

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0514
CALIBRATION DATE: 16-Dec-10

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.538637e-005
a1 = 2.789571e-004
a2 = -2.501438e-006
a3 = 1.610388e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	706263.0	-1.5000	0.0000
1.0000	631202.0	1.0000	-0.0000
4.4999	540869.0	4.4999	0.0000
8.0000	464967.6	8.0000	-0.0000
11.5000	400978.3	11.5000	0.0000
15.0000	346855.4	15.0000	0.0000
18.5000	300932.0	18.5000	-0.0000
22.0000	261843.6	22.0000	0.0000
25.5000	228473.3	25.5000	0.0000
29.0000	199901.2	28.9999	-0.0001
32.5000	175366.2	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

