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SENSOR SERIAL NUMBER: 0083
CALIBRATION DATE: 16-Oct-19

SBE 35 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.98331911e-003
a1 = -1.35903455e-003
a2 = 1.99957259e-004
a3 = -1.10548895e-005
a4 = 2.33961569e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.499940	808493.66	-1.499897	0.000043
1.000040	722597.37	0.999969	-0.000071
4.500020	618865.14	4.500011	-0.000009
8.000040	531457.15	8.000081	0.000041
11.500120	457635.34	11.500137	0.000017
15.000120	395139.83	15.000121	0.000001
18.500100	342101.73	18.500101	0.000001
22.000100	296977.27	22.000052	-0.000048
25.500050	258487.30	25.500038	-0.000012
29.000020	225571.97	29.000078	0.000058
32.500190	197351.38	32.500168	-0.000022

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] + a_4[\ln^4(n)] \} - 273.15$

Residual (°C) = instrument temperature - bath temperature

