

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0992
CALIBRATION DATE: 18-Aug-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -8.765059e-005
a1 = 2.941249e-004
a2 = -3.736769e-006
a3 = 1.954123e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	725564.6	-1.5000	0.0001
1.0000	648647.7	1.0000	-0.0000
4.5000	556037.3	4.4999	-0.0001
7.9999	478184.3	7.9999	0.0000
11.4999	412519.4	11.4999	0.0000
14.9999	356954.9	14.9999	0.0000
18.4999	309788.7	18.4999	0.0000
21.9999	269629.4	21.9999	-0.0000
25.5000	235331.8	25.4999	-0.0001
28.9999	205957.3	28.9999	-0.0000
32.5000	180725.3	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

