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SENSOR SERIAL NUMBER: 0142
 CALIBRATION DATE: 18-Aug-20

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.32584198e-003
 h = 6.22907145e-004
 i = 2.31564670e-005
 j = 2.46928108e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3097.387	1.0000	-0.00001
4.5000	3353.466	4.5000	0.00002
15.0000	4213.943	15.0000	-0.00002
18.5000	4532.949	18.5000	-0.00000
24.0000	5068.277	24.0000	0.00001
29.0000	5592.130	29.0000	0.00002
32.5000	5980.487	32.5000	-0.00001

f = Instrument Output (Hz)

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

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

