

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0730
 CALIBRATION DATE: 31-Jan-07p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4120
 Boc = 0.0000
 Voffset = -0.5084

TCor = 0.0026
 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) |
|-------------------|---------------------|-----------------|-----------------------------|----------------------------|--------------------|
| 1.30 | 2.00 | 0.00 | 0.831 | 1.29 | -0.01 |
| 1.32 | 6.00 | 0.00 | 0.869 | 1.31 | -0.00 |
| 1.33 | 12.00 | 0.01 | 0.925 | 1.33 | 0.00 |
| 1.35 | 20.00 | 0.01 | 1.000 | 1.35 | 0.00 |
| 1.36 | 26.00 | 0.01 | 1.053 | 1.36 | 0.00 |
| 1.37 | 30.00 | 0.01 | 1.093 | 1.37 | 0.00 |
| 4.17 | 30.00 | 0.01 | 2.282 | 4.17 | 0.00 |
| 4.17 | 20.00 | 0.01 | 2.028 | 4.19 | 0.02 |
| 4.17 | 26.00 | 0.01 | 2.181 | 4.17 | 0.00 |
| 4.17 | 12.00 | 0.01 | 1.818 | 4.19 | 0.02 |
| 4.17 | 6.00 | 0.00 | 1.657 | 4.18 | 0.01 |
| 4.18 | 2.00 | 0.00 | 1.548 | 4.16 | -0.02 |
| 6.50 | 30.00 | 0.01 | 3.270 | 6.49 | -0.02 |
| 6.72 | 12.00 | 0.01 | 2.619 | 6.76 | 0.03 |
| 6.73 | 6.00 | 0.00 | 2.360 | 6.74 | 0.01 |
| 6.75 | 2.00 | 0.00 | 2.186 | 6.71 | -0.03 |
| 6.77 | 20.00 | 0.01 | 2.965 | 6.77 | 0.00 |
| 6.89 | 26.00 | 0.01 | 3.259 | 6.87 | -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

