Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0515 CALIBRATION DATE: 05-Oct-16 SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.489277e-006 a1 = 2.758394e-004 a2 = -2.367238e-006 a3 = 1.595064e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	705114.8	-1.5000	0.0000
1.0000	630091.8	1.0000	-0.0000
4.5000	539811.3	4.4999	-0.0001
8.0000	463963.0	7.9999	-0.0001
11.5000	400025.6	11.5000	0.0000
14.9999	345954.8	15.0001	0.0002
18.5000	300082.0	18.5000	-0.0000
22.0000	261042.8	22.0000	-0.0000
25.5000	227719.9	25.4999	-0.0001
29.0000	199190.9	29.0000	0.0000
32.5000	174699.0	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

