SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1609
CALIBRATION DATE: 30-Apr-02s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86614739e-03
h = 6.80244074e-04
i = 2.63326836e-05
j = 2.04159399e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68120828e-03
b = 6.03738519e-04
c = 1.49918255e-05
d = 2.04303867e-06
f_0 = 6398.807

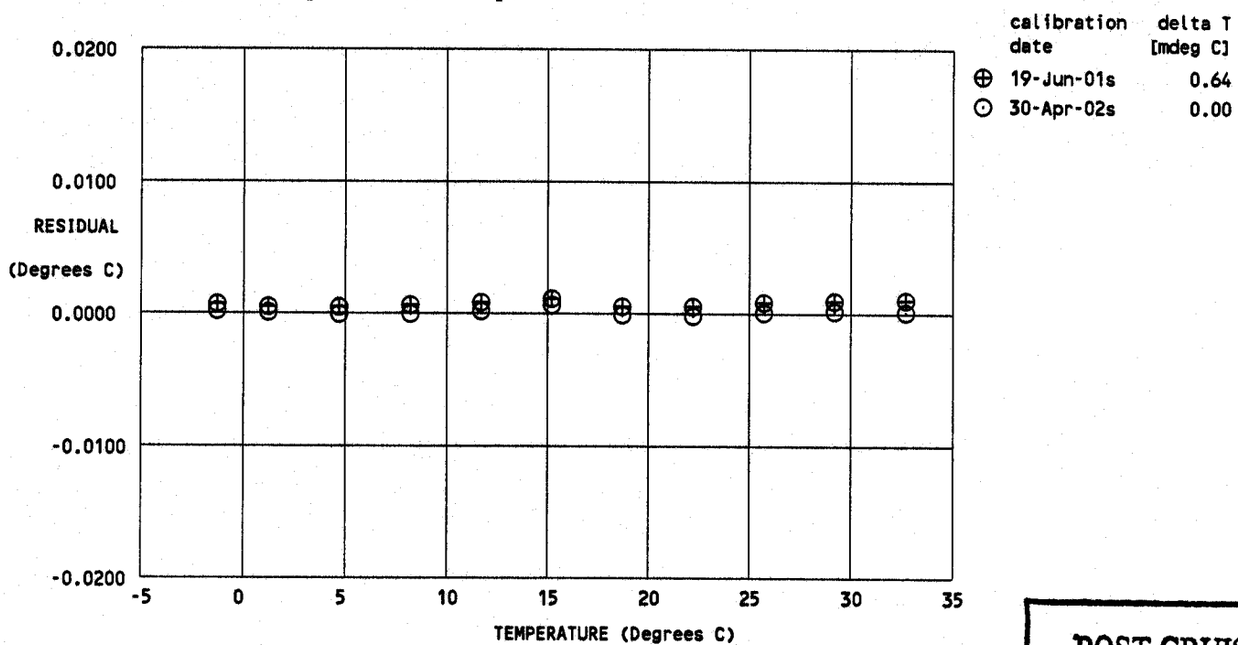
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4998	6398.807	-1.4997	0.00010
1.0002	6765.260	1.0002	-0.00003
4.5002	7303.301	4.5000	-0.00017
8.0002	7871.259	8.0001	-0.00013
11.5003	8469.931	11.5004	0.00010
15.0002	9100.022	15.0007	0.00053
18.5003	9762.076	18.5001	-0.00019
22.0003	10457.066	22.0000	-0.00028
25.5002	11185.616	25.5002	-0.00003
29.0002	11948.320	29.0003	0.00009
32.5003	12745.783	32.5003	0.00003

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