

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1692  
CALIBRATION DATE: 03-Jun-14

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.80196423e-003  
h = 6.71987601e-004  
i = 2.56081976e-005  
j = 2.02235901e-006  
f0 = 1000.0

| BATH TEMP<br>(ITS-90) | INSTRUMENT FREQ<br>(Hz) | INST TEMP<br>(ITS-90) | RESIDUAL<br>(ITS-90) |
|-----------------------|-------------------------|-----------------------|----------------------|
| -1.5000               | 5874.298                | -1.5000               | -0.00001             |
| 1.0000                | 6212.617                | 1.0000                | -0.00000             |
| 4.5000                | 6709.533                | 4.5000                | 0.00001              |
| 8.0000                | 7234.275                | 8.0000                | 0.00000              |
| 11.5000               | 7787.588                | 11.5001               | 0.00005              |
| 15.0000               | 8370.160                | 15.0000               | -0.00000             |
| 18.5000               | 8982.680                | 18.4998               | -0.00015             |
| 22.0000               | 9625.899                | 22.0001               | 0.00006              |
| 25.5000               | 10300.355               | 25.5001               | 0.00007              |
| 29.0000               | 11006.688               | 29.0000               | 0.00001              |
| 32.5000               | 11745.505               | 32.5000               | -0.00003             |

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

