

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0197  
CALIBRATION DATE: 22-Dec-03p

SBE 43 OXYGEN CALIBRATION DATA

## COEFFICIENTS

Soc = 0.4624

Boc = 0.0000

Voffset = -0.5046

TCor = 0.0030

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)
1.69	25.00	0.01	1.091	1.69	0.00
1.90	5.00	0.00	0.957	1.90	-0.00
2.52	25.00	0.01	1.380	2.52	0.00
2.77	5.00	0.00	1.166	2.77	0.00
3.39	25.00	0.01	1.683	3.39	0.00
3.64	5.00	0.00	1.374	3.64	-0.00
5.11	25.00	0.01	2.279	5.11	-0.00
5.36	5.00	0.00	1.786	5.37	0.01
6.61	5.00	0.00	2.081	6.61	-0.00
6.99	25.00	0.01	2.933	6.99	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

