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SENSOR SERIAL NUMBER: 0349
 CALIBRATION DATE: 11-Feb-21

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42040983e-003
 h = 6.53314580e-004
 i = 2.99120976e-005
 j = 3.97617835e-006
 f0 = 1000.0

| BATH TEMP (° C) | INSTRUMENT OUTPUT (Hz) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|---------------------------|--------------------|-------------------|
| 1.0000 | 3461.814 | 0.9998 | -0.00017 |
| 4.5000 | 3739.370 | 4.5003 | 0.00031 |
| 15.0000 | 4667.029 | 15.0000 | -0.00000 |
| 18.5000 | 5009.118 | 18.4994 | -0.00058 |
| 24.0000 | 5581.398 | 24.0006 | 0.00063 |
| 28.9999 | 6138.875 | 28.9998 | -0.00011 |
| 32.5001 | 6550.848 | 32.5000 | -0.00007 |

f = Instrument Output (Hz)

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

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

