

x NOV.

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SENSOR SERIAL NUMBER: 1345
CALIBRATION DATE: 30-Nov-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3227

Boc = 0.0000

Voffset = -0.7276

TCor = 0.0009

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)
1.24	2.00	0.00	1.127	1.25	0.01
1.24	12.00	0.01	1.235	1.25	0.00
1.25	20.00	0.01	1.325	1.25	-0.00
1.25	6.00	0.00	1.174	1.26	0.01
1.26	26.00	0.01	1.397	1.25	-0.00
1.27	30.00	0.01	1.457	1.28	0.01
4.17	20.00	0.01	2.716	4.15	-0.02
4.18	12.00	0.01	2.427	4.18	-0.00
4.18	30.00	0.01	3.123	4.19	0.01
4.19	26.00	0.01	2.955	4.17	-0.02
4.20	6.00	0.00	2.213	4.19	-0.00
4.21	2.00	0.00	2.069	4.19	-0.02
6.70	30.00	0.01	4.572	6.73	0.03
6.77	26.00	0.01	4.339	6.76	-0.01
6.80	20.00	0.01	3.973	6.78	-0.02
6.85	12.00	0.01	3.523	6.87	0.02
6.92	6.00	0.00	3.186	6.94	0.02
6.93	2.00	0.00	2.945	6.93	-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)

30-Nov-07p -0.00

