Supplement of

Diazotroph community succession during the VAHINE mesocosms experiment (New Caledonia Lagoon)

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Figure S1. Diazotroph depth distributions in VAHINE mesocosm M2 during sampling days 19 and 20 (P3). Very little vertical stratification of diazotroph phylotypes was observed in the mesocosms. Abundances determined using qPCR targeting *nifH* gene sequences specific to each phylotype, as described in the main body of text. Note the different scales on the x-axis for each phylotype.

Variable	trans.	UCYN-A1				UCYN-A2				UCYN-B				UCYN-C				Tricho.			Het-1			Het-2			Het-3			γ-24774A11				Σ Diazos					
		+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n			
Time	none	-	0.36	0.00	32					+	0.12	0.05	32	+	0.79	0.00	32				-	0.16	0.02	32				+	0.75	0.00	32								
Temperature	none	-	0.56	0.00	31					+	0.13	0.05	31	+	0.74	0.00	31				-	0.25	0.00	31				+	0.67	0.00	31								
Salinity	none	-	0.44	0.00	31									+	0.56	0.00	31										+	0.61	0.00	31									
NH ₄ [nM]	none																																						
NO ₃ [μmol L ⁻¹]	none																																						
PO ₄ [μmol L ⁻¹]	none	+	0.47	0.00	29									-	0.26	0.00	29				+	0.24	0.01	29				-	0.29	0.00	29								
Tchla [μg L ⁻¹]	sqrt	-	0.42	0.00	30					+	0.22	0.01	30	+	0.57	0.00	30				-	0.42	0.00	30	-	0.35	0.00	30	+	0.50	0.00	31	-	0.25	0.00	30			
Tchla >10μm [μg L ⁻¹]	sqrt	-	0.18	0.02	30									+	0.41	0.00	30										+	0.45	0.00	31									
Tchla <10μm [μg L ⁻¹]	sqrt	-	0.45	0.00	31									+	0.44	0.00	31				-	0.32	0.00	31	-	0.32	0.00	31	+	0.41	0.00	31							
N ₂ Fix [nmol L ⁻¹ d ⁻¹]	sqrt					+	0.24	0.01	29	+	0.20	0.01	29	+	0.19	0.02	31				-	0.14	0.05	29				+	0.24	0.01	29								
N ₂ Fix <10 [nmol L ⁻¹ d ⁻¹]	sqrt					+	0.14	0.04	29																														
UCYN-A1 [nifH L ⁻¹]	log									+	0.18	0.01	32								+	0.20	0.01	32				-	0.41	0.00	32								
UCYN-A2 [nifH L ⁻¹]	log																																						
UCYN-B [nifH L ⁻¹]	log																																						
UCYN-C [nifH L ⁻¹]	log																																						
Tricho. [nifH L ⁻¹]	log																				-	0.29	0.00	32	-	0.14	0.04	32	+	0.60	0.00	32							
Het1 [nifH L ⁻¹]	sqrt																											+	0.40	0.00	32	-	0.15	0.03	32				
Het2 [nifH L ⁻¹]	sqrt																																						
Het3 [nifH L ⁻¹]	log																																						

Table S1. Pearson correlation coefficients and transformations for each paired environmental and abundance variables at 6 m sampling depth during VAHINE mesocosm experiment.

		UCYN-A1				UCYN-A2				UCYN-B				UCYN-C				Tricho.				Het-1				Het-2				Het-3				γ24774A11			
Variable	trans.	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n	+/-	r ²	p	n				
Time	none					-	0.40	0.04	11	+	0.40	0.04	11	+	0.54	0.01	11	+	0.53	0.01	11									+	0.43	0.03	11				
Temperature	none					-	0.68	0.00	10					+	0.64	0.02	8																				
Salinity	none					-	0.80	0.00	8					+	0.58	0.03	8	+	0.65	0.02	8																
NH ₄ [nM]	none													+	0.58	0.03	8	+	0.65	0.02	8																
NO ₃ [μmol L ⁻¹]	none																																				
PO ₄ [μmol L ⁻¹]	none																																				
Tchla [μg L ⁻¹]	sqrt																																				
Tchla >10μm [μg L ⁻¹]	sqrt	+	0.52	0.03	9					+	0.65	0.01	9																								
Tchla < 10μm [μg L ⁻¹]	sqrt																																				
N ₂ Fix [nmol L ⁻¹ d ⁻¹]	sqrt																																				
UCYN-A1 [nifH L ⁻¹]	log									+	0.41	0.03	11					+	0.60	0.01	9																
UCYN-A2 [nifH L ⁻¹]	log													-	0.38	0.04	11	+	0.49	0.02	11																
UCYN-B [nifH L ⁻¹]	log													+	0.49	0.02	11	+	0.49	0.02	11																
UCYN-C [nifH L ⁻¹]	log																	+	0.49	0.02	11																
Tricho. [nifH L ⁻¹]	sqrt																																				
Het1 [nifH L ⁻¹]	sqrt																																				
Het2 [nifH L ⁻¹]	sqrt																																				
Het3 [nifH L ⁻¹]	sqrt																																				
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Table S2. Pearson correlation coefficients and transformations for each paired environmental and abundance variables in the Noumea Lagoon during the deployment of the VAHINE mesocosms.

	time	UCYN-A1 [nifH copies L ⁻¹]		UCYN-A2 [nifH copies L ⁻¹]		UCYN-B [nifH copies L ⁻¹]		UCYN-C [nifH copies L ⁻¹]		γ-24774A11 [nifH copies L ⁻¹]		Tricho. [nifH copies L ⁻¹]		Het-1 [nifH copies L ⁻¹]		Het-2 [nifH copies L ⁻¹]		Het-3 [nifH copies L ⁻¹]		Σ
		ave.	stdev.	ave.	stdev.	ave.	stdev.	ave.	stdev.	ave.	stdev.	ave.	stdev.	ave.	stdev.	ave.	stdev.	ave.	stdev.	
outside	1	5.6E+03	2.4E+02	1.5E+04	1.1E+03	UD	na	7.8E+02	na	DNQ	na	2.8E+03	6.0E+02	3.1E+04	4.2E+02	1.2E+04	5.9E+02	DNQ	na	6.7E+04
	2	6.1E+03	7.5E+03	3.0E+04	2.5E+03	UD	na	6.7E+02	2.2E+02	5.0E+02	9.2E+01	5.3E+02	2.6E+02	3.6E+04	9.6E+03	6.6E+03	3.4E+02	7.0E+02	9.1E+01	8.1E+04
	4	1.6E+04	2.2E+03	5.6E+04	2.9E+03	DNQ	na	7.6E+02	6.1E+02	4.0E+02	1.5E+02	3.4E+02	1.3E+02	6.4E+04	na	4.0E+03	1.7E+02	DNQ	na	1.4E+05
	6	4.4E+04	5.8E+04	1.1E+05	8.7E+03	6.1E+02	2.2E+02	1.3E+03	1.1E+03	9.3E+02	1.2E+02	6.5E+03	1.7E+02	1.9E+05	4.4E+04	1.5E+04	6.6E+02	1.7E+03	3.6E+01	3.7E+05
	8	2.5E+04	4.0E+03	7.8E+04	5.7E+03	DNQ	na	7.3E+02	3.0E+02	1.0E+03	6.9E+01	3.1E+03	4.5E+02	1.6E+05	1.7E+04	1.5E+04	2.1E+02	1.0E+03	2.3E+02	2.9E+05
	10	2.2E+04	2.5E+04	6.2E+04	4.9E+03	DNQ	na	3.2E+02	9.3E+01	8.5E+02	3.1E+01	1.0E+04	5.0E+02	1.9E+05	7.2E+03	1.6E+04	1.1E+03	4.2E+02	1.9E+02	3.0E+05
	12	1.7E+04	3.7E+03	2.9E+04	2.0E+03	7.8E+02	1.4E+02	2.5E+03	8.3E+01	7.0E+02	9.3E+01	2.0E+04	6.6E+02	5.5E+05	na	8.5E+03	7.8E+02	5.1E+02	2.2E+01	6.3E+05
	14	4.0E+03	2.2E+02	8.0E+03	1.2E+03	DNQ	na	1.6E+03	1.3E+02	7.2E+02	2.3E+01	1.5E+04	9.6E+02	4.8E+04	1.1E+03	1.1E+04	1.6E+03	6.0E+02	3.1E+02	9.0E+04
	16	8.3E+03	6.6E+03	6.2E+03	3.8E+02	3.5E+02	8.6E+01	1.6E+03	6.0E+02	1.1E+03	2.5E+01	1.1E+04	3.6E+02	3.1E+04	2.4E+03	1.6E+04	4.7E+01	4.0E+03	6.9E+02	8.0E+04
	18	2.6E+03	3.2E+03	8.9E+03	9.6E+00	DNQ	na	2.2E+03	1.0E+03	1.9E+03	1.5E+02	4.0E+03	3.8E+02	4.5E+05	3.8E+05	1.6E+04	2.0E+01	2.4E+03	4.6E+02	4.9E+05
	22	6.4E+04	3.9E+04	7.4E+03	1.1E+03	2.7E+03	6.4E+02	4.8E+03	1.1E+03	7.6E+02	1.4E+01	1.4E+05	5.9E+04	1.2E+05	8.8E+03	5.9E+03	4.4E+02	9.9E+02	1.5E+02	3.5E+05
M1	3	6.8E+03	7.1E+02	1.9E+04	1.7E+03	2.9E+03	3.8E+02	1.3E+02	1.5E+02	7.8E+02	1.6E+02	1.6E+04	1.4E+03	7.7E+04	6.3E+03	1.2E+04	1.3E+03	UD	na	1.4E+05
	5	2.0E+04	7.5E+02	3.2E+04	9.8E+02	DNQ	na	1.2E+02	5.1E+01	1.3E+03	2.8E+02	2.2E+04	6.8E+02	8.9E+04	5.8E+03	4.1E+03	1.6E+02	UD	na	1.7E+05
	7	2.4E+04	3.9E+03	1.3E+04	1.1E+03	8.5E+02	2.0E+00	DNQ	na	1.1E+03	1.6E+02	3.3E+03	3.7E+02	9.4E+04	4.1E+03	7.4E+03	2.8E+02	2.7E+02	9.2E+01	1.4E+05
	9	4.7E+03	2.1E+01	4.9E+03	2.3E+02	3.8E+02	1.4E+02	5.4E+02	2.7E+02	6.9E+02	1.5E+01	6.1E+04	2.5E+03	1.9E+05	1.5E+04	2.2E+04	1.4E+03	UD	na	2.8E+05
	11	1.8E+03	3.2E+01	4.7E+03	1.2E+03	1.0E+02	7.1E+00	1.4E+03	2.2E+02	1.0E+03	7.1E+01	6.5E+03	4.0E+02	1.4E+05	2.7E+04	2.3E+04	1.4E+03	DNQ	na	1.8E+05
	13	8.0E+03	6.3E+02	3.4E+03	8.1E+02	5.6E+02	7.3E+01	1.6E+04	1.0E+03	7.5E+02	3.8E+02	1.4E+04	4.4E+02	8.8E+04	7.8E+03	1.5E+04	1.5E+02	1.8E+02	2.7E+01	1.5E+05
	15	2.3E+03	5.8E+01	4.9E+03	4.1E+02	DNQ	na	4.5E+04	1.5E+03	1.3E+03	3.6E+01	1.9E+04	1.6E+03	5.4E+03	1.3E+02	6.6E+03	2.3E+02	2.8E+02	5.4E+01	8.5E+04
	18	1.2E+03	2.1E+02	4.5E+03	7.9E+02	1.5E+02	2.3E+00	5.3E+04	1.2E+03	2.4E+03	1.0E+02	3.0E+03	5.2E+02	4.5E+04	6.1E+01	6.0E+03	6.6E+01	4.4E+02	1.4E+02	1.2E+05
	19	2.1E+03	1.6E+02	6.1E+03	3.7E+02	1.6E+02	4.2E+01	7.1E+04	2.5E+03	2.4E+03	1.5E+02	6.1E+03	4.7E+01	9.1E+04	3.6E+03	9.8E+03	1.2E+01	3.9E+02	1.5E+02	1.9E+05
	20	3.7E+03	3.1E+02	1.3E+04	9.1E+02	3.2E+02	5.5E+01	5.6E+04	8.9E+03	2.6E+02	7.5E+01	6.1E+03	1.8E+02	6.4E+04	1.7E+03	6.8E+03	3.8E+02	6.8E+02	3.9E+01	1.5E+05
	23	1.5E+04	3.2E+01	1.4E+04	1.6E+03	1.6E+03	3.3E+01	1.1E+05	6.5E+03	2.9E+02	4.4E+01	5.7E+04	1.5E+03	7.8E+04	6.1E+02	6.9E+03	8.8E+02	5.1E+02	4.1E+01	2.8E+05
M2	3	5.7E+03	6.8E+02	7.2E+03	1.6E+03	2.9E+02	3.0E+01	1.2E+02	1.2E+01	3.7E+02	1.2E+01	7.3E+03	9.9E+02	4.0E+04	5.3E+03	8.8E+03	3.7E+02	UD	na	7.0E+04
	7	2.8E+04	6.6E+02	1.3E+04	3.6E+02	2.5E+02	7.5E+01	2.3E+02	6.7E+01	1.4E+03	7.0E+01	1.9E+04	3.2E+02	1.9E+05	2.9E+03	6.5E+03	1.2E+01	UD	na	2.6E+05
	9	2.4E+04	1.9E+03	5.0E+02	2.5E+02	1.2E+02	9.7E+00	6.3E+02	3.0E+02	2.3E+02	1.5E+01	2.0E+04	1.3E+02	6.6E+04	1.5E+03	5.8E+03	1.8E+02	UD	na	1.2E+05
	11	1.8E+04	3.8E+02	1.4E+03	4.5E+02	DNQ	na	2.0E+03	5.9E+02	4.3E+02	8.2E+01	2.2E+04	1.2E+03	2.0E+05	3.1E+04	7.1E+03	5.5E+01	UD	na	2.5E+05
	13	7.0E+03	1.5E+02	2.5E+03	2.0E+02	1.5E+02	1.8E+01	9.9E+03	1.5E+03	6.0E+02	6.0E+01	8.1E+03	1.0E+03	1.2E+05	4.9E+03	1.7E+04	1.1E+03	DNQ	na	1.7E+05
	15	2.6E+03	3.9E+02	5.5E+03	1.2E+03	2.1E+02	2.5E+01	7.5E+05	4.5E+04	1.4E+03	1.6E+02	1.2E+04	2.8E+02	9.3E+03	4.2E+02	4.9E+03	1.1E+02	2.5E+02	9.0E+01	7.9E+05
	18	2.0E+03	4.1E+02	1.5E+04	2.1E+03	5.1E+02	1.9E+02	3.3E+05	1.5E+04	1.6E+03	1.6E+02	1.9E+04	1.8E+03	2.6E+04	3.3E+02	4.4E+03	5.5E+01	2.5E+03	6.6E+01	4.0E+05
M3	20	2.2E+03	2.3E+02	3.7E+04	1.2E+04	8.8E+02	1.2E+02	2.7E+05	1.5E+04	6.7E+02	1.7E+00	1.1E+04	6.6E+02	3.1E+04	1.1E+03	4.4E+03	7.7E+02	1.4E+03	2.9E+02	3.6E+05
	23	8.0E+03	1.5E+02	9.4E+03	9.0E+02	2.5E+03	1.6E+02	3.1E+05	6.0E+04	DNQ	na	1.5E+04	1.3E+03	3.2E+04	5.1E+03	5.0E+03	4.8E+02	1.6E+03	8.8E+01	3.9E+05
	3	1.3E+04	5.2E+02	9.4E+02	6.7E+02	7.3E+01	8.0E+01	3.9E+02	3.8E+02	3.5E+02	2.2E+01	3.1E+04	2.3E+03	3.7E+04	1.4E+03	8.0E+03	2.5E+02	UD	na	9.1E+04
	5	1.7E+04	2.4E+02	2.9E+04	5.0E+03	2.9E+02	4.8E+01	2.6E+03	4.1E+02	2.9E+03	4.0E+02	4.3E+04	5.3E+02	1.3E+05	6.7E+03	4.0E+03	3.8E+02	UD	na	2.3E+05
	7	3.1E+04	1.1E+03	1.1E+03	2.4E+02	1.3E+02	3.9E+01	1.2E+03	1.6E+02	1.3E+03	1.9E+02	1.0E+05	1.3E+04	1.1E+05	1.0E+04	1.2E+04	3.2E+01	DNQ	na	2.6E+05
	9	1.4E+04	8.8E+02	1.0E+03	5.3E+01	9.6E+01	5.9E+01	1.2E+03	3.2E+02	8.8E+02	5.3E+01	1.4E+03	5.5E+02	3.2E+04	2.6E+03	2.7E+03	1.6E+02	UD	na	5.4E+04
	11	6.4E+03	1.0E+01	1.5E+03	1.6E+02	3.7E+02	4.9E+01	1.5E+03	3.2E+02	1.6E+03	4.2E+02	1.5E+04	1.6E+03	3.4E+05	3.9E+04	1.5E+04	4.8E+02	1.9E+02	na	3.8E+05
	13	2.7E+03	4.2E+02	2.0E+03	4.1E+02	DNQ	na	1.4E+03	5.5E+01	1.8E+03	3.6E+02	7.4E+04	1.3E+03	3.8E+05	2.3E+04	1.4E+04	1.0E+03	2.4E+02	na	4.7E+05
	15	1.0E+03	1.9E+02	4.6E+03	6.2E+02	4.3E+02	4.5E+00	6.5E+04	1.2E+03	4.8E+03	2.0E+02	3.4E+04	3.9E+02	3.7E+04	1.1E+03	3.8E+03	3.0E+02	4.9E+02	4.1E+01	1.5E+05
	18	5.3E+02	2.4E+02	4.1E+03	3.4E+02	7.9E+02	2.4E+01	1.2E+05	9.7E+03	2.8E+02	5.9E+01	1.2E+04	2.7E+02	8.7E+03	6.9E+01	4.8E+02	6.2E+01	6.0E+02	4.7E+01	1.5E+05
	19	3.9E+02	2.0E+01	2.9E+03	8.9E+02	2.9E+02	3.6E+01	7.7E+04	8.6E+03	1.6E+02	1.9E+01	1.2E+04	1.6E+02	7.4E+03	1.9E+03	4.4E+03	1.7E+02	1.8E+03	1.8E+02	1.1E+05
	20	6.8E+02	1.8E+02	1.0E+04	1.6E+02	1.2E+03	5.2E+01	1.0E+05	1.2E+04	4.4E+02	8.6E+01	5.8E+04	1.9E+03	2.7E+04	7.4E+02	7.0E+03	1.2E+03	5.8E+02	1.9E+01	2.1E+05

Table S3. *Diazotroph abundances.* Abundances were determined for each mesocosm (M1-M3) and the Noumea Lagoon (outside) using qPCR targeting the *nifH* gene sequences specific to each phylotype, and are reported as *nifH* copies L⁻¹. Data used to plot Figure 1 in the main body of the text.

	time	UCYN-A1 [% total <i>nifH</i> copies L ⁻¹] ave.	UCYN-A2 [% total <i>nifH</i> copies L ⁻¹] ave.	UCYN-B [% total <i>nifH</i> copies L ⁻¹] ave.	UCYN-C [% total <i>nifH</i> copies L ⁻¹] ave.	γ -24774A11 [% total <i>nifH</i> copies L ⁻¹] ave.	<i>Tricho.</i> [% total <i>nifH</i> copies L ⁻¹] ave.	Het-1 [% total <i>nifH</i> copies L ⁻¹] ave.	Het-2 [% total <i>nifH</i> copies L ⁻¹] ave.	Het-3 [% total <i>nifH</i> copies L ⁻¹] ave.
outside	1	8.4%	22.1%		1.2%		4.2%	46.7%	17.4%	
	2	7.6%	37.1%		0.8%	0.6%	0.7%	44.2%	8.1%	0.9%
	4	11.4%	39.4%		0.5%	0.3%	0.2%	45.3%	2.8%	
	6	11.8%	29.5%	0.2%	0.3%	0.3%	1.8%	51.6%	4.1%	0.5%
	8	8.7%	27.3%		0.3%	0.4%	1.1%	56.7%	5.2%	0.4%
	10	7.1%	20.6%		0.1%	0.3%	3.5%	62.9%	5.3%	0.1%
	12	2.8%	4.6%	0.1%	0.4%	0.1%	3.1%	87.5%	1.4%	0.1%
	14	4.5%	8.9%		1.8%	0.8%	16.5%	54.0%	12.8%	0.7%
	16	10.4%	7.8%	0.4%	2.1%	1.3%	13.9%	39.4%	19.8%	5.0%
	18	0.6%	1.8%		0.4%	0.4%	0.8%	92.0%	3.4%	0.5%
	22	18.4%	2.1%	0.8%	1.4%	0.2%	41.8%	33.3%	1.7%	0.3%
M1	3	5.0%	14.0%	2.1%	0.1%	0.6%	11.8%	57.3%	9.1%	
	5	11.8%	19.0%		0.1%	0.8%	12.9%	53.0%	2.4%	
	7	16.4%	9.0%	0.6%		0.8%	2.3%	65.5%	5.2%	0.2%
	9	1.7%	1.7%	0.1%	0.2%	0.2%	21.8%	66.3%	8.0%	
	11	1.0%	2.7%	0.1%	0.8%	0.6%	3.7%	78.5%	12.8%	
	13	5.5%	2.3%	0.4%	10.9%	0.5%	9.7%	60.3%	10.2%	0.1%
	15	2.8%	5.8%		52.9%	1.5%	22.7%	6.4%	7.7%	0.3%
	18	1.0%	3.9%	0.1%	46.0%	2.0%	2.6%	38.8%	5.2%	0.4%
	19	1.1%	3.2%	0.1%	37.7%	1.2%	3.2%	48.0%	5.2%	0.2%
	20	2.4%	8.6%	0.2%	36.4%	1.9%	4.0%	41.7%	4.4%	0.4%
	23	5.5%	5.0%	0.6%	38.4%	0.1%	20.2%	27.6%	2.4%	0.2%
M2	3	8.2%	10.3%	0.4%	0.2%	0.5%	10.5%	57.3%	12.6%	
	7	10.6%	5.0%	0.1%	0.1%	0.5%	7.3%	73.9%	2.5%	
	9	20.6%	0.4%	0.1%	0.5%	0.2%	17.2%	56.0%	4.9%	
	11	7.1%	0.6%		0.8%	0.2%	8.6%	79.9%	2.8%	
	13	4.2%	1.5%	0.1%	5.9%	0.4%	4.8%	72.8%	10.3%	
	15	0.3%	0.7%	0.0%	95.3%	0.2%	1.6%	1.2%	0.6%	0.0%
	18	0.5%	3.7%	0.1%	82.3%	0.4%	4.7%	6.6%	1.1%	0.6%
	20	0.6%	10.4%	0.2%	75.0%	0.2%	3.2%	8.7%	1.3%	0.4%
	23	2.1%	2.4%	0.7%	81.0%		3.9%	8.2%	1.3%	0.4%
M3	3	14.8%	1.0%	0.1%	0.4%	0.4%	33.8%	40.7%	8.9%	
	5	7.5%	12.4%	0.1%	1.1%	1.3%	18.4%	57.4%	1.7%	
	7	11.6%	0.4%	0.0%	0.5%	0.5%	39.6%	43.0%	4.4%	
	9	26.4%	1.9%	0.2%	2.3%	1.6%	2.6%	60.1%	5.0%	
	11	1.7%	0.4%	0.1%	0.4%	0.4%	4.0%	89.1%	3.9%	0.0%
	13	0.6%	0.4%		0.3%	0.4%	15.7%	79.6%	3.0%	0.1%
	15	0.7%	3.0%	0.3%	43.3%	3.1%	22.2%	24.6%	2.5%	0.3%
	18	0.4%	2.8%	0.5%	81.4%	0.2%	8.0%	5.9%	0.3%	0.4%
	19	0.4%	2.7%	0.3%	72.1%	0.1%	11.5%	7.0%	4.2%	1.7%
	20	0.3%	4.9%	0.6%	49.4%	0.2%	28.0%	12.9%	3.4%	0.3%
	23	0.4%	1.4%	0.2%	15.3%		79.5%	1.5%	0.7%	0.9%

Table S4. *Diazotroph community composition.* *nifH*-based abundances were summed for each sampling day to determine the percent contribution to the total diazotroph community from each phylotype in M1- M3 and the Noumea Lagoon (outside). Data used to plot Figure 2 in the main body of the text.