

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: 0154
CALIBRATION DATE: 27-Jul-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3986

Boc = 0.0000

Voffset = -0.5096

TCor = 0.0009

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	20.00	0.01	1.016	1.31	0.00
1.31	26.00	0.01	1.078	1.31	0.00
1.33	12.00	0.01	0.949	1.33	0.01
1.33	2.00	0.00	0.853	1.33	-0.00
1.33	30.00	0.01	1.126	1.33	0.00
1.33	6.00	0.00	0.893	1.34	0.00
4.13	20.00	0.01	2.111	4.13	0.00
4.15	26.00	0.01	2.305	4.15	-0.00
4.17	12.00	0.01	1.888	4.18	0.01
4.18	30.00	0.01	2.444	4.18	-0.00
4.19	6.00	0.00	1.711	4.19	0.00
4.23	2.00	0.00	1.600	4.21	-0.02
6.84	6.00	0.00	2.473	6.85	0.01
6.84	12.02	0.01	2.773	6.87	0.03
6.90	2.00	0.00	2.291	6.88	-0.02
6.93	30.00	0.01	3.716	6.92	-0.01
6.97	26.00	0.01	3.521	6.96	-0.01
6.98	20.00	0.01	3.223	6.99	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

