

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0730
CALIBRATION DATE: 24-Feb-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3634

Boc = 0.0000

Voffset = -0.5030

TCor = 0.0008

PCor = 1.350e-04

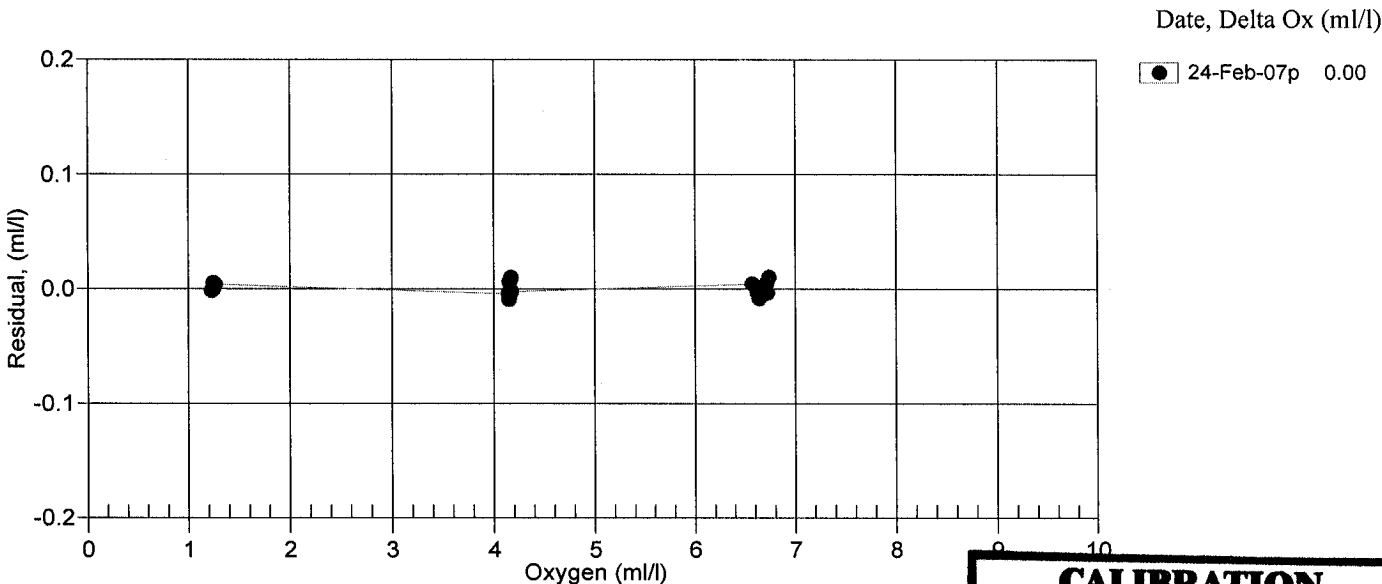
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.23	2.00	0.00	0.852	1.23	-0.00
1.24	20.00	0.01	1.031	1.24	-0.00
1.24	6.00	0.00	0.893	1.24	0.00
1.24	12.00	0.01	0.953	1.25	0.01
1.25	26.00	0.01	1.096	1.25	0.00
1.26	30.00	0.01	1.146	1.26	0.00
4.14	26.00	0.01	2.470	4.14	-0.00
4.15	2.00	0.00	1.679	4.14	-0.01
4.15	20.00	0.01	2.268	4.14	-0.01
4.16	30.00	0.01	2.623	4.16	0.01
4.16	12.00	0.01	2.013	4.17	0.01
4.17	6.00	0.00	1.814	4.17	-0.00
6.58	30.00	0.01	3.853	6.58	0.00
6.62	26.00	0.01	3.650	6.61	-0.00
6.64	20.00	0.01	3.328	6.63	-0.01
6.71	12.00	0.01	2.934	6.72	0.01
6.72	2.00	0.00	2.412	6.72	-0.00
6.74	6.00	0.00	2.626	6.75	0.01

oxygen (ml/l) = (Soc * (V + Voffset)) * exp(Tcor * T) * Oxsat(T,S) * exp(PCor * P)

V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU]

Oxsat(T,S) = oxygen saturation [ml/l], P = pressure [dbar]

Residual = instrument oxygen - bath oxygen



CALIBRATION
AFTER
MODIFICATIONS