SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 4799
CALIBRATION DATE: 21-May-09

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.36415575e-003
h = 6.37354699e-004
i = 2.11350518e-005
j = 1.81145262e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121355e-003
b = 5.97323696e-004
c = 1.51385504e-005
d = 1.81286198e-006
f0 = 3029.517

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	3029.517	-1.5001	0.00001
0.9999	3204.947	0.9999	-0.00001
4.4999	3462.735	4.4999	0.00000
7.9999	3735.105	7.9999	-0.00001
11.4999	4022.457	11.4999	-0.00003
14.9999	4325.193	15.0000	0.00007
18.4999	4643.663	18.4999	-0.00003
21.9999	4978.263	21.9999	-0.00002
25.4999	5329.340	25.4999	0.00000
28.9999	5697.233	28.9999	-0.00000
32.4999	6082.276	32.4999	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