

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: 0794
 CALIBRATION DATE: 06-Nov-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3612

Boc = 0.0000

Voffset = -0.4865

TCor = 0.0004

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	20.00	0.01	1.022	1.24	-0.00
1.24	2.00	0.00	0.842	1.24	-0.00
1.25	12.00	0.01	0.942	1.25	0.00
1.25	6.00	0.00	0.885	1.25	0.00
1.25	26.00	0.01	1.091	1.25	-0.01
1.27	30.00	0.01	1.143	1.27	0.00
4.10	26.00	0.01	2.466	4.09	-0.00
4.11	20.00	0.01	2.261	4.10	-0.01
4.11	30.00	0.01	2.618	4.11	0.00
4.13	12.00	0.01	2.001	4.14	0.01
4.14	6.00	0.00	1.804	4.15	0.01
4.15	2.00	0.00	1.673	4.15	-0.01
6.58	30.00	0.01	3.900	6.59	0.01
6.61	26.00	0.01	3.677	6.60	-0.01
6.65	20.00	0.01	3.360	6.64	-0.01
6.67	12.00	0.01	2.935	6.70	0.02
6.74	6.00	0.00	2.628	6.75	0.01
6.74	2.00	0.00	2.408	6.71	-0.03

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

