SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2900
CALIBRATION DATE: 15-May-09

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.32932377e-003
h = 6.44553402e-004
i = 2.36031847e-005
j = 2.32615052e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121345e-003
b = 6.03115444e-004
c = 1.63652704e-005
d = 2.32773492e-006
f0 = 2832.467

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	2832.467	-1.5001	0.00002
0.9999	2994.880	0.9999	-0.00002
4.4999	3233.436	4.4999	-0.00000
7.9999	3485.356	7.9999	-0.00001
11.4999	3750.998	11.4999	-0.00001
14.9999	4030.711	14.9999	0.00003
18.4999	4324.820	18.4999	0.00000
21.9999	4633.659	21.9999	0.00004
25.4999	4957.521	25.4998	-0.00006
28.9999	5296.731	28.9999	-0.00001
32.4999	5651.558	32.4999	0.00002

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