SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0463
CALIBRATION DATE: 25-Feb-11p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4836
Voffset = -0.4806
Tau20 = 1.20

A = -1.7675e-003
B = 8.0002e-005
C = -1.6304e-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	12.00	0.02	0.838	1.29	0.00
1.28	20.00	0.02	0.905	1.28	-0.00
1.28	30.00	0.02	0.997	1.29	0.00
1.29	6.00	0.01	0.790	1.29	0.00
1.29	2.00	0.01	0.757	1.29	0.00
1.29	26.00	0.02	0.960	1.29	-0.00
4.21	30.00	0.02	2.168	4.21	0.00
4.22	26.00	0.02	2.049	4.22	0.00
4.22	2.00	0.01	1.383	4.21	-0.01
4.22	20.00	0.02	1.873	4.21	-0.00
4.22	6.00	0.01	1.490	4.22	-0.00
4.22	12.00	0.02	1.653	4.22	-0.00
6.47	30.00	0.02	3.075	6.47	-0.00
6.54	26.00	0.02	2.914	6.54	0.01
6.54	12.00	0.02	2.297	6.54	0.00
6.56	6.00	0.01	2.051	6.56	0.00
6.56	20.00	0.02	2.649	6.56	-0.00
6.68	2.00	0.01	1.913	6.68	0.00

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