

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: 0703
CALIBRATION DATE: 30-Dec-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4026

Boc = 0.0000

Voffset = -0.4851

TCor = 0.0013

PCor = 1.350e-04

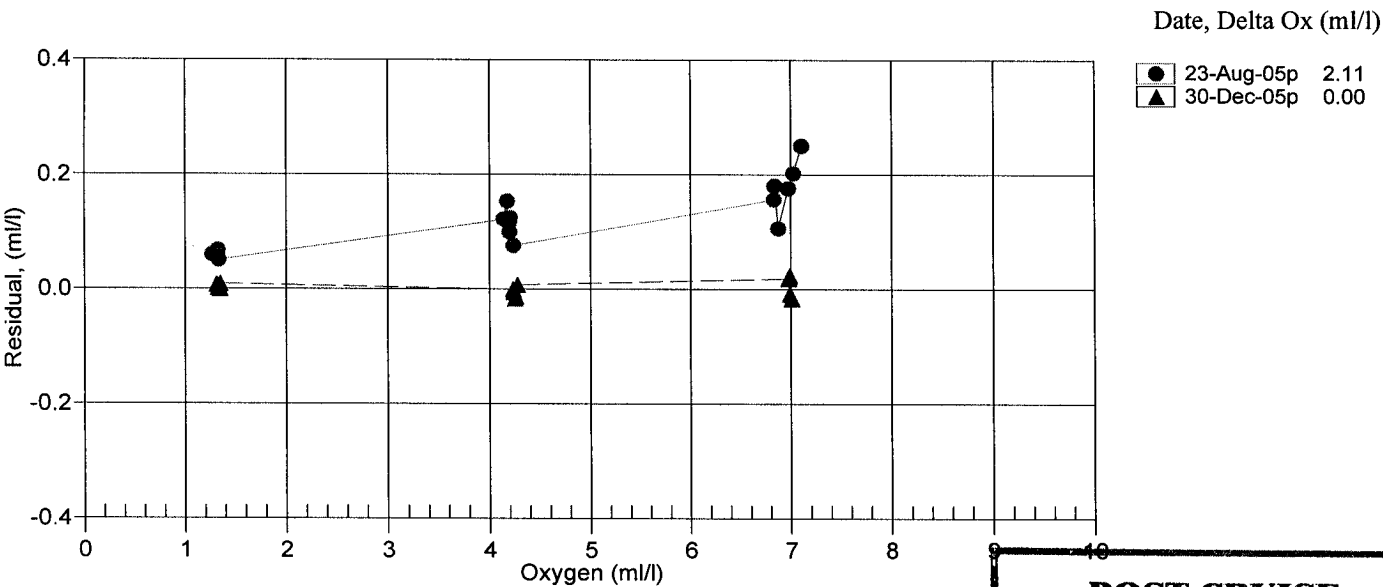
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.31	12.00	0.01	0.913	1.32	0.01
1.32	20.00	0.01	0.988	1.32	0.00
1.32	6.00	0.00	0.861	1.33	0.01
1.34	26.00	0.01	1.052	1.34	0.00
1.34	2.00	0.00	0.828	1.34	-0.00
1.35	30.00	0.01	1.098	1.35	0.01
4.23	12.00	0.01	1.856	4.22	-0.00
4.23	6.00	0.00	1.682	4.23	-0.00
4.23	20.00	0.01	2.094	4.23	-0.01
4.25	2.00	0.00	1.569	4.23	-0.02
4.26	26.00	0.01	2.283	4.24	-0.01
4.27	30.00	0.01	2.419	4.28	0.01
6.97	30.00	0.01	3.648	6.99	0.02
6.98	6.00	0.00	2.467	7.00	0.02
6.99	2.02	0.00	2.274	6.98	-0.01
6.99	12.00	0.01	2.760	7.01	0.02
7.01	26.00	0.01	3.446	6.99	-0.02
7.01	20.00	0.01	3.148	6.99	-0.02

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



POST CRUISE
CALIBRATION