Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0507 CALIBRATION DATE: 05-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.201616e-005 a1 = 2.785118e-004 a2 = -2.525532e-006 a3 = 1.645984e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	702273.3	-1.4999	0.0001
1.0000	627823.6	1.0000	-0.0000
4.5000	538183.2	4.4999	-0.0001
8.0000	462829.2	8.0000	-0.0000
11.5000	399271.8	11.5001	0.0001
14.9999	345493.0	15.0000	0.0001
18.5000	299842.0	18.5000	-0.0000
22.0000	260970.0	22.0000	-0.0000
25.5000	227773.0	25.4999	-0.0001
29.0000	199338.0	29.0000	-0.0000
32.5000	174913.8	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

