

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: 0680
CALIBRATION DATE: 23-Jun-04p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3385

Boc = 0.0000

Voffset = -0.4841

TCor = 0.0010

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)
1.52	25.00	0.01	1.240	1.51	-0.00
1.93	5.00	0.00	1.120	1.93	0.00
2.23	25.00	0.01	1.599	2.23	-0.00
2.70	5.00	0.00	1.374	2.70	0.00
2.99	25.00	0.01	1.975	2.99	0.00
3.52	5.00	0.00	1.642	3.52	-0.00
4.77	25.00	0.01	2.859	4.76	-0.01
5.49	5.00	0.00	2.290	5.49	0.00
7.07	5.00	0.00	2.810	7.07	-0.00
7.40	25.00	0.01	4.180	7.41	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

