

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: 0730
CALIBRATION DATE: 23-Jan-06p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.3734

Boc = 0.0000

Voffset = -0.5045

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)
1.21	2.03	0.00	0.839	1.21	-0.01
1.22	6.00	0.00	0.877	1.22	0.00
1.22	12.00	0.01	0.933	1.22	0.01
1.24	20.00	0.01	1.013	1.24	0.00
1.25	26.00	0.01	1.076	1.25	-0.00
1.27	30.00	0.01	1.128	1.28	0.01
4.13	12.00	0.01	1.954	4.14	0.02
4.13	6.00	0.00	1.769	4.14	0.01
4.14	2.06	0.00	1.644	4.12	-0.02
4.15	20.00	0.01	2.203	4.14	-0.01
4.16	26.00	0.01	2.399	4.15	-0.02
4.17	30.01	0.01	2.550	4.19	0.02
6.86	2.07	0.00	2.398	6.84	-0.02
6.90	6.03	0.00	2.620	6.92	0.02
6.92	12.00	0.01	2.934	6.94	0.02
6.93	20.00	0.01	3.355	6.94	0.01
6.94	30.03	0.01	3.901	6.95	0.01
6.95	26.00	0.01	3.667	6.92	-0.04

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

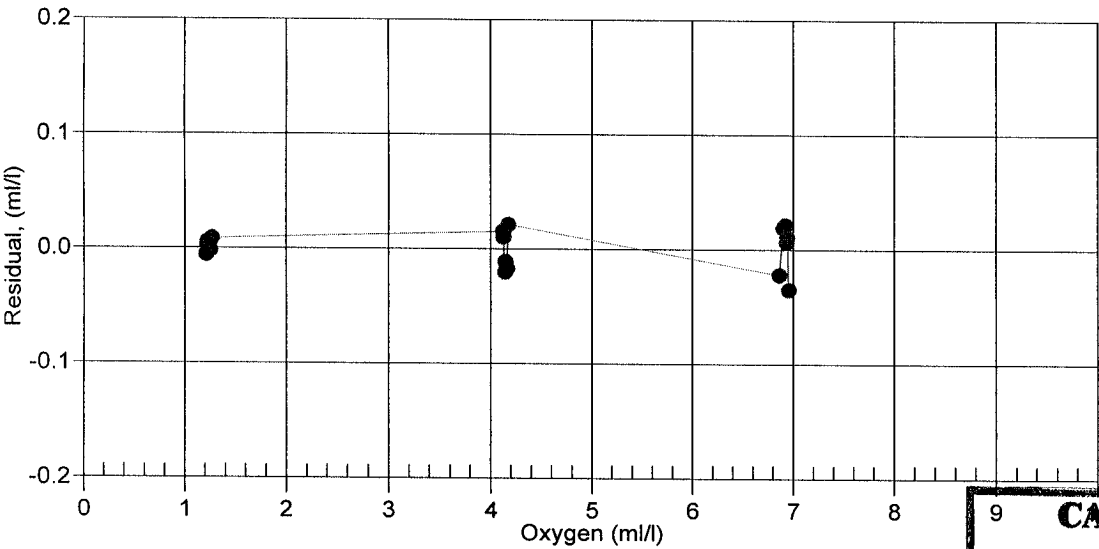
V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU]

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

Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

● 23-Jan-06p 0.01



**CALIBRATION
AFTER
MODIFICATIONS**