

Figure S1

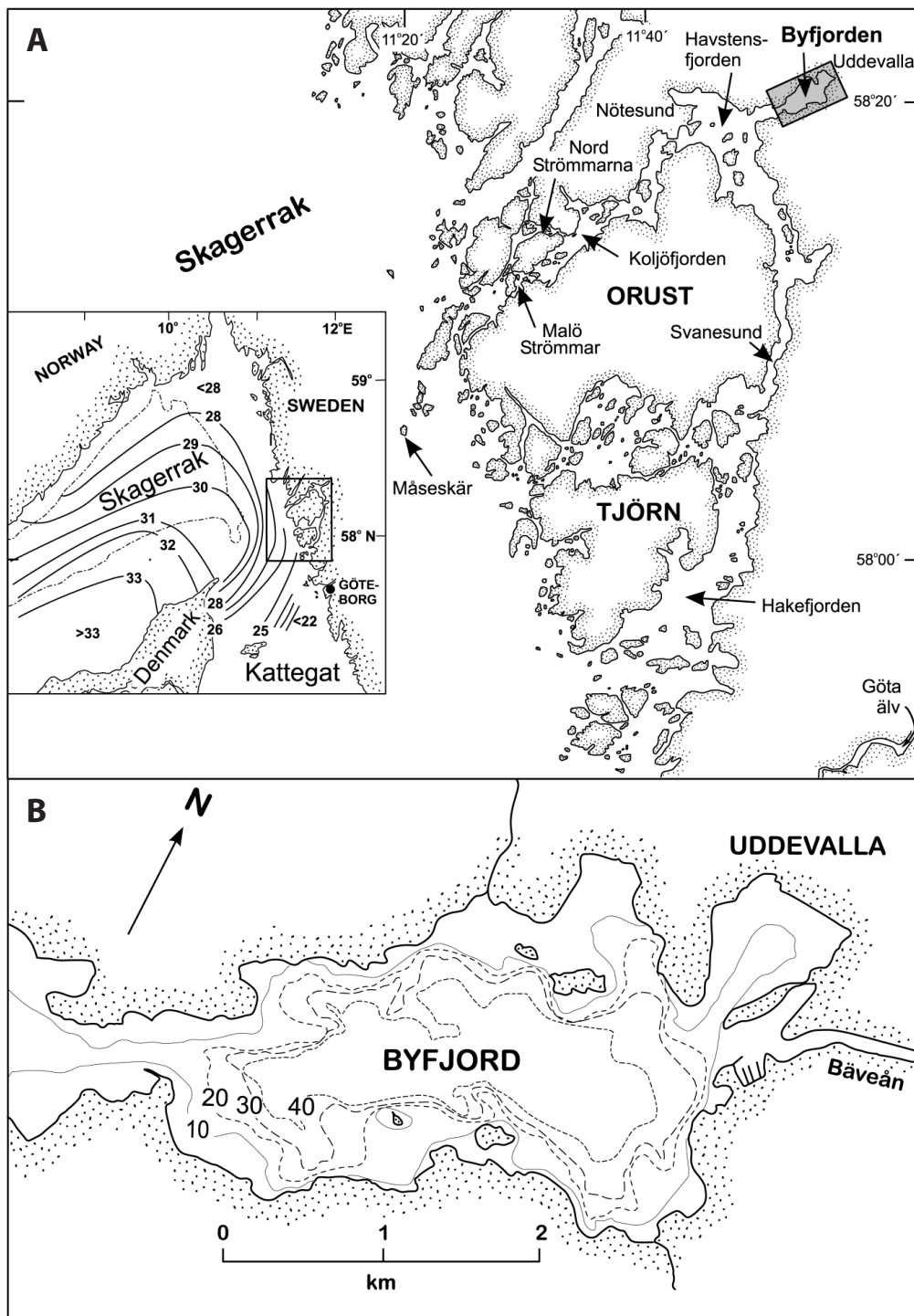


Figure S2

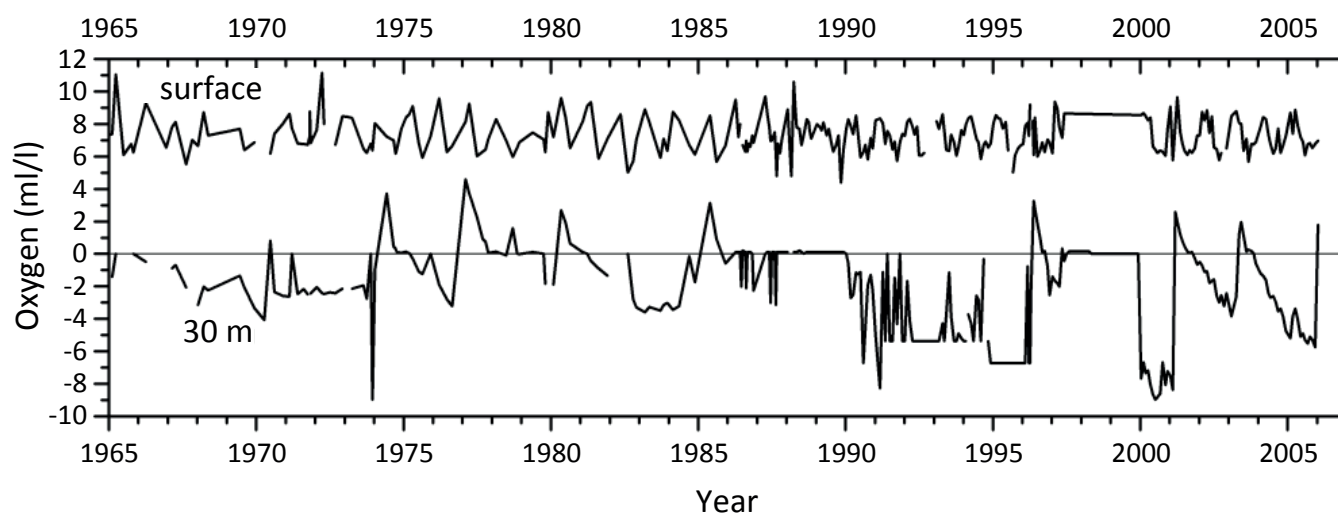


Figure S3

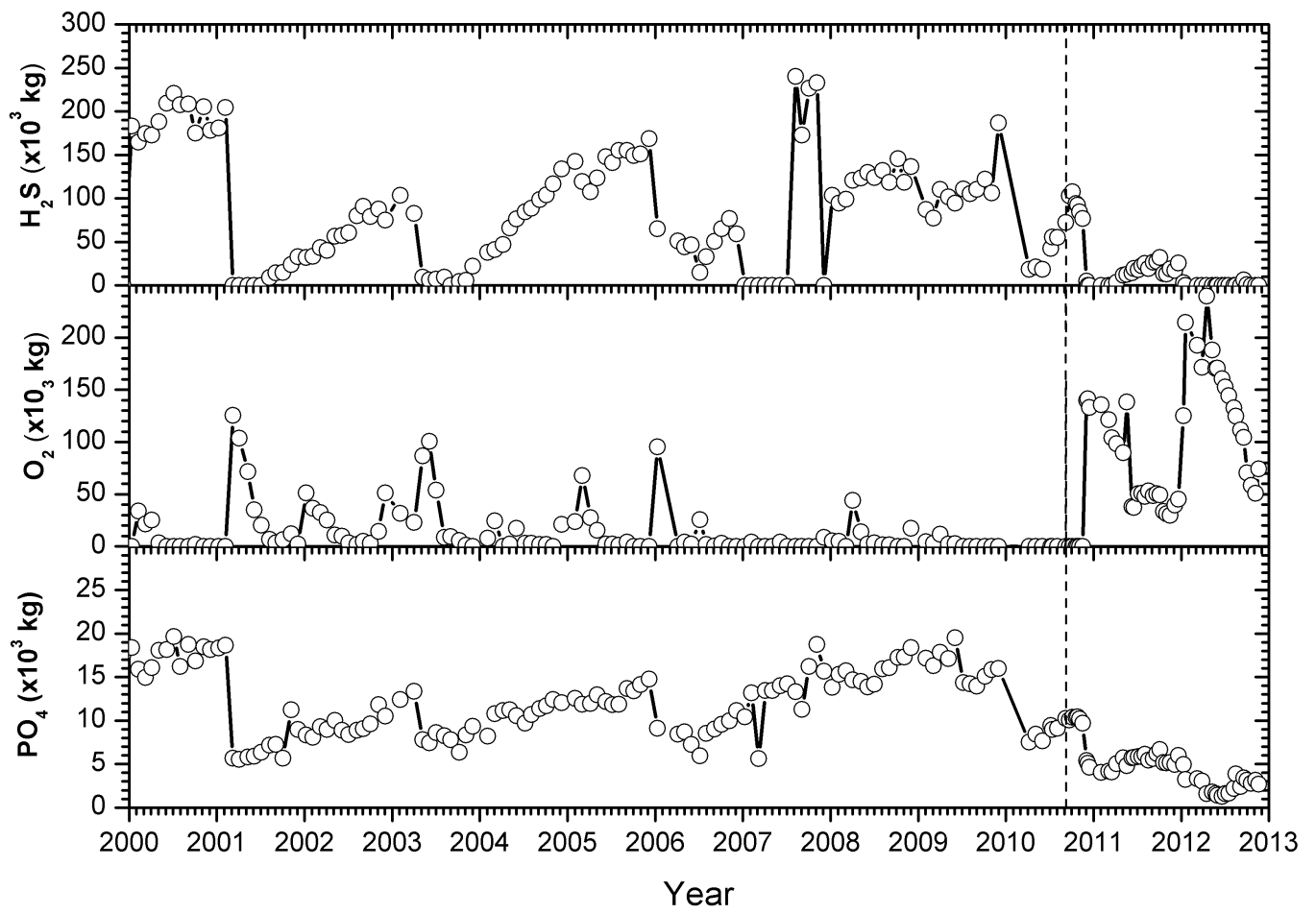


Figure S4

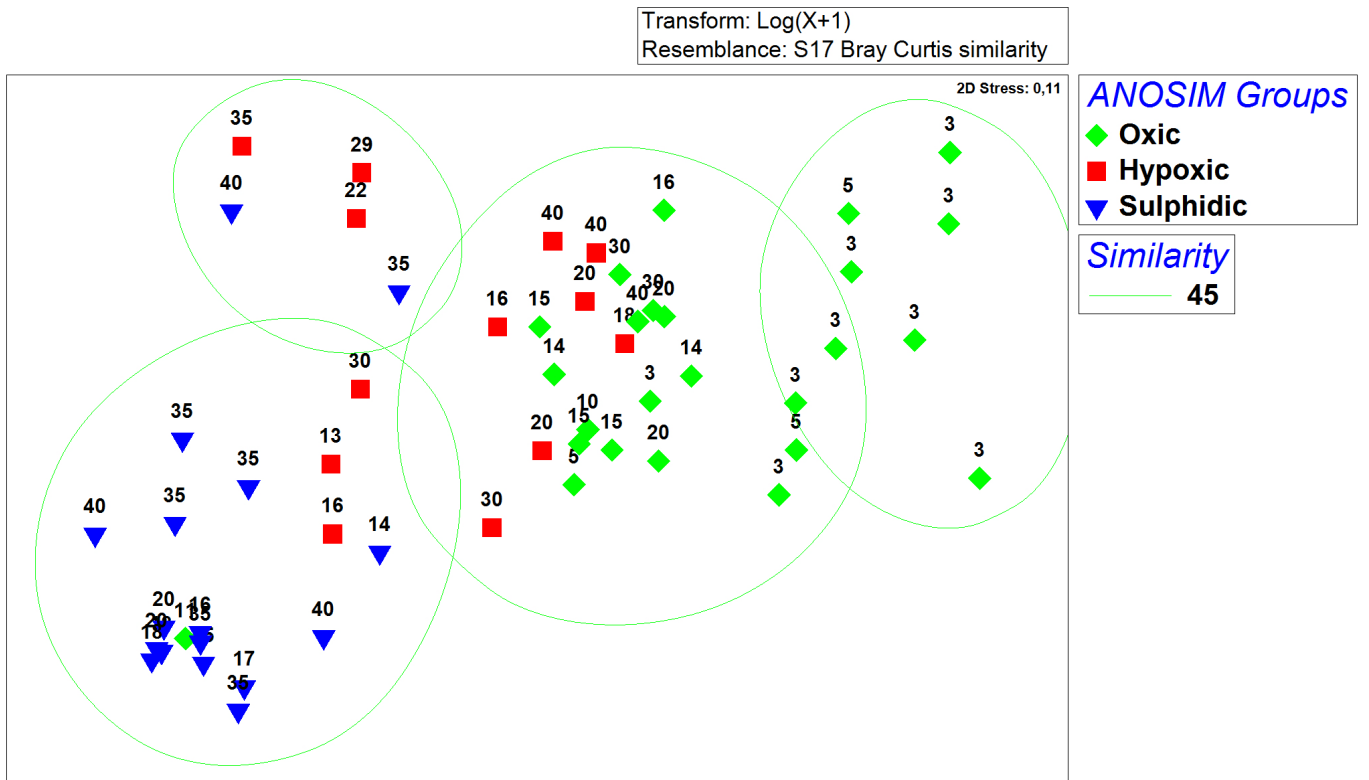


Figure S5

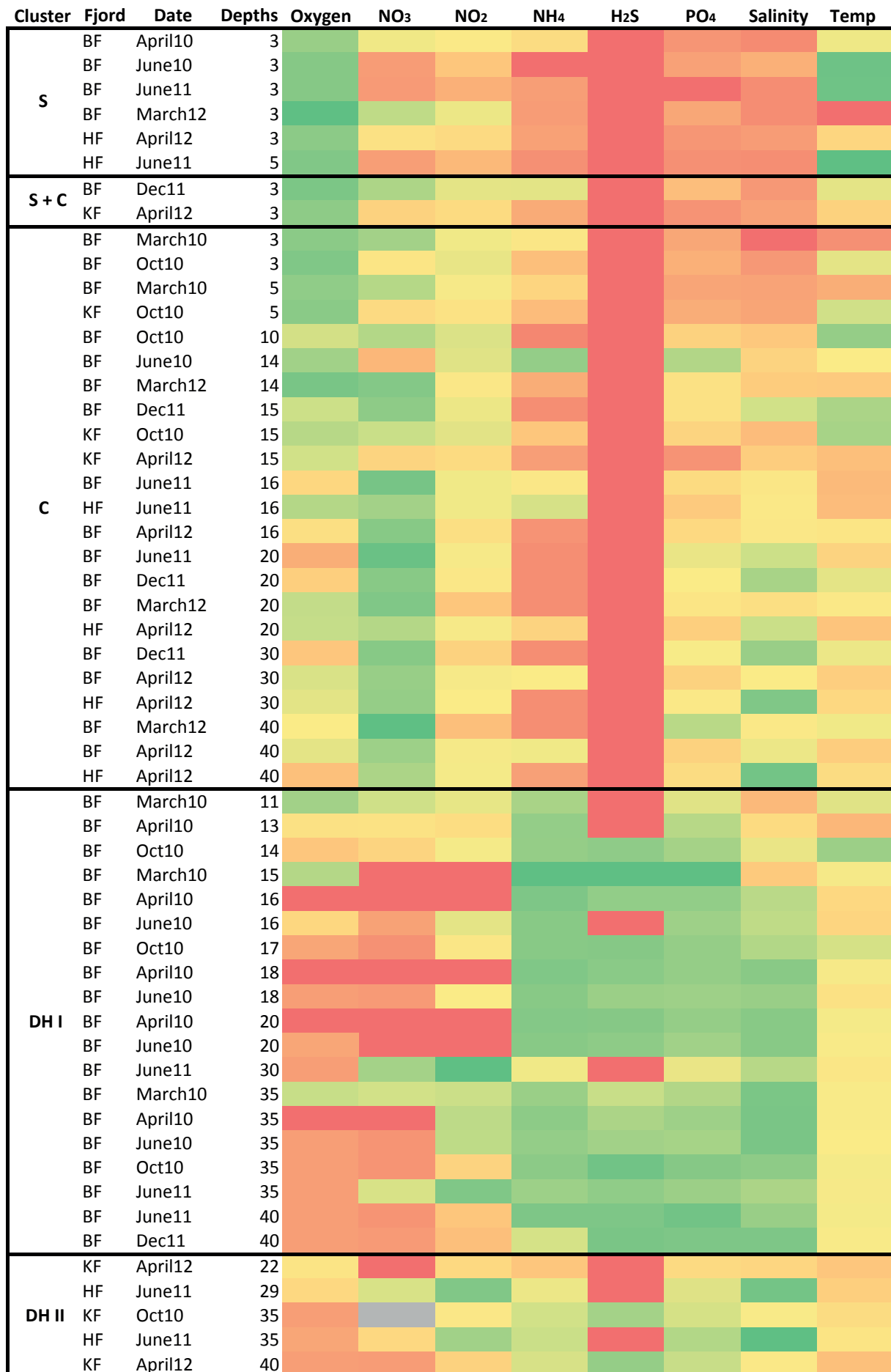


Figure S6

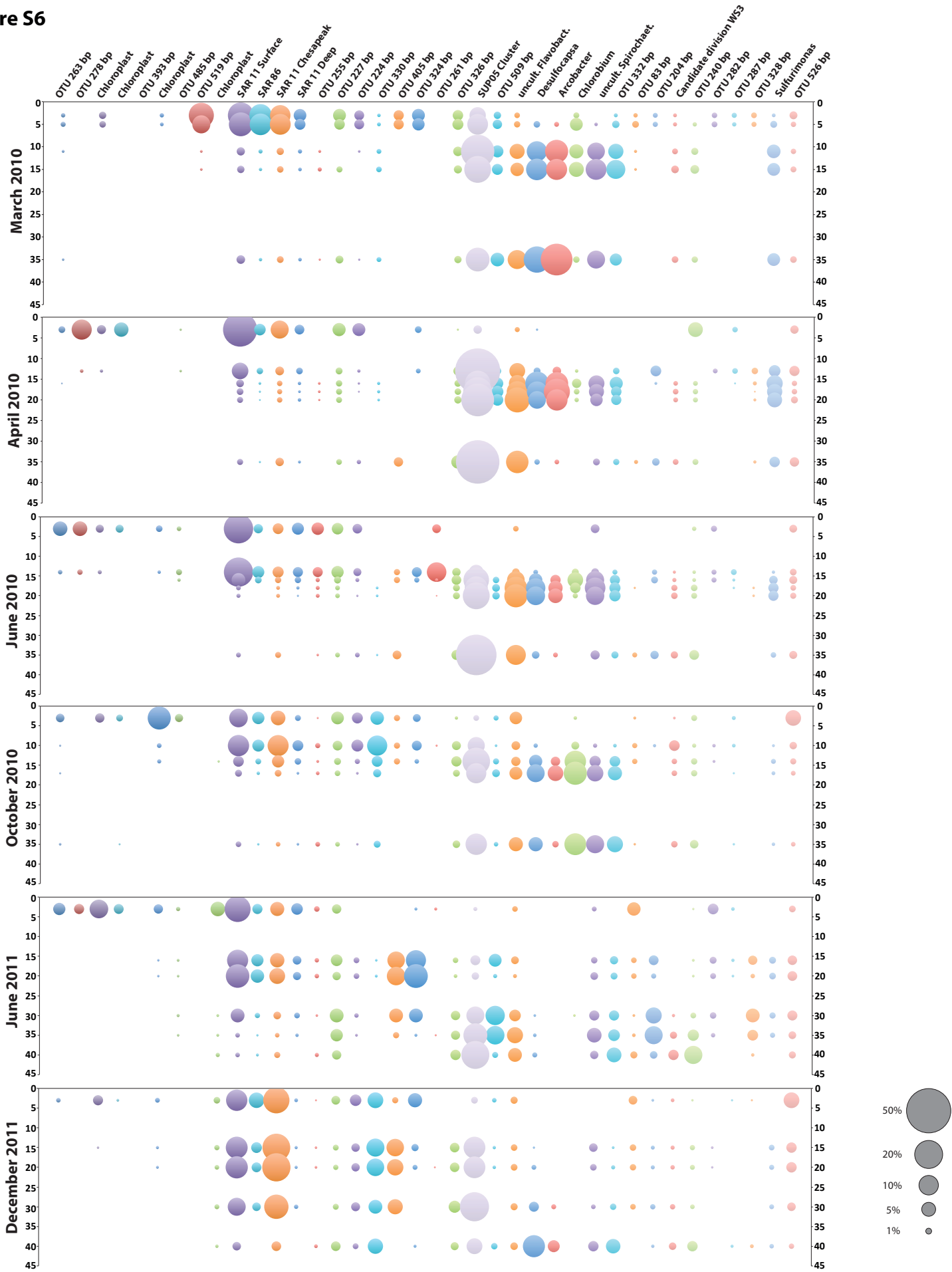
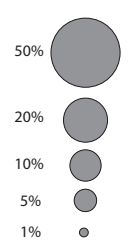
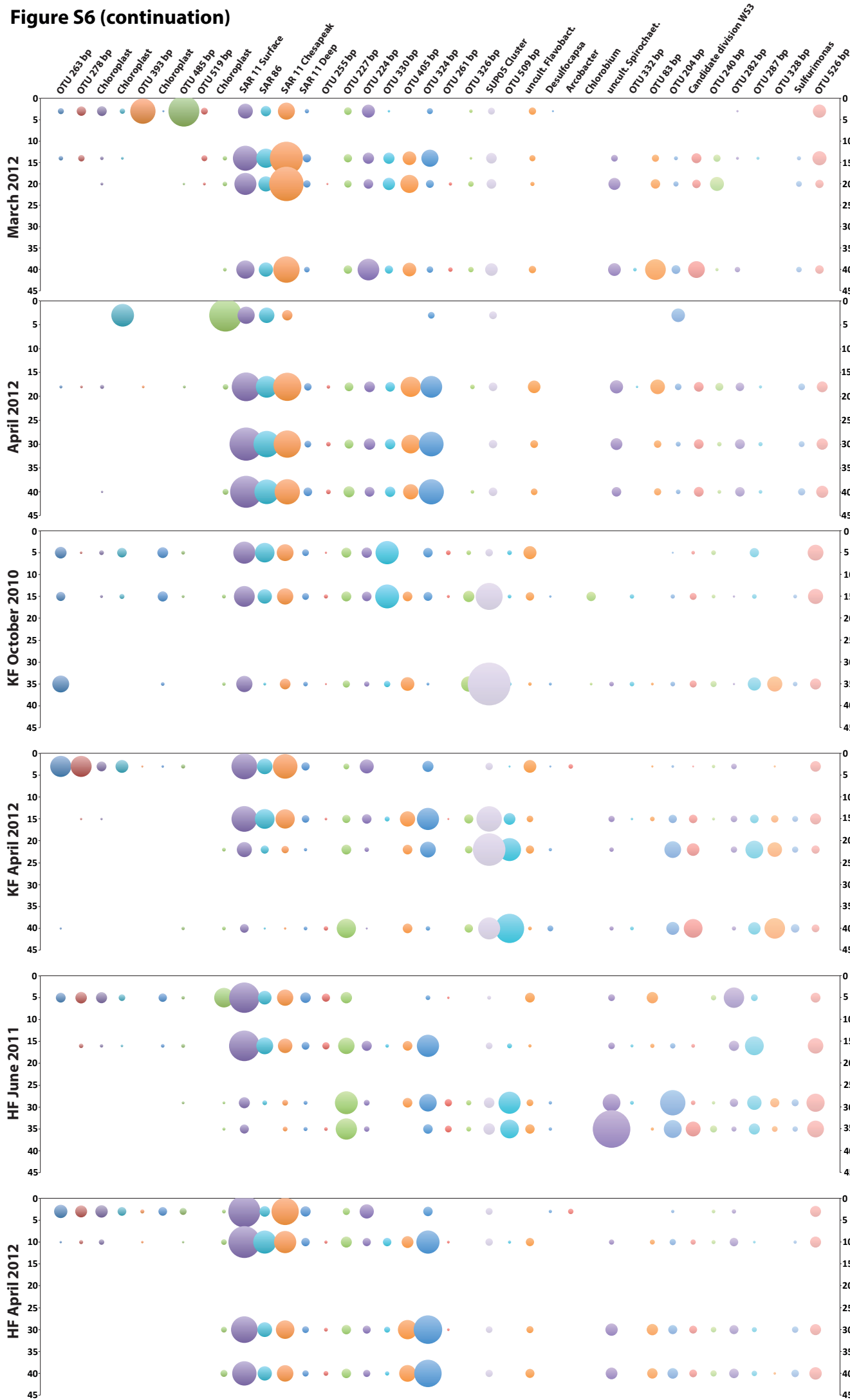


Figure S6 (continuation)



Tab. S1: Overview over samples used for molecular work

Station/Fjord	Date collected	Depth (m)	Water filtrated (l)	DNA yield (µg)	Comments	CTD Data		
						Oxygen (µmol/l)	Salinity (PSU)	Temp (°C)
Byfjord	15/03/10	3	5	42	Whole fjord was covered with ice	262	16.5	2.7
		5	5	90		248	21.7	4.2
		11	2.5	43		209	23.8	8.7
		15	3	22		171	25.4	7.8
		35	5	76		145	31.6	7.7
	27/04/10	3	5	52	228	19.4	8.1	
		13	3	79	67	27.1	4.6	
		16	2	76	0	29.8	6.5	
		18	2.5	86	0	31.2	7.8	
		20	2.5	80	0	31.2	7.9	
		35	3.5	74	0	31.6	7.7	
	14/06/10	3	11.5	160	275	23.0	15.6	
		14	18	107	213	26.3	7.6	
		16	15	116	50	29.7	6.3	
		18	13	128	3	30.7	7.0	
		20	13.5	122	6	31.2	7.7	
		35	15	133	3	31.6	7.6	
	28/10/10	3	15	177	291	20.5	8.5	
		10	19	66	128	25.3	12.6	
		14	30	158	28	28.7	12.2	
		17	16	204	6	30.0	9.2	
		35	18	138	3	31.0	7.9	
	6/6/11	3	14	130	275	19.5	15.5	
		16	20	73	50	28.0	4.8	
		20	20	37	9	29.4	6.2	
		30	20	191	3	29.9	7.3	
		35	18	116	3	30.2	7.8	
		40	14	140	3	30.7	7.9	
	5/12/11	3	11	162	306	20.5	8.5	
		15	25	40	138	29.3	11.3	
		20	20	32	38	30.3	8.5	
		30	20	41	28	30.7	8.2	
		40	13	136	3	31.5	7.7	
	7/3/12	3	15	433	413	19.5	1.5	
		14	20	58	316	25.5	5.7	
		20	20	39	150	27.4	7.5	
		40	20	77	84	28.2	8.0	
	19/04/12	3	15	248	254	21.3	6.3	
		18	20	96	65	28.0	7.3	
		30	20	112	120	28.3	5.9	
40		20	149	106	28.7	5.8		
Havstensfjord	7/6/11	5	15	184	288	19.6	17.0	
		16	15	61	172	28.2	4.9	
		29	15	392	53	31.8	5.9	
		35	14	185	6	32.5	7.2	
	19/4/12	3	15	207	259	21.1	6.4	
20	15	52	147	29.5	5.3			
30	17	90	109	31.4	6.5			
40	15	132	22	31.8	6.8			
Koljöfjord	25/10/10	5	9	50	266	22.0	9.4	
		15	6	46	169	24.1	11.5	
		35	20	138	3	28.4	6.8	
	19/04/12	3	15	177	253	21.4	6.1	
		15	15	68	131	25.6	5.0	
		22	15	177	72	26.7	5.4	
		35	15	145	3	28.2	5.1	

Tab. S2: Environmental parameters used for correlation with T-RFLP data

Date	Depth	Environmental Data							Temp (°C)	Salt (PSU)	Used with molecular data from	
		H ₂ S (μmol/l)	O ₂ (ml/l)	PO ₄ (μmol/l)	NO ₂ (μmol/l)	NO ₃ (μmol/l)	NH ₄ (μmol/l)					
6/4/10	0	0	282	0.1	0.29	20.5	1.4	4.3	9.8	15/03/10		
	2	0	256	0.2	0.25	11.3	1.6	4.2	18.6			
	5	0	248	0.1	0.19	7.9	1.1	3.6	21.6			
	10	0	221	0.5	0.38	7.2	2.0	2.9	24.4			
	15	144	0	12.0	0	0.0	56.8	7.8	30.5			
	20	36	0	6.2	0	0.0	27.2	7.9	31.3			
	30	1	0	4.5	0.68	4.4	16.7	7.8	31.5			
	40	1	0	5.0	0.69	6.6	18.7	7.6	31.7			
	44	1	0	5.7	0.92	3.7	21.8	7.6	31.7			
	4/5/10	0	0	232	0	0.21	5.5	1.8	11.0		18.4	27/04/10
2		0	236	0	0.16	3.7	1.1	9.6	19.5			
5		0	212	0.1	0.15	3.2	1.7	6.7	22.5			
10		0	168	0.8	0.29	6.3	5.1	4.5	25.5			
15		20	0	6.9	0	0.0	31.2	6.9	29.7			
20		36	0	6.5	0	0.0	27.4	7.9	31.3			
30		1	0	4.9	2.35	0.0	17.9	7.8	31.5			
40		10	0	6.5	0	0.0	26.3	7.6	31.7			
44		20	0	7.4	0	0.0	31.2	7.6	31.7			
1/6/10		0	0	215	0.1	0.06	0.1	0.1	15.2	22.5	14/06/10	
	2	0	216	0.1	0.05	0.1	0.1	15.2	22.5			
	5	0	208	0.1	0.05	0.1	0.1	11.6	23.3			
	10	0	157	0.1	0.18	2.0	0.1	7.5	25.0			
	15	0	3	5.9	0.42	0.2	25.6	6.7	30.1			
	20	25	0	5.8	0	0.0	25.5	7.9	31.3			
	30	0	0	4.3	1.83	0.1	15.1	7.8	31.5			
	40	21	0	6.6	0	0.0	26.4	7.6	31.7			
	44	42	0	7.6	0	0.0	35.6	7.7	31.7			
	26/10/10	0	0	202	0.1	0.21	4.7	0.7	8.5	16.6		28/10/10
2		0	189	0.2	0.23	2.4	0.7	9.9	20.8			
5		0	143	0.4	0.43	3.1	0.8	11.6	23.1			
10		0	71	1.0	0.43	8.1	0.2	12.6	25.3			
15		31	0	6.6	0.15	0.0	24.2	10.5	29.5			
20		44	0	6.6	0.13	0.0	28.1	8.3	30.4			
30		55	0	6.8	0.08	0.1	23.2	8.2	30.8			
40		102	0	8.5	0.09	0.1	23.2	7.7	31.6			
8/6/11		0	0	213	0	0.06	0.2	0.2	16.6	19.1	6/6/11	
		2	0	211	0	0.02	0.1	0.2	15.8	19.5		
	5	0	185	0	0.02	0.1	0.6	14.4	19.9			
	10	0	158	0.1	0.17	3.9	3.5	9.7	21.9			
	15	0	91	1.1	0.24	16.8	1.8	4.8	28.1			
	20	0	52	2.5	0.19	21.0	0.2	6.5	29.5			
	30	0	3	2.5	7.21	10.0	2.2	7.5	30.0			
	40	48	0	9.6	0.05	0.1	30.6	8.0	30.6			
	44	82	0	11.8	0.04	0.1	44.1	8.1	30.8			
	5/12/11	0	0	231	0.4	0.38	14.0	5.2	5.5	13.8		5/12/11
2		0	222	0.5	0.36	9.5	3.8	7.2	16.8			
5		0	208	0.5	0.28	7.5	2.1	7.7	20.0			
10		0	206	0.5	0.22	7.3	1.7	7.9	20.9			
15		0	50	1.6	0.26	13.1	0.2	10.8	25.8			
20		0	27	2.0	0.15	14.2	0.2	11.0	26.5			
30		0	21	2.1	0.08	14.4	0.2	11.2	26.8			
40		56	0	8.5	0.04	0.1	4.5	10.2	29.0			
45		154	0	17.0	0.03	0.1	5.4	8.7	30.2			
7/3/12		0	0	308	0	0.30	7.0	0.2	1.3	19.2	7/3/12	
	2	0	311	0	0.24	5.0	0.2	1.3	19.2			
	5	0	271	0.4	0.30	10.7	0.5	1.4	21.4			
	10	0	246	0.7	0.42	13.5	1.5	0.4	22.8			
	15	0	99	1.8	0.08	15.3	0.2	8.0	27.1			
	20	0	108	1.8	0.05	15.4	0.2	7.7	27.5			
	25	0	107	1.9	0.05	15.6	0.2	7.9	27.8			
	30	0	96	2.1	0.04	16.3	0.2	7.9	27.9			
	35	0	73	2.3	0.60	17.4	0.2	8.0	28.1			
	40	0	39	4.3	0.04	24.1	0.2	8.2	28.2			
45	0	33	4.9	0.22	24.4	0.8	8.2	28.2				
16/4/12	0	0	248	0.1	0.18	4.9	0.2	6.0	19.9	19/04/12		
	2	0	246	0.1	0.17	4.4	0.2	5.8	20.6			
	5	0	213	0.1	0.14	4.4	0.4	4.9	22.0			
	10	0	137	0.7	0.24	11.4	0.8	5.2	25.8			
	15	0	97	1.5	0.10	15.0	0.2	7.7	28.0			
	20	0	112	1.2	0.14	14.0	0.3	6.2	28.1			
	30	0	114	1.0	0.19	11.7	1.5	5.8	28.3			
	40	0	113	1.0	0.20	10.9	2.2	5.8	28.7			
	44.5	0	112	1.0	0.20	11.1	2.4	5.8	28.8			
	8/6/11	0	0	216	0	0.02	0.1	0.2	18.2		19.5	7/6/11
2		0	215	0	0.02	0.1	0.2	17.1	19.6			
5		0	194	0	0.03	0.1	0.2	15.1	19.9			
10		0	152	0	0.20	5.1	1.6	8.1	23.1			
15		0	115	0.8	0.24	9.8	4.8	4.6	28.3			
20		0	110	1.0	0.21	11.8	3.4	4.3	29.1			
30		0	4	3.1	3.91	4.3	2.4	6.6	32.1			
39		0	0	6.0	0.15	0.0	9.0	7.4	32.6			
3/4/12		0	0	248	0	0.10	1.9	0.2	5.0	20.6	19/04/12	
		2	0	248	0	0.10	2.0	0.3	4.8	20.6		
	5	0	243	0	0.12	3.3	0.6	4.3	21.2			
	10	0	148	0.6	0.23	11.5	0.8	4.8	27.8			
	15	0	158	0.8	0.22	8.3	1.1	5.0	29.6			
	20	0	160	0.9	0.19	7.9	1.1	5.0	29.9			
	30	0	72	1.9	0.16	12.3	0.2	7.0	31.7			
	39	0	27	1.5	0.21	9.0	0.3	6.8	31.9			
	3/11/10	0 NaN	199	0.2	0.12	1.8	0.7	9.3	22.1	25/10/10		
		2 NaN	198	0.2	0.13	2.0	0.8	9.4	22.1			
5 NaN		197	0.2	0.13	2.0	0.7	9.3	22.1				
10 NaN		193	0.2	0.14	2.0	0.8	9.4	22.2				
15 NaN		67	1.1	0.36	6.2	0.8	10.9	25.2				
20		9	0	3.1	0.16 NaN		7.8	7.6	28.0			
30		8	0	3.2	0.15 NaN		2.9	6.8	28.4			
40		11	0	3.3	0.15 NaN		7.4	6.9	28.5			
8/5/12		0 NaN	224	0	0.12	1.6	0.5	10.4	21.7		19/04/12	
		2 NaN	224	0	0.11	1.5	0.6	10.2	21.7			
	5 NaN	224	0	0.11	1.6	0.3	5.8	21.7				
	10 NaN	199	0	0.22	4.4	1.3	6.4	23.2				
	15 NaN	106	0.5	0.10	13.5	0.2	5.2	25.8				
	20 NaN	53	0.9	0.10	13.2	0.2	5.4	26.7				
	30	19	0	3.2	0.11	0.1	3.4	5.2	28.2			
	40	20	0	3.7	0.08	0.1	4.3	5.2	28.3			

Tab. S3: Results of the SIMPER analysis

Group Oxidic

Average similarity: 50.97

OTU	Av.Abund	Contrib%	Cum.%
113	2.67	11.04	11.04
293	2.22	8.67	19.71
188	1.76	6.73	26.43
526	1.23	4.51	30.94
227	1.11	3.99	34.94
324	1.34	3.92	38.85
224	1.09	3.91	42.76
193	1.25	3.54	46.30
294	0.89	3.05	49.35
285	0.80	2.58	51.93
319	0.71	2.58	54.51
410	0.64	2.20	56.71
405	0.91	2.15	58.86
330	0.86	1.61	60.46
378	0.47	1.51	61.97
411	0.62	1.49	63.46
295	0.62	1.32	64.78
258	0.47	1.21	65.98
194	0.57	1.15	67.13
263	0.62	1.12	68.26
413	0.55	1.07	69.33
282	0.53	1.05	70.38

Group Hypoxic

Average similarity: 49.74

OTU	Av.Abund	Contrib%	Cum.%
193	2.51	9.64	9.64
285	1.51	5.09	14.72
194	1.45	4.70	19.42
113	1.35	4.27	23.69
526	0.97	3.59	27.28
227	1.00	3.32	30.60
326	0.90	3.20	33.80
293	1.10	3.11	36.91
332	1.00	2.87	39.78
500	0.86	2.76	42.54
509	1.05	2.63	45.17
410	0.71	2.62	47.79
269	1.11	2.57	50.36
207	0.75	2.23	52.59
525	0.77	2.19	54.77
405	0.87	1.97	56.74
238	0.59	1.91	58.65
425	0.78	1.82	60.47
240	0.63	1.80	62.27
204	0.79	1.66	63.93
273	0.50	1.61	65.54
229	0.87	1.47	67.01
305	0.41	1.36	68.37
538	0.58	1.34	69.71
260	0.42	1.23	70.94

Overlap with the 38 most abundant OTUs after first analysis

Groups Oxidic & Hypoxic

Average dissimilarity = 61.08

OTU	Av.Abund Group Oxidic	Av.Abund Group Hypoxic	Contrib%	Cum.%
193	1.25	2.51	2.92	2.92
113	2.67	1.35	2.71	5.63
293	2.22	1.10	2.59	8.22
188	1.76	0.57	2.49	10.71
324	1.34	0.68	2.26	12.98
194	0.57	1.45	2.06	15.04
269	0.18	1.11	2.05	17.09
509	0.29	1.05	1.81	18.90
285	0.80	1.51	1.77	20.67
332	0.17	1.00	1.76	22.42
229	0.15	0.87	1.73	24.15
405	0.91	0.87	1.69	25.84
330	0.86	0.48	1.67	27.51
224	1.09	0.45	1.58	29.09
525	0.08	0.77	1.43	30.52
425	0.14	0.78	1.42	31.93
204	0.29	0.79	1.38	33.31
326	0.44	0.90	1.32	34.63
500	0.28	0.86	1.31	35.94
514	0.27	0.55	1.23	37.18
263	0.62	0.09	1.23	38.41
295	0.62	0.02	1.18	39.59
294	0.89	0.37	1.14	40.73
413	0.55	0.38	1.13	41.86
207	0.44	0.75	1.11	42.97
227	1.11	1.00	1.11	44.07
411	0.62	0.35	1.09	45.16
538	0.40	0.58	1.08	46.24
278	0.55	0.01	1.07	47.32
319	0.71	0.25	1.07	48.38
83	0.50	0.37	1.03	49.41
526	1.23	0.97	1.01	50.42
287	0.38	0.35	0.99	51.42
282	0.53	0.29	0.96	52.38
328	0.08	0.49	0.96	53.35
240	0.43	0.63	0.96	54.30
479	0.46	0.04	0.86	55.16
388	0.42	0.00	0.81	55.97
303	0.41	0.18	0.81	56.78
260	0.21	0.42	0.81	57.58
258	0.47	0.31	0.77	58.35
421	0.05	0.39	0.77	59.12
201	0.42	0.07	0.74	59.86
238	0.33	0.59	0.72	60.58
189	0.41	0.15	0.72	61.31
222	0.33	0.15	0.69	61.99
273	0.24	0.50	0.66	62.65
230	0.37	0.10	0.66	63.31
199	0.31	0.22	0.65	63.96
288	0.16	0.33	0.65	64.61
378	0.47	0.32	0.64	65.25
521	0.25	0.30	0.63	65.88
284	0.32	0.20	0.62	66.49
485	0.32	0.06	0.61	67.11
410	0.64	0.71	0.61	67.72
502	0.07	0.32	0.59	68.31
255	0.32	0.21	0.58	68.89
265	0.15	0.29	0.57	69.46
127	0.29	0.05	0.56	70.02

Tab. S4: Five most abundant OTUs in oxic and hypoxic zones of the Byfjord

	Oxic > 90 µmol/l oxygen					Hypoxic < 90 µmol/l oxygen					Overall				
BF March 2010	193 (11.%)	113 (8.4%)	188 (6.4%)	519 (6.2%)	293 (5.8%)	229 (14.0%)	193 (12.4%)	269 (11.2%)	194 (7.3%)	285 (5.2%)	193 (11.9%)	229 (7.8%)	269 (6.2%)	113 (5.5%)	194 (4.2%)
BF April 2010	113 (26.7%)	278 (9.3%)	293 (7.5%)	240 (5%)	388 (4.8%)	193 (29.8%)	285 (9.7%)	229 (8%)	269 (6.3%)	500 (4.4%)	193 (25.2%)	285 (8.2%)	229 (6.7%)	113 (6.2%)	269 (5.3%)
BF June 2010	113 (22.5%)	261 (6.0%)	227 (3.7)	255 (3.4)	294 (3.2%)	193 (23.3%)	285 (11.5%)	194 (7.7%)	269 (6.3%)	229 (3.6%)	193 (16.5)	113 (8.6)	285 (8.0)	194 (5.7)	269 (4.3)
BF Oct 2010	113 (10.5%)	293 (8.7%)	330 (7.8%)	479 (7.3%)	193 (4.3)	193 (14.3%)	514 (12.9%)	194 (6.4%)	269 (6.1%)	332 (5.0%)	193 (10.3%)	514 (8.2%)	113 (5.2%)	293 (4.6%)	330 (4.3%)
BF June 2011	113 (14.8%)	324 (5.5 %)	293 (5.3%)	295 (4.6%)	405 (3.9%)	193 (11.4%)	113 (5.2%)	509 (5.1%)	324 (5.0%)	204 (4.4%)	113 (8.4%)	193 (8.1%)	324 (5.2%)	509 (4.1%)	405 (3.8%)
BF Dec 2011	293 (19.2%)	113 (12.2%)	330 (7.5%)	193 (6.8%)	526 (4.7%)	193 (13.8%)	293 (13.1%)	113 (7.8%)	330 (6.4%)	269 (5.4%)	293 (15.5%)	193 (11%)	113 (9.6%)	330 (6.7%)	405 (4.5%)
BF March 2012	293 (18.4%)	113 (9.6%)	485 (6.9%)	188 (5.0%)	393 (4.6%)	293 (15.0%)	224 (10.1%)	83 (9.2%)	113 (7.1%)	207 (6.1%)	293 (17.6%)	113 (9.0%)	485 (5.2%)	188 (4.9%)	224 (4.6%)
BF April 2012	113 (14%)	293 (9.9%)	188 (8.7%)	324 (7.6%)	222 (4.9%)	---	---	---	---	---	113 (14%)	293 (9.9%)	188 (8.7%)	324 (7.6%)	222 (4.9%)
KF Oct 2010	330 (12.1%)	113 (10.0%)	193 (8.5%)	188 (6.4%)	293 (5.9%)	193 (39.8%)	263 (6.2%)	113 (5.7%)	326 (5.1%)	328 (4.9%)	193 (19.0%)	113 (8.6%)	330 (8.3%)	293 (4.8%)	526 (4.3%)
KF April 2012	113 (14.3%)	293 (10.5%)	193 (7.6%)	188 (6.8%)	324 (6.6%)	193 (16.7%)	509 (14.9%)	328 (6.9%)	207 (5.5%)	287 (5.1%)	193 (12.1%)	113 (8.8%)	509 (8.2%)	293 (5.6%)	324 (4.8%)
HF June 2011	113 (20.3%)	282 (5.7%)	324 (5.6%)	293 (5.2%)	188 (5.1%)	194 (18.6%)	227 (10.5%)	204 (10.3%)	509 (9.0%)	526 (6.5%)	113 (11.2%)	194 (9.9%)	227 (7.5%)	204 (5.4%)	526 (5.2%)
HF April 2012	113 (19.7%)	293 (11.4%)	324 (10.3%)	188 (6.2%)	405 (3.7%)	324 (16.2%)	113 (12.8%)	405 (6.3%)	293 (5.9%)	188 (4.4%)	113 (18.0%)	324 (11.8%)	293 (10.0%)	188 (5.7%)	405 (4.3%)

Identified

Tab. S5: Phylogenetic placement of 16S rRNA gene clones as determined by phylogenetic reconstruction

Clone	Phylum	Class	Order	Family	Genus	BsuRI
BFB534*	Actinobacteria	Actinobacteria	Micrococcales	Microbacteriaceae	ML602J-51	
BFB670	Bacteroidetes	Flavobacteria	Flavobacteriales	Cryomorphaceae	NS10 marine group	286
BFB109	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	NS4 marine group	39
BFB630*	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	Sufflavibacter	
BFB539	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	uncultured	39
BFB064	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	uncultured	284
BFB639*	Bacteroidetes	Flavobacteria	Flavobacteriales	Flavobacteriaceae	uncultured	
BFB062	Candidate division WS3					193
BFB005	Candidate division WS3					207
BFB087*	Candidate division WS3					207
BFB001*	Chlorobi	Chlorobia	Chlorobiales	Clorobiaceae	Chlorobium	515
BFB036*	Chlorobi	Chlorobia	Chlorobiales	Clorobiaceae	uncultured	
BFB506*	Cyanobacteria	Chloroplast			Chloroplast	222
BFB566	Cyanobacteria	Chloroplast			Chloroplast	295
BFB556	Cyanobacteria	Chloroplast			Chloroplast	381
BFB508	Cyanobacteria	Chloroplast			Chloroplast	388
BFB541	Cyanobacteria	Chloroplast			Chloroplast	388
BFB577	Cyanobacteria	Chloroplast			Chloroplast	388
BFB532	Cyanobacteria	Chloroplast			Chloroplast	479
BFB610	Cyanobacteria	Chloroplast			Chloroplast	479
BFB688*	Cyanobacteria	Chloroplast			Chloroplast	479
BFB687*	Cyanobacteria	Chloroplast			Chloroplast	
BFB658*	Cyanobacteria	Cyanobacteria	Subsection I	Family I	Synechococcus	
BFB040	Deferribacteres	Deferribacteres	Deferribacterales		SAR406 clade	331
BFB656*	OM27					182
BFB028	Planctomycetes	Planctomycetacia	Planctomycetales	Planctomycetaceae	Pir4 lineage	252
BFB563	Planctomycetes	Planctomycetacia	Planctomycetales	Planctomycetaceae	Planctomyces	85
BFB615	Planctomycetes	Planctomycetacin	Planctomycetales	Planctomyce	Planctomyces	85
BFB641	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	uncultured	39
BFB518*	Proteobacteria	Alphaproteobacteria	Rhodobacterales	Rhodobacteraceae	uncultured	
BFB544	Proteobacteria	Alphaproteobacteria	Rhodospirillales	Rhodospirillaceae	AEGEAN-169 marine group	65
BFB657*	Proteobacteria	Alphaproteobacteria	Rhodospirillales		uncultured	
BFB575	Proteobacteria	Alphaproteobacteria	Rickettsiales	Mitochondria		358
BFB509	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Candidatus Pelagibacter	117
BFB525	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Candidatus Pelagibacter	117
BFB535	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Chesapeake Bay	293
BFB055	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Deep 1	294
BFB663	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Surface 1	117
BFB696	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Surface 1	117
BFB629*	Proteobacteria	Alphaproteobacteria	Rickettsiales	SAR11 Clade	Surface 1	117
BFB523*	Proteobacteria	Alphaproteobacteria	Rickettsiales		SAR116 clade	289
BFB572*	Proteobacteria	Betaproteobacteria	Burkholderiales	Comamonadaceae	BAL58 marine group	
BFB660	Proteobacteria	Deltaproteobacteria	Bdellovibrionales	Bacteriovoraceae	Peredibacter	258
BFB061	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacula	273
BFB011	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacula	424
BFB071	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacula	424
BFB074*	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacula	424
BFB008	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacula	425
BFB038*	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobacteraceae	Desulfobacula	
BFB063	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	203
BFB065	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	228
BFB003	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	269
BFB018	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	269
BFB046	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	269
BFB101*	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	269
BFB050*	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	269
BFB103*	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	271
BFB015*	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfocapsa	
BFB047	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfopila	228
BFB059	Proteobacteria	Deltaproteobacteria	Desulfobacterales	Desulfobulbaceae	Desulfopila	269
BFB550*	Proteobacteria	Deltaproteobacteria	Sh765B-TzT-29			386
BFB034	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	157
BFB010	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB024	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB044	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB060	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB086	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB098	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB082*	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	228
BFB056	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	378
BFB042	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	503
BFB115*	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	

Clone	Phylum	Class	Order	Family	Genus	BsuRI
BFB077*	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Campylobacteraceae	Arcobacter	
BFB083	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Heliobacteraceae	Sulfurimonas	500
BFB027	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Heliobacteraceae	Sulfurimonas	503
BFB035*	Proteobacteria	Epsilonproteobacteria	Campylobacterales	Heliobacteraceae	Sulfurimonas	
BFB070	Proteobacteria	Epsilonproteobacteria	Campylobacterales		Sulfurovum	506
BFB524*	Proteobacteria	Gammaproteobacteria	Alteromonadales	Alteromonadaceae	OM60 (NOR5) clade	
BFB594*	Proteobacteria	Gammaproteobacteria	Oceanospirillales		SAR86	188
BFB106	Proteobacteria	Gammaproteobacteria	Oceanospirillales		SUP05	228
BFB016*	Proteobacteria	Gammaproteobacteria	Oceanospirillales		SUP05	
BFB006	Proteobacteria	Gammaproteobacteria	Oceanospirillales		ZA2525c	193
BFB022	Proteobacteria	Gammaproteobacteria	Oceanospirillales		ZA2525c	193
BFB097*	Proteobacteria	Gammaproteobacteria	Oceanospirillales		ZA2525c	
BFB025	Spirochaete	Spirochaetes	Spirochaetales		MSBL8	194
BFB058	Spirochaete	Spirochaetes	Spirochaetales		MSBL8	194
BFB099	Spirochaete	Spirochaetes	Spirochaetales		MSBL8	194
BFB041*	Spirochaete	Spirochaetes	Spirochaetales		MSBL8	194
BFB026*	Spirochaete	Spirochaetes	Spirochaetales		MSBL8	
BFB080*	Spirochaete	Spirochaetes	Spirochaetales		MSBL8	
BFB084	TM6					190
BFB507*	Verrucomicrobia	Opitutae	MB11C04			
BFB676	Verrucomicrobia	Verrucomicrobiae	Verrucomicrobiales	Verrucomicrobiaceae	Roseibacillus	221

*single read sequence