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SENSOR SERIAL NUMBER: 0399  
 CALIBRATION DATE: 01-Feb-23

SBE 45 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.744581e-005  
 a1 = 2.670155e-004  
 a2 = -1.909516e-006  
 a3 = 1.381185e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	643670.8	1.0000	0.0000
4.5000	549139.0	4.5000	-0.0000
15.0000	347777.4	15.0000	0.0000
18.5000	300534.5	18.5000	0.0000
24.0000	240357.4	24.0000	-0.0000
29.0000	197377.2	29.0000	0.0000
32.5000	172526.3	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

