

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0219
 CALIBRATION DATE: 04-Aug-09

SBE 45 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.737743e-005
 a1 = 2.736821e-004
 a2 = -2.328203e-006
 a3 = 1.493926e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	710472.5	1.0000	-0.0000
4.5000	606867.1	4.5000	0.0000
15.0000	385682.5	15.0000	-0.0000
18.5000	333660.9	18.5000	-0.0000
23.9999	267305.3	23.9999	0.0000
29.0000	219836.3	29.0000	-0.0000
32.5000	192354.5	32.5000	0.0000

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

