

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1339
CALIBRATION DATE: 27-Feb-08p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4242

Boc = 0.0000

Voffset = -0.4793

TCor = 0.0019

PCor = 1.350e-04

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.24	6.00	0.00	0.812	1.24	0.01
1.24	2.46	0.00	0.784	1.24	-0.00
1.25	12.00	0.00	0.864	1.26	0.01
1.27	20.00	0.00	0.938	1.29	0.01
1.28	26.00	0.00	0.991	1.29	0.02
1.28	30.00	0.00	1.026	1.30	0.02
4.20	2.82	0.00	1.512	4.16	-0.04
4.21	6.00	0.00	1.598	4.18	-0.03
4.22	12.00	0.00	1.764	4.20	-0.01
4.23	26.00	0.00	2.152	4.23	-0.00
4.23	30.00	0.00	2.266	4.24	0.01
4.24	20.00	0.00	1.989	4.23	-0.01
6.74	30.00	0.00	3.324	6.75	0.01
6.89	26.00	0.00	3.203	6.88	-0.01
6.93	20.00	0.00	2.949	6.92	-0.01
6.96	12.00	0.00	2.610	6.97	0.01
6.97	6.00	0.00	2.353	7.00	0.03
6.98	3.08	0.00	2.224	6.99	0.02

oxygen (ml/l) = (Soc * (V + Voffset)) * exp(Tcor * T) * Oxsat(T,S) * exp(PCor * P)

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

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

Date, Delta Ox (ml/l)

● 27-Feb-08p 0.01

