

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3533  
CALIBRATION DATE: 19-Jul-07

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999792e-001

rtca1 = 1.690095e-006

rtca2 = -3.075013e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 0.9999                | 0.9999810        | 0.9999809             | -0.1              |
| 4.5000                | 0.9999860        | 0.9999862             | 0.2               |
| 15.0000               | 0.9999980        | 0.9999977             | -0.3              |
| 18.4999               | 1.0000000        | 1.0000000             | -0.0              |
| 23.9999               | 1.0000020        | 1.0000021             | 0.1               |
| 29.0000               | 1.0000020        | 1.0000024             | 0.4               |
| 32.5001               | 1.0000020        | 1.0000017             | -0.3              |

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

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

Date, Delta F ppm

