

Location	Meso/micro/ Zooplankton	Experiment	H2O2											O2 sat / μM	Calculated k / min-1	Linear R2
	multi unit number		(Low or High))	Temperature / k	Salinity	pH free	Oxygen / μM	DFe / nM	TdFe / nM	Fe(II) / nM	/ nM	k / min- 1	Δk			
Laboratory c	n/a	n/a	Laboratory cc	294	33.2	8.10	225	1.0	ND	37.0	BD	0.120	-0.076	225	0.197	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	BD	0.092	-0.134	220	0.226	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	15.39	0.105	-0.121	220	0.226	0.98
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	19.24	0.156	-0.070	220	0.226	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	23.09	0.192	-0.034	220	0.226	0.98
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	30.78	0.187	-0.039	220	0.226	0.98
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	BD	0.196	-0.030	220	0.226	0.96
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	BD	0.183	-0.043	220	0.226	0.96
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	BD	0.326	0.100	220	0.226	0.62
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	BD	0.153	-0.073	220	0.226	0.96
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	220	1.0	ND	7.6	BD	0.085	-0.142	220	0.226	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	220	1.0	ND	7.6	15.36	0.075	-0.151	220	0.226	0.93
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	220	1.0	ND	7.6	15.36	0.040	-0.186	220	0.226	0.24
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	222	1.0	ND	7.6	BD	0.087	-0.117	222	0.205	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	222	1.0	ND	7.6	15.36	0.143	-0.062	222	0.205	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	222	1.0	ND	7.6	19.2	0.164	-0.041	222	0.205	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	222	1.0	ND	7.6	23.04	0.169	-0.036	222	0.205	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.2	8.10	222	1.0	ND	7.6	30.72	0.192	-0.013	222	0.205	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	222	1.0	ND	3.8	BD	0.092	-0.112	222	0.204	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	222	1.0	ND	3.8	15.42	0.080	-0.124	222	0.204	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	222	1.0	ND	3.8	19.28	0.138	-0.066	222	0.204	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	222	1.0	ND	3.8	23.13	0.156	-0.048	222	0.204	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	222	1.0	ND	3.8	30.84	0.169	-0.035	222	0.204	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	220	1.0	ND	1.9	BD	0.071	-0.151	220	0.222	0.94
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	220	1.0	ND	1.9	15.45	0.144	-0.079	220	0.222	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	220	1.0	ND	1.9	19.32	0.198	-0.025	220	0.222	0.99
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	220	1.0	ND	1.9	23.18	0.275	0.052	220	0.222	0.98
Laboratory c	n/a	n/a	Laboratory cc	295	34.4	8.10	220	1.0	ND	1.9	30.9	0.183	-0.039	220	0.222	0.98
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	BD	0.089	-0.133	220	0.223	1.00
Laboratory c	n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	15.39	0.304	0.081	220	0.223	0.98

Laboratory c n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	19.24	0.323	0.100	220	0.223	0.99
Laboratory c n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	23.09	0.206	-0.017	220	0.223	0.98
Laboratory c n/a	n/a	Laboratory cc	295	34.3	8.10	220	1.0	ND	5.7	30.78	0.218	-0.005	220	0.223	0.99
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	316	1.0	ND	3.8	BD	0.050	0.032	316	0.018	0.87
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	316	1.0	ND	3.8	15.42	0.042	0.024	316	0.018	0.97
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	316	1.0	ND	3.8	19.28	0.064	0.046	316	0.018	0.97
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	316	1.0	ND	3.8	23.13	0.043	0.025	316	0.018	0.93
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	316	1.0	ND	3.8	30.84	0.054	0.036	316	0.018	0.97
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	316	1.0	ND	1.9	BD	0.017	-0.001	316	0.018	0.73
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	317	1.0	ND	1.9	15.45	0.074	0.057	317	0.017	0.86
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	317	1.0	ND	1.9	19.32	0.014	-0.004	317	0.017	0.56
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	317	1.0	ND	1.9	23.18	0.016	-0.002	317	0.017	0.48
Laboratory c n/a	n/a	Laboratory cc	278	34.4	8.10	317	1.0	ND	1.9	30.9	0.014	-0.003	317	0.017	0.16
Laboratory c n/a	n/a	Laboratory cc	281	34.2	8.10	292	1.0	ND	7.6	BD	0.009	-0.018	292	0.028	0.91
Laboratory c n/a	n/a	Laboratory cc	294	34.2	8.10	223	1.0	ND	9.5	BD	0.134	-0.060	223	0.194	0.99
Laboratory c n/a	n/a	Laboratory cc	294	33.8	8.10	224	1.0	ND	18.9	BD	0.162	-0.033	224	0.195	0.92
Patagonia	1 L	MicroPat	289	28.4	8.32	384	5.0	6.9	0.5	10.0	0.003	-0.438	254	0.441	0.81
Patagonia	4 H	MicroPat	289	28.5	8.29	449	5.6	7.2	1.3	12.7	0.000	-0.401	256	0.401	0.03
Patagonia	6 H	MicroPat	290	28.0	8.20	375	6.4	6.1	1.2	15.5	0.000	-0.288	250	0.288	0.01
Patagonia	3 L	MicroPat	288	28.4	8.24	425	5.8	4.6	1.6	15.0	0.009	-0.246	261	0.254	0.94
Patagonia	2 H	MicroPat	288	28.3	8.26	388	3.3	11.7	0.5	14.8	0.010	-0.248	262	0.258	0.59
Patagonia	8 H	MicroPat	290	27.8	8.09	385	3.3	4.1	1.3	18.9	0.002	-0.178	250	0.180	0.36
Patagonia	5 L	MicroPat	289	27.8	8.16	370	5.6	6.9	1.1	10.2	0.001	-0.184	257	0.186	0.34
Patagonia	7 L	MicroPat	289	27.7	8.12	394	4.1	5.0	0.5	10.4	0.004	-0.170	255	0.174	0.42
Patagonia	10 H	MicroPat	291	27.6	7.90	343	3.6	3.7	1.9	21.6	0.000	-0.082	246	0.082	0.01
Patagonia	9 L	MicroPat	291	27.8	7.89	335	ND	7.4	1.6	10.3	0.001	-0.077	245	0.078	0.17
Patagonia	4 H	MesoPat	287	27.5	7.97	344	6.2	40.0	5.7	50.7	0.005	-0.052	266	0.057	0.49
Patagonia	1 L	MesoPat	287	28.0	8.00	352	3.7	46.2	2.5	7.6	0.006	-0.055	268	0.061	0.02
Patagonia	2 H	MesoPat	286	22.7	7.91	369	8.6	72.8	3.8	16.6	0.009	-0.035	280	0.044	0.70
Patagonia	3 L	MesoPat	287	23.1	7.90	361	7.9	21.6	16.0	70.8	0.012	-0.036	274	0.047	0.87
Patagonia	7 L	MesoPat	286	27.9	7.77	347	5.2	20.8	3.8	9.0	0.003	-0.019	270	0.023	0.19
Patagonia	5 L	MesoPat	286	28.0	7.79	351	4.5	24.3	3.5	7.8	0.005	-0.021	269	0.025	0.39
Patagonia	1 L	MesoPat	286	28.0	7.82	371	4.2	52.8	3.3	9.0	0.007	-0.023	269	0.029	0.32

Patagonia	1 L	MesoPat	285	28.0	7.78	359	4.5	21.3	2.4	9.9	0.004	-0.017	275	0.021	0.45
Patagonia	7 L	MesoPat	287	27.7	7.77	340	3.9	27.8	4.8	23.9	0.006	-0.018	268	0.024	0.75
Patagonia	2 H	MesoPat	285	28.0	7.60	350	33.9	60.9	6.1	79.3	0.006	-0.005	277	0.010	0.28
Patagonia	1 L	MesoPat	286	28.0	8.02	367	2.7	58.6	0.5	ND	0.024	-0.039	271	0.063	0.34
Patagonia	1 L	MesoPat	285	28.0	7.63	348	7.9	27.4	11.2	79.3	0.007	-0.005	277	0.011	0.73
Patagonia	4 H	MesoPat	285	27.6	7.88	352	6.3	40.8	3.9	7.6	0.014	-0.016	276	0.029	0.56
Patagonia	8 H	MesoPat	284	28.0	7.71	374	3.6	ND	0.3	19.6	0.013	-0.001	283	0.014	0.55
Patagonia	1 L	MesoPat	284	28.0	8.11	382	2.9	26.7	0.5	6.3	0.035	-0.034	283	0.069	0.66
Patagonia	1 L	MesoPat	285	28.0	7.68	353	ND	30.4	1.9	35.5	0.018	0.005	279	0.013	0.96
Patagonia	7 L	MesoPat	285	27.7	7.76	363	6.5	14.1	0.9	29.0	0.023	0.005	281	0.017	0.89
Patagonia	2 H	MesoPat	285	28.0	7.70	318	12.2	66.4	2.6	54.8	0.022	0.010	279	0.012	0.90
Patagonia	4 H	MesoPat	286	27.5	7.90	354	5.2	73.7	0.9	10.5	0.032	-0.006	272	0.037	0.94
Patagonia	4 H	MesoPat	285	27.5	7.92	364	4.9	35.3	0.9	38.8	0.050	0.018	281	0.032	0.92
Svalbard	11 H	MesoArc	281	33.8	8.18	382	4.2	81.5	1.8	2.4	0.003	-0.049	293	0.052	0.43
Svalbard	9 H	MesoArc	278	33.8	8.28	388	5.6	58.9	0.5	2.8	0.002	-0.047	319	0.049	0.10
Svalbard	11 H	MesoArc	280	33.8	8.19	381	7.9	84.9	2.0	1.9	0.001	-0.046	301	0.047	0.01
Svalbard	5 H	MesoArc	278	33.8	8.25	394	7.6	39.4	1.5	46.7	0.002	-0.042	319	0.044	0.18
Svalbard	7 H	MesoArc	278	33.8	8.28	397	6.2	44.4	3.2	49.4	0.002	-0.049	319	0.051	0.28
Svalbard	7 H	MesoArc	278	33.8	8.27	398	5.0	37.7	1.7	17.4	0.001	-0.047	319	0.048	0.07
Svalbard	5 L	MesoArc	278	33.8	8.23	388	5.9	32.8	1.3	25.7	0.000	-0.038	319	0.039	0.03
Svalbard	9 L	MesoArc	278	33.8	8.24	385	5.8	33.9	0.6	2.8	0.000	-0.041	319	0.041	0.01
Svalbard	5 H	MesoArc	278	33.8	8.24	390	6.5	32.2	2.2	28.0	0.001	-0.041	319	0.042	0.13
Svalbard	7 L	MesoArc	278	33.8	8.26	399	11.0	40.4	2.7	22.7	0.002	-0.044	319	0.046	0.48
Svalbard	11 L	MesoArc	281	33.8	8.05	377	6.2	99.5	1.8	1.4	0.000	-0.029	293	0.029	0.16
Svalbard	9 H	MesoArc	278	33.8	8.22	386	4.6	39.8	2.3	15.2	0.001	-0.035	321	0.036	0.13
Svalbard	5 H	MesoArc	277	33.8	8.25	390	5.1	40.3	2.0	35.0	0.001	-0.036	326	0.037	0.13
Svalbard	9 H	MesoArc	278	33.8	8.18	387	4.5	63.0	0.8	4.5	0.000	-0.031	319	0.031	0.01
Svalbard	5 L	MesoArc	278	33.8	8.25	389	8.7	31.3	2.0	28.0	0.002	-0.040	319	0.042	0.18
Svalbard	5 L	MesoArc	277	33.8	8.23	391	6.9	35.1	2.0	25.7	0.000	-0.033	326	0.034	0.02
Svalbard	7 L	MesoArc	278	33.8	8.24	395	4.9	46.2	3.3	57.5	0.002	-0.037	324	0.038	0.35
Svalbard	11 L	MesoArc	279	33.8	8.12	380	5.6	39.3	1.6	1.0	0.001	-0.026	310	0.027	0.12
Svalbard	9 L	MesoArc	278	33.8	8.16	387	5.0	29.5	1.3	9.3	0.005	-0.021	321	0.026	0.69
Svalbard	9 L	MesoArc	278	33.8	8.17	388	6.2	48.8	1.2	4.8	0.012	-0.016	319	0.029	0.77

Patagonia	2 H	MultiPat	290	30.9	8.01	352	8.9	32.3	2.1	9.0	0.001	-0.109	245	0.110	0.09
Patagonia	1 L	MultiPat	290	30.9	7.92	338	5.2	19.9	1.8	9.5	0.001	-0.074	245	0.074	0.28
Patagonia	5 L	MultiPat	288	30.9	8.00	354	8.7	22.3	1.3	7.2	0.001	-0.077	254	0.078	0.28
Patagonia	6 H	MultiPat	288	30.9	7.94	345	4.3	17.1	1.3	5.5	0.001	-0.058	254	0.059	0.46
Patagonia	8 H	MultiPat	287	30.9	7.98	352	3.7	19.1	1.3	8.0	0.001	-0.058	260	0.059	0.45
Patagonia	7 L	MultiPat	287	30.9	7.95	349	2.7	16.6	1.4	6.7	0.000	-0.052	260	0.053	0.13
Patagonia	3 L	MultiPat	287	30.9	7.84	336	4.5	11.8	1.4	10.5	0.000	-0.033	260	0.033	0.06
Patagonia	10 H	MultiPat	288	30.9	7.80	373	11.4	11.1	1.9	19.0	0.002	-0.035	254	0.036	0.72
Patagonia	4 H	MultiPat	287	30.9	7.81	321	3.4	23.9	1.3	6.7	0.000	-0.028	260	0.028	0.01
Patagonia	14 H	MultiPat	288	30.9	7.68	359	4.7	205.7	1.0	7.8	0.000	-0.022	254	0.023	0.35
Patagonia	13 L	MultiPat	288	30.9	7.63	345	4.2	18.9	1.1	6.7	0.000	-0.018	254	0.018	0.25
Patagonia	9 L	MultiPat	288	30.9	7.78	352	20.4	19.3	1.4	8.0	0.004	-0.027	254	0.032	0.15
Patagonia	15 L	MultiPat	289	30.9	7.46	349	ND	13.3	1.2	11.2	0.001	-0.011	252	0.012	0.46
Patagonia	12 H	MultiPat	288	30.9	7.53	322	3.2	10.9	1.2	8.5	0.000	-0.012	254	0.013	0.07
Patagonia	16 H	MultiPat	289	30.9	7.58	315	4.5	12.2	1.8	9.9	0.003	-0.013	252	0.016	0.34
Patagonia	11 L	MultiPat	288	30.9	7.52	319	3.8	24.2	2.8	46.0	0.002	-0.010	254	0.012	0.58
Svalbard	5 H	MultiArc	278	33.8	8.43	412	5.8	117.6	2.0	4.9	0.001	-0.113	319	0.114	0.01
Svalbard	5 L	MultiArc	278	33.8	8.43	419	6.6	94.9	2.8	4.2	0.001	-0.116	319	0.116	0.01
Svalbard	1 L	MultiArc	277	33.8	8.34	409	11.8	170.4	1.5	1.9	0.008	-0.050	329	0.058	0.01
Svalbard	1 H	MultiArc	279	33.8	8.35	412	11.8	170.4	1.4	2.1	0.000	-0.091	310	0.091	0.01
Svalbard	1 H	MultiArc	280	33.8	7.76	408	11.8	170.4	2.2	5.6	0.005	-0.004	301	0.008	0.17
Svalbard	5 H	MultiArc	278	33.8	7.87	408	9.0	112.4	5.0	7.8	0.001	-0.007	319	0.009	0.14
Svalbard	5 L	MultiArc	278	33.8	7.87	407	5.4	84.7	2.4	4.9	0.001	-0.007	319	0.009	0.14
Svalbard	1 L	MultiArc	280	33.8	7.74	410	11.8	170.4	2.5	5.6	0.001	-0.005	306	0.007	0.44