SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 775
CALIBRATION DATE: 20-Jun-02

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.21290328e-03
h = 6.03596620e-04
i = 3.46774509e-06
j = -2.13580847e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.64764218e-03
b = 5.91469265e-04
c = 9.54540883e-06
d = -2.13538767e-06
f_0 = 2571.762

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
0.9999	2571.762	0.9995	-0.00044
4.5000	2780.083	4.5008	0.00084
15.0001	3475.881	14.9991	-0.00105
18.5000	3732.829	18.5004	0.00036
23.9999	4162.869	24.0003	0.00037
29.0000	4582.802	29.0001	0.00015
32.5000	4893.705	32.4998	-0.00023

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