

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0520
CALIBRATION DATE: 17-Dec-10

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.911704e-005
a1 = 2.799928e-004
a2 = -2.640633e-006
a3 = 1.670297e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	707194.7	-1.5000	-0.0000
0.9999	632165.7	0.9999	0.0000
4.4999	541839.9	4.4999	0.0000
8.0000	465918.7	8.0000	-0.0000
11.5000	401892.4	11.5000	0.0000
15.0000	347721.4	15.0000	0.0000
18.5000	301743.7	18.5000	0.0000
22.0000	262599.9	21.9999	-0.0001
25.5000	229171.9	25.5000	0.0000
29.0000	200544.3	29.0000	0.0000
32.5000	175957.0	32.5000	-0.0000

Temperature ITS-90 = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

