Table S2. Sulfur parameters for phase 2 samples**.** R1, R2: petro F76; R3, R4: FT-F76; R5, R6: 1:1 mix of petro- and FT-F76; R7, R8: no added fuel. A. Sulfate Reduction Activity. The average of triplicate samples is shown in units of μmol S/mL/day. Samples with SRA significantly above baseline values are shown in bold. SRA value of the original seawater used for filling the reactors (Day 0) was 0.032 μmol S/mL/day (average of 5 replicates). B. Concentration of H_2S in aqueous samples (ppm).

A. Sulfate Reduction Activity						
Time (days)	**402**	**431**	**458**	**528**	**591**	**764**
R1: petro-F76	0.037	0.031	0.027	0.039	0.013	0.010
R2: petro-F76	0.040	0.036	0.032	0.029	0.018	0.017
R3: FT-F76	0.023	0.040	0.028	0.019	0.012	0.030
R4: FT-F76	0.021	**0.400**	0.035	0.022	0.011	0.022
R5: fuel mix	0.040	0.038	0.027	0.019	0.013	0.025
R6: fuel mix	0.046	0.045	0.035	**0.260**	0.015	0.036
R7: no fuel	0.027	0.024	0.029	0.019	0.083	0.024
R8: no fuel	0.027	0.033	0.023	0.021	0.015	0.025

B. H_2S						
Time (days)	**402**	**431**	**458**	**528**	**591**	**750**
R1: petro-F76	0	0	0	0	0	0
R2: petro-F76	0	0	0	0	**2.5**	0
R3: FT-F76	0	**5**	**5**	**2.5**	**7.5**	**5**
R4: FT-F76	0	**2.5**	**5**	**5**	**5**	**5**
R5: fuel mix	0	0	0	0	0	**2.5**
R6: fuel mix	0	**2.5**	**5**	**2.5**	**5**	**5**
R7: no fuel	0	**5**	0	0	**7.5**	**5**
R8: no fuel	0	0	0	0	**2.5**	**5**