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SENSOR SERIAL NUMBER: 9406  
 CALIBRATION DATE: 27-Feb-21

Slocum Payload CTD TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.182791e-04  
 a1 = 3.228955e-04  
 a2 = -5.306247e-06  
 a3 = 2.249728e-07

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	560186.0	1.0000	0.0000
4.4999	480616.0	4.4998	-0.0001
15.0000	309432.2	15.0002	0.0002
18.5000	268842.6	18.4998	-0.0002
24.0000	216809.4	24.0000	0.0000
29.0001	179377.0	29.0001	-0.0000
32.4999	157608.4	32.4999	0.0000

n = Instrument Output (counts)

$$\text{Temperature ITS-90 (°C)} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$$

Residual (°C) = instrument temperature - bath temperature

