2008-27 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
11	28	P4	1248.7	2381.9	2381.7		-0.18	0.18		
38	193	P12	2999.8	2366.5	2367.2		0.67	0.67		
53	310	P16	3001.5	2360.2	2360.6		0.49	0.49		
63	364	P20	3001.4	2367.6	2367.1		-0.46	0.46		
72	429	P26	3500.2	2354.0	2354.3		0.24	0.24		
91	553	P25	1999.7	2390.6	2390.3		-0.28	0.28		
91	554	P25	2000.3	2391.1	2391.0		-0.17	0.17		
91	555	P25	2000.2	2391.5	2390.6		-0.90	0.90		
91	556	P25	1999.6	2390.8	2391.5		0.65	0.65		
91	557	P25	1998.6	2386.9	2387.1		0.19	0.19		
average variability:							0.02	0.42		
standard deviation of variability:							0.51	0.25		

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
11	27 / 28	P4	1250	2382.4	2381.7				-0.66	0.66		
38	192 / 193	P12	3000	2367.5	2366.9				-0.57	0.57		
53	310 / 311	P16	3000	2360.4	2359.5				-0.85	0.85		
63	364 / 365	P20	3000	2367.3	2367.8				0.46	0.46		
91	553 - 557	P25	2000	2390.5	2391.0	2391.0	2391.2	2387.0			1.78	
average variability:									-0.41	0.87		
standard deviation of variability:									0.59	0.53		

Precision estimate: 0.87 µmol/kg