

Supplementary Table 3. Frequency that each archaeal phylum was found across each of the environmental categories.

	Aerosol	Brackish	Brackish sediment	Freshwater	Freshwater sediment	Marine	Marine sediment	Hydrothermal vent	Ice	Aquatic other	Digesters	Food-associated	Industrial/mining	Pollution associated	Built other	Plant root	Plant surface	Plant other	Agricultural soil	Desert soil	Permafrost	Other soils	Vertebrate	Arthropod	Other invertebrate	Other zoological	Other	Total
72	2	488	138	598	726	1295	6	4102	5409	535	3688	117	1032	378	511	22	33	0	78	3	5261	1030	646	87	21	53	71	28423
83	0	687	274	546	280	808	36	6673	5505	146	843	0	161	36	173	0	108	0	150	35	126	752	116	0	42	0	129	17901
77	0	92	107	101	224	357	0	102	2117	36	148	0	43	24	22	0	3	0	9	0	2	272	55	0	4	0	0	3738
70	0	0	1	24	15	804	0	14	17	2	72	0	10	2	1	0	0	0	0	0	0	20	16	0	0	1	0	1189
86	0	61	0	75	9	59	0	24	365	3	5	0	6	0	5	0	2	0	0	0	0	1	6	0	0	0	0	634
67	0	8	2	24	59	70	0	22	100	25	1	0	0	0	0	0	0	0	1	0	0	0	20	0	0	0	0	342
68	0	7	0	12	0	204	0	5	20	4	1	0	4	4	0	0	0	0	0	0	0	2	13	0	0	0	0	316
76	0	6	3	2	3	13	0	5	218	5	0	0	0	0	0	0	0	0	0	0	0	3	8	0	0	0	0	267
73	0	0	0	2	0	159	0	3	21	0	6	0	0	0	0	0	0	0	8	1	0	3	2	0	0	0	0	214
69	0	0	0	0	0	0	0	0	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191
79	0	0	0	132	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138
78	0	0	0	6	4	10	0	1	61	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	85
80	0	5	0	11	0	0	0	48	2	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
71	0	13	0	1	2	5	0	5	6	1	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	44
82	0	1	0	6	2	6	0	0	14	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
74	0	0	0	0	0	10	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
81	0	0	0	0	0	0	0	1	3	0	0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	0	9
85	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
84	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	2	1368	525	1540	1324	3808	42	11007	14049	772	4764	117	1259	444	716	22	146	0	246	39	5389	2091	882	87	67	54	200	53625