

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1685
 CALIBRATION DATE: 06-Nov-13

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.5829
 Voffset = -0.5229
 Tau20 = 1.59

A = -2.8761e-003
 B = 1.3303e-004
 C = -2.2782e-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

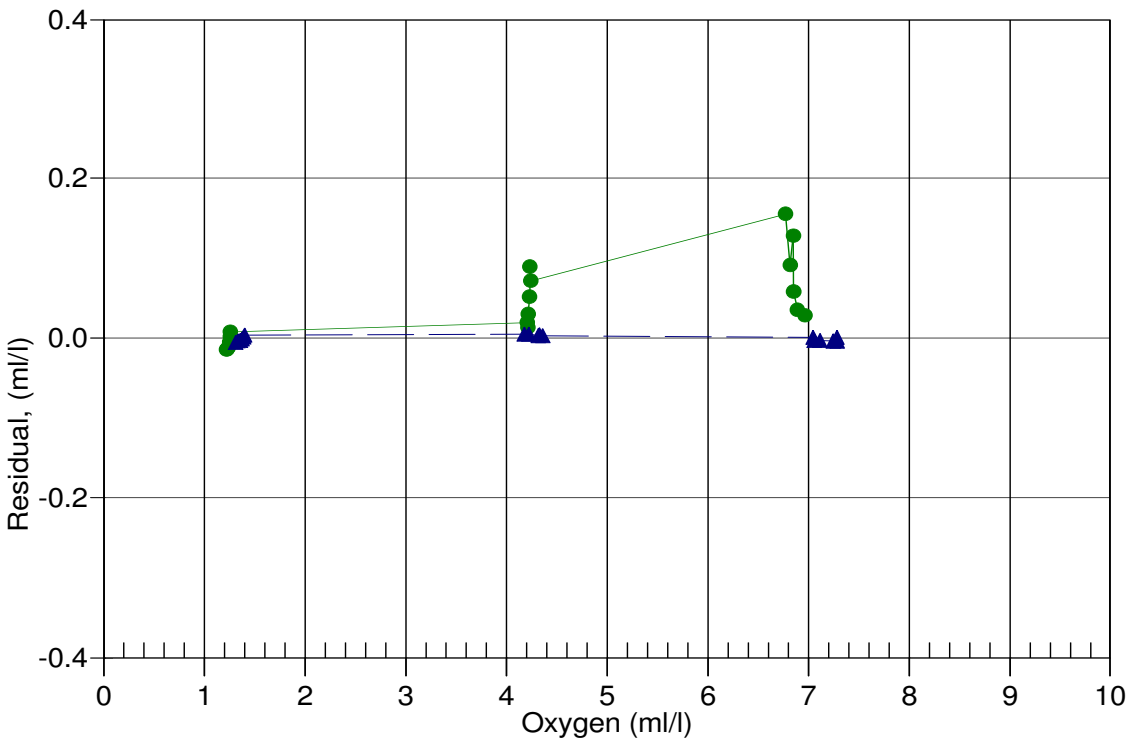
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.31	2.00	0.00	0.755	1.30	-0.01
1.33	6.00	0.00	0.787	1.33	-0.00
1.35	12.00	0.00	0.836	1.35	-0.00
1.37	20.00	0.00	0.901	1.37	-0.00
1.39	26.00	0.00	0.954	1.39	0.00
1.40	30.00	0.00	0.991	1.40	0.00
4.18	2.00	0.00	1.268	4.18	0.00
4.18	6.00	0.00	1.357	4.18	0.01
4.22	12.00	0.00	1.502	4.22	0.00
4.32	20.00	0.00	1.714	4.32	0.00
4.32	26.00	0.00	1.864	4.33	0.00
4.36	30.00	0.00	1.978	4.36	0.00
7.04	6.00	0.00	1.928	7.04	0.00
7.05	2.00	0.00	1.779	7.05	-0.00
7.11	12.00	0.00	2.171	7.11	-0.00
7.24	20.00	0.00	2.520	7.24	-0.00
7.28	26.00	0.00	2.779	7.28	0.00
7.28	30.00	0.00	2.952	7.28	-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)



● 07-Dec-12 0.9888
 ▲ 06-Nov-13 1.0000