

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 1609
CALIBRATION DATE: 19-Jun-01s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

$g = 4.86584016e-03$
 $h = 6.79809001e-04$
 $i = 2.61315502e-05$
 $j = 2.01051410e-06$
 $f_0 = 1000.000$

IPTS-68 COEFFICIENTS

$a = 3.68120912e-03$
 $b = 6.03728610e-04$
 $c = 1.49636947e-05$
 $d = 2.01195080e-06$
 $f_0 = 6398.863$

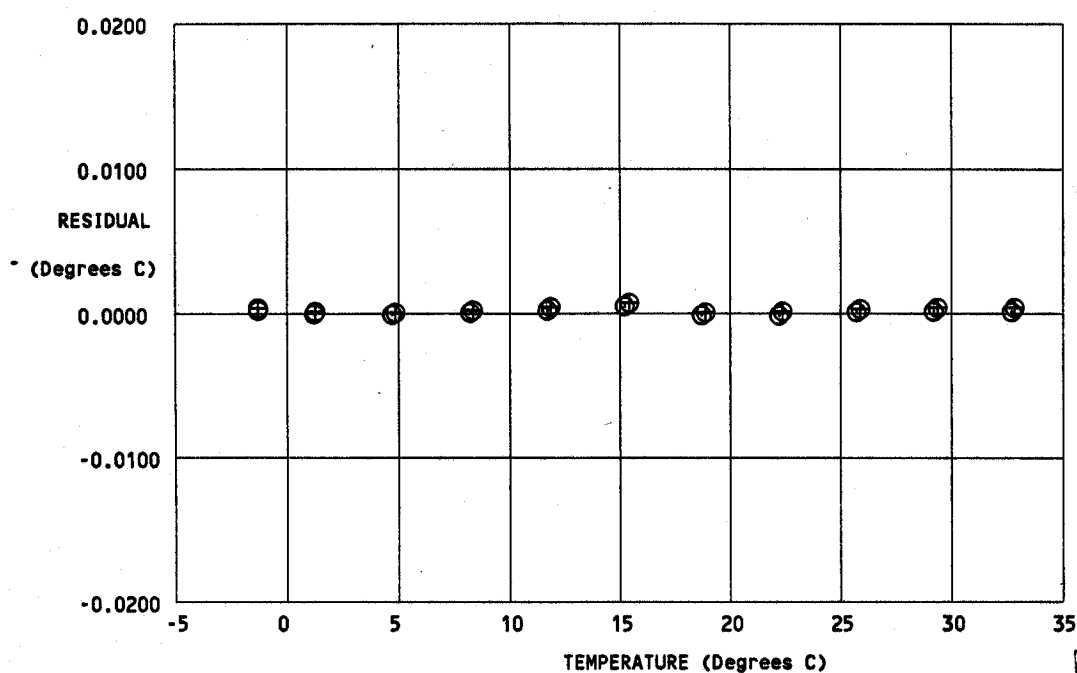
BATH TEMP (ITS-90 °C)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90 °C)	RESIDUAL (ITS-90 °C)
-1.4999	6398.863	-1.4998	0.00014
1.0001	6765.307	1.0000	-0.00011
4.5001	7303.370	4.4999	-0.00018
8.0001	7871.353	8.0001	-0.00003
11.5001	8470.004	11.5002	0.00012
15.0001	9100.095	15.0005	0.00041
18.5001	9762.159	18.4999	-0.00020
22.0001	10457.172	21.9999	-0.00023
25.5001	11185.759	25.5001	0.00001
29.0001	11948.468	29.0001	0.00005
32.5001	12745.946	32.5001	0.00003

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



calibration date	delta T [mdeg C]
⊕ 14-Nov-00s	0.20
⊙ 19-Jun-01s	0.00

POST OFFICE
CALIBRATION