SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2490
CALIBRATION DATE: 05-Aug-09

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.32807162e-003
h = 6.33302313e-004
i = 2.14327702e-005
j = 1.76940351e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121340e-003
b = 5.94104445e-004
c = 1.58549613e-005
d = 1.77085451e-006
f0 = 2874.426

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	2874.426	-1.5001	0.00002
0.9999	3041.816	0.9999	-0.00002
4.4999	3287.933	4.4999	-0.00002
7.9999	3548.150	7.9999	-0.00001
11.4999	3822.872	11.4999	0.00001
14.9999	4112.492	14.9999	0.00005
18.4999	4417.387	18.4999	-0.00001
21.9999	4737.942	21.9999	-0.00002
25.4999	5074.520	25.4999	-0.00001
28.9999	5427.472	28.9999	-0.00000
32.4999	5797.139	32.4999	0.00001

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