

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1348
CALIBRATION DATE: 07-Jul-08p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4691

Voffset = -0.5123

Tau20 = 1.62

A = -1.4578e-003

B = 1.8580e-004

C = -3.6687e-006

E nominal = 0.036

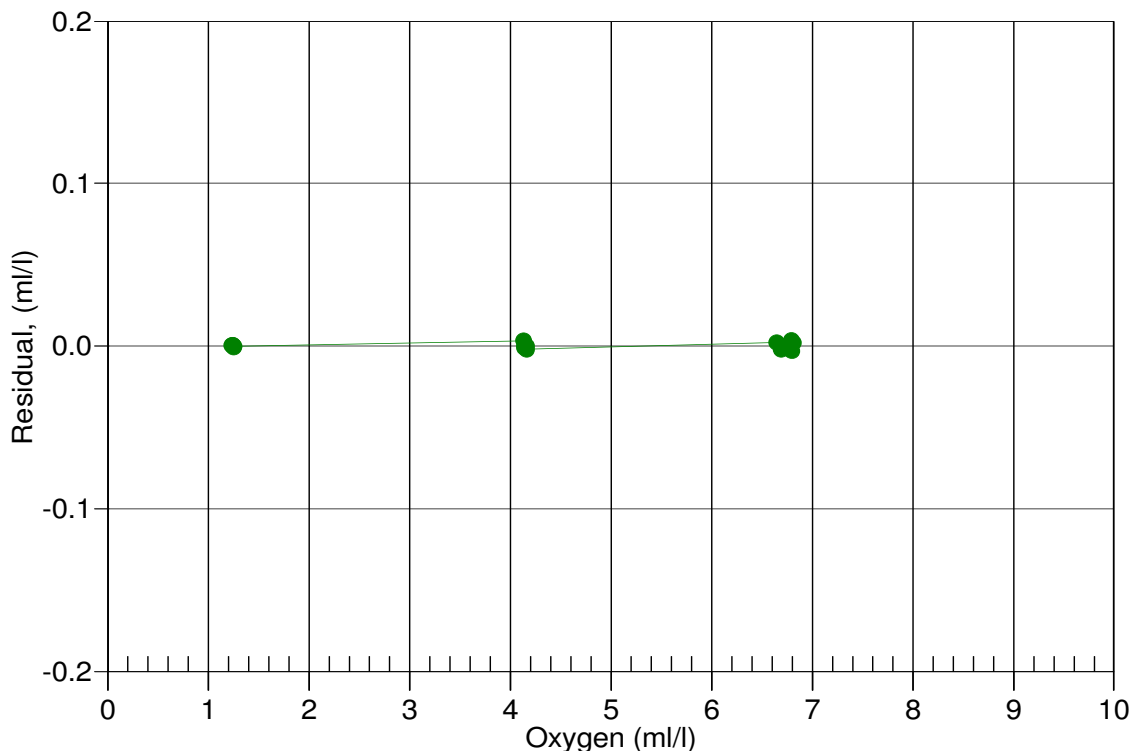
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.24	2.00	0.00	0.785	1.24	0.00
1.24	6.00	0.00	0.817	1.24	0.00
1.24	12.00	0.01	0.863	1.24	0.00
1.25	20.00	0.01	0.924	1.25	0.00
1.25	26.00	0.01	0.972	1.25	-0.00
1.26	30.00	0.01	1.007	1.26	-0.00
4.13	20.00	0.01	1.875	4.13	0.00
4.14	26.00	0.01	2.030	4.14	-0.00
4.14	30.00	0.01	2.142	4.14	-0.00
4.15	12.00	0.01	1.682	4.15	-0.00
4.16	2.00	0.00	1.431	4.16	0.00
4.16	6.00	0.00	1.533	4.16	-0.00
6.64	30.00	0.01	3.127	6.65	0.00
6.69	26.00	0.01	2.968	6.69	-0.00
6.75	20.00	0.01	2.737	6.74	-0.00
6.79	12.00	0.01	2.427	6.79	0.00
6.80	6.00	0.00	2.180	6.79	-0.00
6.81	2.00	0.00	2.017	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 [deg K]

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

Date, Delta Ox (ml/l)



07-Jul-08p 1.0000