

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0185  
CALIBRATION DATE: 21-Aug-03p

SBE 43 OXYGEN CALIBRATION DATA

## COEFFICIENTS

Soc = 0.3024

Boc = 0.0000

Voffset = -0.6804

TCor = 0.0017

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	0.03	1.610	1.69	0.00
1.83	5.00	0.04	1.355	1.84	0.00
2.57	25.00	0.03	2.090	2.56	-0.00
2.72	5.00	0.04	1.680	2.72	-0.00
3.45	25.00	0.03	2.578	3.45	-0.00
3.60	5.00	0.04	2.000	3.59	-0.00
5.21	25.00	0.03	3.549	5.22	0.01
5.40	5.00	0.04	2.662	5.39	-0.00
6.90	5.05	0.04	3.220	6.91	0.01
7.06	25.00	0.03	4.561	7.06	-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

