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SENSOR SERIAL NUMBER: 9431
CALIBRATION DATE: 30-Mar-25

Slocum Payload CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.059903e-004
a1 = 3.003183e-004
a2 = -3.733062e-006
a3 = 1.828212e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	576752.7	1.0001	0.0001
4.5000	494097.9	4.4998	-0.0002
15.0000	316757.6	15.0003	0.0003
18.5000	274829.6	18.4999	-0.0001
24.0000	221169.3	24.0000	-0.0000
29.0000	182639.3	28.9999	-0.0001
32.5000	160263.6	32.5001	0.0001

n = Instrument Output (counts)

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

