

Table S2. Abundance of AOA and AOB *amoA* and Thaumarchaeal 16S ribosomal RNA genes and transcripts at the start and end of multiday experiments.

Day	WCB <i>amoA</i> genes L ⁻¹		WCB <i>amoA</i> mRNA L ⁻¹		β -AOB <i>amoA</i> genes L ⁻¹		β -AOB <i>amoA</i> mRNA L ⁻¹		MG1 16S genes L ⁻¹		MG1 16S transcripts L ⁻¹		WCA <i>amoA</i> genes L ⁻¹		WCA <i>amoA</i> mRNA L ⁻¹	
	0	3	0	3	0	3	0	3	0	3	0	3	0	3	0	3
Surface [†]	4x10 ³	1x10 ² ±2x10 ¹	BD	BD	2x10 ⁴	9x10 ³ ±2x10 ³	BD	BD	3x10 ⁵	1x10 ⁵ ±1x10 ⁴	2x10 ⁴	9x10 ² ±3x10 ²	7x10 ⁵	2x10 ⁵ ±9x10 ⁴	3x10 ³	5x10 ² ±2x10 ²
Deep	2x10 ⁵	1x10 ⁵ ±4x10 ⁴	4x10 ³	BD	3x10 ⁵	2x10 ⁵ ±3x10 ⁴	5x10 ³	BD	5x10 ⁶	3x10 ⁶ ±7x10 ⁵	8x10 ⁶	3x10 ⁶ ±1x10 ⁶	4x10 ⁶	4x10 ⁶ ±3x10 ⁵	4x10 ⁵	7x10 ⁴ ±2x10 ⁴
Bloom	2x10 ⁵	2x10 ⁴ ±1x10 ³	7x10 ³	BD	4x10 ⁵	7x10 ⁴ ±2x10 ⁴	7x10 ³	BD	4x10 ⁶	2x10 ⁶ ±3x10 ⁵	6x10 ⁶	2x10 ⁵ ±2x10 ⁴	4x10 ⁶	2x10 ⁶ ±2x10 ⁵	5x10 ⁶	1x10 ⁴ ±4x10 ¹

[†]Values represent the average of replicate samples (N=3 for 'surface', 'bloom'; N=2 for 'deep') for end point samples (± S.D). Initial time point samples were not replicated. BD, below detection limit of assay (1 copy per qPCR reaction for WCA, WCB; 10 copies per reaction for AOB).