

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 775
 CALIBRATION DATE: 30-May-01

TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.21460426e-03
 h = 6.07603964e-04
 i = 6.60573503e-06
 j = -1.32491877e-06
 f₀ = 1000.000

IPTS-68 COEFFICIENTS

a = 3.64763613e-03
 b = 5.91717649e-04
 c = 1.03859751e-05
 d = -1.32430963e-06
 f₀ = 2571.928

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
0.9999	2571.928	0.9999	0.00001
4.5000	2780.110	4.4999	-0.00006
14.9998	3476.038	15.0003	0.00053
18.5000	3732.836	18.4993	-0.00072
23.9999	4162.963	24.0000	0.00010
29.0001	4582.920	29.0004	0.00032
32.5000	4893.737	32.4998	-0.00019

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 IPTS-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: T₆₈ is assumed to be 1.00024 * T₉₀ (-2 to 35 °C).

Residual = instrument temperature - bath temperature

