

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5773

CALIBRATION DATE: 05-May-15

SBE 3 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.35205932e-003

h = 6.29422572e-004

i = 1.96157929e-005

j = 1.42358822e-006

f0 = 1000.0

| BATH TEMP<br>(ITS-90) | INSTRUMENT FREQ<br>(Hz) | INST TEMP<br>(ITS-90) | RESIDUAL<br>(ITS-90) |
|-----------------------|-------------------------|-----------------------|----------------------|
| -1.5000               | 3005.827                | -1.5000               | -0.00003             |
| 0.9999                | 3181.631                | 0.9999                | 0.00005              |
| 4.4999                | 3440.143                | 4.4999                | 0.00001              |
| 7.9999                | 3713.504                | 7.9999                | -0.00000             |
| 11.4999               | 4002.139                | 11.4999               | -0.00002             |
| 14.9999               | 4306.472                | 14.9999               | 0.00001              |
| 18.5000               | 4626.912                | 18.5000               | -0.00004             |
| 22.0000               | 4963.858                | 22.0000               | 0.00001              |
| 25.5000               | 5317.697                | 25.5000               | 0.00003              |
| 29.0000               | 5688.807                | 29.0000               | 0.00002              |
| 32.4999               | 6077.542                | 32.4999               | -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

