

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0063  
CALIBRATION DATE: 24-Feb-11

SBE 45 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 1.889221e-005  
a1 = 2.712700e-004  
a2 = -2.072335e-006  
a3 = 1.459228e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	693853.5	1.0000	0.0000
4.4999	593439.5	4.4999	-0.0000
15.0000	378526.1	15.0000	0.0000
18.5000	327847.3	18.5000	0.0000
24.0000	263104.7	24.0001	0.0001
29.0000	216713.7	28.9998	-0.0002
32.5000	189815.2	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

