

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0730
 CALIBRATION DATE: 11-Aug-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4054

Boc = 0.0000

Voffset = -0.5065

TCor = 0.0007

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	2.00	0.00	0.820	1.23	-0.00
1.24	6.00	0.00	0.858	1.24	0.01
1.25	12.00	0.01	0.913	1.25	0.01
1.25	20.00	0.01	0.985	1.25	-0.00
1.26	26.00	0.01	1.041	1.25	-0.01
1.27	30.00	0.01	1.090	1.27	-0.00
4.13	26.00	0.01	2.268	4.11	-0.02
4.14	12.00	0.01	1.860	4.17	0.03
4.15	6.00	0.00	1.682	4.16	0.02
4.15	20.00	0.01	2.096	4.15	-0.00
4.16	2.00	0.00	1.561	4.14	-0.02
4.18	30.00	0.01	2.423	4.18	0.00
6.56	26.00	0.01	3.306	6.54	-0.02
6.57	20.00	0.01	3.024	6.57	-0.00
6.59	12.00	0.01	2.659	6.63	0.03
6.60	6.00	0.00	2.374	6.61	0.02
6.62	2.00	0.00	2.183	6.58	-0.04
7.07	30.00	0.01	3.746	7.07	0.00

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

