

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1329
CALIBRATION DATE: 11-Mar-10p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3853

Voffset = -0.5041

Tau20 = 1.07

A = -1.7253e-003

B = 2.0062e-004

C = -3.5362e-006

E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4 H1 = -3.30000e-2

D2 = -4.64803e-2 H2 = 5.00000e+3

H3 = 1.45000e+3

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.23	2.00	0.00	0.835	1.23	-0.00
1.25	6.00	0.01	0.877	1.25	-0.00
1.27	12.00	0.01	0.941	1.27	0.00
1.28	20.00	0.01	1.020	1.29	0.00
1.29	26.00	0.01	1.079	1.29	0.01
1.29	30.00	0.02	1.121	1.30	0.01
4.24	2.00	0.00	1.641	4.23	-0.01
4.26	6.00	0.01	1.776	4.25	-0.01
4.28	26.00	0.01	2.405	4.28	0.00
4.29	30.00	0.02	2.540	4.29	-0.00
4.29	12.00	0.01	1.975	4.28	-0.01
4.30	20.00	0.01	2.227	4.30	-0.00
6.82	30.00	0.02	3.741	6.82	-0.00
6.93	26.00	0.01	3.586	6.93	-0.00
7.01	20.00	0.01	3.314	7.01	-0.00
7.05	12.00	0.01	2.926	7.05	0.01
7.10	6.00	0.01	2.628	7.10	0.00
7.13	2.00	0.00	2.424	7.14	0.01

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * OxSol(T,S) * exp(E * P / K)

V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

