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SENSOR SERIAL NUMBER: 2023 CALIBRATION DATE: 28-May-21 SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -8.496333e-005 a1 = 2.903088e-004 a2 = -3.658778e-006 a3 = 1.892023e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	766750.7	1.0002	0.0002
4.5000	656012.3	4.4997	-0.0003
15.0000	418761.3	15.0002	0.0002
18.5000	362773.4	18.5002	0.0002
24.0000	291226.0	23.9997	-0.0003
29.0000	239927.7	29.0000	-0.0000
32.5000	210181.1	32.5001	0.0001

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

