

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1866
CALIBRATION DATE: 21-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 4.799621e-005
a1 = 2.622777e-004
a2 = -1.265293e-006
a3 = 1.315743e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	650662.5	1.0000	0.0000
4.5000	557776.4	4.5000	-0.0000
15.0000	358106.5	15.0000	0.0000
18.5000	310797.0	18.5001	0.0001
23.9999	250201.0	23.9997	-0.0002
29.0000	206633.8	29.0002	0.0002
32.5000	181319.5	32.4999	-0.0001

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

