

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0803
CALIBRATION DATE: 05-May-12

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4191

Voffset = -0.5151

Tau20 = 1.25

A = -3.0542e-003

B = 1.6062e-004

C = -2.3402e-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

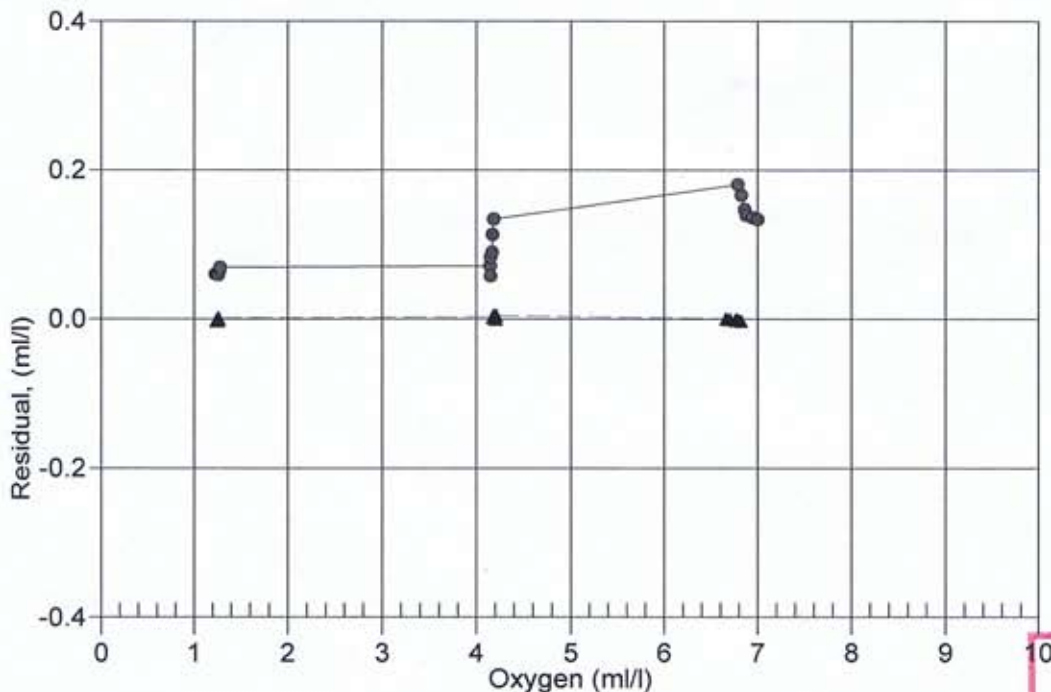
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.23	2.00	0.00	0.821	1.23	-0.00
1.25	12.00	0.00	0.916	1.24	-0.00
1.25	6.00	0.00	0.860	1.24	-0.00
1.25	30.00	0.00	1.087	1.25	0.00
1.26	20.00	0.00	0.993	1.25	-0.00
1.26	26.00	0.00	1.050	1.26	0.00
4.17	12.00	0.00	1.860	4.17	0.00
4.18	26.00	0.00	2.294	4.18	0.00
4.18	6.00	0.00	1.677	4.19	0.00
4.20	20.00	0.00	2.114	4.20	-0.00
4.20	30.00	0.00	2.429	4.20	0.00
4.21	2.00	0.00	1.559	4.21	0.00
6.65	20.00	0.00	3.051	6.66	0.00
6.70	30.00	0.00	3.569	6.70	-0.00
6.76	26.00	0.00	3.391	6.76	-0.00
6.77	12.00	0.00	2.695	6.77	-0.00
6.78	6.00	0.00	2.397	6.78	-0.00
6.82	2.00	0.00	2.206	6.82	-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)



**POST CRUISE
CALIBRATION**