

SEA-BIRD ELECTRONICS, INC.

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

SENSOR SERIAL NUMBER = 0140
CALIBRATION DATE: 17-Dec-01w

SBE 43
OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.2971
Boc = 0.0000
Voffset = -0.5821

TCor = 0.0009
PCor = 1.350e-04

BATH OX ml/l	BATH TEMP (ITS-90 °C)	BATH SAL PSU	INSTRUMENT VOLTS	INST OX ml/l	RESIDUAL ml/l
1.16	25.00	0.03	1.235	1.14	-0.02
1.20	5.00	0.04	1.026	1.18	-0.02
1.89	25.00	0.03	1.663	1.89	0.00
1.90	5.00	0.04	1.307	1.93	0.03
2.67	25.00	0.03	2.106	2.67	0.00
4.19	5.00	0.04	2.154	4.19	-0.00
4.19	25.00	0.03	2.979	4.20	0.01
5.61	25.00	0.03	3.781	5.61	-0.00
6.53	5.00	0.04	3.032	6.53	-0.00

V = voltage output from SBE-43

T = ocean temperature [°C] from CTD

S = ocean salinity [PSU] from CTD

P = ocean pressure [dbar] from CTD

Oxsat(T, S) = oxygen saturation [ml/l]

oxygen (ml/l) = (Soc * (V + Voffset)) * exp(Tcor * T) * Oxsat(T, S) * exp(PCor * P)

Residual = instrument oxygen - bath oxygen

