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SENSOR SERIAL NUMBER: 0399
 CALIBRATION DATE: 03-Jan-18

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.844137e-005
 a1 = 2.760488e-004
 a2 = -2.605535e-006
 a3 = 1.559571e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	643702.9	1.0000	-0.0000
4.5000	549158.9	4.5001	0.0001
15.0000	347781.7	15.0000	0.0000
18.5000	300536.8	18.4999	-0.0001
24.0000	240357.3	24.0000	-0.0000
29.0000	197377.6	29.0001	0.0001
32.5000	172529.8	32.4999	-0.0001

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

