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SENSOR SERIAL NUMBER: 6243
 CALIBRATION DATE: 05-Oct-19

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.39635505e-003
 h = 6.43224089e-004
 i = 2.34511707e-005
 j = 2.18598116e-006
 f0 = 1000.0

| BATH TEMP (° C) | INSTRUMENT OUTPUT (Hz) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|---------------------------|--------------------|-------------------|
| -1.5000 | 3174.770 | -1.5000 | 0.00004 |
| 1.0000 | 3358.425 | 1.0000 | -0.00004 |
| 4.5000 | 3628.330 | 4.5000 | -0.00003 |
| 8.0000 | 3913.534 | 8.0000 | 0.00001 |
| 11.5000 | 4214.449 | 11.5000 | 0.00000 |
| 15.0000 | 4531.493 | 15.0001 | 0.00007 |
| 18.5000 | 4865.040 | 18.5000 | -0.00001 |
| 22.0000 | 5215.494 | 22.0000 | -0.00001 |
| 25.5000 | 5583.212 | 25.5000 | -0.00003 |
| 29.0000 | 5968.556 | 29.0000 | -0.00002 |
| 32.5000 | 6371.868 | 32.5000 | 0.00003 |

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

