

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1804  
CALIBRATION DATE: 15-Jan-12

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 1.194261e-006

a1 = 2.741989e-004

a2 = -2.372175e-006

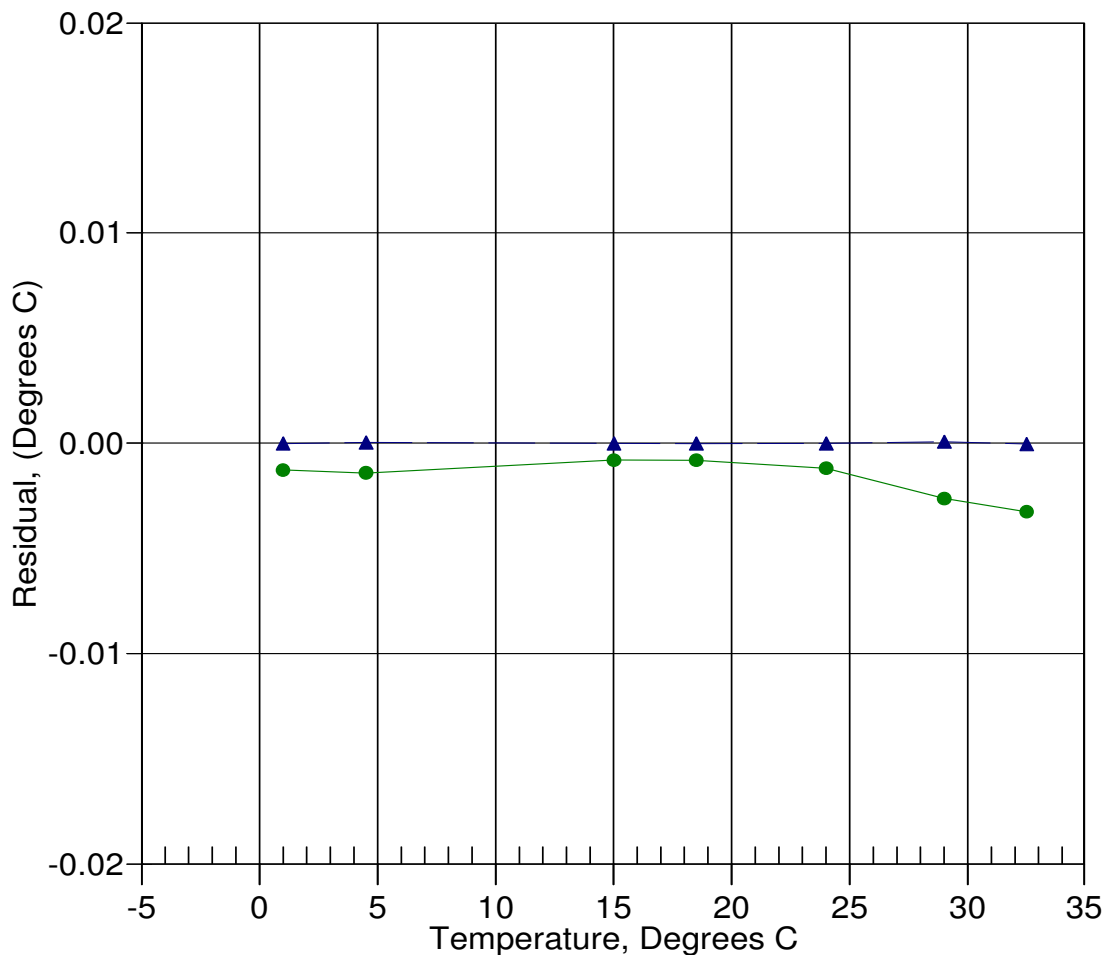
a3 = 1.576471e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	703340.0	1.0000	-0.0000
4.5000	601964.1	4.5000	0.0000
15.0000	384683.5	15.0000	-0.0000
18.4999	333367.5	18.4999	-0.0000
24.0000	267753.8	24.0000	-0.0000
29.0000	220691.4	29.0001	0.0001
32.5002	193388.1	32.5002	-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

Date, Delta T (mdeg C)



● 16-Dec-10 -1.63  
▲ 15-Jan-12 -0.00