

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0139
 CALIBRATION DATE: 15-May-09

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.455182e-005
 a1 = 2.802345e-004
 a2 = -2.605138e-006
 a3 = 1.656638e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	609604.0	1.0000	-0.0000
4.4999	522549.0	4.4999	0.0000
15.0000	335443.2	14.9998	-0.0002
18.4999	291116.3	18.5001	0.0002
23.9999	234349.0	23.9999	0.0000
29.0001	193546.1	29.0000	-0.0001
32.5000	169836.1	32.5001	0.0001

Temperature ITS-90 = $1/[a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]] - 273.15$ (°C)

Residual = instrument temperature - bath temperature

