Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3233
CALIBRATION DATE: 27-Nov-12

SBE21 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.21684423e-003
h = 6.33361437e-004
i = 1.99540805e-005
j = 1.35890842e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763572e-003
b = 6.00112881e-004
c = 1.62149641e-005
d = 1.36034760e-006
f0 = 2519.111

BATH TEMP (ITS-90)	INSTRUMENT FREO (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2519.111	0.9999	-0.00006
4.5000	2720.205	4.5001	0.00011
15.0000	3392.690	14.9998	-0.00015
18.5000	3641.006	18.5001	0.00011
24.0000	4056.690	24.0000	-0.00005
29.0000	4462.497	29.0001	0.00011
32.5000	4762.795	32.4999	-0.00006

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