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SENSOR SERIAL NUMBER: 0265
 CALIBRATION DATE: 16-Feb-21

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.39829540e-003
 h = 6.34833462e-004
 i = 2.50310969e-005
 j = 2.99926288e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3433.491	0.9999	-0.00008
4.4999	3713.919	4.5000	0.00014
15.0000	4653.696	14.9999	-0.00007
18.5000	5001.179	18.4999	-0.00008
24.0000	5583.260	24.0001	0.00007
29.0000	6151.631	29.0001	0.00012
32.4999	6572.204	32.4998	-0.00010

f = Instrument Output (Hz)

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

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

