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SENSOR SERIAL NUMBER: 0273
 CALIBRATION DATE: 18-Aug-24

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.41324292e-003
 h = 6.42281975e-004
 i = 2.68504137e-005
 j = 3.38244915e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3479.134	0.9999	-0.00007
4.5000	3761.132	4.5001	0.00012
15.0000	4705.040	15.0000	-0.00002
18.5000	5053.637	18.4999	-0.00012
24.0000	5637.144	24.0000	0.00004
29.0000	6206.385	29.0002	0.00016
32.5000	6627.281	32.4999	-0.00011

f = Instrument Output (Hz)

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

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

