

# 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: 0197  
CALIBRATION DATE: 11-Dec-01w

SBE 43 OXYGEN CALIBRATION DATA

## COEFFICIENTS

Soc = 0.4477

Boc = 0.0000

Voffset = -0.4900

TCor = 0.0078

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)
1.51	25.00	0.03	0.972	1.51	0.00
1.55	5.00	0.04	0.864	1.55	0.00
2.62	25.00	0.03	1.321	2.61	-0.01
3.70	25.00	0.03	1.666	3.70	-0.00
3.75	5.02	0.04	1.394	3.75	0.00
5.88	25.00	0.03	2.362	5.88	0.00
5.93	5.04	0.04	1.918	5.93	0.00
7.77	25.00	0.03	2.965	7.77	0.00
8.91	5.00	0.04	2.634	8.91	-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

Date, Delta Ox (ml/l)

