2009-03 Chlorophyll precision

Precision statement for replicate samples drawn from a single Niskin bottle:

The pooled standard deviation for Chlorophyll:Extracted:Bottle for the range 0.305 to 1.264 mg/m 3 was 0.024, k = 7 (0 outlier removed) where k is the number of pairs of duplicates.

Pooled standard deviation of pairs of samples (Sp) was calculated by:

 $Sp = SQRT\{sum (d*d)/2k\}$

where k = number of pairs and d = difference between pairs

Duplicate samples from a single Niskin bottle

Sample Number	Station	Pressure dbar	Chlorophyll 1 mg/m^3	Chlorophyll 2 mg/m^3	Rejected yes / no	Comment
19	P2	24.5	0.331	0.305		
45	P4	15.5	1.193	1.264		
142	P8	25.8	0.455	0.467		
236	P12	9.4	0.396	0.390		
273	P16	2.1	0.425	0.454		
342	P20	10.8	0.393	0.372		
445	P26	11.2	0.397	0.368		
	Number 19 45 142 236 273 342	Number 19	Number dbar 19 P2 24.5 45 P4 15.5 142 P8 25.8 236 P12 9.4 273 P16 2.1 342 P20 10.8	Number dbar mg/m^3 19 P2 24.5 0.331 45 P4 15.5 1.193 142 P8 25.8 0.455 236 P12 9.4 0.396 273 P16 2.1 0.425 342 P20 10.8 0.393	Number dbar mg/m^3 mg/m^3 19 P2 24.5 0.331 0.305 45 P4 15.5 1.193 1.264 142 P8 25.8 0.455 0.467 236 P12 9.4 0.396 0.390 273 P16 2.1 0.425 0.454 342 P20 10.8 0.393 0.372	Number dbar mg/m^3 mg/m^3 yes / no 19 P2 24.5 0.331 0.305 45 P4 15.5 1.193 1.264 142 P8 25.8 0.455 0.467 236 P12 9.4 0.396 0.390 273 P16 2.1 0.425 0.454 342 P20 10.8 0.393 0.372