Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0215
CALIBRATION DATE: 16-Sep-11

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 3.0714e-004 (DI)
Foffset = -808.15
Tau20 = 1.37

A = -3.0025e-003
B = 1.7405e-004
C = -2.9396e-006
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4   H1 = -3.30000e-2
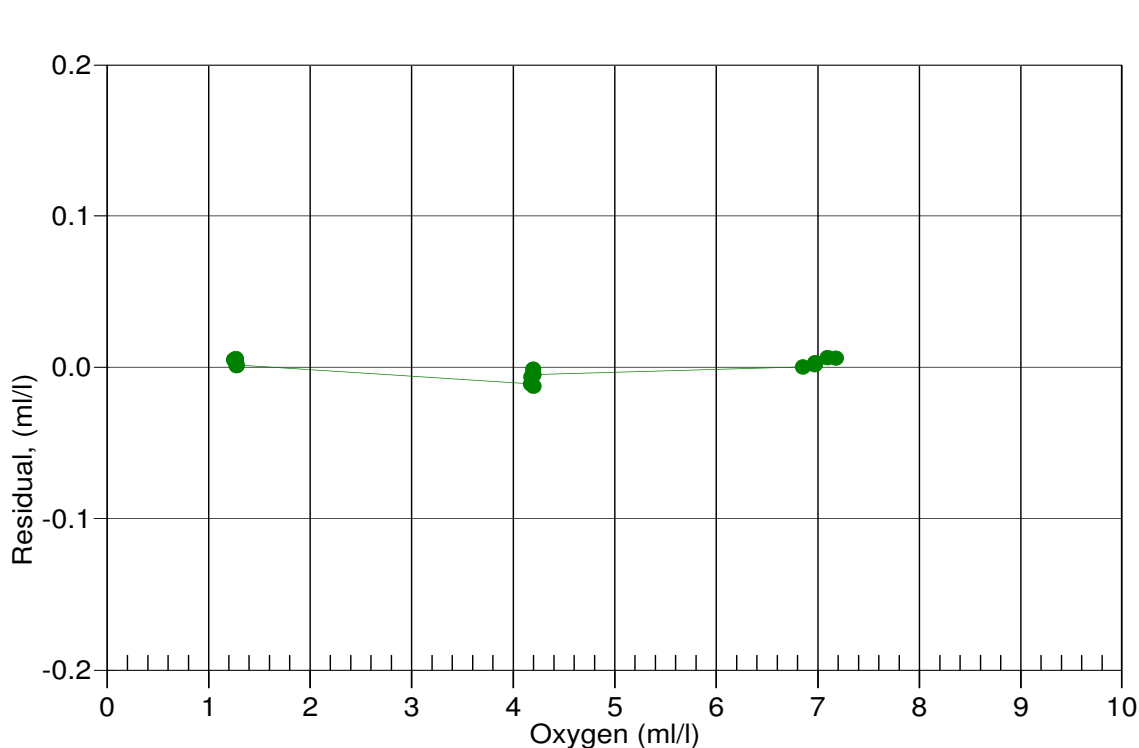D2 = -4.64803e-2   H2 = 5.00000e+3
                   H3 = 1.45000e+3

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(Hz)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.25	6.00	0.00	1283.94	1.26	0.00
1.26	12.00	0.00	1363.02	1.26	0.00
1.27	2.00	0.00	1238.01	1.27	0.01
1.27	20.00	0.00	1468.54	1.27	0.00
1.28	26.00	0.00	1549.30	1.28	0.00
1.28	30.00	0.00	1607.10	1.28	0.00
4.17	6.00	0.00	2384.06	4.16	-0.01
4.18	12.00	0.00	2639.30	4.17	-0.01
4.19	20.00	0.00	2980.80	4.19	-0.00
4.20	30.00	0.00	3424.78	4.20	-0.00
4.20	26.00	0.00	3244.21	4.20	-0.00
4.20	2.00	0.00	2224.99	4.19	-0.01
6.85	30.00	0.00	5079.73	6.85	0.00
6.97	20.00	0.00	4425.49	6.97	0.00
6.97	26.00	0.00	4857.07	6.97	0.00
6.98	12.00	0.00	3870.93	6.98	0.00
7.10	6.00	0.00	3496.71	7.10	0.01
7.18	2.00	0.00	3238.71	7.19	0.01

Oxygen (ml/l) = Soc * (F + Foffset) * (1.0 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)

F = frequency output from SBE43F, 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)

● 16-Sep-11 1.0000