SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 5171
CALIBRATION DATE: 18-Feb-10

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.39251665e-003
h = 6.45697898e-004
i = 2.31743619e-005
j = 2.18386423e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121226e-003
b = 6.01411298e-004
c = 1.57101147e-005
d = 2.18537559e-006
f0 = 3137.684

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3137.684	-1.5000	0.00000
1.0000	3318.114	1.0000	-0.00001
4.5000	3583.149	4.5000	0.00003
8.0000	3863.044	8.0000	-0.00003
11.5000	4158.208	11.5000	-0.00001
15.0000	4469.021	15.0000	0.00003
18.5000	4795.850	18.5000	0.00003
22.0000	5139.050	21.9999	-0.00006
25.5000	5498.987	25.5000	-0.00002
29.0000	5875.986	29.0001	0.00006
32.5000	6270.343	32.5000	-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