

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5001

CALIBRATION DATE: 12-May-15

SBE 3 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.41624517e-003

h = 6.50067718e-004

i = 2.29629895e-005

j = 1.92324014e-006

f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3237.026	-1.5000	0.00001
0.9999	3422.279	0.9999	0.00004
4.5000	3694.341	4.4999	-0.00008
8.0000	3981.606	8.0000	-0.00005
11.4999	4284.477	11.5000	0.00007
14.9999	4603.357	15.0000	0.00011
18.5000	4938.619	18.4999	-0.00005
22.0000	5290.656	22.0000	-0.00004
25.5000	5659.825	25.5000	-0.00003
29.0000	6046.477	29.0000	0.00001
32.5000	6450.941	32.5000	0.00001

Temperature ITS-90 =  $1 / \{ g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)] \} - 273.15$  (°C)

Residual = instrument temperature - bath temperature

