

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0730
CALIBRATION DATE: 23-Aug-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3643

Boc = 0.0000

Voffset = -0.5094

TCor = 0.0013

PCor = 1.350e-04

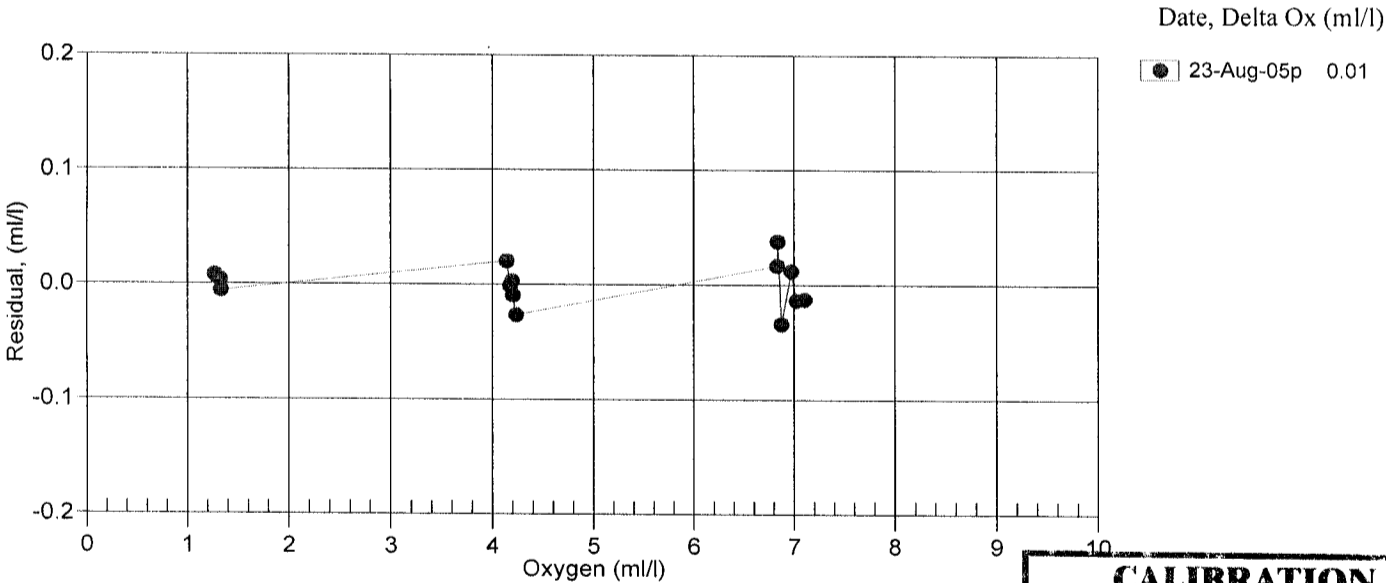
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.27	11.92	0.01	0.967	1.28	0.01
1.30	6.00	0.00	0.916	1.30	0.00
1.31	20.00	0.01	1.063	1.31	0.00
1.32	26.00	0.01	1.129	1.32	0.00
1.32	30.00	0.01	1.171	1.32	0.00
1.33	2.00	0.00	0.885	1.33	-0.01
4.14	11.97	0.01	2.002	4.16	0.02
4.17	30.00	0.01	2.598	4.17	-0.00
4.19	20.00	0.01	2.276	4.19	0.00
4.19	6.00	0.00	1.822	4.19	0.00
4.20	26.00	0.01	2.476	4.19	-0.01
4.23	2.00	0.00	1.699	4.20	-0.03
6.83	6.00	0.00	2.654	6.85	0.02
6.84	12.00	0.01	2.976	6.87	0.04
6.88	2.00	0.00	2.447	6.84	-0.03
6.97	20.00	0.01	3.454	6.99	0.01
7.02	26.00	0.01	3.796	7.01	-0.01
7.11	30.00	0.01	4.064	7.09	-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