

**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		3,444	757	85.3	33.3	2	1	100.0	100.0
Aquatic	Brackish	1,272	600	65.6	27.0	1,368	262	88.5	39.7
	Brackish sediment	387	231	54.0	22.9	525	202	72.6	28.7
	Freshwater	21,445	5,366	83.3	33.4	1,540	365	85.6	39.5
	Freshwater sediment	23,965	4,484	85.2	20.9	1,324	469	75.1	29.6
	Marine	130,529	11,218	95.0	41.8	11,007	573	97.0	41.9
	Marine sediment	27,586	8,689	78.2	30.8	14,049	1,513	93.1	36.0
	Hydrothermal vent	10,650	3,936	73.9	29.4	3,807	782	87.9	40.9
	Ice	2,022	595	83.4	43.7	42	3	100.0	100.0
	Other	8,214	2,918	75.6	31.4	772	274	77.6	36.9
Built	Digesters	32,551	7,206	85.4	34.2	4,488	214	97.5	47.2
	Food-associated	11,721	1,101	94.7	43.1	117	32	82.9	37.5
	Industrial/mining	16,209	5,368	77.5	31.9	1,254	263	87.7	41.4
	Pollution associated	38,224	9,096	85.5	39.2	716	193	84.8	43.5
	Other	8,018	2,110	82.8	34.7	444	91	88.1	41.8
Plant associated	Root	19,059	3,562	87.5	33.1	200	48	85.5	39.6
	Surface	4,819	836	89.7	40.9	0	0	NA	NA
	Other	9,529	2,492	82.8	34.1	22	8	90.9	75.0
Soil	Agriculture	9,944	2,761	81.8	34.6	146	41	84.2	43.9
	Desert	3,040	1,150	73.7	30.3	245	68	81.2	32.4
	Permafrost	1,884	645	79.6	40.3	39	13	84.6	53.8
	Other	58,936	15,979	81.2	30.7	2,091	499	86.2	42.3
Zoological	Vertebrate	768,601	27,879	97.6	35.2	5,389	143	98.7	50.3
	Arthropod	12,835	3,038	84.0	32.2	87	24	87.4	54.2
	Other invertebrate	7,392	2,104	81.7	35.7	67	27	71.6	29.6
	Other	10,714	1,179	92.8	34.6	54	10	92.6	60.0
Other		19,219	5,505	80.7	32.6	882	207	86.5	42.5
No source data		150,310	12,004	95.7	46.5	2,590	471	91.5	53.1
Total		1,412,681	95,726	95.7	36.6	53,618	4,208	95.2	38.8