Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0991 CALIBRATION DATE: 14-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.261639e-005 a1 = 2.913564e-004 a2 = -3.494727e-006 a3 = 1.894743e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	685267.0	-1.5000	0.0000
1.0000	612634.6	1.0000	-0.0000
4.5000	525180.9	4.5000	-0.0000
8.0000	451662.5	8.0000	-0.0000
11.5000	389653.1	11.5000	0.0000
15.0000	337180.8	15.0001	0.0001
18.5000	292639.7	18.5000	0.0000
22.0000	254713.9	22.0000	-0.0000
25.5000	222324.0	25.4999	-0.0001
29.0000	194581.0	29.0000	-0.0000
32.5000	170750.8	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

