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SENSOR SERIAL NUMBER: 0131
 CALIBRATION DATE: 14-Aug-20

Glider APL TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.35610057e-003
 h = 6.24932494e-004
 i = 2.34746278e-005
 j = 2.49900313e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	3252.251	0.9999	-0.00005
4.5000	3521.149	4.5001	0.00009
15.0000	4424.580	14.9999	-0.00005
18.4999	4759.468	18.4999	-0.00004
24.0000	5321.435	24.0000	0.00000
28.9999	5871.290	29.0000	0.00013
32.5000	6278.878	32.4999	-0.00008

f = Instrument Output (Hz)

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

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

