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SENSOR SERIAL NUMBER: 1101 SBE 43 OXYGEN CALIBRATION DATA

CALIBRATION DATE: 01-Dec-22

COEFFICIENTS: A = -4.5795e-003 NOMINAL DYNAMIC COEFFICIENTS

Soc = 0.5023 B = 1.9678e-004 D1 = 1.92634e-4 H1 = -3.300000e-2

Voffset = -0.4946 C = -3.0059e-006 D2 = -4.64803e-2 H2 = 5.00000e+3

Tau20 = 1.26 E nominal = 0.036 H3 = 1.45000e+3

| BATH OXYGEN (ml/l) | BATH TEMPERATURE (° C) | BATH SALINITY (PSU) | INSTRUMENT OUTPUT (volts) | INSTRUMENT OXYGEN (ml/l) | RESIDUAL (ml/l) |
|-----------------------|---------------------------|------------------------|------------------------------|-----------------------------|--------------------|
| 1.15 | 12.00 | 0.00 | 0.808 | 1.15 | -0.00 |
| 1.16 | 2.00 | 0.00 | 0.733 | 1.15 | -0.01 |
| 1.16 | 6.00 | 0.00 | 0.763 | 1.15 | -0.01 |
| 1.16 | 20.00 | 0.00 | 0.871 | 1.16 | 0.00 |
| 1.17 | 26.00 | 0.00 | 0.921 | 1.17 | 0.00 |
| 1.18 | 30.00 | 0.00 | 0.956 | 1.17 | -0.00 |
| 3.91 | 2.00 | 0.00 | 1.307 | 3.92 | 0.01 |
| 3.92 | 6.00 | 0.00 | 1.411 | 3.92 | 0.01 |
| 3.92 | 12.00 | 0.00 | 1.566 | 3.93 | 0.01 |
| 3.92 | 20.00 | 0.00 | 1.773 | 3.94 | 0.01 |
| 3.94 | 26.00 | 0.00 | 1.935 | 3.95 | 0.01 |
| 3.97 | 30.00 | 0.00 | 2.055 | 3.97 | 0.01 |
| 6.70 | 2.00 | 0.00 | 1.884 | 6.70 | 0.00 |
| 6.73 | 6.00 | 0.00 | 2.065 | 6.73 | -0.01 |
| 6.75 | 12.00 | 0.00 | 2.335 | 6.75 | -0.00 |
| 6.76 | 20.00 | 0.00 | 2.692 | 6.76 | -0.00 |
| 6.81 | 26.00 | 0.00 | 2.974 | 6.79 | -0.01 |
| 6.82 | 30.00 | 0.00 | 3.172 | 6.82 | 0.00 |

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T^2 + C * T^3) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

