

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0806
CALIBRATION DATE: 16-Dec-10

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -2.239677e-004
a1 = 3.188108e-004
a2 = -5.347265e-006
a3 = 2.223550e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	803566.7	-1.5000	-0.0000
1.0000	717494.6	1.0000	0.0000
4.4999	614045.8	4.5000	0.0001
8.0000	527255.1	8.0000	-0.0000
11.5000	454192.1	11.5000	-0.0000
15.0000	392481.1	15.0000	-0.0000
18.5000	340189.0	18.5000	0.0000
22.0000	295739.4	22.0000	0.0000
25.5000	257839.7	25.5000	0.0000
29.0000	225428.1	29.0000	-0.0000
32.5000	197629.0	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

