Table 2. Metagenomic data in Fig. 2 and SI Fig 6

[Total ORFs	Similarity		Neighborhood		Combined		Overall	
Environments Combined (60 bits)	1,438,944			248,943	17.3%	938,342	65.2%		
		938,342	65.2%	23,274 14,502	1.6% 1.0%	0	0.0%	1,097,085	76.2%
				651,623	45.3%	0	0.0%		
		187,249	13.0%	88,964 3,095	6.2% 0.2%	88,964 98,285	6.2% 6.8%	103,954	7.2%
				1,757	0.1%	0	0.0%		
				93,433 57,394	6.5% 4.0%	0 57,394	0.0%		
		133,459	9.3%	1,824	0.1%	1,824	0.1%	76,801	5.3%
nen				2,925 71,316	0.2% 5.0%	74,241 0	5.2% 0.0%		
nno				12,385	0.9%	12,385	0.9%		
vir		179,894	12.5%	3,845	0.3%	3,845	0.3%	161,104	11.2%
Щ				2,560 161,104	0.2% 11.2%	2,560 161,104	0.2%		
Whale Fall (60 bits)	122,146	66,055	54.1%	13,637	11.2%	66,055	54.1%	80,557	66.0%
				2,069	1.7%	0	0.0%		
				1,357 48,992	1.1% 40.1%	0	0.0%		
		16,714	13.7%	7,436	6.1%	7,436	6.1%	10,395	8.5%
				469 265	0.4% 0.2%	9,278 0	7.6%		
				8,544	7.0%	0	0.0%		
		12,765	10.5%	5,032 290	4.1% 0.2%	5,032 290	4.1% 0.2%	8,049	6.6%
				468	0.4%	7,443	6.1%		
				6,975	5.7%	0	0.0%		
		26,612	21.8%	2,034 827	1.7% 0.7%	2,034 827	1.7% 0.7%	23,145	19.0%
				606	0.5%	606	0.5%		
				23,145 218,182	19.0% 20.1%	23,145 772,660	19.0% 71.1%		
Surface Sea Water (60 bits)	1,086,400	772,660	71.1%	18,373	1.7%	0	0.0%	893,306	82.2%
				11,531	1.1%	0	0.0%		
				524,574 69,587	48.3% 6.4%	0 69,587	0.0%		
		135,913	12.5%	1,770	0.2%	66,326	6.1%	68,475	6.3%
				1,065 63,491	0.1% 5.8%	0	0.0%		
		100,673	9.3%	44,456	4.1%	44,456	4.1%	56,076	5.2%
				1,126 1,906	0.1% 0.2%	1,126 55,091	0.1%		
ace				53,185	4.9%	0	0.0%		
Surf		77,154	7.1%	6,603 1,023	0.6% 0.1%	6,603 1,023	0.6% 0.1%	68,543	6.3%
				985	0.1%	985	0.1%		
				68,543	6.3%	68,543	6.3%		
l Mine (60 bits)	46,862	20,643	44.1%	5,297 658	<u>11.3%</u> 1.4%	20,643 0	44.1% 0.0%	25,295	54.0%
				626	1.3%	0	0.0%		
				14,062	30.0%	0	0.0%		
		5,523	11.8%	2,268 186	4.8% 0.4%	3,255	7.0%	3,803	8.1%
				113	0.2%	0	0.0%		
				2,956 1,527	6.3% 3.3%	0	0.0%		
		4,360	9.3%	141	0.3%	141	0.3%	2,940	6.3%
Acid				221 2,471	0.5% 5.3%	2,692 0	5.7% 0.0%		
Ā		16,336	34.9%	857	1.8%	857	1.8%	14,824	31.6%
				407 248	0.9% 0.5%	407 248	0.9%		
				14,824	31.6%	14,824	31.6%		
0 bits)	183,536	78,984	43.0%	11,827	6.4%	78,984	43.0%	97,927	53.4%
				2,174 988	1.2% 0.5%	0	0.0%		
				63,995	34.9%	0	0.0%		
		29,099	15.9%	<u>9,673</u> 670	5.3% 0.4%	9,673 19,426	5.3% 10.6%	21,281	11.6%
il (6				314	0.2%	0	0.0%		
Minnesota Soil (60 bits)		15,661	8.5%	18,442	10.1% 3.5%	0	0.0%	9,736	5.3%
				6,379 267	0.2%	6,379 267	0.2%		
				330	0.2%	9,015	4.9%		
		59,792	32.6%	8,685 2,891	4.7% 1.6%	0 2,891	0.0%	54,592	29.7%
				1,588	0.9%	1,588	0.9%		
				721 54,592	0.4% 29.7%	721 54,592	0.4% 29.7%		
ا ــــــا				04,002	20.170	04,002	20.170		

Moving from top to bottom is equivalent to moving clockwise around the pie chart and moving from left to right across the table is equivalent to moving from the inner pie to the outside ring of the 60 bit column of SI Fig. 6. A description of the colors used and the corresponding categories can be found in Fig. 2.