

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2093
 CALIBRATION DATE: 22-Mar-11p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4754
 Voffset = -0.5031
 Tau20 = 1.51

A = -2.4310e-003
 B = 1.1328e-004
 C = -2.1378e-006
 E nominal = 0.036

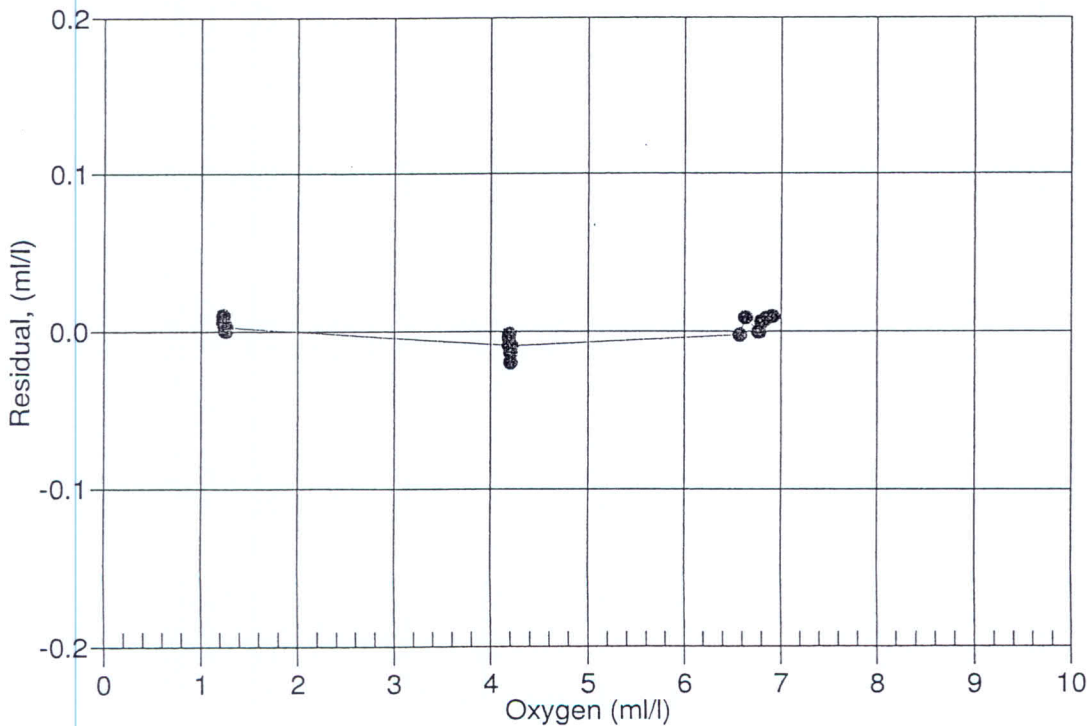
NOMINAL DYNAMIC COEFFICIENTS

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) |
|----------------|------------------|--------------|--------------------------|-------------------------|-----------------|
| 1.23 | 6.00 | 0.00 | 0.804 | 1.23 | 0.01 |
| 1.23 | 2.00 | 0.00 | 0.774 | 1.24 | 0.01 |
| 1.23 | 12.00 | 0.00 | 0.854 | 1.24 | 0.00 |
| 1.25 | 20.00 | 0.00 | 0.926 | 1.25 | 0.00 |
| 1.25 | 26.00 | 0.00 | 0.978 | 1.25 | 0.00 |
| 1.26 | 30.00 | 0.00 | 1.019 | 1.26 | 0.00 |
| 4.18 | 20.00 | 0.00 | 1.913 | 4.18 | -0.01 |
| 4.19 | 26.00 | 0.00 | 2.092 | 4.18 | -0.00 |
| 4.19 | 30.00 | 0.00 | 2.220 | 4.19 | -0.00 |
| 4.20 | 2.00 | 0.00 | 1.416 | 4.18 | -0.02 |
| 4.20 | 6.00 | 0.00 | 1.526 | 4.19 | -0.01 |
| 4.21 | 12.00 | 0.00 | 1.694 | 4.20 | -0.01 |
| 6.58 | 30.00 | 0.00 | 3.195 | 6.57 | -0.00 |
| 6.63 | 26.00 | 0.00 | 3.026 | 6.64 | 0.01 |
| 6.77 | 20.00 | 0.00 | 2.790 | 6.77 | -0.00 |
| 6.80 | 12.00 | 0.00 | 2.435 | 6.81 | 0.01 |
| 6.85 | 6.00 | 0.00 | 2.179 | 6.86 | 0.01 |
| 6.91 | 2.00 | 0.00 | 2.015 | 6.92 | 0.01 |

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * 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)



● 22-Mar-11p 1.0000