SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1609
CALIBRATION DATE: 13-Jul-02s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86589094e-03
h = 6.79886508e-04
i = 2.61653934e-05
j = 2.01547828e-06
f_0 = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68120683e-03
b = 6.03732084e-04
c = 1.49699581e-05
d = 2.01691747e-06
f_0 = 6398.800

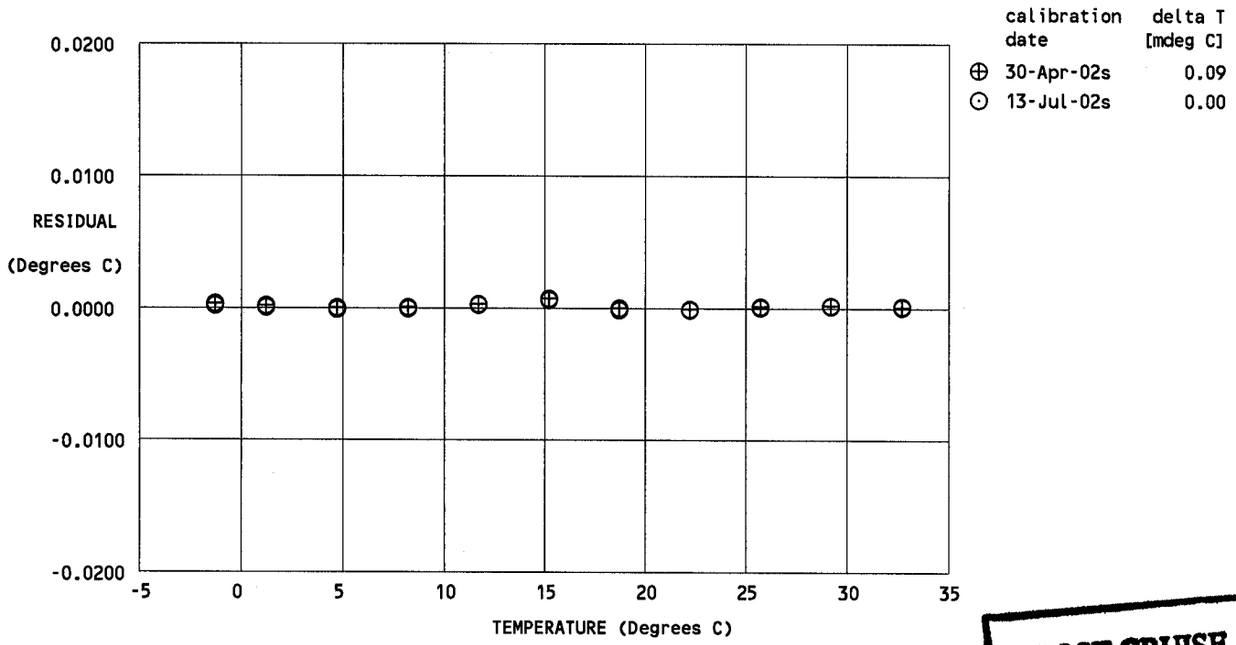
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4997	6398.800	-1.4996	0.00010
1.0003	6765.254	1.0003	-0.00004
4.5003	7303.296	4.5001	-0.00018
8.0003	7871.253	8.0002	-0.00015
11.5003	8469.917	11.5004	0.00014
15.0003	9100.019	15.0008	0.00053
18.5004	9762.066	18.5002	-0.00023
22.0003	10457.058	22.0001	-0.00022
25.5003	11185.618	25.5002	-0.00005
29.0003	11948.330	29.0004	0.00005
32.5003	12745.799	32.5003	0.00005

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