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SENSOR SERIAL NUMBER: 1421
CALIBRATION DATE: 20-May-21

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.156598e-005
a1 = 2.680788e-004
a2 = -1.954958e-006
a3 = 1.409556e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| -1.5000 | 895290.7 | -1.5000 | 0.0000 |
| 1.0000 | 798527.2 | 1.0000 | -0.0000 |
| 4.5000 | 682349.3 | 4.5000 | -0.0000 |
| 8.0000 | 585004.2 | 8.0000 | -0.0000 |
| 11.5000 | 503157.5 | 11.5000 | 0.0000 |
| 15.0000 | 434112.0 | 15.0001 | 0.0001 |
| 18.5000 | 375677.7 | 18.5000 | 0.0000 |
| 22.0000 | 326066.3 | 22.0000 | -0.0000 |
| 25.5000 | 283816.0 | 25.5000 | -0.0000 |
| 29.0000 | 247727.1 | 28.9999 | -0.0001 |
| 32.5000 | 216810.7 | 32.5001 | 0.0001 |

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

