

2008-01 pH

Duplicate analysis for samples drawn from a single Niskin bottle:

Event Number	Sample Number	Station	Pressure dbar	pH 1	pH 2	pH 3	Difference	Absolute Difference	Standard deviation	Comments
12	61	P4	1299.1	7.3477	7.3318		0.0159			
24	131	P12	1500.6	7.3491	7.3516		-0.0025	0.0025		
24	140	P12	200.0	7.3001	7.3018		-0.0017	0.0017		
24	149	P12	5.7	7.7969	7.7924		0.0045			Unstable blanks
35	216	P16	3672.0	7.5264	7.5256		0.0008	0.0008		
35	230	P16	200.8	7.2983	7.2974		0.0008	0.0008		
35	239	P16	5.8	7.7754	7.7648		0.0106			Unstable blanks
40	270	P20	2501.5	7.4464	7.4484		-0.0020	0.0020		
40	280	P20	201.4	7.2982	7.2973		0.0009	0.0009		
40	289	P20	7.4	7.7697	7.7738		-0.0042	0.0042		
46	330	P26	3498.6	7.5409	7.5402		0.0007	0.0007		
46	342	P26	200.7	7.3222	7.3102		0.0120			Unstable blanks
55	394	Calib	1501.4	7.3329	7.3361	7.3331			0.0018	Only 2-hour samples used
average variability:							0.0030	0.0017		
standard deviation of variability:							0.0064	0.0011		

Duplicate Niskins at the same pressure

Event Number	Sample Number	Station	Nominal Pressure dbar	pH 1	pH 2	pH 3	pH 4	pH 5	Difference	Absolute Difference	Standard deviation	Comments
24	131 / 132	P12	1500	7.35037	7.35173				-0.00136	0.00136		
40	269 / 270	P20	2500	7.44742	7.44738				0.00004	0.00004		
average variability:										0.00070		

Precision estimate: 0.0017