

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0140

SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 08-Jul-05p

COEFFICIENTS

Soc = 0.5039

TCor = -0.0043

Boc = 0.0000

PCor = 1.350e-04

Voffset = -0.6204

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.20	12.00	0.01	0.957	1.21	0.01
1.22	6.00	0.00	0.908	1.23	0.01
1.22	2.00	0.00	0.873	1.22	-0.00
1.25	20.00	0.01	1.047	1.25	0.01
1.30	30.00	0.01	1.173	1.29	-0.01
1.31	26.00	0.01	1.134	1.31	0.00
4.15	12.00	0.01	1.775	4.16	0.02
4.16	2.00	0.00	1.476	4.13	-0.03
4.16	6.00	0.00	1.595	4.17	0.00
4.16	20.00	0.01	2.043	4.18	0.02
4.18	30.00	0.01	2.402	4.16	-0.02
4.19	26.00	0.01	2.264	4.19	0.00
6.83	20.00	0.01	2.954	6.85	0.02
6.88	12.00	0.01	2.539	6.92	0.04
6.89	2.00	0.00	2.040	6.86	-0.04
6.90	6.00	0.00	2.238	6.91	0.01
6.96	30.00	0.01	3.586	6.93	-0.03
7.14	26.00	0.01	3.422	7.15	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

