

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0154
CALIBRATION DATE: 24-Feb-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3982

Boc = 0.0000

Voffset = -0.5110

TCor = 0.0003

PCor = 1.350e-04

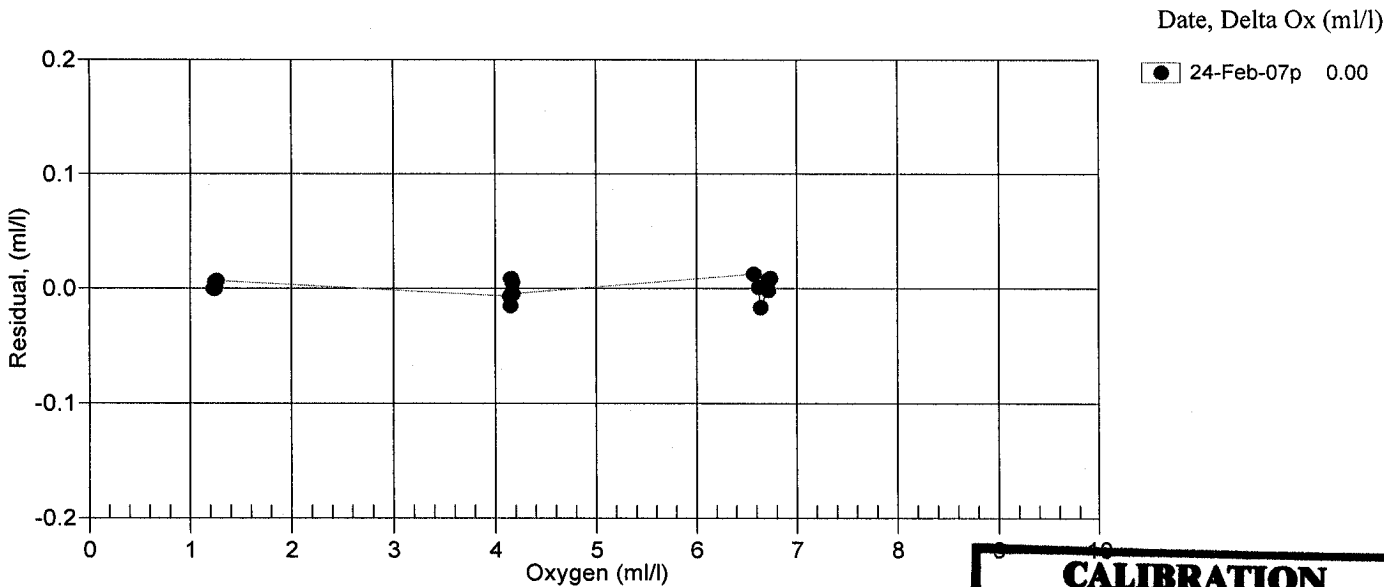
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.23	2.00	0.00	0.830	1.23	-0.00
1.24	20.00	0.01	0.998	1.24	-0.00
1.24	6.00	0.00	0.868	1.24	-0.00
1.24	12.00	0.01	0.925	1.25	0.01
1.25	26.00	0.01	1.059	1.25	0.00
1.26	30.00	0.01	1.109	1.27	0.01
4.14	26.00	0.01	2.330	4.13	-0.01
4.15	2.00	0.00	1.586	4.14	-0.01
4.15	20.00	0.01	2.137	4.13	-0.02
4.16	30.00	0.01	2.478	4.17	0.01
4.16	12.00	0.01	1.896	4.17	0.00
4.17	6.00	0.00	1.710	4.16	-0.00
6.58	30.00	0.01	3.621	6.59	0.01
6.62	26.00	0.01	3.424	6.62	0.00
6.64	20.00	0.01	3.114	6.62	-0.02
6.71	12.00	0.01	2.741	6.71	-0.00
6.72	2.00	0.00	2.258	6.73	0.01
6.74	6.00	0.00	2.454	6.74	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