

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1807  
CALIBRATION DATE: 19-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 2.097402e-005  
a1 = 2.724939e-004  
a2 = -2.282792e-006  
a3 = 1.536538e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	695552.2	0.9999	-0.0001
4.5000	594804.5	4.5002	0.0002
15.0000	379228.4	14.9999	-0.0001
18.5000	328398.1	18.4999	-0.0001
23.9999	263468.4	24.0000	0.0001
29.0000	216946.9	29.0002	0.0002
32.4999	189985.0	32.4998	-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

