

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3318  
CALIBRATION DATE: 06-Mar-07

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 4.575915e-005  
a1 = 2.587088e-004  
a2 = -8.624436e-007  
a3 = 1.201301e-007

| BATH TEMP<br>(ITS-90) | INSTRUMENT<br>OUTPUT | INST TEMP<br>(ITS-90) | RESIDUAL<br>(ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000                | 662195.9             | 1.0000                | -0.0000              |
| 4.5000                | 568015.9             | 4.5000                | 0.0000               |
| 14.9999               | 365361.3             | 14.9999               | 0.0000               |
| 18.4999               | 317289.4             | 18.4999               | -0.0000              |
| 24.0000               | 255665.6             | 24.0000               | -0.0000              |
| 28.9999               | 211331.3             | 29.0000               | 0.0001               |
| 32.5000               | 185548.9             | 32.4999               | -0.0001              |

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

