

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1875
CALIBRATION DATE: 04-Feb-14

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4733

Voffset = -0.4900

Tau20 = 1.43

A = -2.7610e-003

B = 1.7133e-004

C = -3.0756e-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

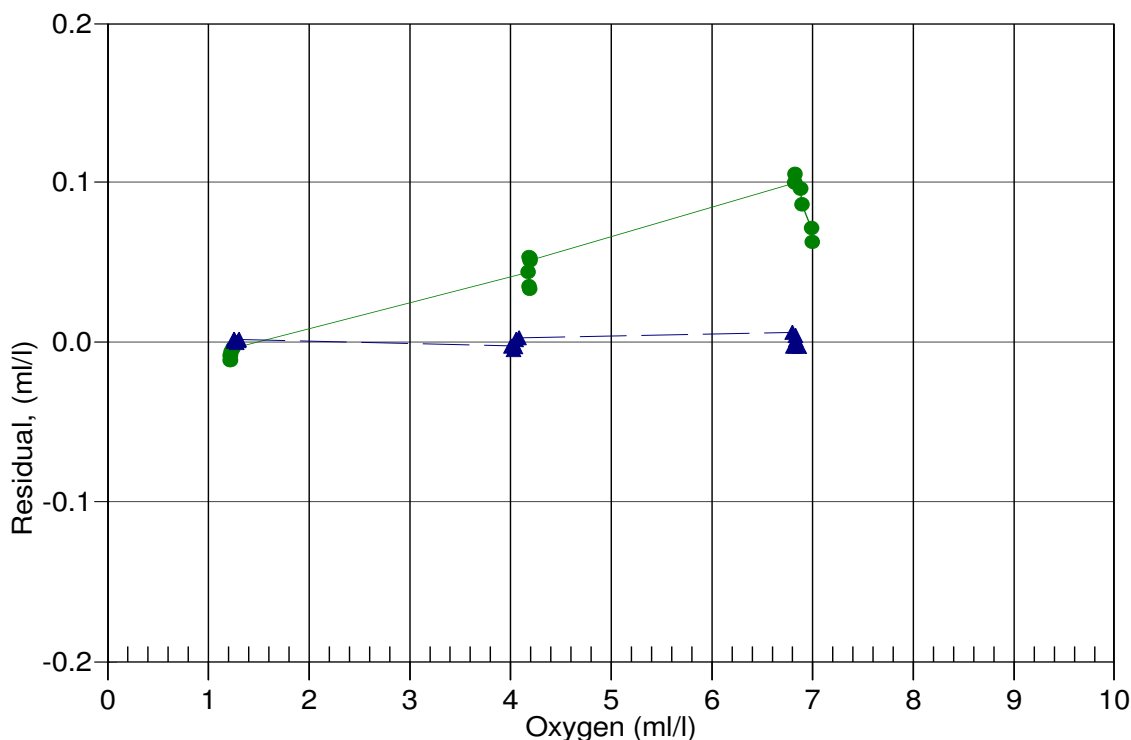
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.25	5.80	0.00	0.796	1.25	0.00
1.25	2.00	0.00	0.766	1.26	0.00
1.26	12.00	0.00	0.848	1.26	0.00
1.28	20.00	0.00	0.921	1.28	-0.00
1.30	25.99	0.00	0.977	1.30	0.00
1.30	30.00	0.00	1.017	1.30	0.00
4.00	12.00	0.00	1.627	4.00	-0.00
4.03	2.00	0.00	1.373	4.03	-0.00
4.03	20.00	0.00	1.844	4.03	-0.00
4.04	5.85	0.00	1.477	4.04	-0.00
4.05	26.00	0.00	2.015	4.06	0.00
4.08	30.00	0.00	2.141	4.09	0.00
6.80	12.00	0.00	2.423	6.80	0.01
6.81	5.88	0.00	2.153	6.80	-0.00
6.82	30.00	0.00	3.246	6.82	-0.00
6.83	2.00	0.00	1.989	6.83	0.00
6.83	26.00	0.00	3.059	6.83	0.00
6.87	20.00	0.00	2.796	6.86	-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)



12-Dec-12 0.9885
04-Feb-14 1.0000