

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0154
 CALIBRATION DATE: 31-Aug-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4340

Boc = 0.0000

Voffset = -0.5045

TCor = -0.0002

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)
1.30	6.00	0.00	0.851	1.31	0.01
1.31	2.00	0.00	0.816	1.30	-0.00
1.31	12.00	0.00	0.907	1.31	0.00
1.32	20.00	0.00	0.983	1.31	-0.00
1.32	30.00	0.00	1.087	1.33	0.01
1.33	26.00	0.00	1.048	1.33	-0.00
4.33	30.00	0.00	2.414	4.35	0.02
4.36	2.00	0.00	1.540	4.34	-0.02
4.37	12.00	0.00	1.847	4.38	0.00
4.38	6.00	0.00	1.666	4.38	0.00
4.40	26.00	0.00	2.297	4.39	-0.01
4.40	20.00	0.00	2.099	4.38	-0.02
6.99	30.00	0.00	3.579	7.01	0.02
7.15	20.00	0.00	3.099	7.13	-0.02
7.15	26.00	0.00	3.423	7.14	-0.01
7.17	2.00	0.00	2.212	7.16	-0.01
7.18	12.00	0.00	2.708	7.19	0.01
7.19	6.00	0.00	2.414	7.21	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

