

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3531  
CALIBRATION DATE: 30-Oct-13

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999843e-001

rtca1 = 1.636624e-006

rtca2 = -3.073115e-008

| BATH TEMP<br>(ITS-90) | RTC FREO<br>(Hz) | COMPUTED FREO<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 0.9999860        | 0.9999859             | -0.1              |
| 4.5000                | 0.9999910        | 0.9999911             | 0.1               |
| 15.0000               | 1.0000020        | 1.0000020             | -0.0              |
| 18.5000               | 1.0000040        | 1.0000041             | 0.1               |
| 24.0000               | 1.0000060        | 1.0000059             | -0.1              |
| 29.0000               | 1.0000060        | 1.0000060             | -0.0              |
| 32.5000               | 1.0000050        | 1.0000051             | 0.1               |

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

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

Date, Delta F ppm

