

2007-15 Dissolved Inorganic Carbon

Duplicate analysis for samples drawn from a single Niskin bottle:

Event Number	Sample Number	Station	Pressure dbar	DIC 1 μmol/kg	DIC 2 μmol/kg	DIC 3 μmol/kg	Difference μmol/kg	Absolute Difference	Standard deviation	Comments
19	124	P12	3001.0	2357.33	2356.78		0.55	0.55		
27	183	P16	2500.0	2372.18	2371.79		0.40	0.40		
37	270	P20	2500.2	2370.10	2370.61		-0.51	0.51		
48	329	P26	3498.0	2341.62	2342.28		-0.66	0.66		
58	412	P49	3000.3	2352.37	2351.09	2351.87			0.64	
58	413	P49	2999.7	2353.13	2352.38	2352.33			0.45	
58	414	P49	2998.9	2352.35	2353.40	2353.31			0.58	
58	415	P49	2998.7	2354.25	2352.78	2353.45			0.73	
58	416	P49	2999.1	2353.39	2352.64	2354.94			1.18	
average variability:							-0.06			0.63
standard deviation of variability:							0.62			0.23

Duplicate Niskins at the same pressure

Event Number	Sample Number	Station	Nominal Pressure dbar	DIC A μmol/kg	DIC B μmol/kg	DIC C μmol/kg	DIC D μmol/kg	DIC E μmol/kg	Difference μmol/kg	Absolute Difference	Standard deviation	Comments
10	76 / 77	P4	1000	2377.58	2376.82				-0.76	0.76		
19	124 / 125	P12	3000	2357.06	2356.17				-0.89	0.89		
27	182 / 183	P16	2500	2371.88	2371.98				0.11	0.11		
37	270 / 271	P20	2500	2370.36	2370.09				-0.26	0.26		
58	412 - 416	P49	3000	2351.78	2352.61	2353.02	2353.49	2353.66			0.75	
average variability:									-0.45			0.55
standard deviation of variability:									0.46			0.34

Precision estimate: 0.63 μmol/kg