## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0520 CALIBRATION DATE: 16-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = -2.714216e-005 a1 = 2.818739e-004 a2 = -2.787240e-006 a3 = 1.708270e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	707207.4	-1.5000	0.0000
1.0000	632176.4	1.0000	-0.0000
4.5000	541848.1	4.5000	-0.0000
8.0000	465925.1	8.0000	-0.0000
11.5000	401896.6	11.5000	0.0000
15.0000	347724.8	15.0000	0.0000
18.5000	301746.1	18.5000	0.0000
22.0000	262600.6	22.0000	-0.0000
25.5000	229173.3	25.5000	-0.0000
29.0000	200545.1	29.0000	-0.0000
32.5000	175957.3	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

