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SENSOR SERIAL NUMBER: 0730  
CALIBRATION DATE: 07-Jan-20

#### SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
Soc = 0.5321  
Voffset = -0.5106  
Tau20 = 1.45  
A = -4.1445e-003  
B = 1.5109e-004  
C = -2.4274e-006  
E nominal = 0.036

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

| BATH OXYGEN (ml/l) | BATH TEMPERATURE (° C) | BATH SALINITY (PSU) | INSTRUMENT OUTPUT (volts) | INSTRUMENT OXYGEN (ml/l) | RESIDUAL (ml/l) |
|--------------------|------------------------|---------------------|---------------------------|--------------------------|-----------------|
| 1.12               | 2.00                   | 0.00                | 0.730                     | 1.12                     | 0.00            |
| 1.13               | 12.00                  | 0.00                | 0.801                     | 1.13                     | -0.00           |
| 1.13               | 6.00                   | 0.00                | 0.760                     | 1.13                     | 0.00            |
| 1.14               | 20.00                  | 0.00                | 0.860                     | 1.13                     | -0.00           |
| 1.14               | 26.00                  | 0.00                | 0.904                     | 1.13                     | -0.00           |
| 1.14               | 30.00                  | 0.00                | 0.938                     | 1.14                     | -0.00           |
| 3.84               | 2.00                   | 0.00                | 1.263                     | 3.85                     | 0.00            |
| 3.84               | 30.00                  | 0.00                | 1.953                     | 3.84                     | -0.00           |
| 3.85               | 26.00                  | 0.00                | 1.850                     | 3.85                     | 0.00            |
| 3.85               | 12.00                  | 0.00                | 1.503                     | 3.85                     | 0.00            |
| 3.85               | 6.00                   | 0.00                | 1.360                     | 3.86                     | 0.00            |
| 3.85               | 20.00                  | 0.00                | 1.699                     | 3.85                     | 0.00            |
| 6.60               | 2.00                   | 0.00                | 1.802                     | 6.60                     | -0.00           |
| 6.61               | 6.00                   | 0.00                | 1.966                     | 6.61                     | -0.00           |
| 6.67               | 12.00                  | 0.00                | 2.227                     | 6.67                     | -0.00           |
| 6.73               | 20.00                  | 0.00                | 2.584                     | 6.73                     | -0.00           |
| 6.74               | 26.00                  | 0.00                | 2.855                     | 6.74                     | 0.00            |
| 6.74               | 30.00                  | 0.00                | 3.043                     | 6.74                     | 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<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

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

