SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1364
CALIBRATION DATE: 16-Nov-06

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.84791955e-003
h = 6.77870311e-004
i = 2.49050026e-005
j = 1.80698830e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121132e-003
b = 6.05091380e-004
c = 1.50252607e-005
d = 1.80840578e-006
f0 = 6218.866

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6218.866	-1.4999	0.00007
1.0000	6574.202	1.0000	-0.00001
4.5000	7095.839	4.4999	-0.00013
8.0000	7646.383	7.9999	-0.00015
11.5000	8226.612	11.5001	0.00006
15.0000	8837.238	15.0004	0.00037
18.5000	9478.837	18.5000	0.00004
22.0000	10152.202	21.9997	-0.00028
25.5000	10858.107	25.5000	-0.00005
29.0000	11597.042	29.0000	-0.00000
32.5000	12369.660	32.5001	0.00007

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 ITS-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