

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0275
CALIBRATION DATE: 19-Jun-02p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3835

Boc = 0.0000

Voffset = -0.4534

TCor = 0.0022

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)
0.94	5.00	0.04	0.724	0.94	-0.01
1.12	25.00	0.03	0.932	1.12	0.00
1.97	5.00	0.04	1.024	1.97	0.00
2.19	25.00	0.03	1.391	2.19	0.00
3.03	5.00	0.04	1.331	3.04	0.00
3.24	25.00	0.03	1.840	3.24	0.00
5.13	5.00	0.04	1.936	5.13	0.00
5.33	25.00	0.03	2.738	5.33	0.00
7.23	5.04	0.04	2.545	7.23	-0.00
7.40	25.00	0.03	3.620	7.39	-0.00

$$\text{oxygen (ml/l)} = (\text{Soc} * (\text{V} + \text{Voffset})) * \exp(\text{Tcor} * \text{T}) * \text{Oxsat}(\text{T},\text{S}) * \exp(\text{Pcor} * \text{P})$$

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)

19-Jun-02p 0.00

