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SENSOR SERIAL NUMBER: 0212  
CALIBRATION DATE: 03-Apr-18

#### SBE 43F OXYGEN CALIBRATION DATA

##### COEFFICIENTS:

Soc = 2.9930e-004 (adj)  
Foffset = -788.37  
Tau20 = 1.88

A = -4.1846e-003  
B = 2.2220e-004  
C = -3.6216e-006  
E nominal = 0.036

##### NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4 H1 = -3.300000e-2  
D2 = -4.64803e-2 H2 = 5.00000e+3  
H3 = 1.45000e+3

| BATH OX<br>(ml/l) | BATH TEMP<br>(° C) | BATH SAL<br>(PSU) | INSTRUMENT<br>OUTPUT (Hz) | INSTRUMENT<br>OXYGEN (ml/l) | RESIDUAL<br>(ml/l) |
|-------------------|--------------------|-------------------|---------------------------|-----------------------------|--------------------|
| 1.16              | 2.00               | 0.00              | 1201.193                  | 1.16                        | 0.00               |
| 1.16              | 6.00               | 0.00              | 1252.993                  | 1.16                        | 0.00               |
| 1.18              | 12.00              | 0.00              | 1337.195                  | 1.18                        | -0.00              |
| 1.20              | 20.00              | 0.00              | 1446.070                  | 1.20                        | -0.00              |
| 1.21              | 26.00              | 0.00              | 1531.152                  | 1.21                        | -0.00              |
| 1.21              | 30.00              | 0.00              | 1588.974                  | 1.21                        | 0.00               |
| 3.99              | 2.00               | 0.00              | 2206.592                  | 3.99                        | 0.00               |
| 4.01              | 6.00               | 0.00              | 2386.983                  | 4.01                        | 0.00               |
| 4.02              | 12.00              | 0.00              | 2655.541                  | 4.02                        | 0.00               |
| 4.05              | 20.00              | 0.00              | 3016.002                  | 4.05                        | -0.00              |
| 4.08              | 26.00              | 0.00              | 3294.186                  | 4.08                        | -0.00              |
| 4.09              | 30.00              | 0.00              | 3487.742                  | 4.09                        | -0.00              |
| 6.86              | 2.00               | 0.00              | 3224.548                  | 6.86                        | -0.00              |
| 6.90              | 6.00               | 0.00              | 3542.741                  | 6.90                        | -0.00              |
| 6.99              | 12.00              | 0.00              | 4030.391                  | 6.99                        | 0.00               |
| 7.04              | 30.00              | 0.00              | 5437.291                  | 7.04                        | 0.00               |
| 7.06              | 20.00              | 0.00              | 4667.772                  | 7.06                        | 0.00               |
| 7.14              | 26.00              | 0.00              | 5177.362                  | 7.14                        | -0.00              |

F = instrument output (Hz); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

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

Oxygen (ml/l) = Soc \* (F + Foffset) \* (1.0 + A \* T + B \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

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

