC104	16.73	15.74	41.33	30.25	52.05	33.75	22.13	8.90	41.23	38.63	35.22	44.19
NC3	58.73	72.07	86.19	82.30	56.88	92.89	12.55	13.70	50.98	33.53	80.72	14.84
NC19	39.99	45.92	63.63	58.26	62.81	64.27	16.73	19.96	58.57	44.31	63.06	33.08
NC94	25.26	25.19	48.91	39.52	34.10	45.68	14.74	22.08	42.31	27.98	35.67	22.88
NC72	60.34	68.33	85.55	86.19	59.36	83.99	8.54	13.10	42.43	31.58	90.00	17.52
NC36	71.12	75.35	49.86	63.51	50.34	53.27	8.79	33.86	45.78	30.53	54.73	18.42
NC88	63.95	70.95	85.76	82.82	53.22	87.95	12.69	13.62	49.18	30.65	81.09	12.29
NC91	67.95	68.19	77.99	84.36	59.21	74.17	8.73	20.99	41.68	31.18	87.86	10.92
NC15	38.54	45.88	49.38	49.72	34.83	52.50	16.21	27.38	40.55	16.87	43.46	11.86
NC104-D	14.25	6.55	20.21	11.66	20.05	15.07	41.15	28.88	27.86	16.85	12.08	25.57
NC30	53.33	58.69	83.18	66.13	36.71	77.22	13.15	15.62	48.44	28.66	68.10	13.29
NC49	21.66	18.45	22.90	29.30	36.91	20.45	18.25	4.92	32.52	26.88	25.26	34.82
NC18	17.20	18.89	23.25	31.00	45.81	22.32	8.87	9.15	35.50	27.43	29.96	35.12
NC45-D	17.73	16.39	30.31	21.62	24.79	32.05	55.36	20.12	44.56	74.55	20.06	31.11
NC1	51.49	65.08	78.85	74.31	66.59	82.81	10.80	13.48	43.49	33.37	89.90	19.73
NC52-D	49.47	47.48	45.00	56.43	50.49	42.36	3.45	18.85	47.55	13.61	50.43	19.12
NC89	57.85	53.30	66.45	66.11	50.98	61.31	2.28	8.30	60.54	13.04	60.59	17.27
NC90	72.50	70.23	46.96	60.16	43.94	42.92	2.20	27.45	29.41	22.97	50.67	14.64
max	80.87	84.77	93.58	89.45	68.07	92.89	70.40	54.71	62.19	75.10	90.00	76.40
global max	96.41											
min	0.00	0.00	4.01	0.00	2.60	3.95	0.00	0.37	6.44	10.05	0.00	0.00

20.42	46.43	45.85	24.55	20.85	32.53	54.84	36.01	16.04	41.41	47.66	48.62	33.56
14.83	79.96	54.42	19.97	26.44	1.57	69.02	73.60	6.06	11.85	43.39	43.87	58.83
25.25	71.42	53.51	17.10	27.87	0.00	64.53	60.88	17.35	10.00	41.54	42.21	58.85
32.40	13.95	20.00	50.21	37.23	54.21	30.23	19.12	62.67	84.83	31.82	19.27	31.77
3.14	55.57	50.68	19.99	19.71	11.43	48.07	49.82	12.44	28.48	39.24	49.02	53.16
24.80	71.26	44.45	12.55	19.21	1.34	59.29	50.27	9.86	4.78	28.16	37.02	42.99
14.65	80.93	58.49	15.86	22.19	1.55	65.67	65.41	4.24	11.69	39.46	43.35	56.66
13.91	84.15	63.50	21.42	19.31	7.17	73.28	69.69	1.25	15.76	42.79	48.08	60.68
26.04	42.31	41.50	24.37	45.64	16.87	51.92	32.16	42.47	28.15	40.91	46.71	35.53
14.09	81.77	60.16	17.44	25.91	5.12	66.59	73.06	5.79	15.58	44.36	46.16	60.15
15.25	74.33	62.94	23.64	26.89	3.64	74.47	67.27	6.25	14.80	47.66	47.76	61.00
13.72	33.33	47.69	8.73	23.69	36.92	34.21	44.03	18.62	34.64	51.33	43.43	55.63
14.66	79.59	59.69	18.14	26.84	7.20	66.19	83.42	6.48	19.75	51.41	51.83	65.85
15.07	35.27	27.95	14.62	20.50	11.78	40.98	26.44	10.54	20.55	29.96	29.27	27.97
16.31	73.74	60.84	16.72	26.49	2.32	67.07	72.77	6.72	14.25	44.88	47.82	69.21
15.46	49.31	48.57	8.76	49.90	23.46	36.49	48.92	26.12	24.72	25.42	29.88	62.01
25.79	34.54	36.32	21.37	12.87	20.46	33.79	38.36	14.24	14.04	57.76	29.30	37.72
27.66	23.73	19.69	30.94	34.39	27.36	37.42	15.10	44.38	22.16	47.91	32.24	14.17
49.25	29.43	22.98	58.79	14.35	58.90	48.34	28.88	43.94	52.21	55.18	18.61	13.35
20.79	43.96	31.91	22.25	26.54	21.94	54.57	28.15	20.09	36.88	35.10	44.45	37.05
14.35	79.97	65.45	5.07	20.52	0.50	60.37	64.52	0.88	7.91	26.62	41.46	56.52
25.16	70.48	44.12	10.00	19.36	0.88	58.74	51.32	10.01	4.87	28.71	37.16	43.40
23.35	74.00	50.77	18.02	26.95	0.00	60.50	61.16	15.85	9.45	39.37	39.67	55.74
54.00	20.91	24.46	41.67	17.71	60.39	34.71	26.88	38.57	51.53	53.41	12.82	21.51
27.77	31.91	22.74	31.14	29.69	36.91	40.01	18.97	32.84	46.88	28.75	45.69	23.67
38.97	24.92	34.47	53.71	23.31	57.08	37.29	25.48	48.95	55.50	36.46	17.59	36.19
23.47	32.85	29.33	3.14	37.04	20.59	35.31	25.39	34.42	14.82	17.00	48.49	36.59
22.80	70.76	46.76	13.16	26.46	0.00	55.01	71.25	14.75	8.25	35.41	38.14	51.79
10.33	39.21	31.22	17.57	34.49	20.95	36.03	39.36	33.09	13.27	44.65	54.35	38.49
16.20	45.21	35.62	24.79	32.46	28.97	58.98	26.75	26.88	21.00	49.73	58.24	25.37
13.24	73.73	67.18	8.75	31.03	16.96	58.93	72.75	13.99	31.53	38.02	41.66	78.49
9.87	29.51	24.85	17.03	42.22	23.86	36.69	14.32	40.57	29.10	23.29	57.96	18.53
16.44	29.93	26.15	15.13	37.93	48.09	18.60	38.95	23.06	33.87	39.42	14.36	42.18
12.18	70.40	53.92	15.14	28.84	1.16	56.81	74.20	6.87	13.11	37.36	50.57	70.23
10.29	52.15	64.01	17.69	17.45	22.03	63.29	43.11	7.33	30.73	51.70	44.62	48.28
17.85	61.19	48.17	26.15	19.81	14.81	58.55	58.81	12.61	30.58	44.53	43.52	68.79
26.15	34.30	35.27	34.40	14.27	31.44	29.52	38.81	29.77	46.24	25.90	19.87	34.50
42.46	6.29	5.83	45.21	28.19	48.85	10.27	4.92	43.06	32.77	19.92	14.80	8.07
10.62	79.54	61.92	4.79	25.58	11.18	53.71	58.99	5.79	16.37	23.50	49.26	69.32
14.94	86.79	63.11	15.42	23.22	3.33	69.07	72.07	5.00	14.12	41.29	46.91	63.76
44.32	15.60	11.70	61.15	29.38	58.14	31.50	20.66	60.19	56.44	58.30	30.03	14.73
14.51	71.29	49.09	22.88	20.18	4.47	59.13	73.33	6.48	10.47	50.37	43.14	57.07
17.32	39.33	23.23	31.86	28.23	16.50	54.94	20.36	25.45	32.49	39.84	44.31	25.83
10.18	57.04	47.79	10.27	29.84	6.11	45.18	57.28	15.16	16.58	32.02	54.58	56.16
21.99	16.66	15.12	18.97	28.65	29.13	26.13	15.91	31.84	22.23	41.48	32.14	14.09

27.51	9.80	8.06	22.84	31.71	33.55	19.21	17.61	39.09	23.14	43.86	25.08	13.32
3.89	20.64	17.88	17.64	25.60	17.53	21.65	24.15	32.14	19.53	25.92	33.12	20.03
23.62	17.45	18.05	27.66	38.35	52.98	18.77	10.66	30.68	35.32	14.23	18.18	20.06
31.22	24.36	19.01	23.94	10.67	33.05	26.51	26.03	14.48	26.39	59.73	22.31	23.28
36.78	6.37	5.36	40.12	15.23	34.73	10.14	5.08	33.74	25.05	15.66	15.38	3.51
19.94	69.70	55.19	16.41	32.94	13.77	53.96	75.62	15.13	30.98	37.77	43.12	67.57
22.63	75.18	58.74	2.83	24.92	5.92	53.75	55.66	13.92	9.46	22.26	41.22	55.88
27.16	72.01	47.87	21.89	26.49	0.00	59.95	61.90	15.64	8.80	36.58	36.66	51.36
14.98	77.88	59.43	11.76	27.31	0.75	58.12	72.89	6.13	11.00	33.86	40.13	61.05
21.82	15.31	15.59	30.95	18.82	41.36	19.47	9.96	30.13	31.47	16.25	13.43	17.64
24.19	56.26	42.13	7.56	28.32	3.36	40.61	50.76	17.55	11.82	23.35	27.47	49.59
36.15	11.89	10.72	31.49	30.48	44.03	23.90	12.94	45.72	35.33	41.33	29.62	10.93
23.47	33.81	35.57	26.07	31.74	7.91	43.93	27.81	34.40	27.04	33.53	24.23	31.53
19.28	47.48	36.57	27.07	35.36	33.02	56.66	26.59	26.56	37.88	38.64	67.10	31.08
15.44	78.35	56.08	14.28	22.56	4.37	61.87	81.34	6.34	13.35	41.53	44.08	61.22
17.45	58.51	45.05	28.99	13.82	15.93	49.96	62.34	7.08	13.21	60.88	33.72	51.36
4.43	47.96	34.67	17.50	13.19	16.22	35.37	45.56	11.92	30.66	31.20	39.87	35.34
14.78	77.52	52.45	20.38	26.61	0.00	66.40	70.54	6.19	9.94	41.45	41.94	55.97
32.44	50.18	34.60	14.97	17.38	6.78	44.76	44.04	15.25	3.48	39.55	32.96	43.84
15.38	80.19	62.55	11.90	25.64	4.57	64.50	78.40	6.31	16.08	38.25	45.15	67.36
19.38	80.56	54.16	13.59	21.16	0.42	67.33	57.95	7.23	5.44	32.11	41.19	49.75
8.81	45.97	39.39	15.42	11.39	3.58	34.54	51.82	10.60	14.97	30.95	25.53	41.65
31.03	25.21	27.10	38.17	40.69	48.87	22.99	14.99	45.60	45.68	15.02	44.03	27.03
8.50	72.65	69.08	12.00	22.85	12.04	54.38	76.32	7.58	23.01	43.12	39.83	62.75
18.72	32.44	22.25	23.74	31.14	19.72	44.93	20.12	31.62	33.17	33.11	45.38	23.34
15.72	31.45	12.09	15.21	27.06	21.52	33.51	18.88	26.42	10.47	26.80	54.14	15.44
44.48	37.17	28.47	25.39	7.44	48.00	37.21	37.46	16.61	27.72	53.47	31.47	21.11
15.13	69.33	41.79	26.63	19.53	3.10	58.85	67.62	6.85	6.45	42.51	34.19	47.87
16.42	55.76	45.45	1.95	42.11	13.30	43.79	36.03	34.08	9.13	15.89	64.37	44.17
7.89	62.19	58.54	8.25	34.78	11.52	45.93	60.64	15.81	21.21	28.23	54.80	69.31
25.98	44.07	38.13	14.82	21.87	0.00	46.07	41.60	15.26	9.98	34.92	35.75	45.47
59.69	86.79	69.08	61.15	61.25	65.56	74.47	83.42	67.07	84.83	63.96	67.10	78.49
3.14	0.00	0.90	1.95	7.44	0.00	10.14	4.92	0.88	3.48	14.23	12.82	3.51

NC43 NC53 NC2 NC63 NC76 NC6 NC50-D NC28 NC28-D NC48-D NC100-D NC41-D NC13

37.20
28.02 50.67
44.33 56.43 57.06
49.49 51.06 46.55 76.58
43.29 30.05 48.86 55.15 56.79
32.49 62.20 36.02 32.20 39.81 28.57
38.13 26.81 53.76 54.82 50.02 84.25 25.62
55.66 36.60 27.20 51.97 64.27 44.90 45.96 39.46
32.61 49.38 34.21 33.58 42.02 30.97 80.23 27.59 65.65
46.29 22.00 14.79 28.09 31.17 21.98 16.80 19.39 54.55 36.63
33.38 19.05 14.03 14.07 22.74 15.18 49.74 13.70 38.11 53.48 44.83
23.34 9.68 2.49 15.59 27.53 15.18 42.16 13.32 39.97 47.05 40.85 61.46
31.60 33.85 26.39 47.91 43.85 25.24 25.22 21.97 50.23 32.35 56.03 18.94 37.08
38.05 26.36 18.81 22.17 34.53 28.47 29.31 24.29 52.11 31.55 38.44 35.31 49.19
40.24 37.78 24.60 55.59 53.08 25.16 36.98 22.25 70.80 50.48 47.00 40.93 43.61
32.38 26.07 16.23 29.70 38.19 48.47 34.43 41.38 45.86 36.86 52.47 26.32 42.11
50.34 36.97 32.27 48.43 62.91 60.87 35.67 52.24 65.69 35.68 20.60 15.16 22.17
49.21 36.96 36.35 57.20 69.96 83.19 34.84 71.72 56.29 37.09 33.40 23.74 26.51

25.78	31.55	31.02	20.16	29.62	21.25	43.15	18.21	37.90	40.66	18.57	30.87	35.82
49.53	34.79	38.70	41.57	51.11	85.53	29.52	71.66	49.29	31.50	26.35	18.04	18.97
45.41	33.28	51.31	54.43	63.71	88.46	28.51	75.60	48.22	28.59	22.41	15.90	17.09
24.91	37.46	12.62	45.13	41.23	6.97	42.55	6.17	42.37	47.64	38.22	50.05	65.30
36.02	23.02	25.76	30.12	30.18	46.08	19.49	38.99	43.10	19.93	50.17	15.90	33.05
31.49	30.20	63.39	51.22	47.62	84.36	27.66	84.98	34.45	29.93	19.90	15.89	12.69
42.20	34.36	37.00	39.07	48.10	85.61	31.85	70.73	47.64	33.99	25.99	17.84	18.69
42.13	34.34	37.05	34.11	42.40	73.28	38.42	60.88	50.87	40.09	32.32	23.10	25.25
39.16	45.57	61.80	78.64	61.07	63.37	22.81	63.39	35.71	18.94	16.07	2.41	4.16
50.38	33.86	34.86	40.94	48.01	87.29	34.02	72.79	53.08	35.91	29.24	20.71	22.42
51.78	36.45	40.11	43.83	52.22	76.15	35.58	64.04	56.74	37.90	23.07	16.26	22.26
61.86	27.46	20.69	33.78	36.86	22.39	22.52	19.21	50.67	25.64	65.38	34.82	34.69
49.69	31.92	36.67	37.93	51.02	73.53	34.62	62.90	58.13	34.63	33.74	24.52	27.87
21.19	57.21	34.36	29.30	33.07	24.40	54.62	22.26	30.06	44.79	8.06	18.27	10.87
43.47	34.42	37.05	43.09	54.39	73.22	37.74	63.38	59.24	40.83	25.53	19.01	22.52
43.47	30.41	31.78	58.75	66.19	65.07	27.03	57.53	70.44	44.44	54.62	29.59	25.06
68.53	20.75	22.71	26.92	33.54	35.58	8.99	30.95	30.48	8.99	47.83	19.35	20.71
43.40	34.34	35.47	42.08	34.71	29.12	9.90	24.43	14.26	6.59	32.97	10.08	8.70
26.30	15.74	16.72	12.20	22.47	19.75	48.92	15.26	21.19	39.47	24.17	59.96	52.80
25.48	63.47	52.72	39.83	40.23	28.05	62.08	24.45	34.05	58.13	6.99	24.34	14.49
40.39	36.51	30.46	38.48	48.47	78.22	33.28	65.71	46.43	34.82	27.28	18.30	18.33
32.09	30.20	63.35	50.72	48.52	85.51	26.68	84.89	33.98	28.58	20.27	15.67	12.93
43.22	31.66	48.64	52.49	59.34	91.67	25.57	76.74	46.47	26.20	23.28	15.90	15.47
48.99	17.26	7.94	16.18	26.48	12.45	47.66	11.12	28.12	43.31	29.68	62.10	54.88
16.69	65.01	43.86	30.05	24.60	16.87	70.43	15.02	23.63	57.37	9.87	36.53	32.21
29.07	34.11	12.64	38.16	38.64	18.74	54.21	16.82	39.68	44.47	23.07	43.69	44.48
39.47	36.21	67.32	65.17	50.15	43.99	22.96	58.37	31.70	23.20	22.26	11.03	7.40
47.54	29.44	42.71	47.56	59.37	89.82	24.53	76.93	42.91	25.18	24.34	16.47	16.89
38.36	22.96	33.92	29.70	25.31	38.45	10.51	30.93	29.60	10.51	32.70	15.86	10.59
36.73	46.50	54.94	39.29	36.53	32.97	26.28	25.84	27.09	21.50	21.78	13.91	2.70
50.61	38.00	25.10	44.47	57.41	64.64	45.29	56.67	69.13	49.59	44.06	33.52	39.94
16.10	38.95	39.03	35.37	30.55	19.75	23.66	17.35	20.89	19.24	27.86	7.80	14.12
43.17	10.91	4.51	19.80	26.79	22.72	22.07	20.25	51.61	40.23	73.91	47.69	41.68
52.51	35.40	37.83	46.94	52.84	72.16	24.37	62.53	50.95	25.11	30.04	16.13	14.49
35.84	30.53	32.86	28.48	34.20	33.08	38.02	28.22	50.78	38.36	24.46	16.76	26.11
38.91	24.15	31.71	31.95	35.34	53.19	41.08	43.17	51.84	41.85	20.41	27.42	32.81
18.16	8.99	3.15	13.40	19.81	28.75	41.59	25.65	34.01	41.54	30.52	43.00	61.74
18.80	17.42	7.65	18.21	12.85	0.00	22.27	0.00	16.67	25.05	28.04	42.63	27.98
48.22	50.11	36.59	41.71	50.39	61.46	40.84	52.87	53.22	40.85	35.84	29.74	23.10
47.50	35.96	35.87	42.15	50.29	84.30	35.40	72.42	52.38	38.13	28.74	19.85	21.40
38.08	26.85	19.66	33.61	21.52	14.29	31.31	10.72	18.91	23.89	29.72	43.79	43.06
49.49	27.73	37.45	36.18	46.31	72.40	22.41	58.30	47.16	22.42	32.05	21.91	20.32
17.32	61.34	54.11	48.25	42.38	30.14	40.28	23.37	25.51	35.50	4.34	16.84	4.45
38.06	34.24	47.28	46.94	47.93	59.99	15.08	51.66	38.95	15.08	33.76	12.13	9.93
37.29	19.65	20.70	23.09	19.71	13.30	10.85	12.16	15.55	7.82	33.13	13.15	12.58

42.03	16.45	18.38	25.41	19.90	14.84	14.45	13.33	15.93	10.81	20.68	14.40	9.43
24.89	11.80	15.90	18.37	11.85	19.72	10.46	17.70	20.51	10.46	24.63	7.09	17.60
14.47	21.25	14.87	20.58	19.45	7.71	39.59	7.16	32.96	44.27	34.29	40.29	30.80
54.41	6.57	13.53	8.14	10.89	17.16	12.03	13.53	21.73	12.03	31.77	28.68	24.50
9.86	16.43	12.38	8.45	5.86	0.39	24.72	0.37	5.28	20.28	14.88	34.31	21.97
46.15	30.71	22.50	38.93	48.25	65.96	38.29	55.42	60.83	39.47	35.76	33.07	39.26
39.34	40.98	45.05	50.53	61.64	78.45	36.74	66.42	46.41	36.75	27.81	22.98	19.37
40.89	29.69	51.50	56.21	56.02	91.52	27.91	79.90	44.28	28.83	21.69	15.02	14.97
49.81	34.33	30.13	45.53	51.84	85.10	32.30	72.69	51.83	33.25	25.72	17.44	18.19
12.96	35.23	15.84	22.83	21.68	7.39	45.65	6.95	25.80	44.58	23.27	36.11	26.31
42.10	30.40	48.25	58.13	53.98	76.69	26.89	91.53	43.41	27.25	23.31	16.95	17.40
35.11	29.50	15.90	29.31	18.34	5.31	25.35	4.81	11.98	21.49	18.45	29.31	19.53
35.10	43.43	55.13	71.51	57.10	53.73	18.84	71.11	31.29	15.03	15.64	0.00	6.66
27.82	50.58	58.84	36.37	29.71	29.94	46.95	23.97	32.77	42.75	19.08	29.01	21.94
54.63	33.00	32.32	39.74	50.66	79.22	29.84	67.00	50.36	30.57	31.17	21.44	23.61
49.92	20.98	29.08	21.21	30.73	51.96	18.62	42.65	38.61	18.62	41.58	29.00	20.59
21.63	16.39	21.51	15.80	15.72	35.19	14.84	29.57	28.88	16.62	48.97	19.43	35.39
46.73	33.11	38.65	41.35	50.99	85.35	27.43	72.01	47.00	28.85	24.48	16.55	16.99
43.51	22.83	64.82	51.85	47.05	66.00	15.28	73.10	30.21	15.81	29.48	19.66	9.61
53.79	37.23	29.64	43.71	53.73	80.03	34.36	68.08	55.75	36.39	31.26	21.55	23.75
35.79	32.73	46.64	43.67	51.35	87.39	31.33	74.57	40.15	33.72	22.59	16.58	14.49
32.71	19.69	19.15	22.84	34.24	42.87	14.40	37.45	34.05	14.40	43.65	15.66	29.32
20.63	34.57	28.63	28.13	23.62	11.96	41.99	10.89	38.38	51.98	31.96	60.31	44.76
50.23	29.58	19.67	34.41	43.74	68.25	32.71	57.05	59.12	33.90	40.10	23.62	34.16
18.23	57.07	52.91	51.10	46.85	24.88	37.07	21.48	23.34	32.07	4.58	15.53	3.72
16.26	23.53	49.47	27.52	21.90	27.94	20.69	20.83	16.17	20.70	5.58	13.62	3.10
50.99	16.66	17.53	6.32	16.71	19.80	46.56	17.36	28.05	49.11	25.96	55.45	43.01
48.83	26.70	33.07	33.98	41.82	79.13	22.57	65.54	38.94	25.05	26.60	18.66	15.87
31.74	39.71	52.46	52.46	45.24	57.58	24.96	50.95	33.75	25.62	21.36	12.08	5.83
46.96	42.45	37.54	55.36	50.55	60.12	26.28	52.10	53.35	26.29	37.53	16.45	14.92
29.11	24.93	72.16	51.93	49.28	61.46	17.40	66.21	34.12	17.41	15.62	9.67	11.76
68.53	65.01	72.16	78.64	69.96	91.67	80.23	91.53	70.80	58.13	73.91	62.10	65.30
9.86	6.57	2.49	6.32	5.86	0.00	8.99	0.00	5.28	6.59	4.34	0.00	2.70

NC78 NC99-D NC86 NC97 NC11 NC14 NC22 NC29 NC62 NC60 NC66 NC64 NC103 NC26-D

37.22

49.90 44.31

58.99 43.92 29.61

34.02 46.88 37.72 41.10

35.83 36.46 33.64 59.53 66.29

19.98	2.87	25.12	6.33	15.61	10.55	18.72	17.80	14.82	21.01	16.28	6.94	13.72	10.83
32.61	10.19	22.36	30.24	16.14	13.31	16.71	23.17	20.25	16.20	43.47	11.59	19.04	21.39
30.48	14.45	33.36	34.46	9.92	12.49	23.25	7.84	7.27	37.51	26.37	8.09	9.15	12.85
16.34	27.44	21.95	15.19	12.70	9.07	37.67	21.60	19.55	24.31	34.16	11.78	21.26	25.26
13.63	8.50	16.81	15.15	0.08	0.00	14.36	1.07	0.40	23.72	13.52	1.00	1.07	3.50
37.81	62.34	48.05	63.01	68.58	71.29	36.74	70.52	57.87	27.46	51.28	52.62	70.97	71.84
33.57	39.64	22.42	57.89	61.28	83.55	23.07	68.42	74.47	7.55	35.98	73.60	73.45	68.47
24.44	27.98	24.79	46.54	59.39	78.25	20.90	81.74	84.94	6.88	45.41	84.69	78.30	79.74
30.53	34.57	29.21	54.42	71.10	81.57	21.97	86.62	77.69	8.70	46.79	68.89	88.44	74.98
22.84	12.92	27.37	29.17	9.41	11.63	20.36	7.84	7.38	37.01	20.90	7.98	8.55	11.58
25.63	27.67	26.10	43.61	53.55	74.44	12.72	63.61	68.69	9.96	32.87	77.62	62.79	53.35
17.53	11.70	28.45	5.81	4.66	3.67	23.57	7.23	5.80	41.79	8.97	5.18	7.16	11.53
28.35	16.07	32.92	23.78	38.38	46.17	22.03	41.32	53.00	30.40	34.85	57.18	38.39	29.94
40.17	39.50	49.01	24.57	24.96	22.64	58.69	36.05	34.17	34.16	38.22	34.34	35.07	43.52
26.20	39.65	27.78	53.18	65.71	78.83	26.03	87.47	74.40	12.21	47.08	65.15	83.87	74.98
17.26	37.20	21.45	36.53	41.09	46.08	28.79	63.29	53.47	12.03	45.71	48.22	59.05	71.70
45.16	42.02	27.62	68.16	21.40	29.56	38.40	41.43	32.70	27.72	77.29	31.03	40.82	46.48
24.98	32.77	26.50	49.69	67.19	78.87	24.35	95.82	82.09	7.72	49.39	76.02	88.04	80.04
15.32	23.58	11.82	25.00	40.72	53.48	15.12	53.64	69.21	3.30	35.35	74.94	53.29	48.33
31.88	42.49	32.10	58.25	70.80	83.09	26.93	88.98	75.31	13.41	49.27	67.27	85.03	76.98
27.29	31.71	17.68	51.73	54.44	79.99	24.13	83.17	84.01	3.86	42.57	86.81	85.89	81.31
41.00	31.63	13.27	72.78	43.09	46.05	14.67	50.23	44.40	11.82	65.34	35.62	49.26	44.23
41.20	32.43	48.25	25.03	15.28	19.21	32.46	13.17	12.44	46.29	21.97	12.73	14.16	18.13
35.39	52.42	37.93	61.85	65.78	69.35	35.10	73.87	60.36	21.94	57.95	52.48	71.06	70.23
20.06	12.79	38.40	8.06	25.94	22.74	44.86	24.25	28.50	35.44	12.83	25.36	23.84	23.57
21.44	4.28	19.25	2.28	17.42	18.12	29.85	28.35	33.27	8.70	12.91	30.21	26.10	27.50
9.57	31.24	21.93	22.01	19.89	18.04	44.63	24.05	19.06	31.90	16.37	20.47	23.71	29.24
17.29	26.86	19.61	42.57	53.28	68.87	17.39	86.18	71.79	5.79	40.17	69.60	83.59	79.11
39.89	25.51	25.50	28.86	43.92	54.55	21.03	47.15	61.89	6.51	33.96	56.01	48.39	47.16
50.10	39.14	43.93	47.63	67.37	66.43	18.09	66.71	60.37	16.96	53.95	48.13	66.29	59.19
19.03	29.96	19.10	22.40	46.47	48.45	23.18	51.54	65.92	8.19	35.99	73.11	49.29	47.97
59.22	62.34	66.31	72.78	78.36	86.50	70.11	95.82	91.03	63.76	77.29	96.41	93.73	83.38
9.57	2.87	11.82	2.28	0.08	0.00	11.75	0.71	0.00	3.30	8.97	0.65	0.70	3.27

NC56 NC80 NC25-D NC102 NC8 [NC53-D](#) NC40-D NC57 NC68 NC32 NC38-D NC49-D NC96

51.15
 51.35 82.40
 24.11 31.51 32.55
 44.03 84.28 77.21 40.01
 27.08 27.81 29.70 11.07 27.73
 45.59 77.92 83.91 32.46 80.42 30.63
 50.47 59.56 51.65 35.88 56.88 18.39 54.74
 31.75 40.00 43.41 48.57 42.84 11.98 44.23 33.84
 51.60 25.47 30.01 26.46 22.30 16.08 21.21 20.03 52.07
 18.52 26.43 26.71 26.66 28.33 20.64 24.07 4.29 22.45 26.54
 38.19 31.72 37.28 12.04 33.45 52.47 39.68 19.07 14.52 21.22 30.79
 42.99 83.86 69.58 24.72 70.53 25.46 73.08 57.14 33.64 20.04 14.85 28.84
 58.35 74.10 63.17 16.74 60.56 23.31 60.18 51.33 27.31 27.41 20.03 27.22 72.66
 58.89 83.07 74.44 24.06 71.90 24.98 69.62 64.45 37.96 32.39 16.25 29.88 76.78
 11.30 18.46 18.04 35.48 20.66 16.78 17.83 11.60 32.64 33.72 74.44 22.84 15.18
 33.08 23.31 23.31 14.02 26.63 53.64 23.56 10.97 6.62 19.65 44.52 68.43 16.30
 31.32 24.75 24.87 25.51 26.45 25.37 25.22 25.11 19.00 23.99 56.14 36.71 18.84
 63.89 28.42 29.46 28.68 25.33 17.26 28.86 40.63 21.88 35.31 4.85 24.69 32.41
 55.28 83.97 70.07 25.44 75.10 20.99 68.77 64.77 39.90 27.95 16.78 24.13 79.18
 45.74 44.76 47.10 44.97 48.94 12.48 47.72 29.25 43.59 52.04 21.49 21.06 30.88
 56.72 37.11 44.43 31.91 37.66 27.55 37.37 20.26 32.22 50.82 30.71 45.83 30.40
 36.05 74.76 67.13 50.29 77.79 27.06 73.99 63.25 32.37 16.16 21.16 29.23 76.44
 45.35 21.19 23.37 18.62 24.02 25.69 24.07 18.52 28.92 53.95 18.09 37.93 23.08
 8.68 29.33 19.44 46.51 34.58 8.59 22.90 49.00 44.37 24.34 27.07 10.72 23.77
 48.56 75.33 71.80 33.31 82.68 25.11 77.50 62.29 48.93 22.41 10.65 36.49 69.15
 37.60 43.32 45.99 33.41 51.42 27.56 49.43 26.97 28.35 21.18 38.12 45.78 34.91
 33.19 60.91 66.61 28.07 67.64 27.39 69.40 38.79 30.37 16.89 31.46 51.43 44.63
 14.00 35.60 33.90 20.93 37.30 14.64 38.05 24.33 22.66 11.10 51.09 18.68 29.94
 12.90 2.37 1.61 14.84 3.12 9.86 0.99 11.88 15.79 40.55 32.74 13.21 0.21
 34.80 65.88 60.02 35.38 63.27 30.87 63.41 56.78 31.07 17.59 8.57 41.13 75.80
 49.49 90.81 83.94 31.08 81.97 29.01 85.20 57.09 41.80 25.64 24.35 35.94 87.08
 38.68 19.80 20.41 30.18 22.28 15.81 15.59 6.90 39.36 55.12 66.64 27.71 2.38
 41.20 81.38 74.21 35.62 81.11 22.11 68.30 53.23 46.85 27.64 22.93 25.35 69.22
 46.83 31.17 36.55 8.77 33.30 39.38 34.59 17.58 10.40 37.46 28.94 70.04 25.44
 53.47 59.92 57.46 39.14 67.94 17.02 65.05 56.34 44.18 32.16 6.50 28.93 58.70
 31.55 17.98 17.63 29.10 19.92 14.55 16.75 10.18 44.28 70.88 24.64 17.50 10.67

34.97	17.23	18.63	23.33	19.34	12.12	17.80	12.34	46.95	70.93	25.38	23.30	7.22
32.33	25.76	25.96	20.39	27.91	8.41	21.51	12.73	29.32	47.94	16.19	14.12	10.21
13.70	11.36	10.73	16.23	11.44	16.82	10.24	25.30	10.04	13.78	32.60	24.85	8.93
15.72	25.22	25.44	42.04	31.78	8.96	23.95	8.84	59.57	44.79	40.90	14.97	7.89
11.36	2.64	1.94	10.36	3.37	15.16	1.35	0.00	9.69	26.17	31.68	18.98	0.62
31.73	75.91	65.10	40.53	76.15	26.20	72.09	53.33	29.11	10.47	28.15	26.34	71.76
47.74	69.90	58.50	25.56	62.36	26.35	62.61	64.95	28.23	21.58	10.91	30.09	81.82
62.09	78.68	77.50	22.02	71.06	24.15	69.71	62.20	35.04	30.50	18.60	27.61	72.26
50.36	90.14	75.79	27.23	77.81	27.22	76.90	63.54	40.05	21.13	13.71	31.37	89.18
14.71	10.38	9.82	11.49	10.75	28.59	9.39	18.45	9.41	17.18	30.60	29.60	8.35
57.65	65.47	54.31	23.93	55.29	20.49	52.31	61.19	27.28	19.93	6.91	20.54	62.82
29.78	10.31	9.32	21.99	12.51	18.06	8.52	2.92	27.80	61.33	38.33	29.02	5.41
77.22	41.26	42.18	18.76	35.32	24.42	35.56	44.52	32.42	42.24	16.25	31.66	36.70
46.57	37.33	42.96	26.52	39.41	38.21	33.29	20.24	15.96	33.68	37.39	61.61	27.11
44.09	87.72	76.58	34.35	81.42	25.20	74.30	54.33	45.38	22.96	21.26	30.29	83.31
31.16	61.39	61.71	49.58	67.77	18.63	55.26	39.32	50.46	33.79	33.83	20.05	47.89
23.00	43.61	33.76	35.26	52.53	11.53	37.56	25.34	32.96	26.39	25.80	18.29	33.37
50.64	89.43	84.91	25.62	82.36	23.38	75.71	58.21	40.16	29.32	21.84	27.96	81.49
55.72	51.01	50.31	33.83	49.58	17.33	52.49	48.15	43.98	33.81	20.94	20.51	46.40
44.85	88.23	79.02	34.45	81.62	27.83	78.00	58.15	41.44	20.51	19.10	32.46	87.15
50.89	81.53	76.67	19.17	68.05	26.18	71.84	58.80	30.85	31.54	21.74	31.18	82.02
24.82	48.49	44.19	31.34	54.57	14.46	49.72	41.09	52.07	28.23	14.11	11.76	48.71
24.02	16.90	16.45	28.12	18.09	23.70	14.82	27.77	7.38	21.79	32.79	34.20	14.27
41.02	78.70	66.26	42.84	77.73	22.85	65.50	55.84	38.30	19.18	22.88	22.32	73.27
50.61	22.65	25.39	9.44	26.85	36.48	28.44	19.80	12.70	36.42	22.77	67.48	23.12
40.66	23.99	29.78	11.29	26.42	16.80	25.94	14.09	11.73	35.50	19.27	37.75	15.85
7.33	27.15	27.54	33.11	30.39	21.71	28.24	8.58	41.47	26.65	58.56	31.96	22.29
41.24	85.42	77.70	28.19	72.00	20.07	67.39	48.75	41.08	28.79	23.99	22.48	71.30
60.81	46.26	50.38	23.66	41.15	25.22	49.96	45.52	25.01	46.69	3.41	36.62	51.81
51.78	66.47	61.56	43.43	68.87	21.75	69.23	61.88	41.86	24.25	2.74	33.00	68.05
59.13	46.44	53.70	22.58	50.81	18.76	52.45	45.04	32.57	28.31	13.40	25.15	40.52
77.22	90.81	84.91	50.29	82.68	53.64	85.20	64.95	59.57	70.93	74.44	70.04	89.18
7.33	2.37	1.61	8.77	3.12	8.41	0.99	0.00	6.62	10.47	2.74	10.72	0.21

NC65.2 NC82 NC39-D NC26 NC27-D NC85.2 NC16 NC31 NC25 NC9 NC74 NC100 NC29-D

7.05	14.39	40.21	21.93	21.44	23.28	16.16	50.24	38.40	11.34	42.79	26.76	19.61
11.78	19.56	8.68	17.77	18.20	20.84	20.22	51.98	33.67	19.82	46.68	24.24	21.61
7.21	7.43	29.07	27.16	56.03	11.43	4.58	6.57	14.41	19.46	25.75	41.83	7.58
12.03	18.33	55.38	22.10	18.12	3.93	15.78	34.57	24.20	20.47	11.13	36.45	20.80
0.78	0.40	26.73	27.50	32.84	9.03	0.40	15.57	14.97	3.06	25.58	13.43	0.89
54.64	63.97	31.94	28.17	27.87	24.38	65.93	31.10	19.28	79.93	19.75	33.15	64.94
74.81	79.05	14.29	17.50	19.64	48.40	77.21	25.97	30.74	70.73	24.28	24.41	62.17
81.55	88.64	11.44	16.66	18.52	45.23	82.59	37.88	34.91	62.45	19.48	22.44	69.53
70.54	83.43	12.71	16.86	21.52	32.08	86.11	36.38	29.85	73.09	22.80	26.17	80.55
7.32	7.50	26.47	34.99	53.68	8.23	5.18	4.11	12.00	16.89	20.90	25.60	7.63
78.19	72.61	11.86	10.79	20.23	62.14	71.83	24.73	19.46	57.05	15.16	23.86	57.22
5.25	5.56	53.07	37.36	31.16	21.36	5.75	36.77	34.52	10.14	34.88	18.64	7.57
57.18	50.52	9.63	20.52	35.17	59.73	47.50	22.79	32.45	30.99	32.62	10.79	40.72
30.67	34.24	27.29	68.68	25.18	34.23	23.69	39.57	62.99	29.33	53.01	10.25	31.13
68.24	78.84	18.39	17.79	19.39	32.05	88.17	43.47	34.73	72.53	18.63	31.07	78.62
45.32	58.17	24.30	16.13	19.49	16.90	52.92	57.94	45.44	58.05	11.41	43.55	58.29
31.64	37.41	14.55	23.07	23.77	9.87	34.22	35.10	24.47	41.28	39.90	39.02	42.72
73.87	85.37	13.69	18.36	18.56	29.57	84.59	43.27	40.05	69.12	22.09	25.04	78.76
76.04	65.22	13.04	10.54	9.95	66.91	60.60	44.69	35.90	37.42	13.53	24.05	55.72
69.33	78.60	19.18	19.78	23.86	31.95	82.64	39.65	30.82	78.50	21.98	31.15	78.21
83.55	87.89	12.97	18.61	15.71	39.82	82.32	35.04	39.35	65.05	21.98	19.90	66.25
36.34	45.64	10.56	4.65	20.75	19.45	47.90	35.32	23.41	50.29	34.75	37.54	52.10
11.84	12.44	35.74	47.61	38.49	27.72	8.85	30.21	26.36	26.58	40.71	25.92	13.43
53.84	67.27	21.54	16.08	34.12	18.47	69.25	36.57	24.78	76.89	20.83	40.20	66.29
25.26	26.65	14.74	51.68	33.45	32.52	26.55	25.05	55.07	20.62	44.55	5.17	29.40
29.21	32.27	7.60	35.22	7.63	43.87	25.74	49.42	67.60	12.86	37.78	5.78	24.47
20.28	15.35	72.04	40.69	30.12	9.17	20.57	18.24	24.30	29.03	14.96	30.95	14.37
68.95	78.49	16.21	12.35	13.01	28.93	80.46	44.27	40.99	58.80	13.36	26.94	69.47
54.74	59.92	1.68	28.00	12.91	60.27	53.77	60.98	51.68	42.00	59.48	9.21	49.74
47.90	62.57	6.92	26.47	24.15	42.30	59.41	50.30	39.99	68.44	32.98	28.30	77.76
73.73	62.18	5.07	16.98	15.20	59.44	54.38	37.02	36.19	39.57	16.98	14.62	52.72
83.55	88.64	72.04	68.68	56.03	66.91	88.17	62.55	67.60	79.93	59.48	43.55	80.55
0.42	0.00	1.68	4.65	7.63	1.08	0.00	4.11	2.25	3.06	10.88	4.65	0.49

NC37-D NC51-D NC7 [NC44](#) NC20 NC23 NC55 NC73 NC50 NC70 [NC17](#) [NC46](#) [NC34](#) [NC48](#) NC35

56.90
30.97 41.67
8.66 6.17 29.85
36.57 47.66 22.60 5.93
43.96 62.21 35.48 1.49 72.40
26.58 31.65 42.31 43.19 1.99 15.46
36.04 60.14 23.72 1.94 59.50 78.04 21.85
41.78 44.35 9.30 14.83 33.55 31.89 38.29 28.62
35.73 50.68 18.74 2.49 55.79 64.88 17.54 63.20 34.38
19.98 12.73 32.23 49.14 10.09 17.12 44.38 18.73 17.39 21.30

NC37 NC77 NC79 NC5 NC21 NC24 NC67 NC43-D NC58 NC104 NC3 NC19 NC94 NC72 NC36

5.72
1.35 67.11
0.39 62.86 75.61
0.73 74.84 75.61 77.98
65.63 11.31 11.17 7.34 8.21
0.00 56.81 69.52 73.37 70.24 8.92
26.53 11.87 3.92 5.26 6.54 19.02 3.10
6.88 27.33 42.56 53.56 43.91 17.77 69.20 19.33
22.90 36.96 26.81 34.32 26.88 22.48 18.32 32.75 26.55
2.23 75.25 69.43 74.15 88.17 7.28 62.64 10.08 38.54 27.34
6.92 49.73 42.05 60.71 51.64 7.11 36.49 19.34 23.54 31.57 60.61
18.65 43.82 28.51 34.70 34.40 23.55 23.55 12.21 18.53 36.23 39.59 42.12
0.40 67.83 68.60 83.93 85.89 7.12 63.86 5.78 42.04 37.22 85.13 63.93 39.45
3.33 35.45 53.89 66.99 49.19 3.41 67.41 11.98 58.40 23.66 51.07 52.81 25.43 53.53
2.32 79.91 73.61 74.84 88.58 9.63 65.20 9.02 40.83 29.63 92.86 57.00 38.94 85.89 47.78
0.58 60.04 79.52 85.34 79.13 7.89 65.16 5.72 41.22 37.36 73.50 55.04 35.50 85.64 59.70
14.41 44.34 42.84 42.25 49.90 21.56 36.47 3.54 27.04 13.26 54.77 48.10 67.50 48.20 36.34
42.77 26.46 18.68 11.84 13.72 37.64 13.88 29.22 12.45 51.95 12.45 9.12 21.62 12.00 5.95
4.81 76.53 65.37 62.96 78.81 14.33 59.01 6.36 39.82 25.97 77.08 57.09 48.27 71.92 33.04
13.38 14.27 29.24 24.49 22.79 21.58 17.63 34.11 41.03 51.82 23.27 16.04 15.74 24.47 21.28
11.04 9.31 24.72 29.50 16.24 6.43 13.84 27.66 13.66 51.65 19.24 27.23 16.04 28.59 31.37
19.87 32.01 20.49 17.98 20.42 19.07 11.57 49.35 4.21 31.87 27.44 32.35 18.39 21.63 20.49
1.76 61.96 58.19 79.21 80.65 4.44 58.57 8.39 32.82 30.42 82.51 69.51 33.72 85.74 53.73
13.17 36.82 63.26 55.17 52.10 8.64 48.46 27.51 42.13 42.14 45.20 28.44 23.11 46.75 46.85
3.84 65.58 64.30 59.07 70.25 9.03 53.43 13.18 38.38 37.52 65.93 48.42 40.09 64.87 42.90
0.42 33.89 50.84 64.40 41.72 6.05 60.07 6.19 58.66 28.34 42.89 45.77 27.36 51.75 80.02

65.63 79.91 79.52 85.34 88.58 37.64 69.20 49.35 58.66 51.95 92.86 69.51 67.50 85.89 80.02

0.00 9.31 3.92 5.26 6.54 3.41 3.10 3.54 4.21 13.26 12.45 9.12 15.74 12.00 5.95

NC88 NC91 NC15 NC104-D NC30 NC49 NC18 NC45-D NC1 NC52-D NC89 NC90

75.71										
54.43	40.88									
16.29	13.05	8.19								
80.80	59.84	53.43	21.10							
21.83	27.96	8.50	21.82	13.30						
14.90	33.82	5.93	24.20	4.19	52.57					
27.35	21.99	13.28	28.06	24.06	23.02	24.46				
78.05	76.90	46.99	7.52	63.43	16.59	26.67	24.46			
48.47	59.25	25.92	36.39	39.66	40.40	50.17	12.97	38.19		
71.64	57.07	49.19	24.37	64.22	33.38	28.01	9.22	53.83	56.31	
41.60	55.75	29.54	7.35	34.52	31.60	37.70	12.02	42.59	47.84	41.88
80.80	76.90	53.43	36.39	64.22	52.57	50.17	24.46	53.83	56.31	41.88
14.90	13.05	5.93	7.35	4.19	16.59	24.46	9.22	38.19	47.84	41.88

colony

site	region	species
21 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
22 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
23 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
24 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
25 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
26 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
27 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
28 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
29 NCPIND1 (night dive 1)	Ile des Pins	<i>P. damicornis</i>
37 NCP15 (night dive 2)	Ile des Pins	<i>P. damicornis</i>
43 NCP15 (night dive 2)	Ile des Pins	<i>P. damicornis</i>
44 NCP15 (night dive 2)	Ile des Pins	<i>P. damicornis</i>
45 NCP15 (night dive 2)	Ile des Pins	<i>P. damicornis</i>
47 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
48 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
49 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
50 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
51 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
53 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
55 NCPIND3 (night dive 3)	Ile des Pins	<i>P. damicornis</i>
98 NCSUND4 (night dive 4)	Surprise Atoll	<i>P. damicornis</i>
99 NCSUND4 (night dive 4)	Surprise Atoll	<i>P. damicornis</i>
100 NCSUND4 (night dive 4)	Surprise Atoll	<i>P. damicornis</i>
102 NCSUND4 (night dive 4)	Surprise Atoll	<i>P. damicornis</i>
103 NCSUND4 (night dive 4)	Surprise Atoll	<i>P. damicornis</i>
104 NCSUND4 (night dive 4)	Surprise Atoll	<i>P. damicornis</i>

average

std. dev.

mean ratio > 1? (Wilcoxon sign-rank test)

mean difference > 0? (Wilcoxon sign-rank test)

matched pairs *t*-test

effect

NS=not significant

When differences were

statistically significant, the *p*-value

has been displayed.

Symbiodinium genome copy proportion (GCP) x 10⁴ RNA/DNA ratio

Sym GCP: light	Sym GCP: dark	Sym GCP: light/dark	RNA/DNA: light	RNA/DNA: dark
4.9	9.6	0.5	1.5	0.8
1.0	4.5	0.2	1.3	1.1
1.8	4.0	0.5	1.1	2.1
0.3	4.3	0.1	3.3	2.4
4.5	3.9	1.2	0.8	0.6
2.8	.	.	1.3	0.2
1.7	0.5	3.4	2.7	2.1
22.0	1.3	16.9	1.2	3.6
4.8	4.6	1.0	0.8	1.3
0.5	0.8	0.6	1.6	1.2
16.0	2.8	5.7	2.1	1.5
0.7	0.8	0.9	4.1	1.6
3.2	1.4	2.3	1.1	1.5
1.9	2.2	0.9	0.9	1.1
0.4	1.1	0.4	5.8	3.6
6.3	3.9	1.6	1.4	1.4
5.4	1.7	3.2	0.9	2.2
0.6	2.4	0.3	0.9	0.8
13.0	3.3	3.9	2.0	1.5
1.6	2.1	0.8	0.9	1.5
3.0	2.0	1.5	0.2	1.4
1.6	0.7	2.3	0.2	1.9
0.3	1.0	0.3	4.9	3.8
1.3	0.4	3.3	2.3	1.7
4.6	1.7	2.7	1.0	1.3
.	.	.	0.6	2.0
4.2	2.5	2.3	1.7	1.7
5.3	2.0	3.4	1.4	0.9

NS
 did not test
 NS

|

host coral green fluorescent protein-like chr

RNA/DNA: light/dar	RNA/DNA: light-dar	non-norm <i>gfpcp</i> : light	non-norm <i>gfpcp</i> : dark
1.9	0.7	0.3	3.2
1.2	0.2	6.8	2.1
0.5	-1.0	0.0	0.8
1.4	0.9	2.7	3.8
1.3	0.2	10.0	2.0
6.5	1.1	3.2	0.3
1.3	0.6	6.2	1.7
0.3	-2.4	1.1	2.3
0.6	-0.5	4.8	6.8
1.3	0.4	14.0	3.8
1.4	0.6	31.0	38.0
2.6	2.5	53.0	35.0
0.7	-0.4	40.0	31.0
0.8	-0.2	27.0	2.9
1.6	2.2	2.3	0.2
1.0	0.0	8.4	3.1
0.4	-1.3	3.1	0.8
1.1	0.1	.	.
1.3	0.5	3.6	2.7
0.6	-0.6	32.0	9.6
0.1	-1.2	13.0	.
0.1	-1.7	.	10.1
1.3	1.1	43.0	34.0
1.4	0.6	30.0	23.0
0.8	-0.3	0.5	4.9
0.3	-1.4	2.2	2.3
1.2	0.0	14.1	9.4
1.2	1.1	15.9	12.5

NS

NS

NS

|

omoprotein (gfpcp) non-normalized (non-norm) mRNA exp host coral gfpcp no

non-norm gfpcp: light-dark	non-norm gfpcp: light/dark	gfpcp/Solaris: light	no
	-2.9	0.1	2
	4.7	3.2	45
	-0.8	0.0	0
	-1.1	0.7	22
	8.0	5.0	120
	2.9	10.7	31
	4.5	3.6	55
	-1.2	0.5	7
	-2.0	0.7	34
	10.2	3.7	199
	-7.0	0.8	275
	18.0	1.5	575
	9.0	1.3	315
	24.1	9.3	275
	2.1	11.5	16
	5.3	2.7	55
	2.3	3.9	34
.	.	.	.
	0.9	1.3	32
	22.4	3.3	275
.	.	.	.
.	.	.	.
	9.0	1.3	234
	7.0	1.3	190
	-4.4	0.1	3
	-0.1	1.0	29
	4.8	2.9	123
	8.0	3.3	146

$p < 0.01$
 $p < 0.01$
 $p < 0.01$
 light > dark (3-fold)

|

normalized to recovery of the exogenous Solaris™ RNA spike | **normalized (no**

gfpcp/Solaris: dark | *gfpcp*/Solaris: light-dark | *gfpcp*/Solaris: light/dark | norm *gfpcp*: light

31	-29	0.1	2
13	32	3.5	46
6	-6	0.0	0
28	-6	0.8	22
12	108	10.0	125
2	29	14.1	
15	40	3.7	55
14	-7	0.5	9
41	-7	0.8	36
23	176	8.7	200
478	-203	0.6	328
301	274	1.9	579
338	-23	0.9	326
39	236	7.1	281
1	15	14.5	16
25	30	2.2	58
5	29	7.2	35
23			
18	14	1.8	37
83	192	3.3	279
203	31	1.2	234
144	46	1.3	192
42	-39	0.1	3
23	6	1.3	
80	41	3.7	136
125	101	4.4	154

$p < 0.01$

$p < 0.05$

$p < 0.05$

light > dark (4-fold)

Conclusion: Re
light express 3-f
darkness.

norm <i>gfpcp</i> : dar			norm <i>gfpcp</i> : light-dar		norm <i>gfpcp</i> : light/dar		non-norm Sym ubi	
host coral <i>gfpcp</i> (see main text for details.)							Sym ubi	
35	-33	0.1	9					
14	32	3.3	62					
6	-6	0.0	14					
29	-7	0.8	70					
13	112	9.6	80					
			208					
15	40	3.7	114					
14	-5	0.7	22					
43	-7	0.8	25					
23	177	8.7	137					
492	-164	0.7	95					
303	276	1.9	208					
343	-17	1.0	111					
40	241	7.0	44					
1	15	14.5	177					
26	32	2.2	345					
5	30	7.3	194					
19	18	1.9	122					
84	195	3.3	154					
205	29	1.1	23					
144	48	1.3	34					
43	-40	0.1	0					
			58					
90	46	3.3	100					
134	102	3.9	85					

$p < 0.05$
light > dark (3-fold)

regardless of normalization strategy, colonies sampled in the old higher levels of *gfpcp* than those sampled during

|

quitin ligase (*ubiqlig*) non-normalized (non-norm) mRNA expression data

non-norm Sym *ubiqlig*: da non-norm Sym *ubiqlig*: light-da non-norm Sym *ubiqlig*: light/da

72	-63	0.1
28	34	2.2
29	-15	0.5
36	34	1.9
62	18	1.3
35	173	5.9
77	37	1.5
46	-24	0.5
46	-21	0.5
47	90	2.9
137	-42	0.7
58	150	3.6
101	10	1.1
5	39	8.3
169	8	1.0
208	137	1.7
222	-28	0.9
104	18	1.2
30	124	5.1
18	5	1.3
27	7	1.3
25	-25	0.0
79	-21	0.7
72	28	1.9
60	64	2.0

$p=0.05$

NS

$p<0.05$

Sym ubiqlig mRNA expression normalized to recovery of the exogeno

Sym ubiqlig/Solaris: ligtSym ubiqlig/Solaris: daSym ubiqlig/Solaris: light-da

88	691	-603
416	177	239
137	218	-81
575	262	313
934	379	555
2001	233	1768
1001	660	341
137	274	-137
181	281	-100
1956	281	1675
851	1702	-851
2246	500	1746
871	1123	-252
446	72	374
1176	776	400
2246	1702	544
2096	1261	835
1097	691	406
1320	256	1064
125	106	19
218	169	49
2	213	-211
741	794	-53
907	557	350
753	482	693

us Solaris™ RNA spike normalized (norm) *Symbiodinium ubiquitin ligase* mRNA expression
 Sym *ubiquitin ligase*/Solaris: light/dark norm Sym *ubiquitin ligase*: light/dark norm Sym *ubiquitin ligase*: dark

0.1	2	7
2.4	42	4
0.6	4	12
2.2	229	6
2.5	21	10
8.6	.	.
1.5	59	138
0.5	1	20
0.6	4	6
7.0	373	35
0.5	5	61
4.5	314	66
0.8	27	78
6.2	20	4
1.5	289	73
1.3	36	44
1.7	39	73
.	.	.
1.6	8	21
5.2	84	12
.	.	.
.	.	.
1.2	41	11
1.3	17	39
0.0	0	13
0.9	.	.
2.3	77	35
2.3	116	35

$p < 0.01$
 $p < 0.05$
 $p < 0.05$
 light > dark (2-fold)

Conclusion: *Symbiodinium ubiquitin ligase* mRNA expression is significantly higher in light and dark after properly normalizing to a common reference gene (Solaris) to the mRNA pools (by dividing by the *Symbiodinium ubiquitin ligase* mRNA expression in Solaris).

|

pression (see main text for details.)

Symbiodinium (Sym) z

norm Sym *ubiq1ig*: light-da norm Sym *ubiq1ig*: light/da non-norm Sym *zif11*: ligh

-5	0.3	3
38	10.8	70
-9	0.3	15
223	37.5	131
11	2.1	119
.	.	62
-79	0.4	154
-19	0.0	23
-2	0.7	57
338	10.7	173
-56	0.1	106
248	4.8	157
-51	0.3	109
16	5.3	84
216	4.0	154
-8	0.8	217
-34	0.5	82
.	.	.
-13	0.4	208
72	7.0	165
.	.	.
.	.	.
30	3.7	58
-22	0.4	88
-13	0.0	104
.	.	35
42	4.3	103
113	8.3	60
NS		
NS		
NS		

(*ubiq1ig*) mRNA expression does not differ significantly between
 ccount for differential *Symbiodinium* mRNA contribution
iodinium genome copy proportion [GCP]).

inc-induced facilitator-like 1-like (*zif11*) non-normalized (non-norm) mRNA expi

non-norm Sym *zif11*: darnon-norm Sym *zif11*: light-darnon-norm Sym *zif11*: light/dark

15	-12	0.2
11	59	6.4
10	5	1.5
17	114	7.7
26	93	4.6
4	58	15.1
44	110	3.5
23	0	1.0
8	49	7.0
70	103	2.5
62	44	1.7
11	146	14.3
35	74	3.1
10	74	8.4
4	150	36.7
7	210	31.9
17	65	4.8
.	.	.
7	201	29.7
14	151	11.8
.	.	.
.	.	.
194	-136	0.3
75	13	1.2
27	77	3.9
27	8	1.3
<hr/>		
31	72	8.6
41	76	10.5

$p < 0.0001$

$p < 0.0001$

$p < 0.0001$

light>dark (9-fold)

Sym *zif11* mRNA expression normalized to recovery of the exoge

Sym *zif11*//Solaris: lighSym *zif11*//Solaris: daSym *zif11*//Solaris: light-dar

28	147	-119
467	69	398
144	74	70
1072	122	950
1383	158	1225
602	27	575
1351	379	972
144	134	10
406	50	356
2464	416	2048
955	776	179
1702	91	1611
851	388	463
851	140	711
1024	19	1005
1415	56	1359
891	97	794
1867	46	1821
1415	119	1296
315	1149	-834
562	467	95
562	228	334
446	268	178
909	236	674
612	270	688

nous Solaris RNA spike normalized (norm) Sym zifl1/ mRNA ex

Sym zifl1/Solaris: light/danorm Sym zifl1: lightnorm Sym zifl1: dark

0	564	1530
7	46808	1517
2	3628	4170
9	426927	2825
9	30576	4069
22		
4	80193	79221
1	644	9989
8	8790	1027
6	469551	52432
1	5883	28014
19	237959	11947
2	26265	27004
6	38059	7439
54	251330	1802
25	22540	1438
9	16536	5628
41	14000	1397
12	89912	5651
0	104347	117921
1	44810	106930
2	12147	13536
2		
11	91975	23118
14	137626	35535

$p < 0.0001$

$p < 0.0001$

$p < 0.0001$

light > dark (11-fold)

Conclusion: *Symbiodinium* expresses 4-night.

|

pression (see main text for details.)

host coral copper-zinc su

norm Sym <i>zifl1l</i> : light-da	norm Sym <i>zifl1l</i> : light/da	non-norm host <i>cuznsod</i> : ligl
-966	0.4	9
45291	30.9	415
-542	0.9	46
424102	151.1	523
26507	7.5	250
		322
972	1.0	396
-9345	0.1	64
7763	8.6	54
417119	9.0	238
-22131	0.2	212
226012	19.9	435
-739	1.0	329
30620	5.1	329
249528	139.5	406
21102	15.7	587
10908	2.9	379
12603	10.0	455
84261	15.9	535
-13574	0.9	106
-62120	0.4	274
-1389	0.9	5
		222
68856	20.1	287
138534	42.4	176

$p < 0.01$

$p < 0.05$

$p < 0.05$

light > dark (12-fold)

to 20-fold higher levels of *zifl1l* in the day than at

peroxide dismutase (*cuZnsod*) non-normalized (non-norm) mRNA expression

non-norm host <i>cuZnsod</i> :	darnon-norm <i>cuZnsod</i> :	light-darnon-norm <i>cuZnsod</i> :	light/da
307	-298		0.0
71	344		5.8
93	-47		0.5
169	354		3.1
256	-6		1.0
48	274		6.7
477	-81		0.8
353	-289		0.2
114	-60		0.5
425	-187		0.6
511	-299		0.4
337	98		1.3
185	144		1.8
51	278		6.5
511	-105		0.8
396	191		1.5
494	-115		0.8
.	.	.	.
511	-56		0.9
73	462		7.3
.	.	.	.
.	.	.	.
169	-63		0.6
228	46		1.2
198	-194		0.0
208	14		1.1
<hr/>			
269	18		1.9
164	218		2.3
	NS		
	NS		
	NS		

Vertical line on the right side of the page.

host coral *cuZnsod* mRNA expression normalized to recovery of th*cuZnsod*/Solaris: light *cuZnsod*/Solaris: dark *cuZnsod*/Solaris: light-dark

91	2964	-2873
2766	446	2320
446	691	-245
4290	1232	3058
2896	1552	1344
3104	323	2781
3484	4096	-612
397	2096	-1699
388	691	-303
3405	2521	884
1911	6353	-4442
4705	2896	1809
2580	2048	532
3327	691	2636
2702	2353	349
3822	3251	571
4096	2798	1298
4096	3405	691
4598	630	3968
575	1001	-426
1742	1415	327
24	1702	-1678
2830	2096	734
2534	2054	479
1540	1415	1950

ie exogenous Solaris RN **normalized host coral *cuznsod* mRNA expression (see ma**

cuznsod/Solaris: light/dark norm *cuznsod*: ligh norm *cuznsod*: darl norm *cuznsod*: light-darl

0.0	95	3279	-3184
6.2	2793	467	2326
0.6	464	704	-240
3.5	4301	1288	3013
1.9	3034	1615	1419
9.6			
0.9	3544	4116	-572
0.2	511	2124	-1613
0.6	407	727	-320
1.4	3423	2541	882
0.3	2281	6535	-4254
1.6	4739	2918	1821
1.3	2667	2078	589
4.8	3403	705	2698
1.1	2713	2378	335
1.2	4078	3382	696
1.5	4329	2847	1482
.			
1.2	4726	3521	1205
7.3	4671	644	4027
.			
.			
0.6	576	1010	-434
1.2	1764	1421	343
0.0	24	1732	-1708
1.4			
2.1	2597	2192	405
2.5	1665	1472	1997

NS
NS
NS

Conclusion: host corals express similar levels of *cuznsod* dur

|

in text for details.) host coral lectin non-normalized (non-

norm *cuznsod*: light/danon-norm *lectin*: lighnon-norm *lectin*: dark

0.0	14	218
6.0	499	511
0.7	111	177
3.3	1046	137
1.9	268	61
	999	280
0.9	161	147
0.2	27	117
0.6	20	29
1.3	466	361
0.3	20	173
1.6	315	203
1.3	322	322
4.8	75	38
1.1	574	1623
1.2	587	740
1.5	379	1660
1.3	954	3478
7.3	75	31
0.6	238	329
1.2	217	322
0.0	222	445
	445	615
1.8	349	522
2.0	313	778

NS

NS

NS

ing the day and night.

norm) mRNA expression data	host coral <i>lectin</i> ml
non-norm <i>lectin</i> : light-dar	non-norm <i>lectin</i> : light/dar/ <i>lectin</i> /Solaris: light
-204	0.1
-12	1.0
-66	0.6
909	7.6
207	4.4
719	3.6
14	1.1
-90	0.2
-9	0.7
105	1.3
-153	0.1
112	1.6
0	1.0
37	2.0
-1049	0.4
-153	0.8
-1281	0.2
-2524	0.3
44	2.4
-91	0.7
-105	0.7
-223	0.5
-170	0.7
-173	1.4
675	1.7
NS	
NS	
NS	

|

RNA expression normalized to recovery of the exogenous Solaris RNA

<i>lectin</i> /Solaris: dark	<i>lectin</i> /Solaris: light-dark	<i>lectin</i> /Solaris: light/dark
2096	-1959	0.1
3177	150	1.0
1320	-248	0.8
1001	7578	8.6
371	2733	8.4
1867	7763	5.2
1261	154	1.1
691	-522	0.2
177	-37	0.8
2145	4509	3.1
2145	-1968	0.1
1742	1663	2.0
3566	-1045	0.7
524	234	1.4
7469	-3647	0.5
6067	-2245	0.6
9410	-5314	0.4
23170	-14591	0.4
268	377	2.4
1956	-666	0.7
2001	-618	0.7
3821	-2617	0.3
6208	-548	0.9
3585	-472	1.8
4916	4369	2.4

NS

NS

NS

Conclusion: host corals

normalized host coral lectin mRNA expression (see main text for det

norm *lectin*: light/norm *lectin*: dar norm *lectin*: light-dar/norm *lectin*: light/da

144	2319	-2175	0.1
3361	3327	34	1.0
1117	1344	-227	0.8
8601	1046	7555	8.2
3251	385	2866	8.4
1439	1267	172	1.1
217	701	-484	0.3
147	186	-39	0.8
6689	2162	4527	3.1
211	2206	-1995	0.1
3429	1756	1673	2.0
2606	3618	-1012	0.7
776	534	242	1.5
3837	7550	-3713	0.5
4078	6311	-2233	0.6
4329	9575	-5246	0.5
9900	23965	-14065	0.4
655	274	381	2.4
1294	1975	-681	0.7
1400	2010	-610	0.7
1262	3887	-2625	0.3
2797	3638	-841	1.6
2762	5271	4098	2.4
		NS	
		NS	
		NS	

express similar levels of the *lectin* mRNA during the day and night.

Summary

Sym GCP
RNA/DNA

light=dark
light=dark

host gfpcp	light>dark
Sym ubiq-lig	light=dark
Sym zif11	light>dark
host cuznsod	light=dark
host lectin	light=dark

Symbiodinium (Sym) heat shock protein 90 (hsp90) non-normalized (non-n

non-norm Sym hsp90: lignon-norm Sym hsp90: danon-norm Sym hsp90: light-da

25	445	-420
287	280	7
84	329	-245
757	.	.
337	315	22
911	294	617
811	548	263
169	250	-81
222	387	-165
757	173	584
740	850	-110
999	870	129
890	435	455
337	51	286
706	850	-144
2141	1349	792
1095	1821	-726
.	.	.
1147	999	148
911	353	558
.	.	.
.	.	.
111	125	-14
134	198	-64
7	61	-54
26	31	-5
<hr/>		
591	501	83
512	453	361

norm) mRNA expression	Sym <i>hsp90</i> mRNA expression normalized	Sym <i>hsp90</i> mRNA expression normalized
non-norm Sym <i>hsp90</i> : light/day	Sym <i>hsp90</i> /Solaris: lig	Sym <i>hsp90</i> /Solaris: day
0.1	244	4290
1.0	1911	1742
0.3	813	2464
	6208	
1.1	3911	1911
3.1	8780	1956
1.5	7132	4705
0.7	1048	1482
0.6	1588	2353
4.4	10809	1024
0.9	6654	10563
1.1	10809	7469
2.0	6969	4815
6.6	3405	691
0.8	4705	3911
1.6	13937	11062
0.6	11856	10321
1.1	10321	6654
2.6	7822	3033
0.9	602	741
0.7	851	1232
0.1	36	524
0.8	330	315
1.5	5250	3784
1.5	4369	3394

NS
NS
NS

to recovery of the exogenous Solaris RNA spike | **normalized (norm) S**

Sym *hsp90*/Solaris: light-daSym *hsp90*/Solaris: light/danorm Sym *hsp90*: ligh

-4046	0.1	502
169	1.1	28761
-1651	0.3	2129
		301329
2000	2.0	7456
6824	4.5	
2427	1.5	48148
-434	0.7	756
-765	0.7	4812
9785	10.6	144256
-3909	0.6	4554
3340	1.4	139610
2154	1.4	27457
2714	4.9	15076
794	1.2	173340
2875	1.3	34101
1535	1.1	20320
3667	1.6	8602
4789	2.6	57858
-139	0.8	36824
-381	0.7	10677
-488	0.1	144
15	1.0	
<hr/>		
1422	1.8	50796
3193	2.3	76701

NS
 $p < 0.05$
 $p < 0.05$

Conclusion: Symbio

ym *hsp90* mRNA expression (see main text for details.)

norm Sym <i>hsp90</i> :	darnorm Sym <i>hsp90</i> :	light-danorm Sym <i>hsp90</i> :	light/da
4629	-4127		0.1
6197	22564		4.6
18686	-16557		0.1
8122	-666		0.9
114443	-66295		0.4
18606	-17850		0.0
8017	-3205		0.6
21752	122504		6.6
30670	-26116		0.1
114765	24845		1.2
30255	-2798		0.9
2686	12390		5.6
79547	93793		2.2
34821	-720		1.0
105662	-85342		0.2
30138	-21536		0.3
16707	41151		3.5
12809	24015		2.9
45398	-34721		0.2
3620	-3476		0.0
35377	2893		1.6
37410	46936		2.0
	NS		
	NS		
	NS		

linium express similar levels of the *hsp90* mRNA during the day and night

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host coral carbonic anhydrase (ca) non-normalized (non-norm) mF

non-norm host ca: light non-norm host ca: dar non-norm host ca: light-dar

850	345	505
3815	1230	2585
86	387	-301
6342	61	6281
5917	691	5226
5151	3171	1980
217	3098	-2881
42		
9612		
2891	8564	-5673
14237	1821	12416
477	140	337
1623	315	1308
6642	233	6409
7808	4696	3112
3995	1230	2765
4382	2959	1423
9178	629	8549
	7455	
6956	3478	3478
65	10067	-10002
5650	10790	-5140
4568	3068	1704
3807	3469	5223

RNA expression **host coral ca normalized to recovery of the exo**

non-norm host ca: light/dark ca/Solaris: light ca/Solaris: dark ca/Solaris: light-dark

2.5	8383	3327	5056
3.1	25414	7643	17771
0.2	832	2896	-2064
.	.	.	.
104.0	73562	371	73191
8.6	57052	4598	52454
1.6	45283	27238	18045
0.1	1351	18390	-17039
.	301	.	.
.	137271	.	.
0.3	26008	106464	-80456
7.8	154081	15644	138437
3.4	3734	1552	2182
5.2	16384	4290	12094
28.5	44248	1072	43176
1.7	50828	38520	12308
3.2	43238	6969	36269
.	.	.	.
1.5	39421	19710	19711
14.6	78841	5405	73436
.	.	.	.
.	.	.	.
.	.	44248	.
2.0	44248	21619	22629
0.0	354	86475	-86121
0.5	71882	108952	-37070
9.9	43939	26269	16000
23.8	42274	34567	51860

p<0.01
NS
NS

genous Solaris RNA normalized (norm) host coral ca mRNA expression (s

ca/Solaris: light/dark	norm ca: light	norm ca: dark	norm ca: light-dark
2.5	8819	3681	5138
3.3	25670	8005	17665
0.3	866	2948	-2082
.	.	.	.
198.3	77046	385	76661
12.4	.	.	.
1.7	46059	27369	18690
0.1	1739	18641	-16902
.	316	.	.
.	137995	.	.
0.2	31051	109497	-78446
9.8	155192	15764	139428
2.4	3859	1575	2284
3.8	16759	4372	12387
41.3	44429	1084	43345
1.3	54233	40072	14161
6.2	45701	7091	38610
.	.	.	.
2.0	45487	20386	25101
14.6	80102	5521	74581
.	.	.	.
.	.	.	.
.	.	44684	.
2.0	44810	21714	23096
0.0	371	87957	-87586
0.7	.	.	.
15.9	43184	23375	18008
45.2	44253	30598	53069

p<0.01
NS
NS

Conclusion: Marginally significant increase in ca expression night (2- to 17-fold).

|

ee main text for data **Symbiodinium (Sym) ribulose-1,5-bisphosphate carbox**

norm ca: light/dark	non-norm Sym <i>rbcL</i> : light	non-norm Sym <i>rbcL</i> : dark
2.4	262	3728
3.2	2295	1585
0.3	406.	
.	.	.
200.1	1318	1202
.	5395	1318
1.7	5521.	
0.1	1318.	
.	793.	
.	3728.	
0.3	4589	2891
9.8	5034	5034
2.5	5033	1739
3.8	1821	425
41.0	406.	
1.4	6197.	
6.4	3728.	
.	.	.
2.2	5272	3728
14.5	3995	1821
.	.	.
.	.	1660
.	.	3171
2.1	1907	3171
0.0	45	1998
.	2825	2891
17.2	2947	2371
48.2	2044	1246

$p < 0.01$

$p < 0.05$

NS

on at day over

|

Phosphoenolpyruvate carboxylase/oxygenase (*rbcL*) non-normalized (non-norm) mRNA expression in Sym *rbcL* mRNA expression

non-norm Sym <i>rbcL</i> : light-dark	non-norm Sym <i>rbcL</i> : light/dark	<i>rbcL</i> /Solaris: light
-3466	0.1	2580
710	1.4	15287
.	.	3911
.	.	.
116	1.1	15287
4077	4.1	52016
.	.	48533
.	.	8192
.	.	5660
.	.	53232
1698	1.6	41285
0	1.0	54476
3294	2.9	39421
1396	4.3	18390
.	.	2702
.	.	40342
.	.	40342
.	.	.
1544	1.4	47424
2174	2.2	34318
.	.	.
.	.	.
.	.	.
-1264	0.6	12133
-1953	0.0	244
-66	1.0	35941
635	1.7	27225
2084	1.4	19508
NS		
NS		
NS		

|

Expression normalized to recovery to the exogenous Solaris RNA

<i>rbcL</i> /Solaris: dark	<i>rbcL</i> /Solaris: light-dark	<i>rbcL</i> /Solaris: light/dark	norm <i>rbcL</i> : light
35941	-33361	0.1	52247
9855	5432	1.6	1532859
.	.	.	98759
.	.	.	.
7298	7989	2.1	338024
8780	43236	5.9	.
.	.	.	2880422
.	.	.	36718
.	.	.	122432
.	.	.	10144937
35941	5344	1.1	254212
43238	11238	1.3	7614713
19260	20161	2.0	1216407
5793	12597	3.2	822296
.	.	.	663264
.	.	.	642591
.	.	.	748314
.	.	.	.
24834	22590	1.9	355587
15644	18674	2.2	2180488
.	.	.	.
.	.	.	.
9855	.	.	.
19710	-7577	0.6	968143
17159	-16915	0.0	5287
29193	6748	1.2	.
20179	7397	1.8	1614616
12020	19001	1.5	2704030

p<0.05
NS
NS

Conclusion: S
between day ar

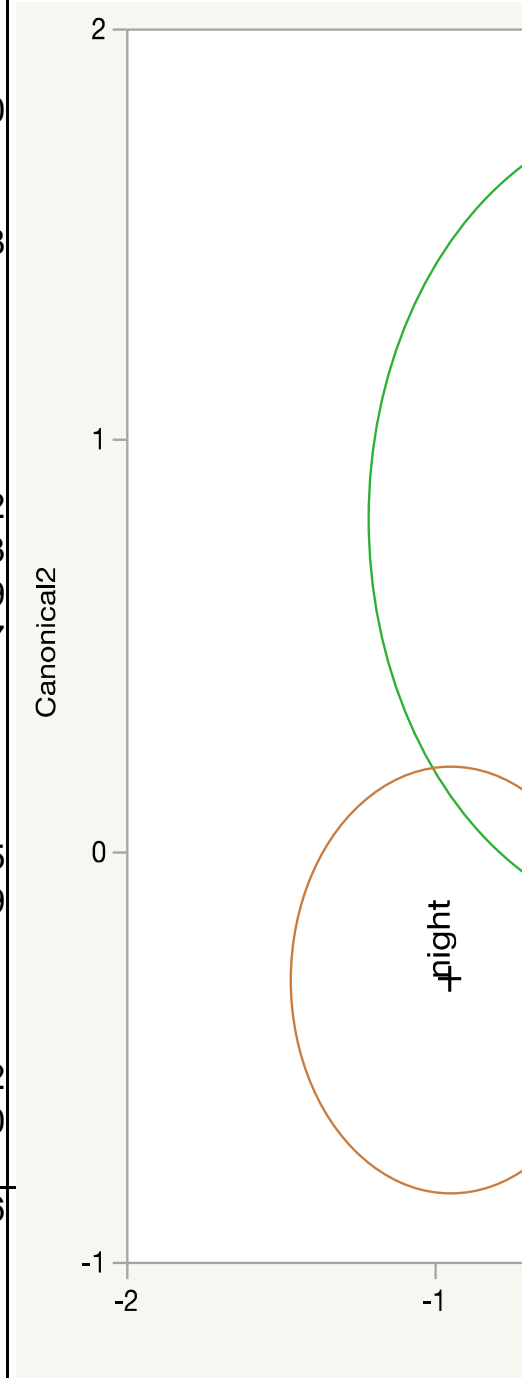
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orm) Sym *rbcL* mRNA expression (see main text for details.

norm <i>rbcL</i> : dark	norm <i>rbcL</i> : light-dark	norm <i>rbcL</i> : light/dark
373941	-321694	0.1
217919	1314940	7.0
.	.	.
188428	149596	1.8
.	.	.
.	.	.
.	.	.
1297404	-1043192	0.2
5707016	1907697	1.3
1340383	-123976	0.9
306917	515379	2.7
.	.	.
.	.	.
.	.	.
749354	-393767	0.5
740164	1440324	2.9
.	.	.
1011079	.	.
4515054	-3546911	0.2
1018383	-1013096	0.0
.	.	.
1455504	-101336	1.6
1770966	1502899	2.1
	NS	
	NS	
	NS	

ymbiodinium rbcL mRNA expression does not differ day and night.

Canonical Plot



Summary

- 1 Sym GCP
- 2 RNA/DNA
- 3 host *gfpcp*
- 4 Sym *ubiq1ig*
- 5 Sym *zif11*

6 host *cuznsod*

7 host *lectin*

8 Sym *hsp90*

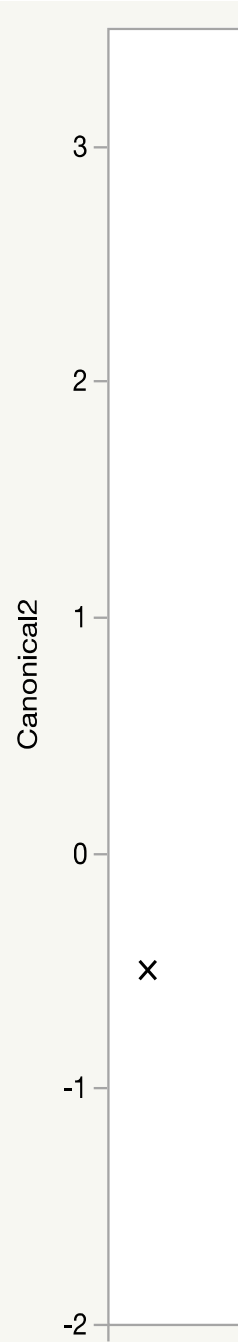
9 host *ca*

0 Sym *rbcL*



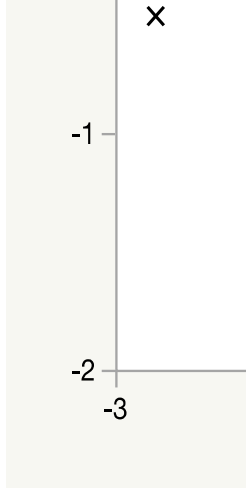
when analyzing all data (n=119 samples) notes

light=dark	light=dark	confirmed
light=dark	light=dark	confirmed
light>dark	light=dark	mismatch
light=dark	night>all other times	mismatch
light>dark	morning>all other times	confirmed



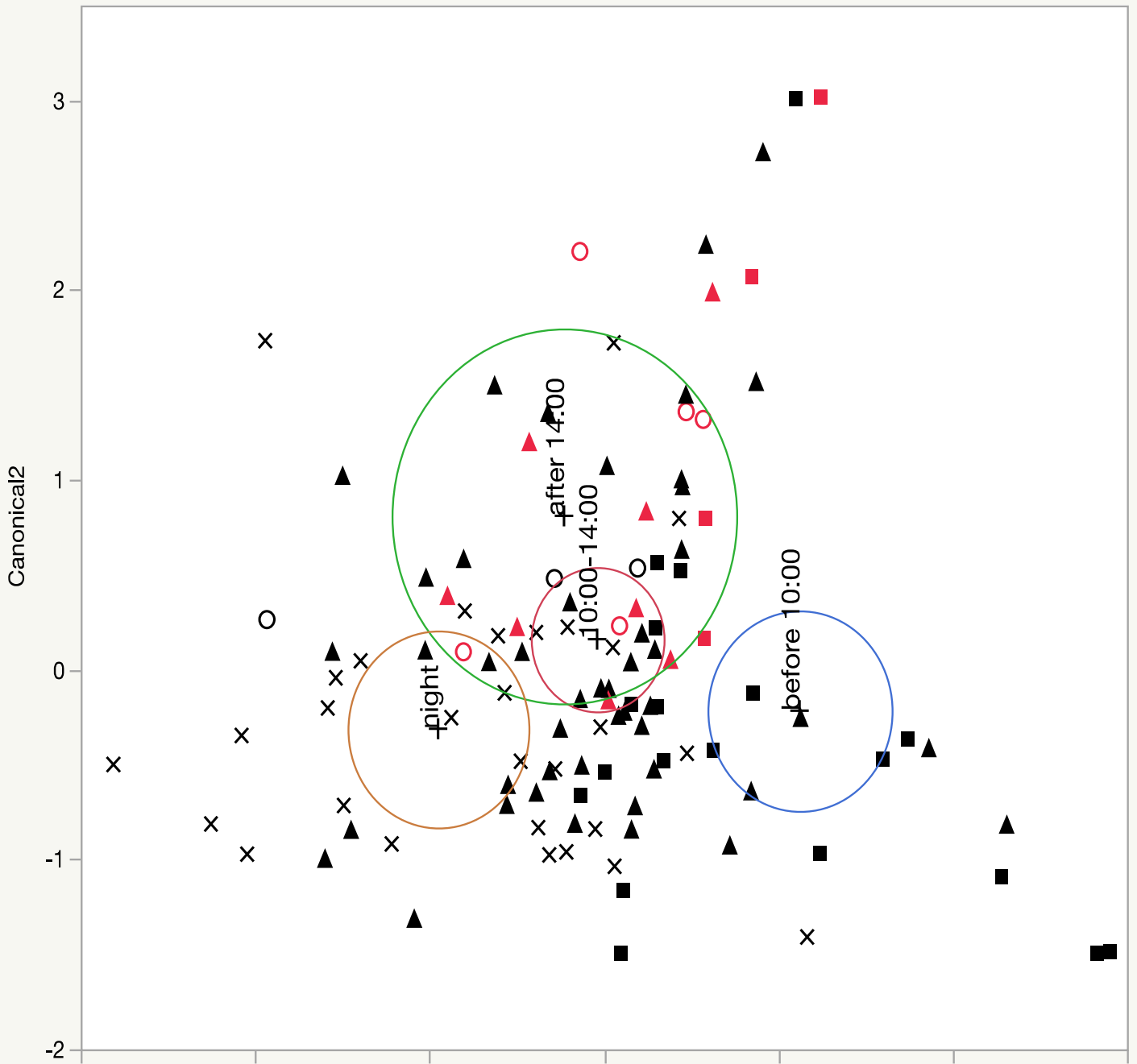
light=dark light=dark
light=dark night>morning
light=dark night>all other times
light>dark light=dark
light=dark light=dark

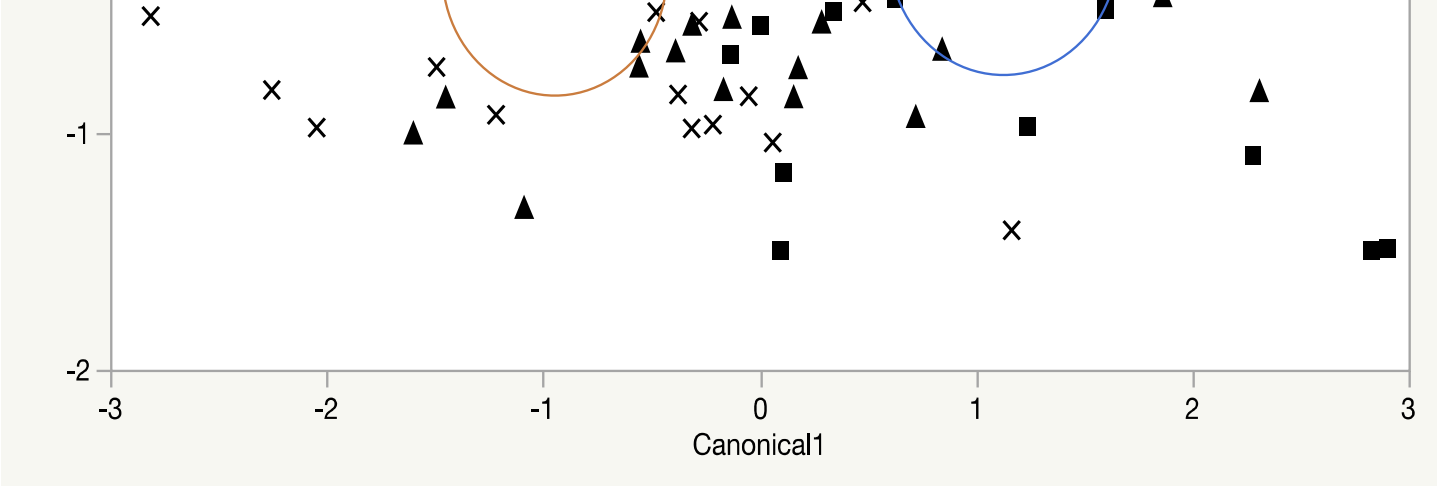
confirmed
mismatch
mismatch
mismatch
confirmed

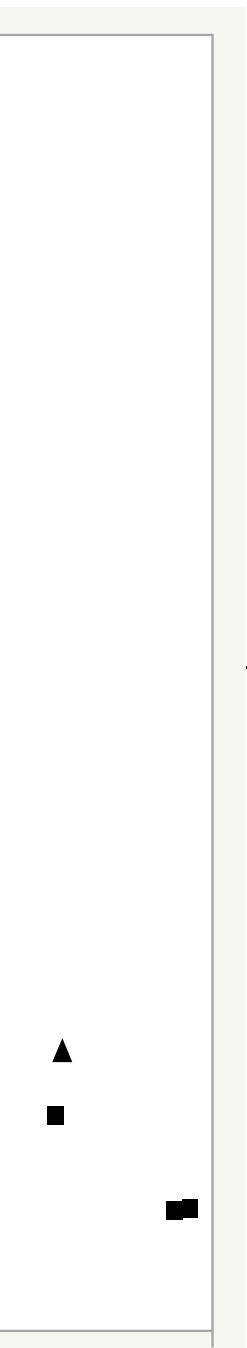


red icons	<i>Pocillopora acuta</i> (sampled in day only)
black icons	<i>Pocillopora damicornis</i>
squares	colonies sampled between 6:00 and 10:00
triangles	colonies sampled between 10:00 and 14:00
circles	colonies sampled between 14:00 and 18:00
exes	colonies sampled between 18:00-20:00

blue circle	6:00-10:00 mean confidence limit ellipse
red circle	10:00-14:00 mean confidence limit ellipse
green circle	14:00-18:00 mean confidence limit ellipse
orange circle	18:00-20:00 mean confidence limit ellipse







—



