

2011-26 DMS duplicates

Variability is assessed as the Relative % Difference.

No duplicates were rejected during this cruise.

See 2011-26_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 0.71 to 2.35 nmol/l was 0.077,
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:

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

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
2	10	P2	14.5	0.83	0.91	9.2	
16	157	P4	20.1	0.76	0.71	6.8	
25	207	P12	20.9	1.31	1.10	17.4	
48	386	P16	19.5	1.94	1.89	2.6	
60	463	P20	20.1	2.35	2.24	4.8	
84	663	P26	20.5	1.33	1.27	4.6	