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SENSOR SERIAL NUMBER: 0313
 CALIBRATION DATE: 25-Jan-22

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.41384051e-003
 h = 6.49805499e-004
 i = 2.89938343e-005
 j = 3.82856487e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0162	3443.693	1.0163	0.00011
4.5000	3719.218	4.4998	-0.00021
15.0000	4644.847	15.0002	0.00022
18.5000	4986.309	18.5000	-0.00005
24.0000	5557.483	23.9999	-0.00007
29.0000	6114.240	28.9999	-0.00009
32.5000	6525.693	32.5001	0.00009

f = Instrument Output (Hz)

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

Residual (°C) = instrument temperature - bath temperature

