

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1348
 CALIBRATION DATE: 19-Jun-08p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4639

Voffset = -0.5087

Tau20 = 1.62

A = -1.8744e-003

B = 2.2962e-004

C = -4.6079e-006

E nominal = 0.036

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.26	12.00	0.01	0.868	1.26	0.00
1.26	2.00	0.00	0.791	1.26	0.00
1.27	6.00	0.00	0.823	1.26	-0.00
1.27	20.00	0.01	0.933	1.27	0.00
1.27	26.00	0.01	0.980	1.27	-0.00
1.29	30.00	0.01	1.021	1.29	-0.00
4.16	20.00	0.01	1.895	4.16	0.00
4.16	12.00	0.01	1.695	4.16	-0.00
4.17	26.00	0.01	2.052	4.17	-0.00
4.17	6.00	0.00	1.544	4.17	-0.00
4.17	2.00	0.00	1.440	4.17	-0.00
4.18	30.00	0.01	2.170	4.18	-0.00
6.52	30.00	0.01	3.102	6.53	0.00
6.61	20.00	0.01	2.712	6.62	0.00
6.62	26.00	0.01	2.959	6.62	-0.01
6.65	12.00	0.01	2.405	6.65	0.00
6.67	2.00	0.00	1.999	6.67	0.00
6.68	6.00	0.00	2.168	6.68	-0.00

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * OxSol(T,S) * exp(E * P / K)

V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

