SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1075
CALIBRATION DATE: 16-Nov-99s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.81091253e-03
h = 6.68979182e-04
i = 2.51679163e-05
j = 1.99205337e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68139015e-03
b = 5.98109917e-04
c = 1.44847504e-05
d = 1.99343776e-06
f_0 = 6002.186

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5131	6002.186	-1.5131	0.00000
1.0483	6357.997	1.0483	-0.00000
4.6212	6879.371	4.6212	0.00001
8.1280	7420.158	8.1280	0.00001
11.6314	7989.978	11.6314	-0.00004
15.1916	8600.031	15.1915	-0.00002
18.6552	9224.262	18.6552	0.00004
22.1560	9886.639	22.1560	0.00004
25.6834	10586.721	25.6834	-0.00002
29.1546	11308.276	29.1546	-0.00006
32.6298	12063.713	32.6298	0.00003

Temperature ITS-90 $= 1/\{g + h[\ell n(f_0/f)] + i[\ell n^2(f_0/f)] + j[\ell n^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 $= 1/\{a + b[\ell n(f_0/f)] + c[\ell n^2(f_0/f)] + d[\ell n^3(f_0/f)]\} - 273.15$ (°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