

2009-09 Salinity Duplicates

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

The pooled standard deviation for Salinity: Bottle for the range 33.3575 to 34.6849 was 0.0018,
k = 6 (1 outlier removed) where k is the number of pairs of duplicates.

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

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

where k is the number of pairs and d is the difference between pairs.

Duplicate samples from a single Niskin bottle

Event Number	Sample Number	Station	Pressure dbar	Salinity 1	Salinity 2	Rejected yes / no	Comment
3	14	P2	100.3	33.3611	33.3575		
11	70	P4	999.3	34.3712	34.3756		
20	131	P8	1250.7	34.4715	34.4601	yes	Duplicates differ by >0.01
25	155	P12	2998.5	34.6463	34.6467		
43	277	P16	3501.4	34.6665	34.6675		
58	366	P20	3501.3	34.6699	34.6709		
71	435	P26	4000.6	34.6849	34.6831		