

Supplemental Table S3: Means for groups in homogeneous subsets of bottom types by environmental parameter as determined using Tukey's HSD .

**Homogeneous Subsets**

		EC (µ/cm)			
Bottom Types		N	Subset for alpha = 0.05		
Tukey			1	2	3
HSD <sup>ab</sup>	Carpet	41	38560.24		
	Black domes	12	39124.17		
	Black semi cohesive mat mat	8	39660.00		
	Floccules	48	40704.79		
	Network on bulbous mat on bulbous mat	26	45266.54		
	Orange/brown bulbous mat	38	55533.95		
	Orange gel mat	75		95509.60	
	Orange gel mat with black pinnacles	16		95519.38	
	Spar	43			156318.37
Sig.			0.499	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 21.561.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels

		pH			
Bottom Types		N	Subset for alpha = 0.05		
			1	2	3
Tukey HSD <sup>ab</sup>	Orange gel mat with black pinnacles	16	7.6344		
	Orange gel mat	75	7.7699	7.7699	
	Spar	43	7.8672	7.8672	7.8672
	Floccules	48		7.9877	7.9877
	Black semi cohesive mat	8			8.0388
	Carpet	41			8.0434
	Orange/brown bulbous mat	38			8.0466
	Black domes	12			8.1067
	Network on bulbous mat	26			8.1069
	Sig.		0.076	0.125	0.060

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 21.561.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels

		ORP (mV)		
Bottom Types		N	Subset for alpha =	
Tukey	HSD <sup>ab</sup>		1	2
	Orange gel mat	75	-47.635	
	Orange gel mat with black pinnacles	16	-33.819	-33.819
	Orange/brown bulbous mat	38	-18.089	-18.089
	Floccules	48	1.667	1.667
	Carpet	41	11.993	11.993
	Spar	43	14.251	14.251
	Network on bulbous mat	26	17.442	17.442
	Black domes	12		23.158
	Black semi cohesive mat	8		31.200
	Sig.		0.087	0.088

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 21.561.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I

		DO (mg/L)				
Bottom Types		N	Subset for alpha = 0.05			
			1	2	3	4
Tukey HSD <sup>ab</sup>	Spar	43	1.6563			
	Orange gel mat with black pinnacles	16	1.8506	1.8506		
	Orange gel mat	75	2.3399	2.3399	2.3399	
	Carpet	41		2.9137		2.9137
	Floccules	48			3.1365	3.1365
	Black domes	12			3.1683	3.1683
	Black semi cohesive mat	8			3.4400	3.4400
	Network on bulbous mat	26				3.6950
	Orange/brown bulbous mat	38				3.7337
	Sig.		0.674	0.114	0.089	0.425

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 21.561.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not

		Depth (cm)			
Bottom Types		N	Subset for alpha = 0.05		
			1	2	3
Tukey HSD <sup>ab</sup>	Black semi cohesive mat	8	16.25		
	Network on bulbous mat	26	17.12		
	Floccules	48	18.54		
	Orange/brown bulbous mat	38	19.74	19.74	
	Carpet	41	20.24	20.24	
	Black domes	12	25.42	25.42	
	Orange gel mat	75		30.72	30.72
	Spar	43		30.81	30.81
	Orange gel mat with black pinnacles	16			38.44
Sig.		0.222	0.061	0.455	

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 21.561.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels

		Turbidity (FNU)	
Bottom Types			Subset for alpha = 0.05
		N	1
Tukey	Spar	43	1.851
HSD <sup>ab</sup>	Network on bulbous mat	26	5.742
	Black domes	12	5.967
	Orange gel mat with black pinnacles	16	10.325
	Black semi cohesive mat	8	15.688
	Orange/brown bulbous mat	38	28.008
	Orange gel mat	75	35.463
	Carpet	41	44.271
	Floccules	48	53.775
	Sig.		0.713

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 21.561.

b. The group sizes are unequal. The harmonic mean of the group sizes is