SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1701
CALIBRATION DATE: 16-Nov-99s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.79015594e-03
h = 6.53314632e-04
i = 1.82713863e-05
j = 9.80531665e-07
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68139029e-03
b = 5.97810845e-04
c = 1.30705865e-05
d = 9.81671665e-07
f_0 = 5912.336

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5131	5912.336	-1.5131	-0.00001
1.0483	6262.950	1.0482	-0.00005
4.6212	6776.599	4.6213	0.00010
8.1280	7309.200	8.1280	0.00001
11.6314	7870.291	11.6314	-0.00001
15.1916	8470.893	15.1916	0.00001
18.6552	9085.338	18.6550	-0.00014
22.1560	9737.342	22.1559	-0.00005
25.6834	10426.473	25.6836	0.00012
29.1546	11136.728	29.1548	0.00013
32.6298	11880.310	32.6297	-0.00011

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