

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 17-Dec-10

SBE 39 RTC CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

rtca0 = 9.999825e-001
rtca1 = 1.593034e-006
rtca2 = -3.520742e-008

BATH TEMP (ITS-90)	RTC FREQ (Hz)	COMPUTED FREQ (Hz)	RESIDUAL (PPM)
-1.5000	0.9999800	0.9999800	-0.0
0.9999	0.9999840	0.9999840	0.0
4.4999	0.9999890	0.9999889	-0.1
8.0000	0.9999930	0.9999929	-0.1
11.5000	0.9999960	0.9999961	0.1
15.0000	0.9999980	0.9999984	0.4
18.5000	1.0000000	0.9999999	-0.1
22.0000	1.0000010	1.0000005	-0.5
25.5000	1.0000000	1.0000002	0.2
29.0000	0.9999990	0.9999990	0.0
32.5000	0.9999970	0.9999970	0.0

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

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

Date, Delta F ppm

