SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1329
CALIBRATION DATE: 26-Feb-11p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4191
Voffset = -0.4993
Tau20 = 1.33

A = -2.4144e-003
B = 1.0985e-004
C = -1.5952e-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)
1.28	2.00	0.01	0.815	1.28	-0.00
1.28	6.00	0.01	0.854	1.28	0.00
1.28	26.00	0.02	1.048	1.28	-0.00
1.28	20.00	0.02	0.989	1.28	-0.00
1.29	12.00	0.01	0.913	1.29	0.00
1.29	30.00	0.02	1.093	1.29	0.00
4.19	6.00	0.01	1.659	4.19	-0.00
4.19	26.00	0.02	2.291	4.19	0.00
4.20	12.00	0.01	1.848	4.19	-0.00
4.20	20.00	0.02	2.100	4.20	-0.00
4.20	30.00	0.02	2.428	4.20	0.00
4.20	2.00	0.01	1.540	4.20	-0.00
6.64	30.00	0.02	3.542	6.63	-0.01
6.65	12.00	0.01	2.638	6.65	0.00
6.66	6.00	0.01	2.345	6.66	0.00
6.67	2.00	0.01	2.151	6.67	-0.00
6.68	20.00	0.02	3.048	6.68	-0.01
6.70	26.00	0.02	3.365	6.71	0.01

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * 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