## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0992 CALIBRATION DATE: 01-Dec-15 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = 5.747298e-005 a1 = 2.686513e-004 a2 = -2.064612e-006 a3 = 1.407888e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	800045.6	-1.5000	0.0000
1.0000	712635.1	1.0000	-0.0000
4.5000	607858.7	4.5000	-0.0000
8.0000	520229.4	8.0000	-0.0000
11.5000	446685.6	11.5000	0.0000
15.0000	384754.2	15.0000	0.0000
18.5000	332429.9	18.5001	0.0001
22.0000	288081.3	22.0000	-0.0000
25.5000	250374.1	25.5000	-0.0000
29.0000	218216.9	28.9999	-0.0001
32.5000	190710.9	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

