

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0046
 CALIBRATION DATE: 03-Jun-11

SBE 48 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.757147e-005
 a1 = 2.595297e-004
 a2 = -1.309902e-006
 a3 = 1.212740e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	772728.3	0.9999	-0.0001
4.4999	659537.0	4.5000	0.0001
15.0000	418250.3	14.9998	-0.0002
18.5000	361583.5	18.5001	0.0001
24.0001	289366.4	24.0002	0.0001
29.0000	237758.3	29.0000	-0.0000
32.5000	207901.9	32.5000	-0.0000

$$\text{Temperature ITS-90} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15 \text{ (}^\circ\text{C)}$$

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)

03-Jun-11 -0.00

