

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0910
CALIBRATION DATE: 27-Jun-12

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4174

Voffset = -0.4985

Tau20 = 1.02

A = -1.7753e-003

B = 1.9147e-004

C = -4.3268e-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

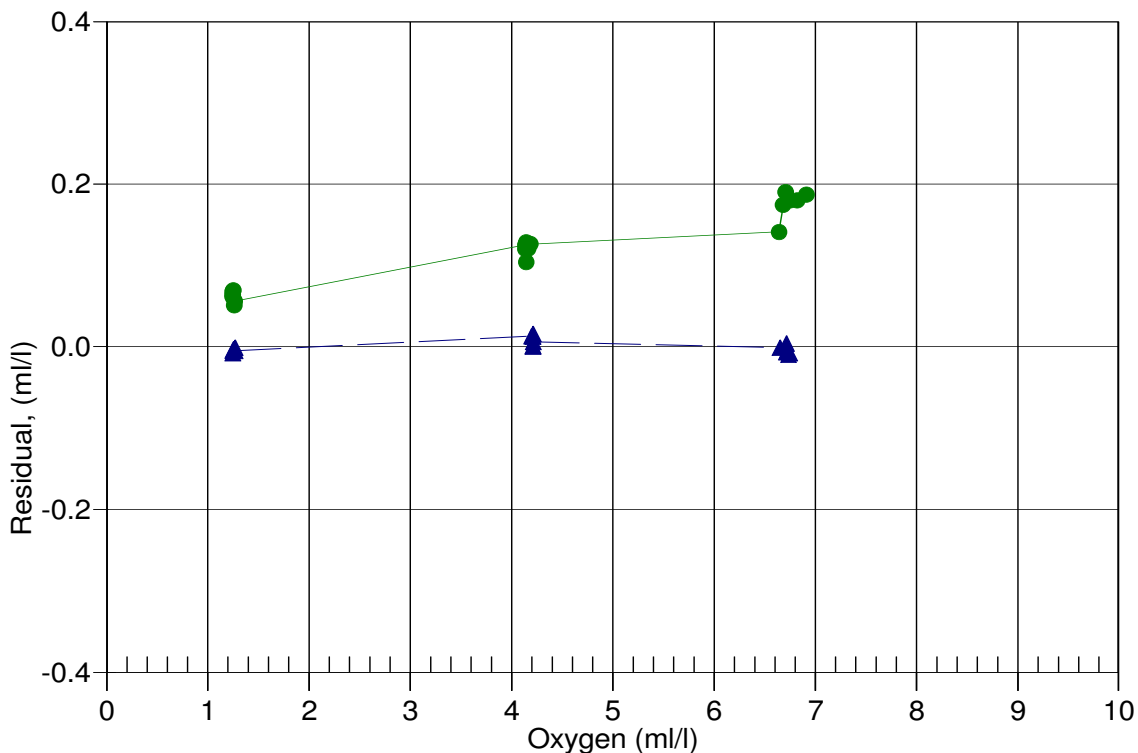
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.25	6.00	0.14	0.842	1.24	-0.00
1.25	2.00	0.16	0.807	1.24	-0.01
1.25	12.00	0.12	0.897	1.25	-0.00
1.26	26.00	0.07	1.027	1.26	-0.00
1.27	20.00	0.09	0.973	1.27	-0.00
1.27	30.00	0.07	1.069	1.26	-0.01
4.19	6.00	0.14	1.663	4.21	0.01
4.21	30.00	0.08	2.402	4.21	0.00
4.21	12.00	0.12	1.843	4.22	0.01
4.21	26.00	0.08	2.264	4.21	0.00
4.21	2.00	0.16	1.550	4.23	0.02
4.21	20.00	0.09	2.078	4.22	0.01
6.65	30.00	0.08	3.504	6.65	-0.00
6.71	26.00	0.08	3.314	6.72	0.00
6.71	20.00	0.08	3.009	6.71	-0.01
6.72	6.00	0.14	2.356	6.72	-0.00
6.73	2.00	0.16	2.169	6.72	-0.01
6.75	12.00	0.12	2.643	6.74	-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 [Kelvin]

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

Date, Delta Ox (ml/l)



14-Jan-12 0.9733
27-Jun-12 1.0000