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SENSOR SERIAL NUMBER: 0141
 CALIBRATION DATE: 14-Feb-24

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40149962e-003
 h = 6.41401954e-004
 i = 2.58635352e-005
 j = 3.20090453e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3410.325	1.0000	-0.00004
4.5000	3686.107	4.5001	0.00008
15.0000	4608.859	14.9999	-0.00005
18.5000	4949.540	18.5000	-0.00002
24.0000	5519.654	24.0000	0.00001
29.0000	6075.733	29.0001	0.00009
32.5001	6486.874	32.5000	-0.00006

f = Instrument Output (Hz)

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

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

