

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1692
CALIBRATION DATE: 14-Nov-00s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

$g = 4.80183833e-03$
 $h = 6.71729502e-04$
 $i = 2.54951452e-05$
 $j = 2.00539190e-06$
 $f_0 = 1000.000$

IPTS-68 COEFFICIENTS

$a = 3.68127028e-03$
 $b = 6.00452363e-04$
 $c = 1.48699839e-05$
 $d = 2.00681151e-06$
 $f_0 = 5874.425$

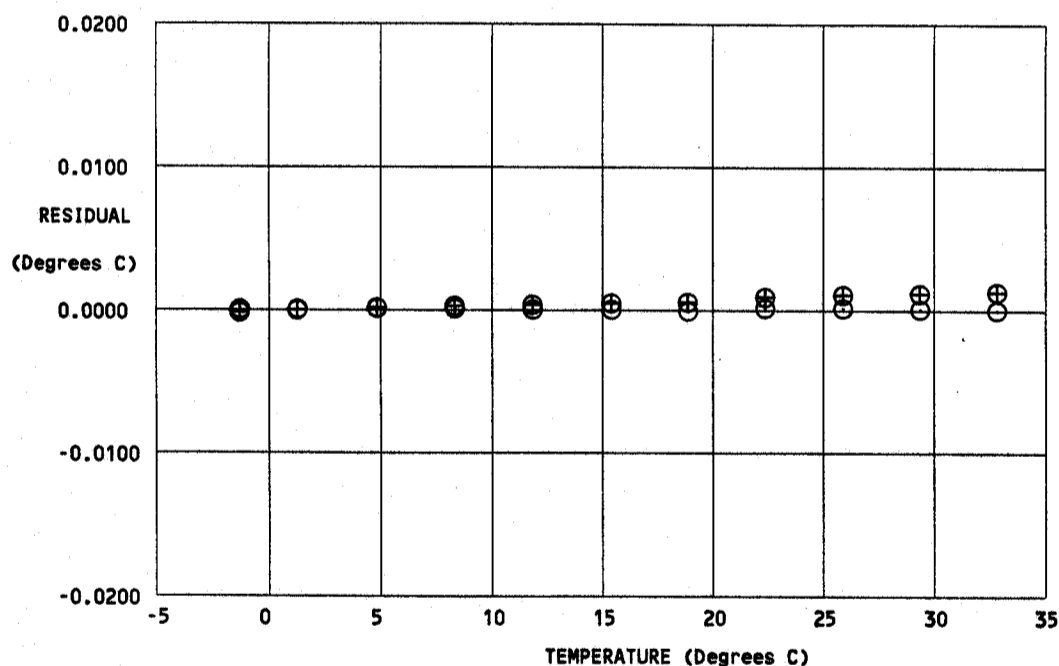
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.5043	5874.425	-1.5043	-0.00003
1.0569	6221.229	1.0569	0.00000
4.6315	6729.561	4.6315	0.00005
8.1382	7256.475	8.1382	0.00004
11.6405	7811.377	11.6405	-0.00002
15.2009	8405.561	15.2008	-0.00003
18.6643	9013.332	18.6641	-0.00015
22.1645	9658.139	22.1645	0.00009
25.6919	10339.594	25.6919	0.00009
29.1622	11041.664	29.1622	0.00002
32.6365	11776.545	32.6364	-0.00005

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



POST CRUISE
CALIBRATION