

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0990
CALIBRATION DATE: 21-Jan-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.475529e-004
a1 = 3.063071e-004
a2 = -4.513652e-006
a3 = 2.002304e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	790300.5	-1.5000	0.0000
1.0000	705048.0	1.0000	-0.0000
4.4999	602687.2	4.4999	-0.0000
7.9999	516907.3	7.9999	0.0000
11.5000	444778.7	11.5000	-0.0000
15.0000	383923.3	15.0000	0.0000
18.5000	332413.0	18.5000	0.0000
21.9999	288674.0	22.0000	0.0001
25.5000	251417.5	25.5000	-0.0000
29.0000	219588.1	28.9999	-0.0001
32.4999	192314.9	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

