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SENSOR SERIAL NUMBER: 2024 CALIBRATION DATE: 19-Jun-18

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -5.074482e-005 a1 = 2.865363e-004 a2 = -3.291062e-006 a3 = 1.818167e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	687893.9	1.0000	0.0000
4.5000	588917.2	4.5000	-0.0000
15.0000	376655.9	15.0000	-0.0000
18.5000	326495.2	18.5000	0.0000
24.0000	262343.5	24.0000	0.0000
29.0000	216314.1	28.9999	-0.0001
32.5001	189601.5	32.5001	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 ( $^{\circ}$ C) = instrument temperature - bath temperature

