SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1075
CALIBRATION DATE: 30-Apr-02s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.81125134e-03
h = 6.69474229e-04
i = 2.53838021e-05
j = 2.02418679e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68120998e-03
b = 5.98133979e-04
c = 1.45264632e-05
d = 2.02558017e-06
f_0 = 6003.593

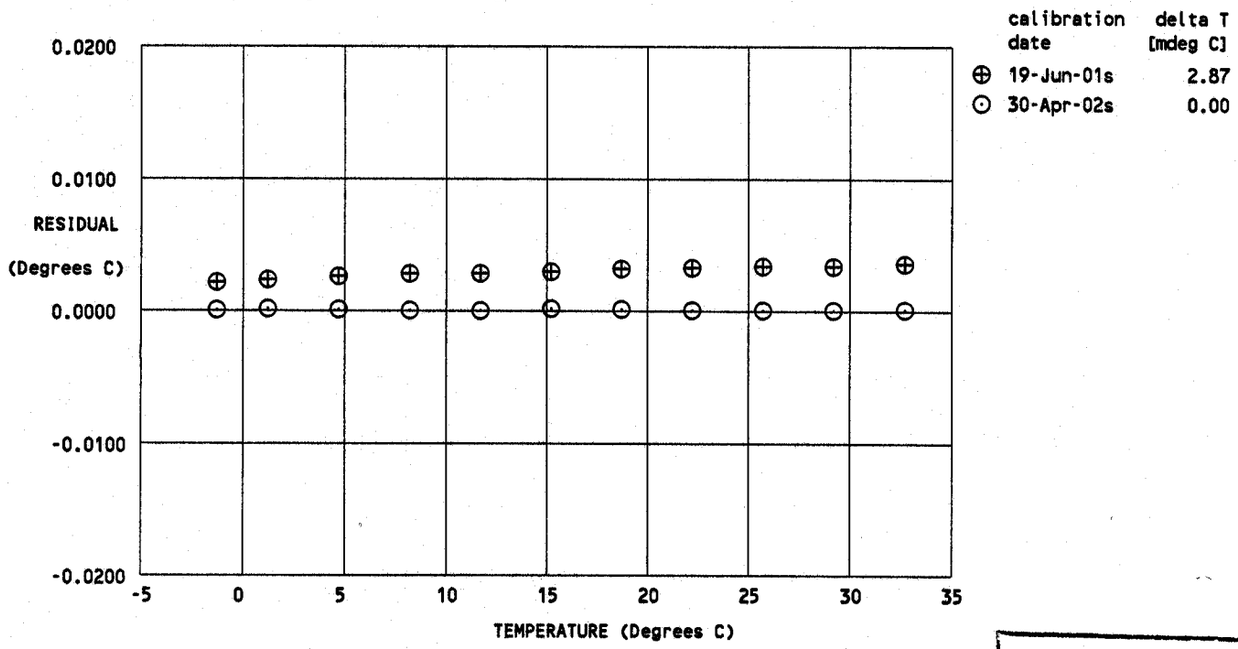
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4998	6003.593	-1.4998	-0.00003
1.0002	6350.749	1.0002	0.00005
4.5002	6860.725	4.5002	0.00002
8.0002	7399.373	8.0001	-0.00005
11.5003	7967.483	11.5002	-0.00007
15.0002	8565.767	15.0003	0.00009
18.5003	9194.940	18.5003	0.00003
22.0003	9855.676	22.0003	-0.00002
25.5002	10548.644	25.5002	-0.00001
29.0002	11274.506	29.0002	-0.00003
32.5003	12033.896	32.5003	0.00002

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