

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1329

SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 10-May-13

COEFFICIENTS

Soc = 0.4386

Voffset = -0.5007

Tau20 = 1.50

A = -3.2464e-003

B = 1.7480e-004

C = -2.6568e-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

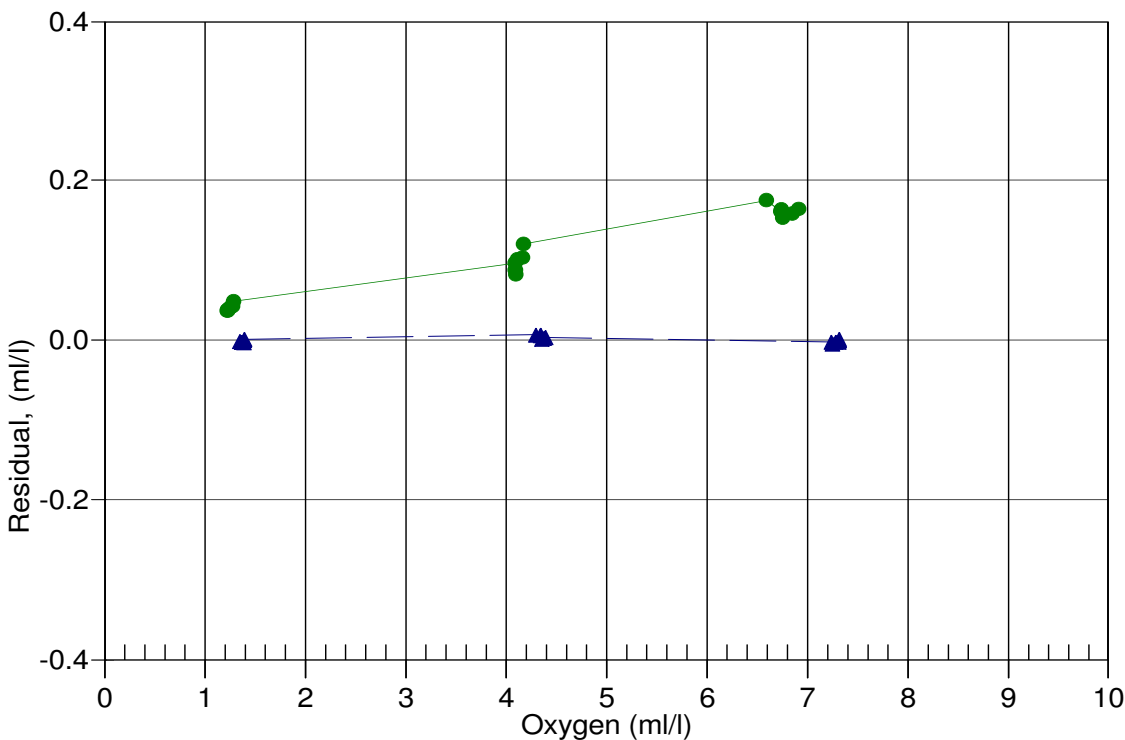
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.35	6.00	0.30	0.858	1.34	-0.00
1.36	2.00	0.33	0.823	1.36	-0.00
1.37	12.00	0.27	0.923	1.37	-0.00
1.38	20.00	0.24	1.004	1.38	-0.00
1.39	26.00	0.24	1.065	1.39	-0.00
1.39	30.00	0.23	1.107	1.39	0.00
4.29	2.00	0.33	1.521	4.30	0.01
4.34	6.00	0.30	1.656	4.34	0.01
4.34	12.00	0.27	1.841	4.35	0.01
4.35	20.00	0.24	2.088	4.35	0.00
4.38	26.00	0.24	2.284	4.38	0.00
4.39	30.00	0.23	2.420	4.39	0.00
7.23	2.00	0.33	2.218	7.23	-0.00
7.25	6.00	0.30	2.426	7.24	-0.01
7.28	20.00	0.24	3.155	7.28	-0.00
7.31	30.00	0.23	3.693	7.31	-0.00
7.31	26.00	0.24	3.481	7.31	0.00
7.32	12.00	0.27	2.757	7.31	-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)



25-Jan-12 0.9764
10-May-13 1.0000