

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2083

CALIBRATION DATE: 10-May-13

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.5572

Voffset = -0.5072

Tau20 = 1.18

A = -2.3193e-003

B = 1.0492e-004

C = -2.1190e-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

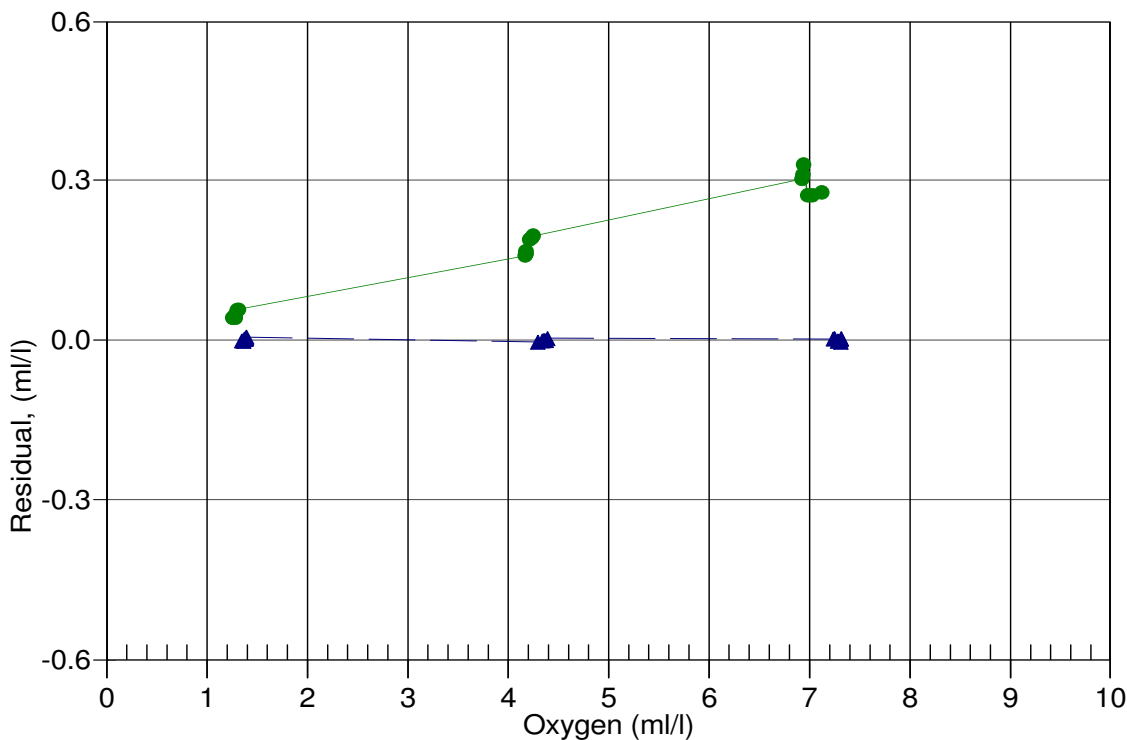
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.35	6.00	0.30	0.788	1.34	-0.00
1.36	2.00	0.33	0.761	1.36	-0.00
1.37	12.00	0.27	0.840	1.37	0.00
1.38	20.00	0.24	0.907	1.38	0.00
1.39	26.00	0.24	0.959	1.39	0.00
1.39	30.00	0.23	0.997	1.39	0.01
4.29	2.00	0.33	1.307	4.29	-0.00
4.34	6.00	0.30	1.412	4.34	-0.00
4.34	12.00	0.27	1.558	4.34	-0.00
4.35	20.00	0.24	1.763	4.35	-0.00
4.38	26.00	0.24	1.930	4.37	-0.00
4.39	30.00	0.23	2.050	4.39	0.00
7.23	2.00	0.33	1.858	7.24	0.00
7.25	6.00	0.30	2.020	7.25	0.00
7.28	20.00	0.24	2.608	7.28	-0.00
7.31	30.00	0.23	3.073	7.31	-0.00
7.31	26.00	0.24	2.887	7.32	0.00
7.32	12.00	0.27	2.281	7.32	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)



06-Mar-12 0.9598
10-May-13 1.0000