

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: 0140
CALIBRATION DATE: 06-Jan-06p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3207

Boc = 0.0000

Voffset = -0.6146

TCor = 0.0019

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)
1.20	6.00	0.00	1.042	1.21	0.00
1.20	2.00	0.00	1.000	1.20	-0.00
1.22	12.00	0.01	1.111	1.23	0.01
1.24	20.00	0.01	1.202	1.24	0.00
1.26	26.00	0.01	1.275	1.26	-0.00
1.27	30.00	0.01	1.327	1.28	0.01
4.13	2.00	0.00	1.935	4.11	-0.02
4.13	6.00	0.00	2.078	4.13	0.00
4.14	20.00	0.01	2.571	4.14	-0.00
4.14	12.00	0.01	2.293	4.15	0.00
4.18	30.00	0.01	2.954	4.19	0.00
4.21	26.00	0.01	2.820	4.21	-0.01
6.78	30.00	0.01	4.404	6.78	-0.00
6.83	20.00	0.01	3.843	6.83	-0.00
6.84	26.00	0.01	4.197	6.83	-0.01
6.86	12.00	0.01	3.398	6.88	0.02
6.86	2.00	0.00	2.815	6.85	-0.01
6.86	6.00	0.00	3.049	6.87	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

Date, Delta Ox (ml/l)

