

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 775
 CALIBRATION DATE: 28-May-98

TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.20996275e-03
 h = 5.96989780e-04
 i = -1.52509747e-06
 j = -3.40581614e-06
 $f_0 = 1000.000$

IPTS-68 COEFFICIENTS

a = 3.64713438e-03
 b = 5.90883483e-04
 c = 8.15846311e-06
 d = -3.40569536e-06
 $f_0 = 2573.606$

BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
1.0380	2573.606	1.0376	-0.00038
4.7060	2792.476	4.7067	0.00074
15.3140	3498.379	15.3130	-0.00105
18.7370	3750.717	18.7376	0.00057
29.2860	4607.933	29.2865	0.00047
32.6590	4908.561	32.6586	-0.00036

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: T_{68} is assumed to be $1.00024 * T_{90}$ (-2 to 35 °C).

Residual = instrument temperature - bath temperature

