

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0992
CALIBRATION DATE: 13-Sep-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.215605e-005
a1 = 2.675825e-004
a2 = -1.983676e-006
a3 = 1.387539e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	800054.7	-1.5001	0.0000
0.9999	712644.6	0.9999	-0.0000
4.4999	607866.8	4.4999	-0.0000
8.0001	520234.0	8.0001	-0.0000
11.4997	446698.8	11.4997	-0.0000
15.0000	384760.6	15.0001	0.0001
18.4999	332437.2	18.5000	0.0001
22.0001	288085.1	22.0001	0.0000
25.4999	250380.9	25.4998	-0.0001
28.9999	218221.7	28.9999	-0.0000
32.4999	190715.2	32.5000	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

