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SENSOR SERIAL NUMBER: 0442  
CALIBRATION DATE: 22-Jan-20

SBE 38 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.458849e-005  
a1 = 2.726683e-004  
a2 = -2.327512e-006  
a3 = 1.500106e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.4998	706532.3	-1.4998	0.0000
0.9999	629606.4	0.9999	0.0000
4.5000	537339.6	4.4999	-0.0001
8.0000	460128.5	8.0000	-0.0000
11.5000	395291.5	11.5000	0.0000
15.0000	340662.5	15.0001	0.0001
18.5000	294484.6	18.5000	0.0000
22.0000	255324.0	22.0000	-0.0000
25.5000	222011.5	25.5000	-0.0000
29.0000	193588.8	28.9999	-0.0001
32.5000	169265.8	32.5000	0.0000

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

