Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1384
CALIBRATION DATE: 31-Jul-12

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.87009672e-003
h = 6.80764003e-004
i = 2.71752442e-005
j = 2.16381211e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121234e-003
b = 6.02137615e-004
c = 1.50987271e-005
d = 2.16527594e-006
f0 = 6453.251

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6453.251	-1.5000	-0.00000
1.0000	6823.861	1.0000	0.00001
4.5000	7368.115	4.5000	0.00001
8.0000	7942.728	7.9999	-0.00005
11.5000	8548.521	11.5000	-0.00001
14.9999	9186.228	14.9999	0.00004
18.4999	9856.615	18.4999	0.00004
22.0000	10560.397	22.0000	-0.00002
25.5000	11298.247	25.5000	-0.00001
29.0000	12070.822	29.0000	-0.00003
32.5000	12878.774	32.5000	0.00003

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