

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0140
CALIBRATION DATE: 02-Feb-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3348

Boc = 0.0000

Voffset = -0.6023

TCor = -0.0000

PCor = 1.350e-04

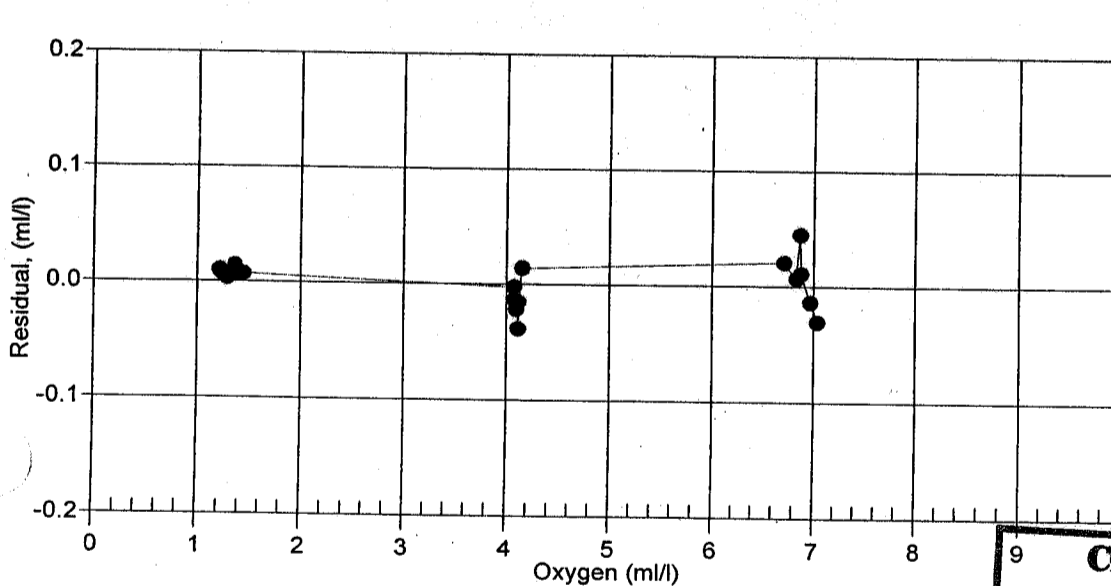
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.21	12.00	0.01	1.087	1.22	0.01
1.23	6.00	0.00	1.026	1.23	0.01
1.29	26.00	0.01	1.282	1.29	0.00
1.35	30.00	0.01	1.378	1.37	0.01
1.41	20.00	0.01	1.268	1.42	0.01
1.44	2.00	0.00	1.050	1.45	0.01
4.07	12.00	0.01	2.216	4.07	-0.00
4.08	6.00	0.00	1.997	4.06	-0.01
4.09	20.00	0.01	2.518	4.07	-0.02
4.11	26.00	0.01	2.763	4.09	-0.02
4.11	2.00	0.00	1.861	4.07	-0.04
4.15	30.00	0.01	2.960	4.16	0.01
6.71	30.00	0.01	4.418	6.73	0.02
6.83	6.00	0.00	2.950	6.84	0.01
6.87	12.00	0.01	3.344	6.91	0.04
6.88	2.00	0.00	2.733	6.89	0.01
6.97	26.00	0.01	4.272	6.95	-0.01
7.04	20.00	0.01	3.901	7.01	-0.03

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



Date, Delta Ox (ml/l)

02-Feb-05p 0.01

**CALIBRATION
AFTER
MODIFICATIONS**