

Supplementary table 2. Number of archaeal sequence reads per species, alphabetically organized per phylum

Bacterial taxonomy in alphabetical order	Station ST1			Station ST3			Station ST2				grand total
	Autumn 2007	Summer 2008	total	Spring 2008	Summer 2008	total	Autumn 2007	Spring 2008	Summer 2008	total	
Crenarchaeota;MBGB;NA;NA;NA;NA <sup>1</sup>	0	0	0	0	0	0	8	11	28	47	47
Crenarchaeota;MGI;NA;NA;NA;NA	0	0	0	2	7	9	3	0	0	3	12
Crenarchaeota;NA;NA;NA;NA;NA	26	49	75	55	162	217	616	31	305	952	1244
Crenarchaeota;Thermoprotei;Desulfurococcales;Desulfurococcaceae;NA;NA	1	0	1	0	0	0	0	0	0	0	1
Crenarchaeota;Thermoprotei;Desulfurococcales;NA;NA;NA	0	0	0	0	0	0	3	0	0	3	3
Crenarchaeota;Thermoprotei;NA;NA;NA;NA	591	0	591	24	2	26	804	133	186	1123	1740
Crenarchaeota;Thermoprotei;Thermoproteales;NA;NA;NA	0	0	0	0	0	0	1	0	0	1	1
Crenarchaeota;Thermoprotei;Thermoproteales;Thermofilaceae;Thermofilum;NA	0	0	0	0	0	0	2	0	0	2	2
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;Haloarcula;NA	0	0	0	0	36	36	0	0	0	0	36
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;Haloferax;NA	0	1	1	82	495	577	8	2	10	20	598
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;Haloquadratum;NA	0	0	0	0	1	1	0	0	0	0	1
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;Halorubrum;NA	2	1	3	346	7653	7999	14	15	59	88	8090
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;Halorubrum;Iacusprofundi	0	0	0	1	13	14	0	0	0	0	14
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;NA;NA	3	0	3	293	5494	5787	14	11	46	71	5861
Euryarchaeota;Halobacteria;Halobacteriales;Halobacteriaceae;Natrialba;NA	0	0	0	12	11	23	1	0	0	1	24
Euryarchaeota;Methanobacteria;Methanobacteriales;Methanobacteriaceae;Methanobacterium;NA	1755	65	1820	2	0	2	5	9	0	14	1836
Euryarchaeota;Methanobacteria;Methanobacteriales;Methanobacteriaceae;Methanobacterium;alcaliphilum	1	0	1	0	0	0	0	0	0	0	1
Euryarchaeota;Methanobacteria;Methanobacteriales;Methanobacteriaceae;Methanobrevibacter;NA	10	0	10	0	0	0	0	0	0	0	10
Euryarchaeota;Methanobacteria;Methanobacteriales;Methanobacteriaceae;NA;NA	24	0	24	3	0	3	1	2	2	5	32
Euryarchaeota;Methanobacteria;NA;NA;NA;NA	6	0	6	0	0	0	3	0	0	3	9
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Methanocorpusculaceae;Methanocorpusculum;NA	10	177	187	0	0	0	0	0	0	0	187
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Methanomicrobiaceae;Methanoculleus;NA	3	0	3	1	0	1	8	5	20	33	37
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Methanomicrobiaceae;Methanogenium;NA	15	0	15	26	21	47	230	179	255	664	726
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Methanomicrobiaceae;Methanoplanus;limicola	0	0	0	0	0	0	0	0	1	1	1
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Methanomicrobiaceae;NA;NA	27	0	27	40	33	73	196	141	218	555	655
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Methanospirillaceae;Methanospirillum;NA	105	42	147	0	0	0	0	0	0	0	147
Euryarchaeota;Methanomicrobia;Methanomicrobiales;NA;NA;NA	1	1	2	0	0	0	0	0	1	1	3
Euryarchaeota;Methanomicrobia;Methanomicrobiales;Unassigned;Methanocalculus;NA	1	0	1	0	0	0	0	0	0	0	1
Euryarchaeota;Methanomicrobia;Methanosarcinales;Methanosarcinaceae;Methanotherix;NA	131	0	131	15	13	28	89	49	53	191	350
Euryarchaeota;Methanomicrobia;Methanosarcinales;Methanosarcinaceae;Methanococcoides;NA	3	0	3	8	4	12	27	9	19	55	70
Euryarchaeota;Methanomicrobia;Methanosarcinales;Methanosarcinaceae;Methanolobus;NA	386	97	483	57	0	57	10	3	3	16	556
Euryarchaeota;Methanomicrobia;Methanosarcinales;Methanosarcinaceae;Methanomethylivorans;NA	1	0	1	0	0	0	0	1	0	1	2
Euryarchaeota;Methanomicrobia;Methanosarcinales;Methanosarcinaceae;Methanosarcina;NA	120	1	121	31	10	41	241	209	251	701	863
Euryarchaeota;Methanomicrobia;Methanosarcinales;Methanosarcinaceae;NA;NA	1	0	1	5	3	8	62	25	23	110	119
Euryarchaeota;Methanomicrobia;Methanosarcinales;NA;NA;NA	7	1	8	6	6	12	11	2	4	17	37
Euryarchaeota;NA;NA;NA;NA;NA	84	67	151	418	227	645	631	93	384	1108	1904
Euryarchaeota;TMEG;NA;NA;NA;NA	0	0	0	0	0	0	8	0	7	15	15
Euryarchaeota;Thermoplasmata;Thermoplasmatales;NA;NA;NA	19	2	21	0	0	0	6	1	3	10	31
Euryarchaeota;Thermoplasmata;Thermoplasmatales;Picrophilaceae;Picrophilus;NA	3	0	3	0	0	0	19	2	0	21	24
Archaea;NA;NA;NA;NA;NA	59	3	62	21	146	167	715	591	536	1842	2071
Total per sample	3395	507	3902	1448	14337	15785	3736	1524	2414	7674	27361

<sup>1</sup> NA; sequence reads could not be assigned beyond this or multiple (NA;NA; ... ) taxonomic level: