

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0509  
CALIBRATION DATE: 13-Jan-12

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999714e-001

rtca1 = 1.647736e-006

rtca2 = -3.475313e-008

BATH TEMP (ITS-90)	RTC FREO (Hz)	COMPUTED FREO (Hz)	RESIDUAL (PPM)
-1.5001	0.9999690	0.9999688	-0.2
0.9999	0.9999730	0.9999730	-0.0
4.4999	0.9999780	0.9999781	0.1
7.9999	0.9999820	0.9999823	0.3
11.4999	0.9999860	0.9999857	-0.3
14.9999	0.9999880	0.9999883	0.3
18.4999	0.9999900	0.9999900	-0.0
21.9999	0.9999910	0.9999908	-0.2
25.4999	0.9999910	0.9999908	-0.2
28.9999	0.9999900	0.9999899	-0.1
32.4999	0.9999880	0.9999882	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

