

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1853  
CALIBRATION DATE: 19-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -8.868365e-005  
a1 = 2.975264e-004  
a2 = -4.016705e-006  
a3 = 2.027796e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	623092.8	1.0000	-0.0000
4.5000	533999.7	4.5001	0.0001
15.0000	342573.5	15.0000	0.0000
18.5000	297245.0	18.4999	-0.0001
23.9999	239199.8	24.0000	0.0001
29.0000	197494.6	29.0001	0.0001
32.4999	173269.1	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

