

2008-27 DMS duplicates

Variability is assessed as the Relative % Difference.

No duplicates were rejected during this cruise.

See 2008-27_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 2.64 to 28.89 nmol/l was 0.50, $k = 5$ (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 yes / no	Comments
13	60	P4	20.5	2.64	3.10	16.1		
39	229	P12	20.3	27.61	28.89	4.6		
50	259	P16	20.7	8.33	8.69	4.2		
62	354	P20	19.7	11.58	12.23	5.4		
86	540	P26	19.8	7.06	7.36	4.2		