

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0703
 CALIBRATION DATE: 21-Mar-08p

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.4145

Boc = 0.0000

Voffset = -0.5079

TCor = 0.0005

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) |
|-------------------|---------------------|-----------------|-----------------------------|----------------------------|--------------------|
| 1.26 | 26.00 | 0.02 | 1.040 | 1.27 | 0.00 |
| 1.27 | 2.00 | 0.00 | 0.823 | 1.26 | -0.00 |
| 1.27 | 20.00 | 0.01 | 0.986 | 1.27 | -0.00 |
| 1.30 | 12.00 | 0.01 | 0.922 | 1.30 | 0.00 |
| 1.31 | 6.00 | 0.01 | 0.870 | 1.31 | 0.00 |
| 1.34 | 30.00 | 0.02 | 1.118 | 1.35 | 0.02 |
| 4.17 | 26.00 | 0.02 | 2.257 | 4.16 | -0.01 |
| 4.18 | 20.00 | 0.01 | 2.073 | 4.16 | -0.02 |
| 4.21 | 12.00 | 0.01 | 1.847 | 4.20 | -0.00 |
| 4.22 | 30.00 | 0.02 | 2.415 | 4.23 | 0.02 |
| 4.22 | 6.00 | 0.01 | 1.675 | 4.22 | 0.00 |
| 4.23 | 2.00 | 0.00 | 1.560 | 4.22 | -0.01 |
| 6.60 | 30.00 | 0.02 | 3.495 | 6.63 | 0.03 |
| 6.64 | 26.00 | 0.02 | 3.294 | 6.62 | -0.01 |
| 6.70 | 20.00 | 0.01 | 3.014 | 6.66 | -0.03 |
| 6.71 | 12.00 | 0.01 | 2.645 | 6.71 | 0.00 |
| 6.82 | 6.00 | 0.01 | 2.399 | 6.84 | 0.02 |
| 6.85 | 2.00 | 0.00 | 2.216 | 6.85 | 0.01 |

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

Date, Delta Ox (ml/l)

