



Supplement of

The impact of essential climate variables on respiration rates in subpolar and polar planktonic foraminifera

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Table S1: Quantification of the correlation between size-normalised respiration, essential climate variables and nutrients in *N. incompta*. PO₄³⁻=Phosphate; Sal=salinity; Turb=Turbidity; Fluo=Fluorescence; DIC = Dissolved Inorganic Carbon; DO= Dissolved Oxygen; SNR=Size Normalised Respiration; Temp=Temperature, Alk = Alkalinity.

	TON	PO ₄ ³⁻	Sal	Turb	Fluo.	DIC	DO	SNR	Temp	Alk	pH	Ω _{Ca}
TON		0.99*	0.16	-0.99*	0.34	0.83*	-0.57	-0.10	-0.87*	-0.91*	-0.34	-0.77*
PO ₄ ³⁻	0.99*		0.20	-0.99*	0.37	0.85*	-0.59	-0.07	-0.85*	-0.89*	-0.37	-0.79*
Sal	0.17	0.20		-0.34	0.98*	0.69*	-0.91*	0.83*	0.34	0.26	-0.98*	-0.76*
Turb	-0.99*	-0.99*	-0.34		-0.50	-0.91*	0.70*	-0.05	0.77*	0.82*	0.50	0.87*
Fluo.	0.34	0.37	0.98*	0.50		0.81*	-0.97*	0.78*	0.17	0.09	-1.00*	-0.87*
DIC	0.83*	0.85*	0.69*	-0.91*	0.81*		-0.93*	0.40	-0.44	-0.51	-0.81*	-0.99*
DO	-0.57	-0.59*	-0.91*	0.70*	-0.97*	-0.93*		-0.65*	0.08	0.16	0.97*	0.96*
SNR	-0.10	-0.07	0.83*	-0.05	0.78*	0.40	-0.65*		0.51 *	0.45	-0.78*	-0.48
Temp	-0.87*	-0.85*	0.34	0.77*	0.17	-0.44	0.08	0.51		0.99*	-0.17	0.35
Alk	-0.91*	-0.89*	0.26	0.82*	0.09	-0.51	0.17	0.45	0.99*		-0.09	0.42
pH	-0.34	-0.37	-0.98*	0.50	-1.00*	-0.81*	0.97*	-0.78*	-0.17	-0.09		0.87*
Ω _{Ca}	-0.77*	-0.79*	-0.76*	0.87*	-0.87*	-0.99*	0.97*	-0.48	0.35	0.42	0.87*	

Table S2. Principal Component Analysis (PCA)

Environmental dataset	Component	Eigenvalue	% Variance	Cumulative %
<i>N. pachyderma</i>	PC1	4.70	43	43
	PC2	3.01	27	70
	PC3	1.81	16	87
	PC4	0.97	3	99
<i>N. incompta</i>	PC1	6.61	60	60
	PC2	4.39	40	100

Table S3. Principal Component Loadings

Environmental dataset	Variable	PC1	PC2	PC3	PC4
<i>N. pachyderma</i>	Temperature	0.35	-0.08	0.26	-0.53
	Salinity	0.22	-0.39	0.25	-0.34
	Alkalinity	0.15	-0.46	-0.03	0.50
	pH	0.19	-0.46	-0.30	0.01
	Oxygen	0.34	0.22	0.34	0.09
	Fluorescence	0.06	0.01	0.61	0.54
	PO ₄	-0.35	-0.21	0.34	-0.22
	TON	0.38	-0.18	0.32	-0.09
	SiO ₂	-0.39	-0.21	0.16	-0.03
	DIC	-0.38	-0.24	-0.19	0.04
ΩCa	0.29	-0.43	-0.02	0.04	
<i>N. incompta</i>	Temperature	-0.19	0.41		
	Salinity	0.25	0.37		
	Alkalinity	-0.22	0.39		
	pH	-0.3	-0.31		
	Oxygen	-0.35	-0.2		
	Fluorescence	0.30	0.31		
	PO ₄	0.34	-0.23		
	TON	0.34	-0.24		
	SiO ₂	-0.14	0.44		
	DIC	0.39	0.03		
ΩCa	-0.38	-0.08			

Table S4. Principal Component Regression (PCR)

SNR <i>N. pachyderma</i>	Estimate	Std. Error	t	p	Adjusted R2
Intercept	54.43	2.7	20.86	<0.01	-0.011
PC1	-0.31	1.26	-0.25	0.81	
PC2	-1.38	1.57	-0.87	0.38	
PC3	0.13	2.03	0.07	0.95	
PC4	-4.38	2.78	-1.58	0.12	
SNR <i>N. incompta</i>	Estimate	Std. Error	t	p	
Intercept	219.6	7.62	28.8	<0.01	0.73
PC1	11.14	3.03	3.68	<0.01	
PC2	30.47	3.71	8.2	<0.01	

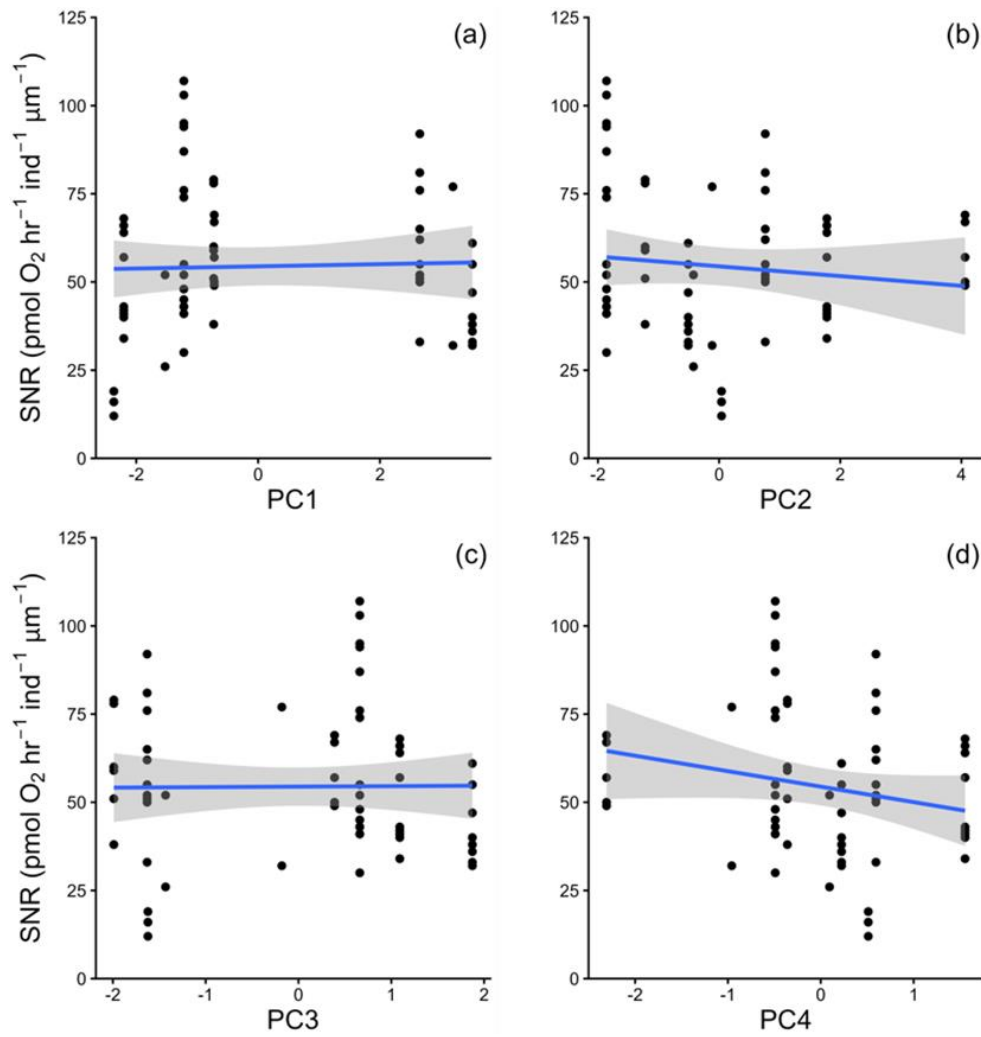


Figure S1: Regressions between the four principal components describing the environmental variables for the *N. pachyderma* dataset and size-normalized respiration rates of *N. pachyderma*.

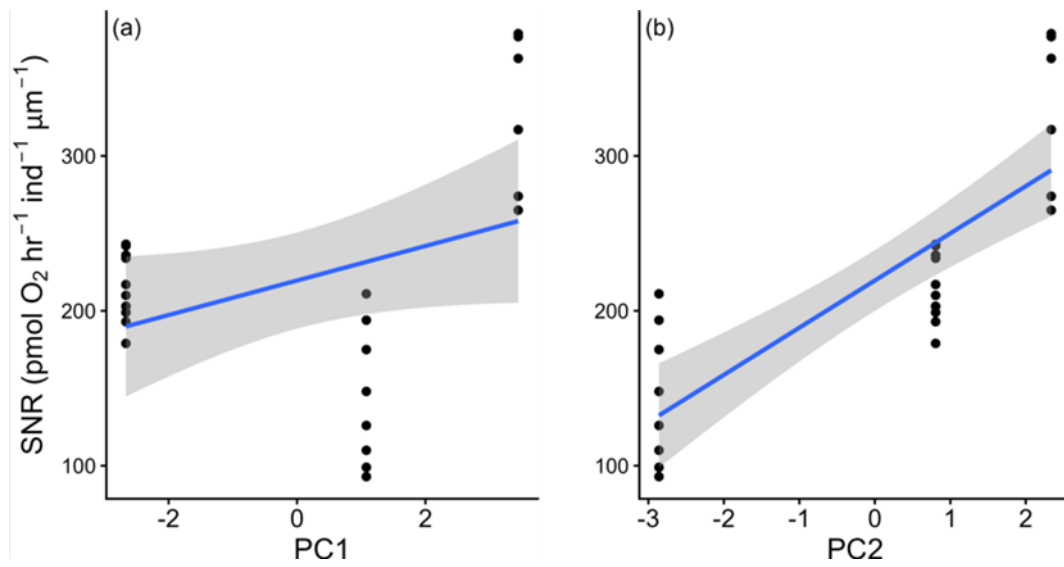


Figure S2: Regressions between the two principal components describing the environmental variables for the *N. incompta* dataset and size-normalized respiration rates of *N. incompta*.

Table S5. Partial Least Squares regression (PLSR)

SNR <i>N. pachyderma</i>	X Variance %	Y Variance %	RMSEP	95 % CI of coefficients
PC1	41.97	2.58	21.60	(1.79, 6.33)
PC2	99.06	3.13	21.98	(-0.38, 0.35)
PC3	99.57	25.08	20.03	(-0.73, 0.07)
PC4	99.96	25.51	19.66	(-0.12, 1.01)
SNR <i>N. incompta</i>	X Variance %	Y Variance %	RMSEP	95 % CI of coefficients
PC1	98.45	18.59	74.44	(4.85, 17.32)
PC2	100	78.61	41.53	(121.92, 38.51)

Table S6. Redundancy Analysis (RDA)

SNR <i>N. pachyderma</i>	Df	Variance	F	p-value
Constrained (by Environment)	8	169.42	3.97	0.001
Residual	54	288.19	-	-
SNR <i>N. incompta</i>	Df	Variance	F	p-value
Constrained (by Environment)	2	4893.4	40.42	0.001
Residual	22	1263.31331.6	-	-

Table S7. Summary of model performance vs Null Model

<i>N. pachyderma</i>	Explained variance	RMSEP	95% CI	Significance vs null
PCR	5.43%	19.63	-	NS
PLSR	25.5%	19.66	overlaps 0	NS
RDA	37.02%		-	p < 0.001
<i>N. incompta</i>	Explained variance	RMSEP	95% CI	Significance vs null
PCR	78.6%	41.24	-	p < 0.001
PLSR	78.6%	41.53	Does not overlap 0	p < 0.001
RDA	78.6%	-	-	p < 0.001

Table S8: Source Data for Figure 3:

Source	Species	$\sqrt[3]{\text{cavity volume}}$ [μm]	Max \emptyset [μm]
<i>This study</i>	<i>N. incompta</i>	156.42	297.34
<i>This study</i>	<i>N. incompta</i>	148.64	284.89
<i>This study</i>	<i>N. incompta</i>	161.29	291.37
<i>This study</i>	<i>N. incompta</i>	119.19	196.54
<i>This study</i>	<i>N. incompta</i>	90.67	168.36
(Burke <i>et al.</i>)	<i>N. incompta</i>	145.85	272.67
(Burke <i>et al.</i>)	<i>N. incompta</i>	177.16	349.08
(Burke <i>et al.</i>)	<i>N. incompta</i>	165.56	304.45
(Burke <i>et al.</i>)	<i>N. incompta</i>	178.36	314.45
(Burke <i>et al.</i>)	<i>N. incompta</i>	148.83	264.32
(Burke <i>et al.</i>)	<i>N. incompta</i>	165.58	306.85
(Burke <i>et al.</i>)	<i>N. incompta</i>	181.00	314.37
(Burke <i>et al.</i>)	<i>N. incompta</i>	173.84	306.12
<i>This study</i>	<i>N. pachyderma</i>	138.82	261.02
<i>This study</i>	<i>N. pachyderma</i>	86.34	165.48
<i>This study</i>	<i>N. pachyderma</i>	99.12	178.24
<i>This study</i>	<i>N. pachyderma</i>	111.57	201.36
<i>This study</i>	<i>N. pachyderma</i>	118.50	227.1
<i>This study</i>	<i>N. pachyderma</i>	153.20	264.08
<i>This study</i>	<i>N. pachyderma</i>	148.15	277.63
<i>This study</i>	<i>N. pachyderma</i>	138.69	236.06
<i>This study</i>	<i>N. pachyderma</i>	119.88	210.64
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	170.76	300.04
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	135.99	255.31
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	129.12	215.57
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	125.67	223.08
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	147.33	242.14
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	167.47	265.99
(Burke <i>et al.</i>)	<i>N. pachyderma</i>	171.11	290.05
<i>This study</i>	<i>T. quinqueloba</i>	77.93	146.54
<i>This study</i>	<i>T. quinqueloba</i>	82.85	157.97
<i>This study</i>	<i>T. quinqueloba</i>	139.79	237.58
<i>This study</i>	<i>T. quinqueloba</i>	72.76	136.91
<i>This study</i>	<i>T. quinqueloba</i>	119.57	217.52
<i>This study</i>	<i>T. quinqueloba</i>	76.29	149.09
<i>This study</i>	<i>T. quinqueloba</i>	132.51	245
(Burke <i>et al.</i>)	<i>T. quinqueloba</i>	109.30	197.82
(Burke <i>et al.</i>)	<i>T. quinqueloba</i>	112.76	206.68
(Burke <i>et al.</i>)	<i>T. quinqueloba</i>	144.25	263.33

Table S9: Source Data for Figures 5 and 6. Abbreviations: Temp=Temperature; Alk = Alkalinity; DIC = Dissolved Inorganic Carbon; TON= Total Oxidized Nitrogen; PO₄³⁻=Phosphate; SiO₂=silicon dioxide; Sal=salinity; Turb=Turbidity; Fluo=Fluorescence; DO= Dissolved Oxygen.

Taxon	St.	Lat	Long	Depth	Temp	pH	Ω _c	Alk	DIC	TON	PO ₄	SiO ₂	Sal	Turb	Fluo.	DO
				[m]	[°C]					[μmol Kg ⁻¹]			[PSU]			[ml L ⁻¹]
<i>N. incompta</i>	S1	55.65	-14.01	40	13	7.98	2.8	2309	2138	3.6	0.29	1.24	35.45	0.11	0.14	2.51
<i>N. pachyderma</i>	S2	71.63	-8.42	50	1	7.93	1.72	2276	2156	8.51	0.69	4.36	34.58	0.12	0.25	2.52
<i>N. pachyderma</i>	S8.1	74.25	-10.07	75	3.5	8.12	2.66	2300	2172	5.95	0.52	2.66	34.92	0.11	0.07	2.31
<i>N. pachyderma</i>	S10	70.50	-17.94	100	0.5	8.07	2.28	2293	2158	9.44	0.62	4.45	34.57	0.11	0.07	2.36
<i>N. pachyderma</i>	S11	67.87	-21.77	125	2.5	8.06	2.46	2298	2169	7.95	0.55	3.63	34.76	0.11	0.08	2.37
<i>N. pachyderma</i>	S12	65.42	-28.33	20	10	8.08	3.52	2317	2110	5.1	0.4	0.99	35.09	0.13	0.26	2.66
<i>N. incompta</i>	S16	62.75	-37.51	20	10	8.09	3.5	2305	2112	4.37	0.33	0.83	34.96	0.11	0.09	2.61
<i>N. pachyderma</i>	S17	60.18	-39.12	50	6	8.09	3.24	2299	2168	9.44	0.89	5.59	34.91	0.12	0.15	2.47
<i>N. pachyderma</i>	S18	58.25	-45.64	45	7.5	7.89	1.22	2185	2129	6.11	0.58	2.51	34.66	0.12	0.08	2.57
<i>N. pachyderma</i>	S19	57.55	-48.52	35	6	8.11	3.36	2296	2134	0.73	0.1	1.28	34.7	0.12	0.11	2.61
<i>N. incompta</i>	S20	56.36	-27.89	10	14	8.09	4.1	2311	2080	0.73	0.1	1.28	35.04	0.14	0.09	2.64

Table S10: Source Data for Figure 5 and 6. Note that all respiration rates are blank corrected and meet the limit of quantification. Standard deviations (SD) are derived from triplicate measurements of each experiment

Species	Station /Lab	Temp [°C]	Max Ø [µm]	$\sqrt[3]{\text{Cavity Volume}}$ [µm]	Respiration Rate (LOQ*) [pmol O ₂ hr ⁻¹ ind ⁻¹]	SD ± 1σ	SNR [pmol O ₂ hr ⁻¹ ind ⁻¹ µm ⁻¹]	Log10 SNR
<i>N. incompta</i>	S1	13	205	114.42	321.73	12.89	376.59	2.58
<i>N. incompta</i>	S1	13	230	128.42	253.77	2.80	264.66	2.42
<i>N. incompta</i>	S1	13	242	135.14	366.21	2.64	362.93	2.56
<i>N. incompta</i>	S1	13	260	145.22	411.21	1.90	379.24	2.58
<i>N. incompta</i>	S1	13	273	152.50	311.54	8.09	273.60	2.44
<i>N. incompta</i>	S1	13	286	159.78	378.03	19.52	316.87	2.50
<i>N. incompta</i>	S16	10	211	117.78	96.49	2.31	109.72	2.04
<i>N. incompta</i>	S16	10	226	126.18	118.34	4.53	125.61	2.10
<i>N. incompta</i>	S16	10	228	127.30	200.19	11.70	210.62	2.32
<i>N. incompta</i>	S16	10	232	129.54	95.35	3.03	98.58	1.99
<i>N. incompta</i>	S16	10	238	132.90	92.13	3.40	92.84	1.97
<i>N. incompta</i>	S16	10	238	132.90	173.96	7.86	175.31	2.24
<i>N. incompta</i>	S16	10	241	134.58	149.19	6.89	148.47	2.17
<i>N. incompta</i>	S16	10	255	142.42	206.28	7.61	193.98	2.29
<i>N. incompta</i>	S20	14	180	100.42	144.38	4.80	192.56	2.28
<i>N. incompta</i>	S20	14	181	100.98	149.89	6.36	198.81	2.30
<i>N. incompta</i>	S20	14	194	108.26	195.34	14.26	241.66	2.38
<i>N. incompta</i>	S20	14	211	117.78	184.68	1.06	210.01	2.32
<i>N. incompta</i>	S20	14	239	133.46	178.74	6.25	179.37	2.25
<i>N. incompta</i>	S20	14	254	141.86	257.87	8.51	243.46	2.39
<i>N. incompta</i>	S20	14	266	148.58	261.54	12.71	235.75	2.37
<i>N. incompta</i>	S20	14	270	150.82	228.16	12.75	202.61	2.31
<i>N. incompta</i>	S20	14	271	151.38	245.77	4.71	217.44	2.34
<i>N. incompta</i>	S20	14	278	155.30	235.91	9.54	203.45	2.31
<i>N. incompta</i>	S20	14	287	160.34	279.62	2.44	233.57	2.37
<i>N. pachyderma</i>	Lab	2	179	99.86	28.73	1.66	33.19	1.52
<i>N. pachyderma</i>	Lab	2	190	106.02	22.76	1.61	24.77	1.39
<i>N. pachyderma</i>	Lab	2	190	106.02	60.31	0.41	65.63	1.82
<i>N. pachyderma</i>	Lab	2	207	115.54	45.19	5.28	45.12	1.65
<i>N. pachyderma</i>	Lab	2	260	145.22	94.56	3.25	75.12	1.88
<i>N. pachyderma</i>	Lab	2	264	147.46	69.60	2.50	54.45	1.74
<i>N. pachyderma</i>	Lab	2	270	150.82	119.76	2.10	91.61	1.96
<i>N. pachyderma</i>	Lab	2	317	177.14	144.09	7.64	93.85	1.97
<i>N. pachyderma</i>	Lab	5	126	70.18	12.64	1.42	20.78	1.32
<i>N. pachyderma</i>	Lab	5	150	83.62	34.11	0.91	47.06	1.67
<i>N. pachyderma</i>	Lab	5	160	89.22	22.16	0.25	28.65	1.46
<i>N. pachyderma</i>	Lab	5	181	100.98	45.52	0.27	52.00	1.72
<i>N. pachyderma</i>	Lab	5	190	106.02	40.00	0.97	43.52	1.64
<i>N. pachyderma</i>	Lab	5	190	106.02	50.43	1.88	54.88	1.74
<i>N. pachyderma</i>	Lab	5	198	110.50	38.11	0.59	39.79	1.60
<i>N. pachyderma</i>	Lab	5	203	113.30	38.39	0.88	39.09	1.59
<i>N. pachyderma</i>	Lab	5	205	114.42	59.00	0.96	59.49	1.77
<i>N. pachyderma</i>	Lab	5	208	116.10	58.34	2.10	57.97	1.76
<i>N. pachyderma</i>	Lab	5	217	121.14	85.02	2.61	80.96	1.91
<i>N. pachyderma</i>	Lab	5	218	121.70	58.86	0.95	55.80	1.75
<i>N. pachyderma</i>	Lab	5	223	124.50	48.00	0.55	44.48	1.65
<i>N. pachyderma</i>	Lab	5	229	127.86	91.07	3.05	82.18	1.91
<i>N. pachyderma</i>	Lab	5	233	130.10	88.34	2.94	78.34	1.89
<i>N. pachyderma</i>	Lab	5	234	130.66	84.99	6.14	75.04	1.88
<i>N. pachyderma</i>	Lab	5	247	137.94	77.05	2.16	64.44	1.81
<i>N. pachyderma</i>	Lab	5	283	158.10	156.67	2.65	114.32	2.06
<i>N. pachyderma</i>	Lab	5	298	166.50	116.97	1.91	81.04	1.91
<i>N. pachyderma</i>	Lab	8	110	61.22	34.00	1.26	64.06	1.81
<i>N. pachyderma</i>	Lab	8	117	65.14	41.81	1.20	74.04	1.87
<i>N. pachyderma</i>	Lab	8	122	67.94	33.28	0.90	56.51	1.75
<i>N. pachyderma</i>	Lab	8	133	74.10	34.23	1.35	53.29	1.73
<i>N. pachyderma</i>	Lab	8	137	76.34	26.54	0.34	40.10	1.60
<i>N. pachyderma</i>	Lab	8	138	76.90	39.29	0.72	58.94	1.77
<i>N. pachyderma</i>	Lab	8	142	79.14	63.58	0.86	92.69	1.97
<i>N. pachyderma</i>	Lab	8	151	84.18	38.30	0.80	52.50	1.72
<i>N. pachyderma</i>	Lab	8	156	86.98	24.40	1.28	32.36	1.51
<i>N. pachyderma</i>	Lab	8	160	89.22	38.74	3.38	50.09	1.70

Species	Station /Lab	Temp [°C]	Max Ø [µm]	$\sqrt[3]{\text{Cavity Volume}}$ [µm]	Respiration Rate (LOQ*) [pmol O ₂ hr ⁻¹ ind ⁻¹]	SD ± 1σ	SNR [pmol O ₂ hr ⁻¹ ind ⁻¹ µm ⁻¹]	Log10 SNR
<i>N. pachyderma</i>	Lab	8	163	90.90	52.77	0.95	66.98	1.83
<i>N. pachyderma</i>	Lab	8	166	92.58	59.34	1.92	73.94	1.87
<i>N. pachyderma</i>	Lab	8	183	102.10	90.16	0.59	101.88	2.01
<i>N. pachyderma</i>	Lab	8	190	106.02	98.54	0.51	107.23	2.03
<i>N. pachyderma</i>	Lab	8	210	117.22	73.38	1.66	72.22	1.86
<i>N. pachyderma</i>	Lab	13	120	66.82	45.86	0.48	79.18	1.90
<i>N. pachyderma</i>	Lab	13	123	68.50	59.01	0.73	99.38	2.00
<i>N. pachyderma</i>	Lab	13	155	86.42	88.71	0.67	118.42	2.07
<i>N. pachyderma</i>	Lab	13	157	87.54	71.09	2.55	93.68	1.97
<i>N. pachyderma</i>	Lab	13	160	89.22	95.16	0.56	123.05	2.09
<i>N. pachyderma</i>	S2	1	176	98.18	57.36	4.23	67.40	1.83
<i>N. pachyderma</i>	S2	1	178	99.30	35.17	2.80	40.86	1.61
<i>N. pachyderma</i>	S2	1	189	105.46	38.95	0.57	42.61	1.63
<i>N. pachyderma</i>	S2	1	197	109.94	32.09	0.59	33.67	1.53
<i>N. pachyderma</i>	S2	1	199	111.06	38.47	2.06	39.97	1.60
<i>N. pachyderma</i>	S2	1	204	113.86	63.06	1.17	63.90	1.81
<i>N. pachyderma</i>	S2	1	211	117.78	67.35	8.01	65.97	1.82
<i>N. pachyderma</i>	S2	1	214	119.46	43.26	0.78	41.78	1.62
<i>N. pachyderma</i>	S2	1	217	121.14	59.58	1.24	56.74	1.75
<i>N. pachyderma</i>	S8.1	3.5	151	84.18	27.63	2.17	37.86	1.58
<i>N. pachyderma</i>	S8.1	3.5	175	97.62	42.71	2.07	50.47	1.70
<i>N. pachyderma</i>	S8.1	3.5	197	109.94	74.23	2.39	77.89	1.89
<i>N. pachyderma</i>	S8.1	3.5	211	117.78	59.67	1.62	58.44	1.77
<i>N. pachyderma</i>	S8.1	3.5	216	120.58	82.48	2.00	78.91	1.90
<i>N. pachyderma</i>	S8.1	3.5	219	122.26	63.34	1.60	59.77	1.78
<i>N. pachyderma</i>	S10	0.5	262	146.34	20.44	1.63	16.11	1.21
<i>N. pachyderma</i>	S10	0.5	270	150.82	25.01	1.91	19.13	1.28
<i>N. pachyderma</i>	S10	0.5	303	169.30	18.06	1.44	12.31	1.09
<i>N. pachyderma</i>	S10	0.5	305	170.42	22.99	0.93	15.56	1.19
<i>N. pachyderma</i>	S11	2.5	250	139.62	31.52	0.25	26.04	1.42
<i>N. pachyderma</i>	S11	2.5	294	164.26	73.79	2.96	51.83	1.71
<i>N. pachyderma</i>	S12	10	210	117.22	56.27	1.22	55.38	1.74
<i>N. pachyderma</i>	S12	10	222	123.94	38.68	2.83	36.01	1.56
<i>N. pachyderma</i>	S12	10	234	130.66	69.14	2.06	61.05	1.79
<i>N. pachyderma</i>	S12	10	244	136.26	46.64	2.73	39.49	1.60
<i>N. pachyderma</i>	S12	10	248	138.50	38.76	2.53	32.29	1.51
<i>N. pachyderma</i>	S12	10	279	155.86	44.75	1.53	33.12	1.52
<i>N. pachyderma</i>	S12	10	282	157.54	63.70	5.32	46.64	1.67
<i>N. pachyderma</i>	S12	10	308	172.10	56.12	2.18	37.62	1.58
<i>N. pachyderma</i>	S16	10	185	103.22	28.57	4.56	31.94	1.50
<i>N. pachyderma</i>	S16	10	187	104.34	69.89	2.03	77.27	1.89
<i>N. pachyderma</i>	S17	6	149	83.06	37.57	3.16	52.19	1.72
<i>N. pachyderma</i>	S17	6	164	91.46	34.42	2.57	43.41	1.64
<i>N. pachyderma</i>	S17	6	179	99.86	35.14	2.96	40.60	1.61
<i>N. pachyderma</i>	S17	6	179	99.86	92.82	4.70	107.23	2.03
<i>N. pachyderma</i>	S17	6	187	104.34	38.47	2.22	42.54	1.63
<i>N. pachyderma</i>	S17	6	199	111.06	28.94	2.19	30.07	1.48
<i>N. pachyderma</i>	S17	6	199	111.06	98.70	3.09	102.52	2.01
<i>N. pachyderma</i>	S17	6	200	111.62	46.21	2.53	47.76	1.68
<i>N. pachyderma</i>	S17	6	206	114.98	54.83	3.44	55.02	1.74
<i>N. pachyderma</i>	S17	6	206	114.98	73.67	5.89	73.92	1.87
<i>N. pachyderma</i>	S17	6	207	115.54	45.45	4.58	45.38	1.66
<i>N. pachyderma</i>	S17	6	225	125.62	101.76	3.30	93.46	1.97
<i>N. pachyderma</i>	S17	6	238	132.90	109.68	7.10	95.21	1.98
<i>N. pachyderma</i>	S17	6	243	135.70	86.92	5.13	73.90	1.87
<i>N. pachyderma</i>	S17	6	251	140.18	49.80	4.40	40.98	1.61
<i>N. pachyderma</i>	S17	6	266	148.58	97.44	4.40	75.66	1.88
<i>N. pachyderma</i>	S17	6	269	150.26	113.72	3.76	87.31	1.94
<i>N. pachyderma</i>	S18	7.5	154	85.86	36.79	3.59	49.43	1.69
<i>N. pachyderma</i>	S18	7.5	178	99.30	48.67	3.97	56.55	1.75
<i>N. pachyderma</i>	S18	7.5	199	111.06	64.58	0.04	67.09	1.83
<i>N. pachyderma</i>	S18	7.5	217	121.14	72.36	3.80	68.91	1.84
<i>N. pachyderma</i>	S18	7.5	228	127.30	53.87	2.91	48.82	1.69
<i>N. pachyderma</i>	S19	6	248	138.50	61.00	2.55	50.81	1.71

Species	Stat. /Lab	Temp [°C]	Max Ø [µm]	$\sqrt[3]{\text{Cavity Volume}}$ [µm]	Respiration Rate (LOQ*) [pmol O ₂ hr ⁻¹ ind ⁻¹]	SD ± 1σ	SNR [pmol O ₂ hr ⁻¹ ind ⁻¹ µm ⁻¹]	Log10 SNR
<i>N. pachyderma</i>	S19	6	224	125.06	70.04	0.91	64.61	1.81
<i>N. pachyderma</i>	S19	6	160	89.22	70.74	0.84	91.47	1.96
<i>N. pachyderma</i>	S19	6	205	114.42	51.80	2.25	52.23	1.72
<i>N. pachyderma</i>	S19	6	299	167.06	71.79	1.66	49.57	1.70
<i>N. pachyderma</i>	S19	6	307	171.54	112.63	0.71	75.75	1.88
<i>N. pachyderma</i>	S19	6	200	111.62	52.71	2.50	54.48	1.74
<i>N. pachyderma</i>	S19	6	221	123.38	86.32	1.94	80.72	1.91
<i>N. pachyderma</i>	S19	6	243	135.70	72.75	4.78	61.85	1.79
<i>N. pachyderma</i>	S19	6	186	103.78	35.58	2.82	39.55	1.60
<i>T. quinqueloba</i>	Lab	2	162	90.34	8.59	0.64	10.51	1.02
<i>T. quinqueloba</i>	Lab	2	194	108.26	12.67	1.08	12.93	1.11
<i>T. quinqueloba</i>	Lab	2	216	120.58	24.33	1.65	22.30	1.35
<i>T. quinqueloba</i>	Lab	2	255	142.42	13.59	1.35	10.54	1.02
<i>T. quinqueloba</i>	Lab	5	140	78.02	25.29	2.70	35.83	1.55
<i>T. quinqueloba</i>	Lab	5	178	99.30	16.12	1.36	17.95	1.25
<i>T. quinqueloba</i>	Lab	5	178	99.30	17.99	0.22	20.02	1.30
<i>T. quinqueloba</i>	Lab	5	189	105.46	14.15	1.03	14.83	1.17
<i>T. quinqueloba</i>	Lab	5	195	108.82	59.71	1.09	60.65	1.78
<i>T. quinqueloba</i>	Lab	5	208	116.10	33.23	0.84	31.64	1.50
<i>T. quinqueloba</i>	Lab	5	214	119.46	30.41	0.62	28.13	1.45
<i>T. quinqueloba</i>	Lab	5	228	127.30	33.59	1.61	29.16	1.46
<i>T. quinqueloba</i>	Lab	5	230	128.42	43.80	0.39	37.69	1.58
<i>T. quinqueloba</i>	Lab	5	232	129.54	32.89	0.56	28.06	1.45
<i>T. quinqueloba</i>	Lab	8	161	89.78	36.70	0.74	45.18	1.65
<i>T. quinqueloba</i>	Lab	8	199	111.06	45.80	2.69	45.58	1.66
<i>T. quinqueloba</i>	Lab	8	205	114.42	42.97	1.81	41.51	1.62
<i>T. quinqueloba</i>	Lab	8	209	116.66	34.73	1.11	32.90	1.52
<i>T. quinqueloba</i>	Lab	13	154	85.86	79.57	0.87	102.42	2.01
<i>T. quinqueloba</i>	Lab	13	182	101.54	52.83	0.95	57.51	1.76
<i>T. quinqueloba</i>	Lab	13	197	109.94	128.34	1.33	129.02	2.11
<i>T. quinqueloba</i>	Lab	13	210	117.22	74.21	0.55	69.97	1.84
<i>T. quinqueloba</i>	Lab	13	219	122.26	60.94	0.82	55.09	1.74

Table S11: Source data for Figure 7. Please note that respiration rates are size normalized for biovolume

Source	Species	Stat. /Lab	Temp [°C]	Max Ø [µm]	Bio volume [µm ³]	Respiration Rate (LOQ) [pmol O ₂ h ⁻¹ ind ⁻¹]	SNR _{Bio} [pmol O ₂ h ⁻¹ ind ⁻¹ µm ³]	Log10 SNR _{Bio}
This Study	<i>N. incompta</i>	S1	13	205	1.50E+06	321.73	540.35	2.73
This Study	<i>N. incompta</i>	S1	13	230	2.12E+06	253.77	301.46	2.48
This Study	<i>N. incompta</i>	S1	13	242	2.47E+06	366.21	373.31	2.57
This Study	<i>N. incompta</i>	S1	13	260	3.06E+06	411.21	337.81	2.53
This Study	<i>N. incompta</i>	S1	13	273	3.55E+06	311.54	221.00	2.34
This Study	<i>N. incompta</i>	S1	13	286	4.08E+06	378.03	233.15	2.37
This Study	<i>N. incompta</i>	S16	10	211	1.63E+06	96.49	148.58	2.17
This Study	<i>N. incompta</i>	S16	10	226	2.01E+06	118.34	148.20	2.17
This Study	<i>N. incompta</i>	S16	10	228	2.06E+06	200.19	244.15	2.39
This Study	<i>N. incompta</i>	S16	10	232	2.17E+06	95.35	110.36	2.04
This Study	<i>N. incompta</i>	S16	10	238	2.35E+06	92.13	98.74	1.99
This Study	<i>N. incompta</i>	S16	10	238	2.35E+06	173.96	186.46	2.27
This Study	<i>N. incompta</i>	S16	10	241	2.44E+06	149.19	153.99	2.19
This Study	<i>N. incompta</i>	S16	10	255	2.89E+06	206.28	179.65	2.25
This Study	<i>N. incompta</i>	S20	14	180	1.01E+06	144.38	358.71	2.55
This Study	<i>N. incompta</i>	S20	14	181	1.03E+06	149.89	366.24	2.56
This Study	<i>N. incompta</i>	S20	14	194	1.27E+06	195.34	387.32	2.59
This Study	<i>N. incompta</i>	S20	14	211	1.63E+06	184.68	284.38	2.45
This Study	<i>N. incompta</i>	S20	14	239	2.38E+06	178.74	189.18	2.28
This Study	<i>N. incompta</i>	S20	14	254	2.85E+06	257.87	227.26	2.36
This Study	<i>N. incompta</i>	S20	14	266	3.28E+06	261.54	200.61	2.30
This Study	<i>N. incompta</i>	S20	14	270	3.43E+06	228.16	167.32	2.22
This Study	<i>N. incompta</i>	S20	14	271	3.47E+06	245.77	178.24	2.25
This Study	<i>N. incompta</i>	S20	14	278	3.75E+06	235.91	158.46	2.20
This Study	<i>N. incompta</i>	S20	14	287	4.12E+06	279.62	170.66	2.23

Source	Species	Stat. /Lab	Temp [°C]	Max Ø [µm]	Bio volume [µm ³]	Respiration Rate (LOQ) [pmol O ₂ h ⁻¹ ind ⁻¹]	SNR _{Bio} [pmol O ₂ h ⁻¹ ind ⁻¹ µm ³]	Log10 SNR _{Bio}
This Study	<i>N. pachyderma</i>	Lab	2	179	9.96E+05	28.73	51.56	1.71
This Study	<i>N. pachyderma</i>	Lab	2	190	1.19E+06	22.76	34.13	1.53
This Study	<i>N. pachyderma</i>	Lab	2	190	1.19E+06	60.31	90.45	1.96
This Study	<i>N. pachyderma</i>	Lab	2	207	1.54E+06	45.19	52.36	1.72
This Study	<i>N. pachyderma</i>	Lab	2	260	3.06E+06	94.56	55.18	1.74
This Study	<i>N. pachyderma</i>	Lab	2	264	3.21E+06	69.60	38.79	1.59
This Study	<i>N. pachyderma</i>	Lab	2	270	3.43E+06	119.76	62.38	1.80
This Study	<i>N. pachyderma</i>	Lab	2	317	5.56E+06	144.09	46.33	1.67
This Study	<i>N. pachyderma</i>	Lab	5	126	3.46E+05	12.64	65.34	1.82
This Study	<i>N. pachyderma</i>	Lab	5	150	5.85E+05	34.11	104.26	2.02
This Study	<i>N. pachyderma</i>	Lab	5	160	7.10E+05	22.16	55.75	1.75
This Study	<i>N. pachyderma</i>	Lab	5	181	1.03E+06	45.52	79.00	1.90
This Study	<i>N. pachyderma</i>	Lab	5	190	1.19E+06	40.00	59.98	1.78
This Study	<i>N. pachyderma</i>	Lab	5	190	1.19E+06	50.43	75.63	1.88
This Study	<i>N. pachyderma</i>	Lab	5	198	1.35E+06	38.11	50.48	1.70
This Study	<i>N. pachyderma</i>	Lab	5	203	1.45E+06	38.39	47.17	1.67
This Study	<i>N. pachyderma</i>	Lab	5	205	1.50E+06	59.00	70.39	1.85
This Study	<i>N. pachyderma</i>	Lab	5	208	1.56E+06	58.34	66.62	1.82
This Study	<i>N. pachyderma</i>	Lab	5	217	1.78E+06	85.02	85.47	1.93
This Study	<i>N. pachyderma</i>	Lab	5	218	1.80E+06	58.86	58.36	1.77
This Study	<i>N. pachyderma</i>	Lab	5	223	1.93E+06	48.00	44.46	1.65
This Study	<i>N. pachyderma</i>	Lab	5	229	2.09E+06	91.07	77.87	1.89
This Study	<i>N. pachyderma</i>	Lab	5	233	2.20E+06	88.34	71.70	1.86
This Study	<i>N. pachyderma</i>	Lab	5	234	2.23E+06	84.99	68.09	1.83
This Study	<i>N. pachyderma</i>	Lab	5	247	2.62E+06	77.05	52.46	1.72
This Study	<i>N. pachyderma</i>	Lab	5	283	3.95E+06	156.67	70.85	1.85
This Study	<i>N. pachyderma</i>	Lab	5	298	4.62E+06	116.97	45.29	1.66
This Study	<i>N. pachyderma</i>	Lab	8	110	2.29E+05	34.00	264.79	2.42
This Study	<i>N. pachyderma</i>	Lab	8	117	2.76E+05	41.81	270.31	2.43
This Study	<i>N. pachyderma</i>	Lab	8	122	3.14E+05	33.28	189.65	2.28
This Study	<i>N. pachyderma</i>	Lab	8	133	4.07E+05	34.23	150.33	2.18
This Study	<i>N. pachyderma</i>	Lab	8	137	4.45E+05	26.54	106.60	2.03
This Study	<i>N. pachyderma</i>	Lab	8	138	4.55E+05	39.29	154.41	2.19
This Study	<i>N. pachyderma</i>	Lab	8	142	4.96E+05	63.58	229.24	2.36
This Study	<i>N. pachyderma</i>	Lab	8	151	5.97E+05	38.30	114.76	2.06
This Study	<i>N. pachyderma</i>	Lab	8	156	6.58E+05	24.40	66.27	1.82
This Study	<i>N. pachyderma</i>	Lab	8	160	7.10E+05	38.74	97.48	1.99
This Study	<i>N. pachyderma</i>	Lab	8	163	7.51E+05	52.77	125.56	2.10
This Study	<i>N. pachyderma</i>	Lab	8	166	7.94E+05	59.34	133.64	2.13
This Study	<i>N. pachyderma</i>	Lab	8	183	1.06E+06	90.16	151.39	2.18
This Study	<i>N. pachyderma</i>	Lab	8	190	1.19E+06	98.54	147.78	2.17
This Study	<i>N. pachyderma</i>	Lab	8	210	1.61E+06	73.38	81.42	1.91
This Study	<i>N. pachyderma</i>	Lab	13	120	2.98E+05	45.86	274.71	2.44
This Study	<i>N. pachyderma</i>	Lab	13	123	3.21E+05	59.01	328.10	2.52
This Study	<i>N. pachyderma</i>	Lab	13	155	6.45E+05	88.71	245.62	2.39
This Study	<i>N. pachyderma</i>	Lab	13	157	6.71E+05	71.09	189.38	2.28
This Study	<i>N. pachyderma</i>	Lab	13	160	7.10E+05	95.16	239.45	2.38
This Study	<i>N. pachyderma</i>	S2	1	176	9.46E+05	57.36	108.31	2.03
This Study	<i>N. pachyderma</i>	S2	1	178	9.79E+05	35.17	64.19	1.81
This Study	<i>N. pachyderma</i>	S2	1	189	1.17E+06	38.95	59.35	1.77
This Study	<i>N. pachyderma</i>	S2	1	197	1.33E+06	32.09	43.16	1.64
This Study	<i>N. pachyderma</i>	S2	1	199	1.37E+06	38.47	50.19	1.70
This Study	<i>N. pachyderma</i>	S2	1	204	1.48E+06	63.06	76.35	1.88
This Study	<i>N. pachyderma</i>	S2	1	211	1.63E+06	67.35	73.67	1.87
This Study	<i>N. pachyderma</i>	S2	1	214	1.70E+06	43.26	45.35	1.66
This Study	<i>N. pachyderma</i>	S2	1	217	1.78E+06	59.58	59.90	1.78
This Study	<i>N. pachyderma</i>	S8.1	3.5	151	5.97E+05	27.63	82.77	1.92
This Study	<i>N. pachyderma</i>	S8.1	3.5	175	9.30E+05	42.71	82.04	1.91
This Study	<i>N. pachyderma</i>	S8.1	3.5	197	1.33E+06	74.23	99.83	2.00
This Study	<i>N. pachyderma</i>	S8.1	3.5	211	1.63E+06	59.67	65.26	1.81
This Study	<i>N. pachyderma</i>	S8.1	3.5	216	1.75E+06	82.48	84.07	1.92
This Study	<i>N. pachyderma</i>	S8.1	3.5	219	1.83E+06	63.34	61.95	1.79
This Study	<i>N. pachyderma</i>	S10	0.5	262	3.13E+06	20.44	11.66	1.07
This Study	<i>N. pachyderma</i>	S10	0.5	270	3.43E+06	25.01	13.03	1.11

Source	Species	Stat. /Lab	Temp [°C]	Max Ø [µm]	Bio volume [µm ³]	Respiration Rate (LOQ) [pmol O ₂ h ⁻¹ ind ⁻¹]	SNR _{Bio} [pmol O ₂ h ⁻¹ ind ⁻¹ µm ³]	Log10 SNR _{Bio}
This Study	<i>N. pachyderma</i>	S10	0.5	303	4.85E+06	18.06	6.65	0.82
This Study	<i>N. pachyderma</i>	S10	0.5	305	4.95E+06	22.99	8.30	0.92
This Study	<i>N. pachyderma</i>	S11	2.5	250	2.72E+06	31.52	20.70	1.32
This Study	<i>N. pachyderma</i>	S11	2.5	294	4.43E+06	73.79	29.76	1.47
This Study	<i>N. pachyderma</i>	S12	10	210	1.61E+06	56.27	62.43	1.80
This Study	<i>N. pachyderma</i>	S12	10	222	1.90E+06	38.68	36.31	1.56
This Study	<i>N. pachyderma</i>	S12	10	234	2.23E+06	69.14	55.39	1.74
This Study	<i>N. pachyderma</i>	S12	10	244	2.53E+06	46.64	32.95	1.52
This Study	<i>N. pachyderma</i>	S12	10	248	2.66E+06	38.76	26.07	1.42
This Study	<i>N. pachyderma</i>	S12	10	279	3.79E+06	44.75	21.12	1.32
This Study	<i>N. pachyderma</i>	S12	10	282	3.91E+06	63.70	29.11	1.46
This Study	<i>N. pachyderma</i>	S12	10	308	5.10E+06	56.12	19.68	1.29
This Study	<i>N. pachyderma</i>	S16	10	185	1.10E+06	28.57	46.43	1.67
This Study	<i>N. pachyderma</i>	S16	10	187	1.14E+06	69.89	109.95	2.04
This Study	<i>N. pachyderma</i>	S17	6	149	5.73E+05	37.57	117.18	2.07
This Study	<i>N. pachyderma</i>	S17	6	164	7.65E+05	34.42	80.39	1.91
This Study	<i>N. pachyderma</i>	S17	6	179	9.96E+05	35.14	63.07	1.80
This Study	<i>N. pachyderma</i>	S17	6	179	9.96E+05	92.82	166.57	2.22
This Study	<i>N. pachyderma</i>	S17	6	187	1.14E+06	38.47	60.53	1.78
This Study	<i>N. pachyderma</i>	S17	6	199	1.37E+06	28.94	37.76	1.58
This Study	<i>N. pachyderma</i>	S17	6	199	1.37E+06	98.70	128.76	2.11
This Study	<i>N. pachyderma</i>	S17	6	200	1.39E+06	46.21	59.39	1.77
This Study	<i>N. pachyderma</i>	S17	6	206	1.52E+06	54.83	64.47	1.81
This Study	<i>N. pachyderma</i>	S17	6	206	1.52E+06	73.67	86.62	1.94
This Study	<i>N. pachyderma</i>	S17	6	207	1.54E+06	45.45	52.66	1.72
This Study	<i>N. pachyderma</i>	S17	6	225	1.98E+06	101.76	91.74	1.96
This Study	<i>N. pachyderma</i>	S17	6	238	2.35E+06	109.68	83.50	1.92
This Study	<i>N. pachyderma</i>	S17	6	243	2.50E+06	86.92	62.17	1.79
This Study	<i>N. pachyderma</i>	S17	6	251	2.75E+06	49.80	32.31	1.51
This Study	<i>N. pachyderma</i>	S17	6	266	3.28E+06	97.44	53.09	1.73
This Study	<i>N. pachyderma</i>	S17	6	269	3.39E+06	113.72	59.90	1.78
This Study	<i>N. pachyderma</i>	S18	7.5	154	6.33E+05	36.79	103.88	2.02
This Study	<i>N. pachyderma</i>	S18	7.5	178	9.79E+05	48.67	88.84	1.95
This Study	<i>N. pachyderma</i>	S18	7.5	199	1.37E+06	64.58	84.25	1.93
This Study	<i>N. pachyderma</i>	S18	7.5	217	1.78E+06	72.36	72.74	1.86
This Study	<i>N. pachyderma</i>	S18	7.5	228	2.06E+06	53.87	46.67	1.67
This Study	<i>N. pachyderma</i>	S19	6	248	2.66E+06	61.00	41.03	1.61
This Study	<i>N. pachyderma</i>	S19	6	224	1.96E+06	70.04	64.00	1.81
This Study	<i>N. pachyderma</i>	S19	6	160	7.10E+05	70.74	178.01	2.25
This Study	<i>N. pachyderma</i>	S19	6	205	1.50E+06	51.80	61.80	1.79
This Study	<i>N. pachyderma</i>	S19	6	299	4.66E+06	71.79	27.52	1.44
This Study	<i>N. pachyderma</i>	S19	6	307	5.05E+06	112.63	39.88	1.60
This Study	<i>N. pachyderma</i>	S19	6	200	1.39E+06	52.71	67.74	1.83
This Study	<i>N. pachyderma</i>	S19	6	221	1.88E+06	86.32	82.14	1.91
This Study	<i>N. pachyderma</i>	S19	6	243	2.50E+06	72.75	52.03	1.72
This Study	<i>N. pachyderma</i>	S19	6	186	1.12E+06	35.58	56.88	1.75
This Study	<i>T. quinqueloba</i>	Lab	2	162	7.37E+05	8.59	16.62	1.22
This Study	<i>T. quinqueloba</i>	Lab	2	194	1.27E+06	12.67	14.23	1.15
This Study	<i>T. quinqueloba</i>	Lab	2	216	1.75E+06	24.33	19.79	1.30
This Study	<i>T. quinqueloba</i>	Lab	2	255	2.89E+06	13.59	6.71	0.83
This Study	<i>T. quinqueloba</i>	Lab	5	140	4.75E+05	25.29	75.93	1.88
This Study	<i>T. quinqueloba</i>	Lab	5	178	9.79E+05	16.12	23.48	1.37
This Study	<i>T. quinqueloba</i>	Lab	5	178	9.79E+05	17.99	26.20	1.42
This Study	<i>T. quinqueloba</i>	Lab	5	189	1.17E+06	14.15	17.20	1.24
This Study	<i>T. quinqueloba</i>	Lab	5	195	1.29E+06	59.71	66.07	1.82
This Study	<i>T. quinqueloba</i>	Lab	5	208	1.56E+06	33.23	30.28	1.48
This Study	<i>T. quinqueloba</i>	Lab	5	214	1.70E+06	30.41	25.43	1.41
This Study	<i>T. quinqueloba</i>	Lab	5	228	2.06E+06	33.59	23.21	1.37
This Study	<i>T. quinqueloba</i>	Lab	5	230	2.12E+06	43.80	29.48	1.47
This Study	<i>T. quinqueloba</i>	Lab	5	232	2.17E+06	32.89	21.57	1.33
This Study	<i>T. quinqueloba</i>	Lab	8	161	7.24E+05	36.70	72.31	1.86
This Study	<i>T. quinqueloba</i>	Lab	8	199	1.37E+06	45.80	47.67	1.68
This Study	<i>T. quinqueloba</i>	Lab	8	205	1.50E+06	42.97	40.90	1.61
This Study	<i>T. quinqueloba</i>	Lab	8	209	1.59E+06	34.73	31.18	1.49

Source	Species	Stat. /Lab	Temp [°C]	Max Ø [µm]	Bio volume [µm ³]	Respiration Rate (LOQ) [pmol O ₂ h ⁻¹ ind ⁻¹]	SNR _{Bio} [pmol O ₂ h ⁻¹ ind ⁻¹ µm ³]	Log10 SNR _{Bio}
This Study	<i>T. quinqueloba</i>	Lab	13	154	6.33E+05	79.57	179.23	2.25
This Study	<i>T. quinqueloba</i>	Lab	13	182	1.05E+06	52.83	71.95	1.86
This Study	<i>T. quinqueloba</i>	Lab	13	197	1.33E+06	128.34	137.71	2.14
This Study	<i>T. quinqueloba</i>	Lab	13	210	1.61E+06	74.21	65.69	1.82
This Study	<i>T. quinqueloba</i>	Lab	13	219	1.83E+06	60.94	47.54	1.68
Rink et al. 1998	<i>O. universa</i>	-	21	297	1.53E+07	1720	6993.15	3.84
Rink et al. 1998	<i>O. universa</i>	-	21.5	473	4.48E+07	1710	2381.41	3.38
Rink et al. 1998	<i>O. universa</i>	-	22	463	4.25E+07	4690	6877.57	3.84
Rink et al. 1998	<i>O. universa</i>	-	23	554	6.60E+07	5940	5609.83	3.75
Rink et al. 1998	<i>O. universa</i>	-	23.5	554	6.60E+07	5170	4882.63	3.69
Lombard et al. 2009	<i>O. universa</i>	-	15.3	521	7.40E+07	350	294.99	2.47
Lombard et al. 2009	<i>O. universa</i>	-	19.9	521	7.40E+07	600	505.70	2.70
Lombard et al. 2009	<i>O. universa</i>	-	24.3	521	7.40E+07	1080	910.25	2.96
Lombard et al. 2009	<i>O. universa</i>	-	29.3	521	7.40E+07	1910	1609.80	3.21
Burke et al. 2025	<i>O. universa</i>	-	21	670	9.30E+07	5596.43	3754.98	3.57
Burke et al. 2025	<i>G. ruber</i>	-	21	338	5.40E+06	2004.70	3812.27	3.58
Burke et al. 2025	<i>G. ruber</i>	-	21	361	9.65E+06	682.73	727.21	2.86
Burke et al. 2025	<i>G. ruber</i>	-	21	384	1.55E+07	2004.70	1327.70	3.12
Burke et al. 2025	<i>G. ruber</i>	-	21	526	3.66E+07	631.23	177.42	2.25
Burke et al. 2025	<i>G. ruber</i>	-	24	230	2.30E+06	1087.07	4863.63	3.69
Burke et al. 2025	<i>G. ruber</i>	-	24	277	4.60E+06	321.70	718.00	2.86
Lombard et al. 2009	<i>G. ruber</i>	-	17.3	189	6.13E+06	150	251.35	2.40
Lombard et al. 2009	<i>G. ruber</i>	-	19.4	249	1.06E+07	190	184.87	2.27
Lombard et al. 2009	<i>G. ruber</i>	-	21.6	189	6.13E+06	190	318.37	2.50
Lombard et al. 2009	<i>G. ruber</i>	-	24.1	189	6.13E+06	430	720.53	2.86
Lombard et al. 2009	<i>G. ruber</i>	-	24.1	241	9.88E+06	330	343.34	2.54
Lombard et al. 2009	<i>G. ruber</i>	-	24.2	249	1.06E+07	470	457.30	2.66
Lombard et al. 2009	<i>G. ruber</i>	-	29.5	249	1.06E+07	670	651.90	2.81
Lombard et al. 2009	<i>G. ruber</i>	-	29.6	241	9.88E+06	620	645.07	2.81
Lombard et al. 2009	<i>G. siphonifera</i>	-	18.7	347	2.17E+07	670	670.00	2.83
Lombard et al. 2009	<i>G. siphonifera</i>	-	24.3	347	2.17E+07	820	820.00	2.91
Lombard et al. 2009	<i>G. siphonifera</i>	-	27.8	347	2.17E+07	1340	1340.00	3.13
Burke et al. 2025	<i>G. menardii</i>	-	26	432	7.60E+06	1100	1717.80	3.23
Burke et al. 2025	<i>G. menardii</i>	-	26	478	8.43E+06	1500	2112.76	3.32
Burke et al. 2025	<i>G. menardii</i>	-	26	490	5.47E+06	3700	8031.13	3.90
Burke et al. 2025	<i>G. menardii</i>	-	26	556	1.05E+07	1900	2147.31	3.33
Burke et al. 2025	<i>G. menardii</i>	-	26	572	1.23E+07	2200	2126.60	3.33
Burke et al. 2025	<i>G. menardii</i>	-	26	637	1.69E+07	1600	1122.68	3.05
Burke et al. 2025	<i>G. menardii</i>	-	26	755	2.19E+07	800	433.73	2.64
Burke et al. 2025	<i>H. pelagica</i>	-	21	629	4.48E+07	2565.43	2565.43	3.41
Burke et al. 2025	<i>P. obliquiloculata</i>	-	26	337	7.58E+06	1400	4799.40	3.68
Burke et al. 2025	<i>P. obliquiloculata</i>	-	26	444	2.66E+07	3700	3614.88	3.56
Burke et al. 2025	<i>P. obliquiloculata</i>	-	26	534	4.38E+07	3300	1958.75	3.29

Table S12: Source Data for Figure 8 (a, b, and c)

Source	Species	Stat. /Lab	Temp [°C]	Max Ø [µm]	Bio volume [µm ³]	Log10 (4 °C) [pmol O ₂ h ⁻¹]	Log10 (15 °C)	Log10 (24 °C)
This Study	<i>N. incompta</i>	S1	13	205	1.50E+06	2.00	2.62	3.13
This Study	<i>N. incompta</i>	S1	13	230	2.12E+06	1.89	2.52	3.03
This Study	<i>N. incompta</i>	S1	13	242	2.47E+06	2.05	2.68	3.19
This Study	<i>N. incompta</i>	S1	13	260	3.06E+06	2.10	2.73	3.24
This Study	<i>N. incompta</i>	S1	13	273	3.55E+06	1.98	2.61	3.12
This Study	<i>N. incompta</i>	S1	13	286	4.08E+06	2.07	2.69	3.20
This Study	<i>N. incompta</i>	S16	10	211	1.63E+06	1.64	2.27	2.78
This Study	<i>N. incompta</i>	S16	10	226	2.01E+06	1.73	2.36	2.87
This Study	<i>N. incompta</i>	S16	10	228	2.06E+06	1.96	2.58	3.10
This Study	<i>N. incompta</i>	S16	10	232	2.17E+06	1.64	2.26	2.77
This Study	<i>N. incompta</i>	S16	10	238	2.35E+06	1.62	2.25	2.76
This Study	<i>N. incompta</i>	S16	10	238	2.35E+06	1.90	2.52	3.03
This Study	<i>N. incompta</i>	S16	10	241	2.44E+06	1.83	2.46	2.97

Source	Species	Stat. /Lab	Temp	Max Ø	Bio volume	Log10 (4 °C)	Log10 (15 °C)	Log10 (24 °C)
			[C]	[µm]	[µm ³]		[pmol O ₂ h ⁻¹]	
This Study	<i>N. incompta</i>	S16	10	255	2.89E+06	1.97	2.60	3.11
This Study	<i>N. incompta</i>	S20	14	180	1.01E+06	1.59	2.22	2.73
This Study	<i>N. incompta</i>	S20	14	181	1.03E+06	1.61	2.23	2.74
This Study	<i>N. incompta</i>	S20	14	194	1.27E+06	1.72	2.35	2.86
This Study	<i>N. incompta</i>	S20	14	211	1.63E+06	1.70	2.32	2.83
This Study	<i>N. incompta</i>	S20	14	239	2.38E+06	1.69	2.31	2.82
This Study	<i>N. incompta</i>	S20	14	254	2.85E+06	1.84	2.47	2.98
This Study	<i>N. incompta</i>	S20	14	266	3.28E+06	1.85	2.47	2.98
This Study	<i>N. incompta</i>	S20	14	270	3.43E+06	1.79	2.41	2.93
This Study	<i>N. incompta</i>	S20	14	271	3.47E+06	1.82	2.45	2.96
This Study	<i>N. incompta</i>	S20	14	278	3.75E+06	1.81	2.43	2.94
This Study	<i>N. incompta</i>	S20	14	287	4.12E+06	1.88	2.50	3.01
This Study	<i>N. pachyderma</i>	Lab	2	179	9.96E+05	1.49	1.68	1.83
This Study	<i>N. pachyderma</i>	Lab	2	190	1.19E+06	1.39	1.58	1.73
This Study	<i>N. pachyderma</i>	Lab	2	190	1.19E+06	1.81	2.00	2.15
This Study	<i>N. pachyderma</i>	Lab	2	207	1.54E+06	1.69	1.88	2.03
This Study	<i>N. pachyderma</i>	Lab	2	260	3.06E+06	2.01	2.20	2.35
This Study	<i>N. pachyderma</i>	Lab	2	264	3.21E+06	1.88	2.06	2.22
This Study	<i>N. pachyderma</i>	Lab	2	270	3.43E+06	2.11	2.30	2.45
This Study	<i>N. pachyderma</i>	Lab	2	317	5.56E+06	2.19	2.38	2.53
This Study	<i>N. pachyderma</i>	Lab	5	126	3.46E+05	1.08	1.27	1.43
This Study	<i>N. pachyderma</i>	Lab	5	150	5.85E+05	1.52	1.70	1.86
This Study	<i>N. pachyderma</i>	Lab	5	160	7.10E+05	1.33	1.52	1.67
This Study	<i>N. pachyderma</i>	Lab	5	181	1.03E+06	1.64	1.83	1.98
This Study	<i>N. pachyderma</i>	Lab	5	190	1.19E+06	1.59	1.77	1.93
This Study	<i>N. pachyderma</i>	Lab	5	190	1.19E+06	1.69	1.87	2.03
This Study	<i>N. pachyderma</i>	Lab	5	198	1.35E+06	1.56	1.75	1.90
This Study	<i>N. pachyderma</i>	Lab	5	203	1.45E+06	1.57	1.75	1.91
This Study	<i>N. pachyderma</i>	Lab	5	205	1.50E+06	1.75	1.94	2.09
This Study	<i>N. pachyderma</i>	Lab	5	208	1.56E+06	1.75	1.94	2.09
This Study	<i>N. pachyderma</i>	Lab	5	217	1.78E+06	1.91	2.10	2.25
This Study	<i>N. pachyderma</i>	Lab	5	218	1.80E+06	1.75	1.94	2.09
This Study	<i>N. pachyderma</i>	Lab	5	223	1.93E+06	1.66	1.85	2.00
This Study	<i>N. pachyderma</i>	Lab	5	229	2.09E+06	1.94	2.13	2.28
This Study	<i>N. pachyderma</i>	Lab	5	233	2.20E+06	1.93	2.12	2.27
This Study	<i>N. pachyderma</i>	Lab	5	234	2.23E+06	1.91	2.10	2.25
This Study	<i>N. pachyderma</i>	Lab	5	247	2.62E+06	1.87	2.06	2.21
This Study	<i>N. pachyderma</i>	Lab	5	283	3.95E+06	2.18	2.37	2.52
This Study	<i>N. pachyderma</i>	Lab	5	298	4.62E+06	2.05	2.24	2.39
This Study	<i>N. pachyderma</i>	Lab	8	110	2.29E+05	1.46	1.65	1.80
This Study	<i>N. pachyderma</i>	Lab	8	117	2.76E+05	1.55	1.74	1.89
This Study	<i>N. pachyderma</i>	Lab	8	122	3.14E+05	1.45	1.64	1.79
This Study	<i>N. pachyderma</i>	Lab	8	133	4.07E+05	1.47	1.65	1.81
This Study	<i>N. pachyderma</i>	Lab	8	137	4.45E+05	1.36	1.54	1.70
This Study	<i>N. pachyderma</i>	Lab	8	138	4.55E+05	1.53	1.71	1.87
This Study	<i>N. pachyderma</i>	Lab	8	142	4.96E+05	1.74	1.92	2.08
This Study	<i>N. pachyderma</i>	Lab	8	151	5.97E+05	1.52	1.70	1.86
This Study	<i>N. pachyderma</i>	Lab	8	156	6.58E+05	1.32	1.51	1.66
This Study	<i>N. pachyderma</i>	Lab	8	160	7.10E+05	1.52	1.71	1.86
This Study	<i>N. pachyderma</i>	Lab	8	163	7.51E+05	1.65	1.84	1.99
This Study	<i>N. pachyderma</i>	Lab	8	166	7.94E+05	1.71	1.89	2.05
This Study	<i>N. pachyderma</i>	Lab	8	183	1.06E+06	1.89	2.07	2.23
This Study	<i>N. pachyderma</i>	Lab	8	190	1.19E+06	1.93	2.11	2.27
This Study	<i>N. pachyderma</i>	Lab	8	210	1.61E+06	1.80	1.98	2.14
This Study	<i>N. pachyderma</i>	Lab	13	120	2.98E+05	1.51	1.70	1.85
This Study	<i>N. pachyderma</i>	Lab	13	123	3.21E+05	1.62	1.80	1.96
This Study	<i>N. pachyderma</i>	Lab	13	155	6.45E+05	1.79	1.98	2.14
This Study	<i>N. pachyderma</i>	Lab	13	157	6.71E+05	1.70	1.89	2.04

Source	Species	Stat. /Lab	Temp	Max Ø	Bio volume	Log10 (4 °C)	Log10 (15 °C)	Log10 (24 °C)
			[°C]	[µm]	[µm ³]		[pmol O ₂ h ⁻¹]	
This Study	<i>N. pachyderma</i>	Lab	13	160	7.10E+05	1.83	2.01	2.17
This Study	<i>N. pachyderma</i>	S2	1	176	9.46E+05	1.81	2.00	2.15
This Study	<i>N. pachyderma</i>	S2	1	178	9.79E+05	1.60	1.78	1.94
This Study	<i>N. pachyderma</i>	S2	1	189	1.17E+06	1.64	1.83	1.98
This Study	<i>N. pachyderma</i>	S2	1	197	1.33E+06	1.56	1.74	1.90
This Study	<i>N. pachyderma</i>	S2	1	199	1.37E+06	1.64	1.82	1.98
This Study	<i>N. pachyderma</i>	S2	1	204	1.48E+06	1.85	2.04	2.19
This Study	<i>N. pachyderma</i>	S2	1	211	1.63E+06	1.88	2.07	2.22
This Study	<i>N. pachyderma</i>	S2	1	214	1.70E+06	1.69	1.87	2.03
This Study	<i>N. pachyderma</i>	S2	1	217	1.78E+06	1.83	2.01	2.17
This Study	<i>N. pachyderma</i>	S8.1	3.5	151	5.97E+05	1.45	1.64	1.79
This Study	<i>N. pachyderma</i>	S8.1	3.5	175	9.30E+05	1.64	1.83	1.98
This Study	<i>N. pachyderma</i>	S8.1	3.5	197	1.33E+06	1.88	2.07	2.22
This Study	<i>N. pachyderma</i>	S8.1	3.5	211	1.63E+06	1.78	1.97	2.12
This Study	<i>N. pachyderma</i>	S8.1	3.5	216	1.75E+06	1.92	2.11	2.27
This Study	<i>N. pachyderma</i>	S8.1	3.5	219	1.83E+06	1.81	2.00	2.15
This Study	<i>N. pachyderma</i>	S10	0.5	262	3.13E+06	1.37	1.56	1.71
This Study	<i>N. pachyderma</i>	S10	0.5	270	3.43E+06	1.46	1.64	1.80
This Study	<i>N. pachyderma</i>	S10	0.5	303	4.85E+06	1.32	1.50	1.66
This Study	<i>N. pachyderma</i>	S10	0.5	305	4.95E+06	1.42	1.61	1.76
This Study	<i>N. pachyderma</i>	S11	2.5	250	2.72E+06	1.52	1.71	1.86
This Study	<i>N. pachyderma</i>	S11	2.5	294	4.43E+06	1.89	2.08	2.23
This Study	<i>N. pachyderma</i>	S12	10	210	1.61E+06	1.65	1.84	1.99
This Study	<i>N. pachyderma</i>	S12	10	222	1.90E+06	1.49	1.67	1.83
This Study	<i>N. pachyderma</i>	S12	10	234	2.23E+06	1.74	1.92	2.08
This Study	<i>N. pachyderma</i>	S12	10	244	2.53E+06	1.57	1.75	1.91
This Study	<i>N. pachyderma</i>	S12	10	248	2.66E+06	1.49	1.67	1.83
This Study	<i>N. pachyderma</i>	S12	10	279	3.79E+06	1.55	1.74	1.89
This Study	<i>N. pachyderma</i>	S12	10	282	3.91E+06	1.70	1.89	2.04
This Study	<i>N. pachyderma</i>	S12	10	308	5.10E+06	1.65	1.83	1.99
This Study	<i>N. pachyderma</i>	S16	10	185	1.10E+06	1.35	1.54	1.69
This Study	<i>N. pachyderma</i>	S16	10	187	1.14E+06	1.74	1.93	2.08
This Study	<i>N. pachyderma</i>	S17	6	149	5.73E+05	1.54	1.73	1.88
This Study	<i>N. pachyderma</i>	S17	6	164	7.65E+05	1.50	1.69	1.84
This Study	<i>N. pachyderma</i>	S17	6	179	9.96E+05	1.51	1.70	1.85
This Study	<i>N. pachyderma</i>	S17	6	179	9.96E+05	1.93	2.12	2.27
This Study	<i>N. pachyderma</i>	S17	6	187	1.14E+06	1.55	1.74	1.89
This Study	<i>N. pachyderma</i>	S17	6	199	1.37E+06	1.43	1.61	1.77
This Study	<i>N. pachyderma</i>	S17	6	199	1.37E+06	1.96	2.15	2.30
This Study	<i>N. pachyderma</i>	S17	6	200	1.39E+06	1.63	1.82	1.97
This Study	<i>N. pachyderma</i>	S17	6	206	1.52E+06	1.71	1.89	2.05
This Study	<i>N. pachyderma</i>	S17	6	206	1.52E+06	1.83	2.02	2.17
This Study	<i>N. pachyderma</i>	S17	6	207	1.54E+06	1.62	1.81	1.96
This Study	<i>N. pachyderma</i>	S17	6	225	1.98E+06	1.97	2.16	2.31
This Study	<i>N. pachyderma</i>	S17	6	238	2.35E+06	2.01	2.19	2.35
This Study	<i>N. pachyderma</i>	S17	6	243	2.50E+06	1.91	2.09	2.25
This Study	<i>N. pachyderma</i>	S17	6	251	2.75E+06	1.66	1.85	2.00
This Study	<i>N. pachyderma</i>	S17	6	266	3.28E+06	1.95	2.14	2.30
This Study	<i>N. pachyderma</i>	S17	6	269	3.39E+06	2.02	2.21	2.36
This Study	<i>N. pachyderma</i>	S18	7.5	154	6.33E+05	1.51	1.69	1.85
This Study	<i>N. pachyderma</i>	S18	7.5	178	9.79E+05	1.63	1.81	1.97
This Study	<i>N. pachyderma</i>	S18	7.5	199	1.37E+06	1.75	1.94	2.09
This Study	<i>N. pachyderma</i>	S18	7.5	217	1.78E+06	1.80	1.99	2.14
This Study	<i>N. pachyderma</i>	S18	7.5	228	2.06E+06	1.67	1.86	2.01
This Study	<i>N. pachyderma</i>	S19	6	248	2.66E+06	1.75	1.94	2.09
This Study	<i>N. pachyderma</i>	S19	6	224	1.96E+06	1.81	2.00	2.15
This Study	<i>N. pachyderma</i>	S19	6	160	7.10E+05	1.82	2.00	2.16
This Study	<i>N. pachyderma</i>	S19	6	205	1.50E+06	1.68	1.87	2.02

Source	Species	Stat. /Lab	Temp	Max Ø	Bio volume	Log10 (4 °C)	Log10 (15 °C)	Log10 (24 °C)
			[°C]	[µm]	[µm ³]		[pmol O ₂ h ⁻¹]	
This Study	<i>N. pachyderma</i>	S19	6	299	4.66E+06	1.82	2.01	2.16
This Study	<i>N. pachyderma</i>	S19	6	307	5.05E+06	2.02	2.20	2.36
This Study	<i>N. pachyderma</i>	S19	6	200	1.39E+06	1.69	1.88	2.03
This Study	<i>N. pachyderma</i>	S19	6	221	1.88E+06	1.90	2.09	2.24
This Study	<i>N. pachyderma</i>	S19	6	243	2.50E+06	1.83	2.02	2.17
This Study	<i>N. pachyderma</i>	S19	6	186	1.12E+06	1.52	1.70	1.86
This Study	<i>T. quinqueloba</i>	Lab	2	162	7.37E+05	1.06	1.77	2.36
This Study	<i>T. quinqueloba</i>	Lab	2	194	1.27E+06	1.23	1.94	2.52
This Study	<i>T. quinqueloba</i>	Lab	2	216	1.75E+06	1.52	2.23	2.81
This Study	<i>T. quinqueloba</i>	Lab	2	255	2.89E+06	1.26	1.97	2.56
This Study	<i>T. quinqueloba</i>	Lab	5	140	4.75E+05	1.34	2.05	2.63
This Study	<i>T. quinqueloba</i>	Lab	5	178	9.79E+05	1.14	1.85	2.44
This Study	<i>T. quinqueloba</i>	Lab	5	178	9.79E+05	1.19	1.90	2.48
This Study	<i>T. quinqueloba</i>	Lab	5	189	1.17E+06	1.09	1.80	2.38
This Study	<i>T. quinqueloba</i>	Lab	5	195	1.29E+06	1.71	2.42	3.00
This Study	<i>T. quinqueloba</i>	Lab	5	208	1.56E+06	1.46	2.17	2.75
This Study	<i>T. quinqueloba</i>	Lab	5	214	1.70E+06	1.42	2.13	2.71
This Study	<i>T. quinqueloba</i>	Lab	5	228	2.06E+06	1.46	2.17	2.75
This Study	<i>T. quinqueloba</i>	Lab	5	230	2.12E+06	1.58	2.29	2.87
This Study	<i>T. quinqueloba</i>	Lab	5	232	2.17E+06	1.45	2.16	2.75
This Study	<i>T. quinqueloba</i>	Lab	8	161	7.24E+05	1.31	2.02	2.60
This Study	<i>T. quinqueloba</i>	Lab	8	199	1.37E+06	1.40	2.11	2.70
This Study	<i>T. quinqueloba</i>	Lab	8	205	1.50E+06	1.37	2.09	2.67
This Study	<i>T. quinqueloba</i>	Lab	8	209	1.59E+06	1.28	1.99	2.57
This Study	<i>T. quinqueloba</i>	Lab	13	154	6.33E+05	1.32	2.03	2.61
This Study	<i>T. quinqueloba</i>	Lab	13	182	1.05E+06	1.14	1.85	2.43
This Study	<i>T. quinqueloba</i>	Lab	13	197	1.33E+06	1.53	2.24	2.82
This Study	<i>T. quinqueloba</i>	Lab	13	210	1.61E+06	1.29	2.00	2.58
This Study	<i>T. quinqueloba</i>	Lab	13	219	1.83E+06	1.20	1.91	2.50
Rink et al. 1998	<i>O. universa</i>	-	21	297	1.53E+07	2.38	2.93	3.39
Rink et al. 1998	<i>O. universa</i>	-	21.5	473	4.48E+07	2.35	2.91	3.36
Rink et al. 1998	<i>O. universa</i>	-	22	463	4.25E+07	2.77	3.32	3.77
Rink et al. 1998	<i>O. universa</i>	-	23	554	6.60E+07	2.82	3.37	3.82
Rink et al. 1998	<i>O. universa</i>	-	23.5	554	6.60E+07	2.73	3.29	3.74
Lombard et al. 2009	<i>O. universa</i>	-	15.3	521	7.40E+07	1.98	2.53	2.98
Lombard et al. 2009	<i>O. universa</i>	-	19.9	521	7.40E+07	1.98	2.53	2.98
Lombard et al. 2009	<i>O. universa</i>	-	24.3	521	7.40E+07	2.01	2.57	3.02
Lombard et al. 2009	<i>O. universa</i>	-	29.3	521	7.40E+07	2.01	2.56	3.01
Burke et al. 2025	<i>O. universa</i>	-	21	670	9.30E+07	2.89	3.45	3.90
Burke et al. 2025	<i>G. ruber</i>	-	21	338	5.40E+06	2.45	3.00	3.45
Burke et al. 2025	<i>G. ruber</i>	-	21	361	9.65E+06	1.98	2.53	2.98
Burke et al. 2025	<i>G. ruber</i>	-	21	384	1.55E+07	2.45	3.00	3.45
Burke et al. 2025	<i>G. ruber</i>	-	21	526	3.66E+07	1.95	2.50	2.95
Burke et al. 2025	<i>G. ruber</i>	-	24	230	2.30E+06	2.03	2.58	3.04
Burke et al. 2025	<i>G. ruber</i>	-	24	277	4.60E+06	1.50	2.06	2.51
Lombard et al. 2009	<i>G. ruber</i>	-	17.3	189	6.13E+06	1.51	2.06	2.51
Lombard et al. 2009	<i>G. ruber</i>	-	19.4	249	1.06E+07	1.51	2.06	2.51
Lombard et al. 2009	<i>G. ruber</i>	-	21.6	189	6.13E+06	1.39	1.95	2.40
Lombard et al. 2009	<i>G. ruber</i>	-	24.1	189	6.13E+06	1.62	2.18	2.63
Lombard et al. 2009	<i>G. ruber</i>	-	24.1	241	9.88E+06	1.51	2.06	2.51
Lombard et al. 2009	<i>G. ruber</i>	-	24.2	249	1.06E+07	1.66	2.21	2.66
Lombard et al. 2009	<i>G. ruber</i>	-	29.5	249	1.06E+07	1.54	2.10	2.55
Lombard et al. 2009	<i>G. ruber</i>	-	29.6	241	9.88E+06	1.51	2.06	2.51
Lombard et al. 2009	<i>G. siphonifera</i>	-	18.7	347	2.17E+07	2.09	2.64	3.09
Lombard et al. 2009	<i>G. siphonifera</i>	-	24.3	347	2.17E+07	1.89	2.45	2.90
Lombard et al. 2009	<i>G. siphonifera</i>	-	27.8	347	2.17E+07	1.93	2.48	2.94
Burke et al. 2025	<i>G. menardii</i>	-	26	432	7.60E+06	1.94	2.49	2.94
Burke et al. 2025	<i>G. menardii</i>	-	26	478	8.43E+06	2.07	2.62	3.08

Source	Species	Stat. /Lab	Temp	Max Ø	Bio volume	Log10 (4 °C)	Log10 (15 °C)	Log10 (24 °C)
			[°C]	[µm]	[µm ³]	[pmol O ₂ h ⁻¹]		
Burke et al. 2025	<i>G. menardii</i>	-	26	490	5.47E+06	2.46	3.02	3.47
Burke et al. 2025	<i>G. menardii</i>	-	26	556	1.05E+07	2.17	2.73	3.18
Burke et al. 2025	<i>G. menardii</i>	-	26	572	1.23E+07	2.24	2.79	3.24
Burke et al. 2025	<i>G. menardii</i>	-	26	637	1.69E+07	2.10	2.65	3.10
Burke et al. 2025	<i>G. menardii</i>	-	26	755	2.19E+07	1.80	2.35	2.80
Burke et al. 2025	<i>H. pelagica</i>	-	21	629	4.48E+07	2.56	3.11	3.56
Burke et al. 2025	<i>P. obliquiloculata</i>	-	26	337	7.58E+06	2.04	2.59	3.05
Burke et al. 2025	<i>P. obliquiloculata</i>	-	26	444	2.66E+07	2.46	3.02	3.47
Burke et al. 2025	<i>P. obliquiloculata</i>	-	26	534	4.38E+07	2.41	2.97	3.42