Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3114
CALIBRATION DATE: 11-Jan-12

SBE16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.21000399e-003
h = 5.87975768e-004
i = -1.50977296e-006
j = -3.05673990e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763889e-003
b = 5.82581603e-004
c = 7.30542303e-006
d = -3.05661949e-006
f0 = 2608.193

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	2608.193	0.9997	-0.00020
4.5000	2822.713	4.5003	0.00034
14.9999	3540.450	14.9998	-0.00009
18.5000	3805.725	18.4997	-0.00032
24.0000	4250.351	24.0001	0.00014
29.0000	4685.023	29.0004	0.00042
32.5000	5007.094	32.4997	-0.00030

Temperature ITS-90 = $1/\{g + h[ln(f_0/f)] + i[ln^2(f_0/f)] + j[ln^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1/\{a + b[ln(f_0/f)] + c[ln^2(f_0/f)] + d[ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be 1.00024 * T_{90} (-2 to 35 °C)

Residual = instrument temperature - bath temperature