

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4590
 CALIBRATION DATE: 16-Jul-09

SBE 37 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -5.406187e-005
 a1 = 2.817296e-004
 a2 = -2.709151e-006
 a3 = 1.661878e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	689609.5	1.0001	0.0001
4.4999	591130.9	4.4998	-0.0001
14.9999	379460.4	15.0000	0.0001
18.5000	329323.2	18.5000	-0.0000
24.0000	265106.9	24.0000	-0.0000
29.0001	218953.2	29.0000	-0.0001
32.5000	192133.8	32.5001	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

