

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 3763  
CALIBRATION DATE: 22-Dec-10

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999796e-001

rtca1 = 1.714081e-006

rtca2 = -3.248314e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999810        | 0.9999813             | 0.3               |
| 4.5000                | 0.9999870        | 0.9999866             | -0.4              |
| 15.0000               | 0.9999980        | 0.9999980             | -0.0              |
| 18.5000               | 1.0000000        | 1.0000002             | 0.2               |
| 24.0000               | 1.0000020        | 1.0000020             | 0.0               |
| 29.0000               | 1.0000020        | 1.0000020             | -0.0              |
| 32.5001               | 1.0000010        | 1.0000010             | -0.0              |

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

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

Date, Delta F ppm

