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SENSOR SERIAL NUMBER: 0630
 CALIBRATION DATE: 18-Feb-20

SBE 38 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 7.802224e-007
 a1 = 2.759422e-004
 a2 = -2.565464e-006
 a3 = 1.544060e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	844908.0	-1.5000	0.0000
1.0000	753082.3	0.9999	-0.0001
4.5000	642923.9	4.5000	-0.0000
8.0000	550710.8	8.0000	0.0000
11.5000	473253.0	11.5000	0.0000
15.0000	407971.1	15.0000	0.0000
18.5000	352770.4	18.5000	0.0000
22.0000	305945.7	22.0000	-0.0000
25.5000	266102.6	25.5000	-0.0000
29.0000	232097.9	29.0000	-0.0000
32.5000	202991.6	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

