

Balazs - Sand Samples

Ident	(gm) SAND DRY WT	(ml) Vol. sand moist.	(gm) wt. of salt	(gm/kg) salt as % of sand wt	% Salinity of moisture	Notes	
EAST ISL							
1 1cm	20.77	7.33	.0061	0.29		The water content of these samples is about 20% as high as your samples Rose Atoll samples. Something is fishy I think.	
2 1cm	22.62	7.59	.0036	0.16	0.22		
3 1cm	18.89	7.51	.0032	0.17	= .022% by wt		
4 1cm	22.05	7.44	.0065	0.29			
1 60cm	24.08	9.23	.0053		0.55		
2 60cm	18.52	7.45	.0022		0.30		
3 60cm	21.46	8.47	.0036		0.42		
4 60cm	19.29	7.15	.0024		0.29		
ROSE ATOLL							
Surface	18.23	0.36	.0016	.088			
1 ²	16.63	0.09	.0029	.17			
1 ³	15.61	0.21	.0024	.15	.14		
1 ⁴	17.85	0.28	.0024	.13			
1 ⁵	18.47	0.24	.0029	.16			
Bottom 1 ¹	14.58	0.19	.0020		10.5		
1 ²	18.15	0.10	.0027		27.0		
1 ³	16.95	0.21	.0026		12.4	← highest \bar{x} of set your samples	
1 ⁴	15.85	0.32	.0025		7.8		
1 ⁵	17.17	0.33	.0022		6.7		
Surface 2	15.97	0.11	.0014	.088			
2 ²	14.64	0.13	.0013	.089			
2 ³	15.74	0.19	.0011	.070	.073		
2 ⁴	16.46	0.25	.0009	.055			
2 ⁵	14.38	0.65	.0009	.062			
Bottom 2 ¹	13.85	0.42	.0018		4.3		
2 ²	10.30	0.60	.0036		6.0		
2 ³	10.44	0.56	.0027		4.8	7.24	
2 ⁴	13.23	0.25	.0038		15.2		
2 ⁵	13.82	0.68	.0040		5.9		

ROSE
ATOLL
CONT.

dry wt sand vol. sand mass. weight of salt sp. gr. of salt \bar{x} sal. in. of sand \bar{x}

Notes

	dry wt sand	vol. sand mass.	weight of salt	sp. gr. of salt	\bar{x}	sal. in. of sand	\bar{x}	Notes
Surface 3 ¹	12.02	0.1	.002	.17				
3 ²	14.34	0.28	.0022	.15				
3 ³	14.98	0.39	.0016	.11	.13			
3 ⁴	13.46	0.81	.0013	.10				
Bottom 3 ¹	16.84	0.64	.0011			1.7		
3 ²	17.55	0.72	.0014			1.9		
3 ³	19.24	0.18	.0014			7.8	3.5	
3 ⁴	15.09	0.33	.0016			4.8		
3 ⁵	17.04	1.04	.0014			1.3		
Surface 4 ¹	14.41	.02	.009	.062				
4 ²	14.45	.18	.013	.09				
4 ³	11.3	.53	.0014	.12	.09			
4 ⁴	12.72	0.1	.0014	.11				
4 ⁵	13.51	.72	.0009	.067				
Bottom 4 ¹	14.71	.52	.0007			1.3		
4 ²	15.37	.53	.007			1.3	1.2	
4 ³	13.56	3.1	.0007			1.23		← moisture content 110% above
4 ⁴	15.85	.55	.0007			1.3		
4 ⁵	14.59	.47	.0009			1.9		
Surface 5 ¹	13.31	.6	.0007	.053				
5 ²	12.37	.14	.0009	.073				
5 ³	14.49	1.16	.0005	.035	.048			
5 ⁴	14.77	.11	.0005	.034				
5 ⁵	16.09	.18	.0007	.044				
Bottom 5 ¹	14.99	1.07	.0007			0.65		
5 ²	15.29	.74	.0007			0.95		
5 ³	16.08	.13	.0007			5.3	1.75	
5 ⁴	15.2	.57	.0007			1.2		
5 ⁵	14.75	.75	.0005			.67		