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SENSOR SERIAL NUMBER: 0073
 CALIBRATION DATE: 17-Apr-24

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.29608656e-003
 h = 6.31832592e-004
 i = 2.51693680e-005
 j = 2.77567381e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2904.505	1.0000	0.00005
4.5000	3141.428	4.4999	-0.00010
15.0000	3936.481	15.0001	0.00015
18.5000	4230.829	18.4999	-0.00006
24.0000	4724.415	23.9999	-0.00010
29.0000	5207.018	29.0001	0.00008
32.4999	5564.520	32.4999	-0.00002

f = Instrument Output (Hz)

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

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

