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SENSOR SERIAL NUMBER: 2022 CALIBRATION DATE: 07-Apr-23

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -2.113375e-005 a1 = 2.797336e-004 a2 = -2.764551e-006 a3 = 1.670292e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
0.9999	693995.5	0.9999	-0.0000
4.4999	593956.6	4.4999	0.0000
15.0000	379556.2	14.9999	-0.0001
18.5000	328922.2	18.5000	0.0000
24.0000	264188.7	24.0000	0.0000
29.0000	217759.6	29.0000	-0.0000
32.5000	190824.5	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 ( $^{\circ}$ C) = instrument temperature - bath temperature

