

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0185
 CALIBRATION DATE: 24-Apr-02p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4424

Boc = 0.0000

Voffset = -0.4873

TCor = 0.0027

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)
0.96	5.00	0.04	0.725	0.95	-0.01
1.13	25.00	0.03	0.902	1.13	0.01
1.98	5.00	0.04	0.982	1.98	-0.00
2.16	25.00	0.03	1.281	2.17	0.01
3.01	5.00	0.04	1.239	3.01	-0.00
3.19	25.00	0.03	1.656	3.19	0.00
5.06	5.00	0.04	1.752	5.06	0.00
5.25	25.00	0.03	2.407	5.25	-0.00
7.20	25.00	0.03	3.122	7.20	-0.00
7.82	5.02	0.04	2.443	7.82	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)

24-Apr-02p 0.00

