## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0511 CALIBRATION DATE: 13-Jan-12

SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **ITS-90 COEFFICIENTS**

a0 = -2.393303e-005a1 = 2.808227e-004a2 = -2.692221e-006a3 = 1.686439e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	704967.9	-1.5001	0.0000
0.9999	630243.8	0.9999	-0.0000
4.4999	540273.1	4.4999	-0.0000
7.9999	464639.8	7.9999	-0.0000
11.4999	400846.9	11.4999	0.0000
14.9999	346865.2	14.9999	0.0000
18.4999	301041.7	18.4999	0.0000
21.9999	262023.1	21.9999	0.0000
25.4999	228699.8	25.4998	-0.0001
28.9999	200156.5	28.9999	-0.0000
32.4999	175638.1	32.4999	0.0000

Temperature ITS-90 =  $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$  (°C)

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)

