

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1329

SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 25-Jan-12

COEFFICIENTS

Soc = 0.4300

Voffset = -0.5037

Tau20 = 1.35

A = -3.4632e-003

B = 1.8938e-004

C = -3.1033e-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

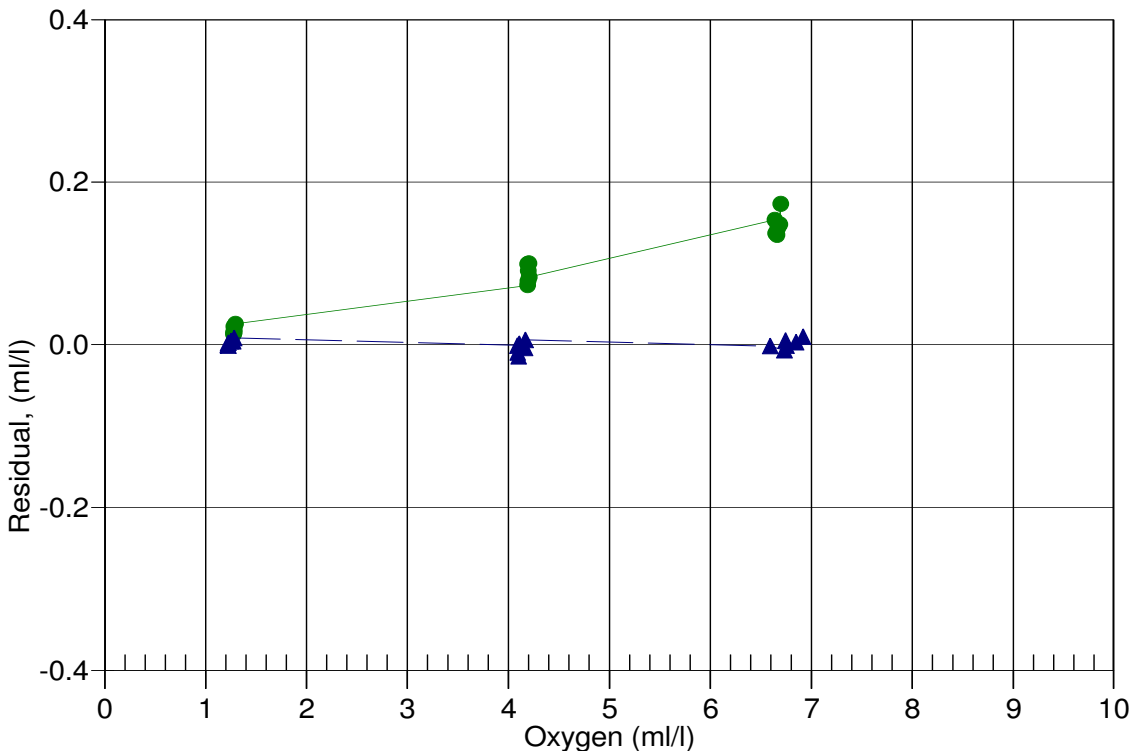
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.22	6.00	0.03	0.834	1.22	-0.00
1.23	12.00	0.03	0.890	1.23	0.00
1.23	2.00	0.03	0.800	1.22	-0.00
1.25	20.00	0.03	0.971	1.26	0.00
1.27	26.00	0.03	1.035	1.28	0.00
1.28	30.00	0.03	1.081	1.29	0.01
4.09	12.00	0.03	1.789	4.09	-0.00
4.09	6.00	0.03	1.609	4.08	-0.01
4.10	2.00	0.03	1.491	4.08	-0.01
4.11	20.00	0.03	2.034	4.11	0.00
4.16	26.00	0.03	2.236	4.16	-0.00
4.17	30.00	0.03	2.372	4.17	0.01
6.59	30.00	0.03	3.452	6.59	-0.00
6.73	26.00	0.03	3.305	6.73	-0.01
6.74	20.00	0.03	3.016	6.75	0.01
6.75	12.00	0.03	2.627	6.75	-0.00
6.85	6.00	0.03	2.360	6.85	0.00
6.91	2.00	0.03	2.178	6.92	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 [deg K]

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

Date, Delta Ox (ml/l)



26-Feb-11 0.9788
25-Jan-12 1.0000