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SENSOR SERIAL NUMBER: 0349
 CALIBRATION DATE: 01-Feb-22

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40504575e-003
 h = 6.44804992e-004
 i = 2.62237491e-005
 j = 3.20939298e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3409.738	0.9999	-0.00005
4.4999	3684.241	4.5000	0.00010
15.0000	4602.242	14.9999	-0.00011
18.5000	4941.016	18.5000	0.00001
24.0000	5507.765	24.0001	0.00006
29.0000	6060.374	29.0000	0.00002
32.5001	6468.876	32.5001	-0.00003

f = Instrument Output (Hz)

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

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

