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SENSOR SERIAL NUMBER: 5122
 CALIBRATION DATE: 01-Feb-23

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.39919071e-003
 h = 6.44115106e-004
 i = 2.25936860e-005
 j = 2.06755016e-006
 f0 = 1000.0

| BATH TEMP (° C) | INSTRUMENT OUTPUT (Hz) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|---------------------------|--------------------|-------------------|
| -1.5000 | 3179.243 | -1.4999 | 0.00007 |
| 1.0000 | 3362.401 | 0.9999 | -0.00006 |
| 4.5000 | 3631.471 | 4.4999 | -0.00009 |
| 8.0000 | 3915.667 | 8.0000 | -0.00005 |
| 11.5000 | 4215.395 | 11.5001 | 0.00007 |
| 14.9999 | 4531.040 | 15.0002 | 0.00025 |
| 18.4999 | 4862.947 | 18.4998 | -0.00007 |
| 22.0000 | 5211.549 | 21.9998 | -0.00020 |
| 25.5000 | 5577.197 | 25.5000 | -0.00003 |
| 28.9999 | 5960.198 | 29.0000 | 0.00011 |
| 32.4999 | 6360.874 | 32.4999 | -0.00002 |

f = Instrument Output (Hz)

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

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

