## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0509 CALIBRATION DATE: 14-Oct-16

SBE 39 RTC CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

rtca0 = 9.999714e-001 rtca1 = 1.645871e-006 rtca2 = -3.426058e-008

| BATH              | RTC            | COMPUTED       | RESIDUAL |
|-------------------|----------------|----------------|----------|
| TEMPERATURE (° C) | FREQUENCY (Hz) | FREQUENCY (Hz) | (PPM)    |
| -1.5000           | 0.9999690      | 0.9999689      | -0.1     |
| 1.0000            | 0.9999730      | 0.9999730      | 0.0      |
| 4.5000            | 0.9999780      | 0.9999781      | 0.1      |
| 8.0000            | 0.9999820      | 0.9999824      | 0.4      |
| 11.5000           | 0.9999860      | 0.9999858      | -0.2     |
| 15.0000           | 0.9999890      | 0.9999884      | -0.6     |
| 18.5000           | 0.9999900      | 0.9999901      | 0.1      |
| 22.0000           | 0.9999910      | 0.9999910      | 0.0      |
| 25.5000           | 0.9999910      | 0.9999911      | 0.1      |
| 29.0000           | 0.9999900      | 0.9999903      | 0.3      |
| 32.5000           | 0.9999890      | 0.9999887      | -0.3     |

t = temperature (°C)

RTC frequency =  $rtca0 + rtca1 * t + rtca2 * t^2$ 

Residual (PPM) = (Computed RTC frequency - Measured RTC frequency) \* 1e6

