SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0348
CALIBRATION DATE: 10-Apr-10p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4382
Voffset = -0.4851
Tau20 = 1.04

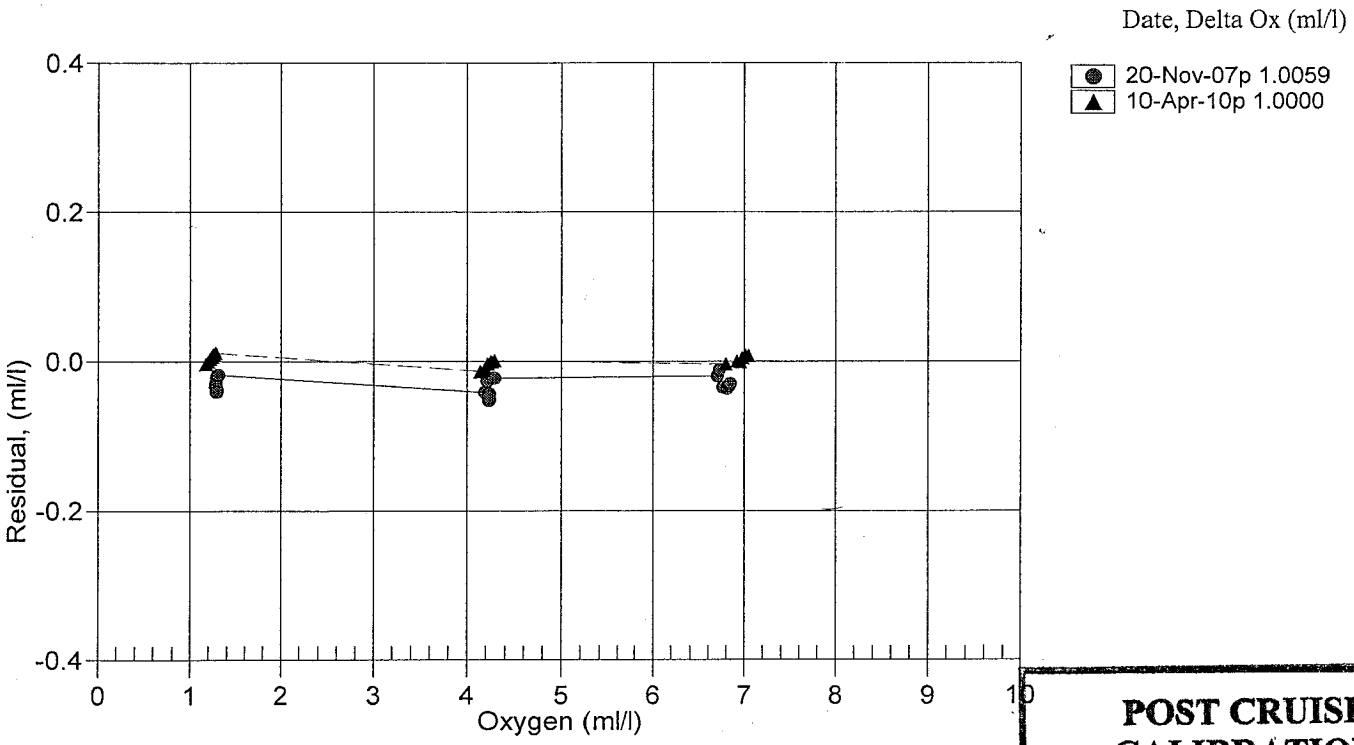
A = -1.2560e-003
B = 1.3673e-004
C = -2.9491e-006
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4
D2 = -4.64803e-2
H1 = -3.30000e-2
H2 = 5.00000e+3
H3 = 1.45000e+3

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.17	2.00	0.00	0.761	1.17	-0.00
1.19	6.00	0.01	0.798	1.19	-0.00
1.21	12.00	0.01	0.853	1.22	0.00
1.23	20.00	0.01	0.927	1.24	0.01
1.25	26.00	0.01	0.988	1.26	0.01
1.27	30.00	0.02	1.035	1.28	0.01
4.14	2.00	0.00	1.460	4.13	-0.01
4.17	6.00	0.01	1.579	4.16	-0.01
4.19	12.00	0.01	1.751	4.18	-0.01
4.22	20.00	0.01	1.988	4.22	-0.00
4.25	26.00	0.01	2.182	4.25	-0.00
4.29	30.00	0.02	2.325	4.29	0.00
6.79	30.00	0.02	3.398	6.79	-0.00
6.92	26.00	0.01	3.243	6.92	0.00
6.95	20.00	0.01	2.963	6.95	-0.00
6.98	12.00	0.01	2.598	6.98	0.00
7.01	6.00	0.01	2.330	7.02	0.01
7.05	2.00	0.00	2.152	7.05	0.01

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * OxSol(T,S) * exp(E * P / K)
V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]
OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen



POST CRUISE CALIBRATION