

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0197  
CALIBRATION DATE: 14-Mar-02r

SBE 43 OXYGEN CALIBRATION DATA

## COEFFICIENTS

Soc = 0.4473

Boc = 0.0000

Voffset = -0.4814

TCor = 0.0020

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)
1.07	5.00	0.04	0.746	1.06	-0.01
1.14	25.00	0.03	0.902	1.14	0.00
2.04	5.00	0.04	0.986	2.03	-0.00
2.12	25.00	0.03	1.262	2.12	0.00
3.02	5.00	0.04	1.232	3.03	0.00
3.12	25.00	0.03	1.631	3.12	0.00
5.01	5.00	0.04	1.723	5.01	-0.00
5.13	25.00	0.03	2.374	5.14	0.01
6.74	25.00	0.03	2.961	6.73	-0.01
7.88	5.00	0.04	2.435	7.88	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

