

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1777
CALIBRATION DATE: 13-Sep-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 8.129292e-005
a1 = 2.705042e-004
a2 = -2.141738e-006
a3 = 1.449977e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	685046.7	-1.5001	0.0000
0.9999	610425.5	0.9999	-0.0000
4.4999	520939.6	4.4999	-0.0000
8.0001	446058.5	8.0001	-0.0000
11.4997	383192.4	11.4997	0.0000
15.0000	330216.3	15.0001	0.0001
18.4999	285443.7	18.4999	0.0000
22.0001	247473.9	22.0001	0.0000
25.4999	215180.6	25.4998	-0.0001
28.9999	187625.2	28.9999	0.0000
32.4999	164046.9	32.4999	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

