SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1075
CALIBRATION DATE: 14-Nov-00s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.81093723e-03
h = 6.68988344e-04
i = 2.51627419e-05
j = 1.99051925e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68126998e-03
b = 5.98117001e-04
c = 1.44866207e-05
d = 1.99190403e-06
f_0 = 6003.397

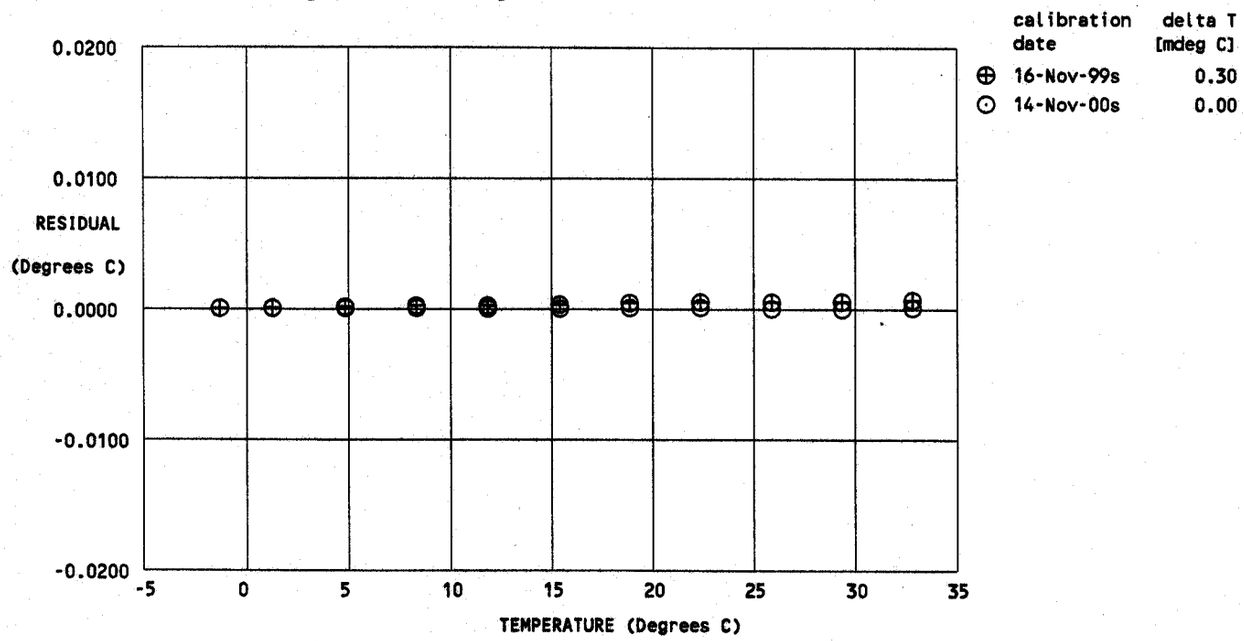
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5043	6003.397	-1.5043	-0.00000
1.0569	6359.227	1.0569	0.00001
4.6315	6880.889	4.6315	0.00000
8.1382	7421.751	8.1382	0.00002
11.6405	7991.455	11.6405	-0.00004
15.2009	8601.613	15.2009	-0.00003
18.6643	9225.870	18.6643	0.00004
22.1645	9888.203	22.1645	0.00005
25.6919	10588.330	25.6918	-0.00001
29.1622	11309.765	29.1621	-0.00007
32.6365	12065.065	32.6365	0.00004

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



POST CRUISE CALIBRATION