

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0042

CALIBRATION DATE: 19-Sep-11

SBE GLIDER PAYLOAD CTD

TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -8.868188e-005

a1 = 3.055845e-004

a2 = -4.435191e-006

a3 = 2.001326e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	568903.5	0.9999	-0.0001
4.5000	486253.1	4.5001	0.0001
15.0000	309679.8	14.9999	-0.0001
18.5000	268111.8	18.5000	0.0000
24.0000	215061.0	24.0001	0.0001
29.0000	177085.8	28.9999	-0.0001
32.5000	155086.1	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

Date, Delta T (mdeg C)

19-Sep-11 -0.00

