

2009-09 Chlorophyll precision

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

The pooled standard deviation for Chlorophyll:Extracted:Bottle for the range 0.369 to 1.226 mg/m³ was 0.030,
k = 8 (0 outlier removed) where k is the number of pairs of duplicates.

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

$$Sp = \sqrt{\sum (d^2) / 2k}$$

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

Duplicate samples from a single Niskin bottle

Event Number	Sample Number	Station	Pressure dbar	Chlorophyll 1 mg/m ³	Chlorophyll 2 mg/m ³	Rejected yes / no	Comment
1	8	Si03	50.3	1.226	1.121		
3	20	P2	52.1	0.534	0.552		
10	58	P4	30.6	0.892	0.832		
20	147	P8	10.2	0.439	0.452		
31	190	P12	15.7	0.369	0.380		
39	252	P16	20.8	0.388	0.372		
56	355	P20	25.4	0.685	0.679		
75	485	P26	50.9	0.405	0.433		