

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0514  
CALIBRATION DATE: 16-Dec-10

SBE 39 RTC CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

rtca0 = 9.999744e-001

rtca1 = 1.685146e-006

rtca2 = -3.442572e-008

BATH TEMP (ITS-90)	RTC FREO (Hz)	COMPUTED FREO (Hz)	RESIDUAL (PPM)
-1.5000	0.9999720	0.9999718	-0.2
1.0000	0.9999760	0.9999761	0.1
4.4999	0.9999810	0.9999813	0.3
8.0000	0.9999860	0.9999857	-0.3
11.5000	0.9999890	0.9999893	0.3
15.0000	0.9999920	0.9999920	-0.0
18.5000	0.9999940	0.9999938	-0.2
22.0000	0.9999950	0.9999948	-0.2
25.5000	0.9999950	0.9999950	0.0
29.0000	0.9999940	0.9999943	0.3
32.5000	0.9999930	0.9999928	-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

