

## 2013-018 DMS duplicates

Variability is assessed as the Relative % Difference.

No duplicates were rejected during this cruise.

See 2013-018\_DMS\_report.pdf for further details.

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

The pooled standard deviation for Dimethyl\_Sulphide: Bottle for the range 0.94 to 37.12 nmol/l was 4.119, k = 6 (0 outlier removed) where k is the number of pairs of duplicates.

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

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

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	DMS 1 nmol/l	DMS 2 nmol/l	Relative % Difference	Rejected yes / no
3	17	P2	19.9	2.16	1.58	31.0	
7	59	P4	19.9	0.94	1.16	21.0	
29	183	P12	20.2	22.89	37.12	47.4	
44	338	P16	20.1	15.48	15.49	0.1	
60	442	P20	19.8	10.05	9.27	8.1	
77	524	P26	18.5	7.86	8.11	3.1	