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SENSOR SERIAL NUMBER: 0986 CALIBRATION DATE: 26-May-21 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.500641e-004 a1 = 3.202191e-004 a2 = -5.415991e-006 a3 = 2.247147e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	841462.9	-1.4999	0.0001
1.0000	751678.5	0.9999	-0.0001
4.5000	643697.7	4.4999	-0.0001
8.0000	553047.3	8.0000	-0.0000
11.5000	476687.3	11.5001	0.0001
15.0000	412152.8	15.0001	0.0001
18.5000	357438.6	18.5000	0.0000
22.0000	310902.3	22.0000	-0.0000
25.5000	271200.9	25.4999	-0.0001
29.0000	237229.8	28.9999	-0.0001
32.5001	208075.7	32.5002	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual (${}^{\circ}C$) = instrument temperature - bath temperature

