SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1692
CALIBRATION DATE: 16-Nov-99s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.80162264e-03
h = 6.71460214e-04
i = 2.53785825e-05
j = 1.98710959e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68139072e-03
b = 6.00429993e-04
c = 1.48517526e-05
d = 1.98852538e-06
f_0 = 5873.219

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5131	5873.219	-1.5132	-0.00004
1.0483	6220.019	1.0483	0.00002
4.6212	6728.076	4.6213	0.00006
8.1280	7254.927	8.1280	0.00002
11.6314	7809.953	11.6314	-0.00002
15.1916	8404.046	15.1915	-0.00004
18.6552	9011.813	18.6551	-0.00013
22.1560	9656.679	22.1560	0.00009
25.6834	10338.114	25.6835	0.00009
29.1546	11040.324	29.1547	0.00002
32.6298	11775.375	32.6297	-0.00006

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