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SENSOR SERIAL NUMBER: 0335  
 CALIBRATION DATE: 22-Oct-20

Glider APL TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42130429e-003  
 h = 6.42350851e-004  
 i = 2.54884679e-005  
 j = 3.02257587e-006  
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3517.837	1.0000	0.00004
4.5000	3802.203	4.4999	-0.00007
15.0000	4753.746	15.0000	-0.00001
18.5000	5105.073	18.5001	0.00014
24.0000	5692.982	23.9999	-0.00009
29.0000	6266.483	28.9999	-0.00006
32.5000	6690.565	32.5001	0.00006

f = Instrument Output (Hz)

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

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

