SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1609
CALIBRATION DATE: 03-Aug-04

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86575232e-003
h = 6.79619270e-004
i = 2.60555361e-005
j = 2.00003179e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121106e-003
b = 6.03709377e-004
c = 1.49453741e-005
d = 2.00146644e-006
f0 = 6399.579

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6399.579	-1.4999	0.00009
1.0000	6766.094	1.0000	-0.00004
4.5000	7304.223	4.4998	-0.00017
8.0000	7872.272	7.9999	-0.00012
11.5000	8471.025	11.5001	0.00015
15.0000	9101.213	15.0005	0.00048
18.5000	9763.344	18.4997	-0.00027
22.0000	10458.472	21.9998	-0.00021
25.5000	11187.153	25.5000	-0.00000
29.0000	11949.980	29.0001	0.00008
32.5000	12747.561	32.5000	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 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