

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1679
CALIBRATION DATE: 19-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -4.951728e-005
a1 = 2.859765e-004
a2 = -3.125808e-006
a3 = 1.774750e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	658492.3	1.0000	0.0000
4.5000	564095.8	4.5000	-0.0000
15.0000	361443.8	15.0000	0.0000
18.5000	313500.1	18.4999	-0.0001
23.9999	252138.1	24.0000	0.0001
29.0000	208073.7	28.9999	-0.0001
32.4999	182486.2	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

