Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2446
CALIBRATION DATE: 30-Jun-12

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.37259088e-003
h = 6.48545489e-004
i = 2.39564675e-005
j = 2.23596204e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121202e-003
b = 6.03885226e-004
c = 1.65612138e-005
d = 2.23755076e-006
f0 = 3024.107

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3024.107	-1.5000	0.00002
1.0000	3197.283	1.0000	-0.00003
4.5000	3451.638	4.5000	-0.00001
8.0000	3720.230	8.0000	-0.00002
11.5000	4003.449	11.5000	0.00003
15.0000	4301.658	15.0001	0.00006
18.5000	4615.209	18.5000	-0.00002
22.0000	4944.462	21.9999	-0.00005
25.5000	5289.758	25.5000	0.00001
29.0000	5651.402	29.0000	0.00001
32.5000	6029.709	32.5000	0.00000

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