

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: 08-Jul-05p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.5334

Boc = 0.0000

Voffset = -0.5423

TCor = 0.0012

PCor = 1.350e-04

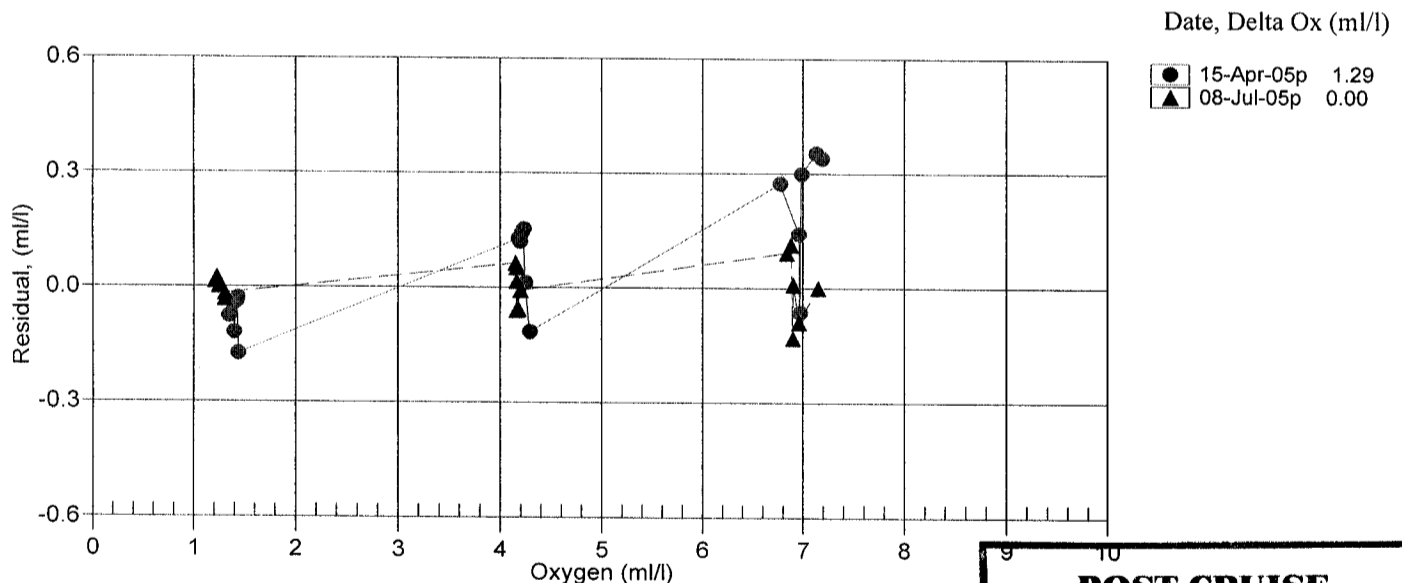
BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.20	12.00	0.01	0.841	1.22	0.01
1.22	6.00	0.00	0.809	1.25	0.02
1.22	2.00	0.00	0.783	1.24	0.02
1.25	20.00	0.01	0.902	1.25	0.00
1.30	30.00	0.01	0.976	1.26	-0.03
1.31	26.00	0.01	0.956	1.29	-0.02
4.15	12.00	0.01	1.575	4.21	0.06
4.16	2.00	0.00	1.335	4.10	-0.06
4.16	6.00	0.00	1.436	4.18	0.01
4.16	20.00	0.01	1.757	4.21	0.05
4.18	30.00	0.01	1.954	4.12	-0.06
4.19	26.00	0.01	1.885	4.18	-0.01
6.83	20.00	0.01	2.538	6.92	0.09
6.88	12.00	0.01	2.258	6.99	0.11
6.89	2.00	0.00	1.851	6.76	-0.13
6.90	6.00	0.00	2.021	6.91	0.01
6.96	30.00	0.01	2.898	6.87	-0.09
7.14	26.00	0.01	2.835	7.14	-0.00

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**