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SENSOR SERIAL NUMBER: 0290  
 CALIBRATION DATE: 19-Feb-19

SBE 45 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.738859e-005  
 a1 = 2.799963e-004  
 a2 = -2.888509e-006  
 a3 = 1.643177e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	598568.3	1.0000	0.0000
4.5000	510748.0	4.5000	-0.0000
15.0000	323621.7	15.0000	-0.0000
18.5000	279702.8	18.5001	0.0001
24.0473	223331.0	24.0473	0.0000
29.0183	183656.7	29.0182	-0.0001
32.5000	160673.3	32.5001	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

