

Table S2. Taxonomy of the abundant ASV (>1% of community reads) in

community	treatment	asv_id	max.abundance (%)
Surface	Sp SW+N	asv1	63
Surface	Sp SW+N	asv2	32
Surface	Sp SW+N	asv15	15
Surface	Sp SW+N	asv5	9
Surface	Sp SW+N	asv20	5
Surface	Sp SW+N	asv39	3
Surface	Sp SW+N	asv27	3
Surface	Sp SW+N	asv51	2
Surface	Sp SW+N	asv28	2
Surface	Sp SW+N	asv60	2
Surface	Sp SW+N	asv52	2
Surface	Sp SW+N	asv107	1
Surface	Sp SW+N	asv19	1
Surface	Sp SW	asv1	57
Surface	Sp SW	asv2	33
Surface	Sp SW	asv19	4
Surface	Sp SW	asv21	3
Surface	Sp SW	asv11	3
Surface	Sp SW	asv23	2
Surface	Sp BW	asv1	64
Surface	Sp BW	asv2	28
Surface	Sp BW	asv4	12
Surface	Sp BW	asv7	10
Surface	Sp BW	asv5	5
Surface	Sp BW	asv34	3
Surface	Sp BW	asv11	2
Surface	Sp BW	asv71	2
Surface	Sp BW	asv22	2
Surface	Sp BW	asv23	2
Surface	Sp BW	asv25	2
Surface	Sp BW	asv18	2
Surface	Sp BW	asv28	1
Surface	Sp BW	asv99	1
Surface	Sp BW+C	asv1	38
Surface	Sp BW+C	asv5	31
Surface	Sp BW+C	asv2	18
Surface	Sp BW+C	asv7	3
Surface	Sp BW+C	asv22	2
Bathypelagic	Bp SW+N	asv1	49

Bathypelagic	Bp SW+N	asv2	32
Bathypelagic	Bp SW+N	asv9	15
Bathypelagic	Bp SW+N	asv5	11
Bathypelagic	Bp SW+N	asv4	11
Bathypelagic	Bp SW+N	asv6	7
Bathypelagic	Bp SW+N	asv8	7
Bathypelagic	Bp SW+N	asv14	6
Bathypelagic	Bp SW+N	asv10	6
Bathypelagic	Bp SW+N	asv3	6
Bathypelagic	Bp SW+N	asv37	3
Bathypelagic	Bp SW+N	asv12	2
Bathypelagic	Bp SW+N	asv32	2
Bathypelagic	Bp SW+N	asv53	2
Bathypelagic	Bp SW+N	asv7	1
<hr/>			
Bathypelagic	Bp SW	asv1	52
Bathypelagic	Bp SW	asv2	28
Bathypelagic	Bp SW	asv9	12
Bathypelagic	Bp SW	asv3	11
Bathypelagic	Bp SW	asv4	10
Bathypelagic	Bp SW	asv10	6
Bathypelagic	Bp SW	asv7	3
Bathypelagic	Bp SW	asv14	2
Bathypelagic	Bp SW	asv5	2
Bathypelagic	Bp SW	asv6	2
Bathypelagic	Bp SW	asv11	2
Bathypelagic	Bp SW	asv26	1
<hr/>			
Bathypelagic	Bp BW	asv1	42
Bathypelagic	Bp BW	asv3	29
Bathypelagic	Bp BW	asv2	21
Bathypelagic	Bp BW	asv8	17
Bathypelagic	Bp BW	asv4	13
Bathypelagic	Bp BW	asv6	12
Bathypelagic	Bp BW	asv7	10
Bathypelagic	Bp BW	asv13	7
Bathypelagic	Bp BW	asv12	7
Bathypelagic	Bp BW	asv14	3
Bathypelagic	Bp BW	asv11	3
Bathypelagic	Bp BW	asv17	3
Bathypelagic	Bp BW	asv22	2
Bathypelagic	Bp BW	asv41	1
Bathypelagic	Bp BW	asv30	1
Bathypelagic	Bp BW	asv10	1
Bathypelagic	Bp BW	asv24	1
<hr/>			
Bathypelagic	Bp BW+C	asv6	32
Bathypelagic	Bp BW+C	asv8	17

Bathypelagic	Bp BW+C	asv1	16
Bathypelagic	Bp BW+C	asv2	10
Bathypelagic	Bp BW+C	asv12	9
Bathypelagic	Bp BW+C	asv10	3
Bathypelagic	Bp BW+C	asv7	3
Bathypelagic	Bp BW+C	asv16	1
Bathypelagic	Bp BW+C	asv17	1

each of the treatments. Max.abundance (%) represents the maximal abundance of the

Kingdom	Phylum	Class	Order
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Bacteroidetes	Bacteroidia	Flavobacteriales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodobacterales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodospirillales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodobacterales
Bacteria	Proteobacteria	Gammaproteobact	Cellvibrionales
Bacteria	Proteobacteria	Alphaproteobacteri	Puniceispirillales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
unclassified			
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodospirillales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhizobiales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhizobiales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodobacterales
Bacteria	Proteobacteria	Alphaproteobacteri	Sphingomonadales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhizobiales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodobacterales
Bacteria	Proteobacteria	Gammaproteobact	Salinisphaerales
Bacteria	Proteobacteria	Alphaproteobacteri	Sphingomonadales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhizobiales
Bacteria	Proteobacteria	Alphaproteobacteri	Sphingomonadales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Alphaproteobacteri	Rhodobacterales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Oceanospirillales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales
Bacteria	Proteobacteria	Gammaproteobact	Alteromonadales

Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriSphingomonadales
Bacteria	Proteobacteria	AlphaproteobacteriSAR11_clade
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Archaea	Thaumarchaeota	Nitrososphaeria Nitrosopumilales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriSphingomonadales
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Actinobacteria	Actinobacteria Micrococcales
Archaea	Thaumarchaeota	Nitrososphaeria Nitrosopumilales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales

Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	GammaproteobactAlteromonadales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	AlphaproteobacteriRhodobacterales
Bacteria	Proteobacteria	GammaproteobactOceanospirillales
Bacteria	Proteobacteria	AlphaproteobacteriSAR11_clade
Bacteria	Proteobacteria	GammaproteobactAlteromonadales

that each ASV reached in each of the treatments (regardless the sampling time)

Family	Genus	Species
Alteromonadaceae	Alteromonas	macleodii/marina
Alteromonadaceae	Alteromonas	macleodii/marina/simiduii
Rhodobacteraceae	Sulfitobacter	pontiacus
AEGEAN-169_marine_group		
Rhodobacteraceae	Citricella	marina/thiooxidans
Songiibacteraceae	Songiibacter	marinus/tropicus
SAR116_clade		
Alcanivoracaceae	Alcanivorax	balearicus/dieselolei/xenom
AEGEAN-169_marine_group		
Marinobacteraceae	Marinobacter	confluentis/salinaria
Alteromonadaceae	Alteromonas	macleodii/marina
Alteromonadaceae	Alteromonas	macleodii/marina/simiduii
Rhodobacteraceae	HIMB11	
Sphingomonadaceae	Sphingobium	
Beijerinckiaceae	Methylobacterium	
Alteromonadaceae	Alteromonas	macleodii/marina
Alteromonadaceae	Alteromonas	macleodii/marina/simiduii
Saccharospirillaceae		
Alcanivoracaceae	Alcanivorax	venustensis
Rhodobacteraceae	Sulfitobacter	pontiacus
Salinisphaeraceae	Salinisphaera	
Sphingomonadaceae	Sphingobium	
Pseudohongiellaceae	Pseudohongiella	
Marinobacteraceae	Marinobacter	adhaerens/salsuginis
Beijerinckiaceae	Methylobacterium	
Sphingomonadaceae	Erythrobacter	citreus/flavus/pelagi
Alteromonadaceae	Alteromonas	mediterranea
Alcanivoracaceae	Alcanivorax	balearicus/dieselolei/xenom
Alcanivoracaceae	Alcanivorax	jadensis
Alteromonadaceae	Alteromonas	macleodii/marina
Rhodobacteraceae	Sulfitobacter	pontiacus
Alteromonadaceae	Alteromonas	macleodii/marina/simiduii
Alcanivoracaceae	Alcanivorax	venustensis
Marinobacteraceae	Marinobacter	adhaerens/salsuginis
Alteromonadaceae	Alteromonas	macleodii/marina

Alteromonadaceae Alteromonas	macleodii/marina/simiduii
Rhodobacteraceae Thalassobius	mediterraneus
Rhodobacteraceae Sulfitobacter	pontiacus
Saccharospirillaceae	
Rhodobacteraceae Pseudophaeobacter	
Rhodobacteraceae Shimia	isoporae/marina
Saccharospirillaceae Spongiispira	
Rhodobacteraceae	
Saccharospirillaceae	
Rhodobacteraceae	
Rhodobacteraceae Shimia	haliotis/sagamensis
Rhodobacteraceae	
Rhodobacteraceae Pseudophaeobacter	
Alcanivoracaceae Alcanivorax	venustensis
<hr/>	
Alteromonadaceae Alteromonas	macleodii/marina
Alteromonadaceae Alteromonas	macleodii/marina/simiduii
Rhodobacteraceae Thalassobius	mediterraneus
Saccharospirillaceae	
Saccharospirillaceae	
Rhodobacteraceae	
Alcanivoracaceae Alcanivorax	venustensis
Saccharospirillaceae Spongiispira	
Rhodobacteraceae Sulfitobacter	pontiacus
Rhodobacteraceae Pseudophaeobacter	
Sphingomonadaceae Sphingobium	
Clade_II	
<hr/>	
Alteromonadaceae Alteromonas	macleodii/marina
Saccharospirillaceae	
Alteromonadaceae Alteromonas	macleodii/marina/simiduii
Rhodobacteraceae Shimia	isoporae/marina
Saccharospirillaceae	
Rhodobacteraceae Pseudophaeobacter	
Alcanivoracaceae Alcanivorax	venustensis
Nitrosopumilaceae	
Rhodobacteraceae Shimia	haliotis/sagamensis
Saccharospirillaceae Spongiispira	
Sphingomonadaceae Sphingobium	
Marinobacteraceae Marinobacter	
Marinobacteraceae Marinobacter	adhaerens/salsuginis
Micrococcaceae Pseudarthrobacter	
Nitrosopumilaceae	
Rhodobacteraceae	
Saccharospirillaceae Oleispira	
<hr/>	
Rhodobacteraceae Pseudophaeobacter	
Rhodobacteraceae Shimia	isoporae/marina

Alteromonadaceae Alteromonas
Alteromonadaceae Alteromonas
Rhodobacteraceae Shimia
Rhodobacteraceae
Alcanivoracaceae Alcanivorax
Clade_I Clade_Ia
Marinobacteraceae Marinobacter

macleodii/marina
macleodii/marina/simiduii
haliotis/sagamensis

venustensis

1e-point). See Figure S4 to see the dynamics of these ASVs along the experiment



utans



utans

