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SENSOR SERIAL NUMBER: 0497
 CALIBRATION DATE: 17-Jan-24

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 5.030564e-005
 a1 = 2.689209e-004
 a2 = -2.096229e-006
 a3 = 1.411334e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	823760.7	-1.5000	0.0000
1.0000	733706.0	1.0000	-0.0000
4.5000	625767.2	4.5000	-0.0000
8.0000	535503.6	8.0000	-0.0000
11.5000	459756.5	11.5000	0.0000
15.0000	395974.9	15.0001	0.0001
18.5000	342094.6	18.5000	-0.0000
22.0000	296429.1	22.0000	-0.0000
25.5000	257606.8	25.4999	-0.0001
29.0000	224500.9	29.0000	-0.0000
32.5000	196187.2	32.5000	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

