

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0399  
CALIBRATION DATE: 01-May-15

SBE 45 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 6.996445e-005  
a1 = 2.711822e-004  
a2 = -2.240976e-006  
a3 = 1.469188e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	643651.2	1.0000	0.0000
4.5000	549128.8	4.5000	-0.0000
14.9999	347778.2	14.9999	0.0000
18.4999	300535.3	18.5000	0.0001
24.0000	240358.8	23.9999	-0.0001
29.0000	197379.3	29.0000	0.0000
32.5000	172528.8	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

n = instrument output

