

Table 1. Status of microbial census by habitat classifications and domain. The isolation_source field from the SILVA reference database was manually curated to assign bacterial and archaeal sequences coarse and fine scale habitat classifications. We calculated the number of sequences and OTUs observed and the percent coverage on a sequence or OTU basis for each classification and domain.

Coarse	Fine	Bacteria				Archaea			
		Sequences (N)	OTUs (N)	% Seq. Coverage	% OTU Coverage	Sequences (N)	OTUs (N)	% Seq. Coverage	% OTU Coverage
Aerosol		3,473	774	84.9	32.4	2	1	100.0	100.0
Aquatic	Brackish	1,094	581	59.5	23.8	1,368	263	88.4	39.5
	Brackish sediment	390	231	54.1	22.5	525	202	72.4	28.2
	Freshwater	59,220	35,134	46.0	9.0	1,540	371	85.1	38.3
	Freshwater sediment	23,979	4,540	84.9	20.5	1,324	473	74.9	29.8
	Marine	134,788	12,323	94.4	39.2	11,007	576	96.9	41.3
	Marine sediment	27,811	9,197	76.7	29.4	14,049	1,536	92.9	35.4
	Hydrothermal vent	10,861	4,012	73.6	28.6	3,808	791	87.8	41.1
	Ice	2,073	592	83.9	43.8	42	3	100.0	100.0
	Other	8,765	3,354	72.5	28.2	772	278	76.9	36.0
	Digesters	33,152	7,492	84.9	33.3	4,764	222	97.5	45.5
Built	Food-associated	11,813	1,080	94.8	43.3	117	32	82.9	37.5
	Industrial/mining	16,598	5,473	77.4	31.6	1,259	271	87.5	42.1
	Pollution associated	38,710	9,223	85.4	38.8	716	198	84.2	42.9
	Other	8,556	2,150	83.5	34.5	444	89	88.3	41.6
Plant associated	Root	19,695	3,571	87.9	33.0	200	48	85.5	39.6
	Surface	4,892	833	90.0	41.4	0	0	NA	NA
	Other	9,753	2,571	82.6	34.0	22	8	90.9	75.0
Soil	Agriculture	10,051	2,779	81.9	34.7	146	44	82.9	43.2
	Desert	3,059	1,161	73.1	29.2	246	69	80.9	31.9
	Permafrost	1,922	652	80.1	41.4	39	13	84.6	53.8
	Other	60,335	16,272	81.2	30.1	2,091	500	86.1	41.8
Zoological	Vertebrate	794,492	45,762	95.5	22.6	5,389	142	98.7	51.4
	Arthropod	13,209	3,072	84.2	32.1	87	25	87.4	56.0
	Other invertebrate	7,476	2,140	81.5	35.5	67	28	70.1	28.6
	Other	10,855	1,201	92.9	35.5	54	11	90.7	54.5
Other		19,417	5,571	80.5	32.1	882	209	86.3	42.1
No source data		151,785	11,918	95.8	46.2	2,590	470	91.6	53.8
Total		1,488,224	146,256	92.7	25.3	53,625	4,253	95.1	38.6