

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2448  
CALIBRATION DATE: 14-Jun-08

SBE 37 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 1.000000e+000

rtca1 = 1.693474e-006

rtca2 = -3.509475e-008

| BATH TEMP<br>(ITS-90) | RTC FREQ<br>(Hz) | COMPUTED FREQ<br>(Hz) | RESIDUAL<br>(PPM) |
|-----------------------|------------------|-----------------------|-------------------|
| 1.0000                | 1.0000020        | 1.0000019             | -0.1              |
| 4.5000                | 1.0000070        | 1.0000071             | 0.1               |
| 15.0000               | 1.0000180        | 1.0000177             | -0.3              |
| 18.5000               | 1.0000190        | 1.0000195             | 0.5               |
| 23.9999               | 1.0000210        | 1.0000207             | -0.3              |
| 29.0000               | 1.0000200        | 1.0000198             | -0.2              |
| 32.5000               | 1.0000180        | 1.0000182             | 0.2               |

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

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

Date, Delta F ppm

