

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA
 Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0820
 CALIBRATION DATE: 29-Jul-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3037

Boc = 0.0000

Voffset = -0.4990

TCor = 0.0022

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)
1.26	20.00	0.01	1.127	1.26	0.01
1.28	12.00	0.01	1.047	1.29	0.01
1.29	26.00	0.01	1.211	1.30	0.00
1.31	30.00	0.01	1.264	1.31	-0.00
1.31	6.00	0.00	0.988	1.31	-0.00
4.12	20.00	0.01	2.556	4.14	0.02
4.13	30.00	0.01	2.904	4.11	-0.01
4.14	26.00	0.01	2.777	4.15	0.00
4.16	12.01	0.01	2.275	4.17	0.01
4.20	6.00	0.00	2.059	4.18	-0.02
6.74	12.03	0.01	3.383	6.77	0.02
6.77	6.00	0.00	3.016	6.74	-0.03
6.80	20.00	0.01	3.894	6.84	0.04
6.92	30.00	0.01	4.531	6.89	-0.02
6.94	26.00	0.01	4.306	6.93	-0.01

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

