

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0829
CALIBRATION DATE: 31-May-07

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -9.121887e-005

a1 = 2.976696e-004

a2 = -4.153304e-006

a3 = 1.997422e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0001	695123.3	1.0001	-0.0000
4.5000	594404.9	4.5000	0.0000
15.0000	378909.7	15.0000	-0.0000
24.0000	263237.7	24.0000	-0.0000
29.0000	216764.3	29.0001	0.0001
32.5000	189832.1	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

