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SENSOR SERIAL NUMBER: 3769
CALIBRATION DATE: 26-May-21

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.950111e-006
a1 = 2.811766e-004
a2 = -2.858625e-006
a3 = 1.665209e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	716312.2	-1.4999	0.0001
1.0000	639137.1	0.9999	-0.0001
4.5000	546433.5	4.5000	-0.0000
8.0000	468718.1	8.0000	-0.0000
11.5000	403344.1	11.5000	0.0000
15.0000	348169.1	15.0001	0.0001
18.5000	301453.0	18.5000	0.0000
22.0000	261772.1	22.0000	-0.0000
25.5000	227965.1	25.4999	-0.0001
29.0000	199075.4	28.9999	-0.0001
32.5001	174315.7	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 (°C) = instrument temperature - bath temperature

