

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3318  
 CALIBRATION DATE: 20-Jun-06

SBE 37 RTC CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

**COEFFICIENTS:**

rtca0 = 9.999732e-001  
 rtca1 = 1.686132e-006  
 rtca2 = -3.022743e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999750        | 0.9999749             | -0.1              |
| 4.5000                | 0.9999800        | 0.9999802             | 0.2               |
| 15.0000               | 0.9999920        | 0.9999917             | -0.3              |
| 18.5000               | 0.9999940        | 0.9999941             | 0.1               |
| 23.9999               | 0.9999960        | 0.9999963             | 0.3               |
| 28.9999               | 0.9999970        | 0.9999967             | -0.3              |
| 32.5001               | 0.9999960        | 0.9999961             | 0.1               |

$$\text{RTC frequency} = \text{rtca0} + \text{rtca1} * t + \text{rtca2} * t^2$$

$$\text{Residual} = (\text{Computed RTC frequency} - \text{Measured RTC frequency}) * 1e6$$

