

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0140  
 CALIBRATION DATE: 08-Jul-04p

## SBE 43 OXYGEN CALIBRATION DATA

### COEFFICIENTS

Soc = 0.3503

Boc = 0.0000

Voffset = -0.6205

TCor = -0.0002

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)
1.65	25.00	0.01	1.438	1.64	-0.00
2.09	5.00	0.00	1.291	2.09	0.01
2.37	25.00	0.01	1.798	2.37	-0.00
2.81	5.00	0.00	1.520	2.81	0.00
3.14	25.00	0.01	2.180	3.13	-0.00
3.64	5.00	0.00	1.785	3.64	-0.00
5.00	25.00	0.01	3.112	5.01	0.01
5.55	5.00	0.00	2.397	5.55	-0.00
6.46	25.00	0.01	3.835	6.46	0.00
7.13	5.00	0.00	2.904	7.13	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

