

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2331
 CALIBRATION DATE: 26-Feb-13

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4554
 Voffset = -0.4917
 Tau20 = 1.93

A = -4.2547e-003
 B = 2.1250e-004
 C = -3.1449e-006
 E nominal = 0.036

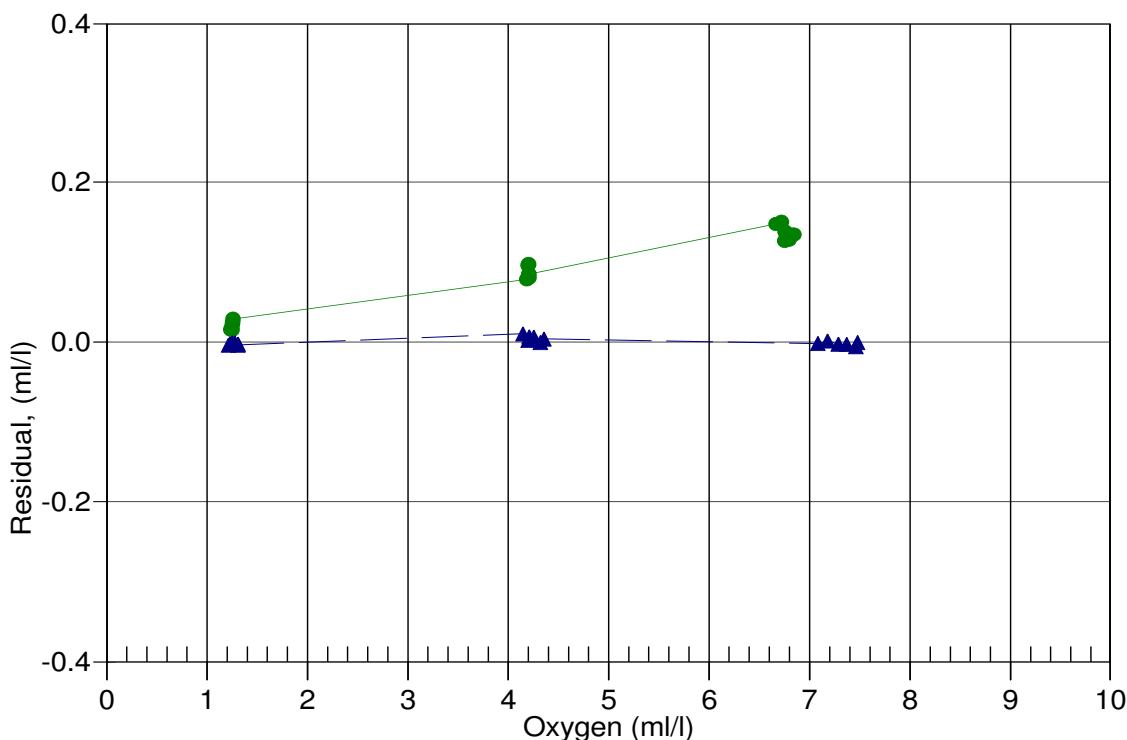
NOMINAL DYNAMIC COEFFICIENTS

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)
1.21	2.00	0.00	0.768	1.21	-0.00
1.23	6.00	0.00	0.806	1.22	-0.00
1.25	12.00	0.00	0.865	1.25	-0.00
1.27	20.00	0.00	0.942	1.27	-0.00
1.31	26.00	0.00	1.008	1.30	-0.00
1.31	30.00	0.00	1.045	1.30	-0.00
4.14	2.00	0.00	1.442	4.15	0.01
4.19	12.00	0.00	1.746	4.20	0.00
4.21	6.00	0.00	1.574	4.21	0.01
4.25	20.00	0.00	1.999	4.26	0.01
4.32	26.00	0.00	2.200	4.32	-0.00
4.35	30.00	0.00	2.340	4.36	0.00
7.08	30.00	0.00	3.495	7.08	-0.00
7.18	26.00	0.00	3.332	7.18	0.00
7.29	20.00	0.00	3.071	7.28	-0.00
7.37	12.00	0.00	2.694	7.37	-0.00
7.46	2.00	0.00	2.197	7.45	-0.01
7.48	6.00	0.00	2.412	7.47	-0.00

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

Date, Delta Ox (ml/l)



● 04-May-12 0.9802
 ▲ 26-Feb-13 1.0000