SEA-BIRD ELECTRONICS, INC.

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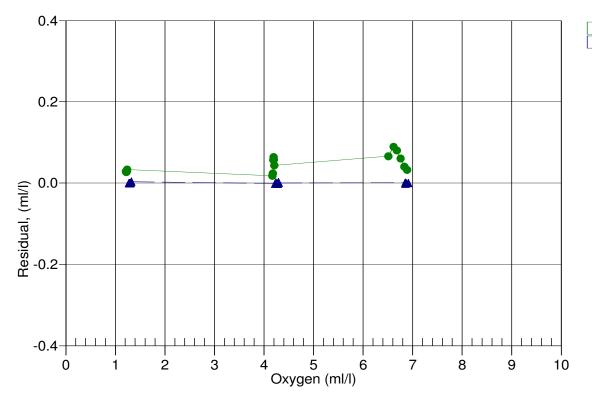
SENSOR SERIAL NUMBER: 1875
CALIBRATION DATE: 11-Dec-10p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4670
Voffset = −0.4820
Tau20 = 1.20

A = −2.3863e−003
B = 1.7036e−004
C = −3.3475e−006
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e−4   H1 = −3.30000e−2
D2 = −4.64803e−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)
1.27	2.00	0.02	0.765	1.27	−0.00
1.28	6.00	0.02	0.800	1.28	−0.00
1.29	12.00	0.02	0.852	1.29	−0.00
1.31	20.00	0.03	0.925	1.31	−0.00
1.31	26.00	0.03	0.980	1.31	−0.00
1.32	30.00	0.03	1.022	1.32	0.00
4.22	2.00	0.02	1.420	4.22	−0.00
4.24	6.00	0.02	1.535	4.24	0.00
4.27	12.00	0.03	1.706	4.27	−0.00
4.28	20.00	0.03	1.930	4.27	−0.00
4.29	26.00	0.03	2.110	4.29	0.00
4.30	30.00	0.03	2.237	4.30	0.00
6.85	12.00	0.03	2.447	6.85	0.00
6.85	30.00	0.03	3.281	6.85	−0.00
6.86	6.00	0.02	2.185	6.86	−0.00
6.91	20.00	0.03	2.822	6.91	0.00
6.91	2.00	0.02	2.018	6.91	0.00
6.92	26.00	0.03	3.107	6.92	0.00

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

Date, Delta Ox (ml/l)

● 28-May-10p 0.9903
▲ 11-Dec-10p 1.0000