SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2946
CALIBRATION DATE: 12-Aug-04

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.34402998e-003
h = 6.39234340e-004
i = 2.14700579e-005
j = 1.85362098e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121240e-003
b = 5.99740914e-004
c = 1.55364933e-005
d = 1.85507137e-006
f0 = 2920.986

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	2920.986	-1.5000	-0.00001
1.0000	3089.439	1.0000	0.00004
4.5000	3336.912	4.5000	-0.00003
8.0000	3598.328	8.0000	-0.00004
11.5000	3874.067	11.5000	-0.00003
15.0000	4164.504	15.0001	0.00008
18.5000	4469.978	18.5000	0.00003
22.0000	4790.852	22.0000	-0.00001
25.5000	5127.465	25.5000	-0.00002
29.0000	5480.136	28.9999	-0.00008
32.5000	5849.203	32.5001	0.00006

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