

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1777
CALIBRATION DATE: 18-Aug-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -4.162211e-005
a1 = 2.803718e-004
a2 = -2.598875e-006
a3 = 1.636806e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	750992.9	-1.5001	0.0000
1.0000	671358.2	1.0000	-0.0000
4.5000	575489.5	4.4999	-0.0001
7.9999	494907.1	7.9999	0.0000
11.4999	426946.8	11.4999	0.0000
14.9999	369443.8	14.9999	0.0000
18.4999	320634.5	18.4999	0.0000
21.9999	279076.8	21.9999	-0.0000
25.5000	243584.7	25.5000	-0.0000
28.9999	213188.0	28.9998	-0.0001
32.5000	187076.5	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

