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SENSOR SERIAL NUMBER: 3770  
CALIBRATION DATE: 25-May-21

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.173429e-004  
a1 = 3.052160e-004  
a2 = -4.208939e-006  
a3 = 1.966439e-007

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (counts) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 0.9998             | 800460.0                      | 0.9997             | -0.0001           |
| 4.5000             | 686424.3                      | 4.5001             | 0.0001            |
| 15.0000            | 441269.5                      | 14.9999            | -0.0001           |
| 18.5000            | 383166.2                      | 18.4999            | -0.0001           |
| 23.9999            | 308722.2                      | 24.0000            | 0.0001            |
| 28.9999            | 255194.2                      | 28.9999            | 0.0000            |
| 32.5001            | 224076.1                      | 32.5001            | -0.0000           |

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

