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SENSOR SERIAL NUMBER: 0570
CALIBRATION DATE: 08-May-24

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.641645e-005
a1 = 2.838628e-004
a2 = -3.014271e-006
a3 = 1.757175e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	735542.5	-1.5001	-0.0001
1.0000	657218.8	1.0000	0.0000
4.5000	562974.6	4.5001	0.0001
8.0000	483810.9	8.0000	0.0000
11.5000	417086.7	11.5000	-0.0000
15.0000	360664.0	14.9999	-0.0001
18.5000	312802.2	18.4998	-0.0002
22.0000	272070.3	22.0002	0.0002
25.5000	237311.7	25.5001	0.0001
29.0000	207558.4	29.0001	0.0001
32.5000	182019.0	32.4999	-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

