

## 2008-01 DMS duplicates

Variability is assessed as the Relative % Difference.

No duplicates were rejected during this cruise.

See 2008-01\_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 0.32 to 0.52 nmol/l was 0.06,  $k = 5$  (0 outlier removed) where  $k$  is the number of pairs of duplicates.

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

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

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	DMS 1 nmol/l	DMS 2 nmol/l	Relative % Difference	Rejected Comments yes / no
6	38	P4	21.5	0.52	0.34	41.9	
27	162	P12	20.1	0.44	0.52	16.7	
31	191	P16	20.1	0.34	0.32	6.1	
37	257	P20	20.0	0.40	0.38	5.1	
45	317	P26	20.6	0.34	0.37	8.5	