

SEA-BIRD ELECTRONICS, INC.
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SENSOR SERIAL NUMBER: 1701
CALIBRATION DATE: 17-Jun-04

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.79026932e-003
h = 6.53543379e-004
i = 1.83834889e-005
j = 9.99124123e-007
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121277e-003
b = 5.97811438e-004
c = 1.30828989e-005
d = 1.00026651e-006
f0 = 5913.662

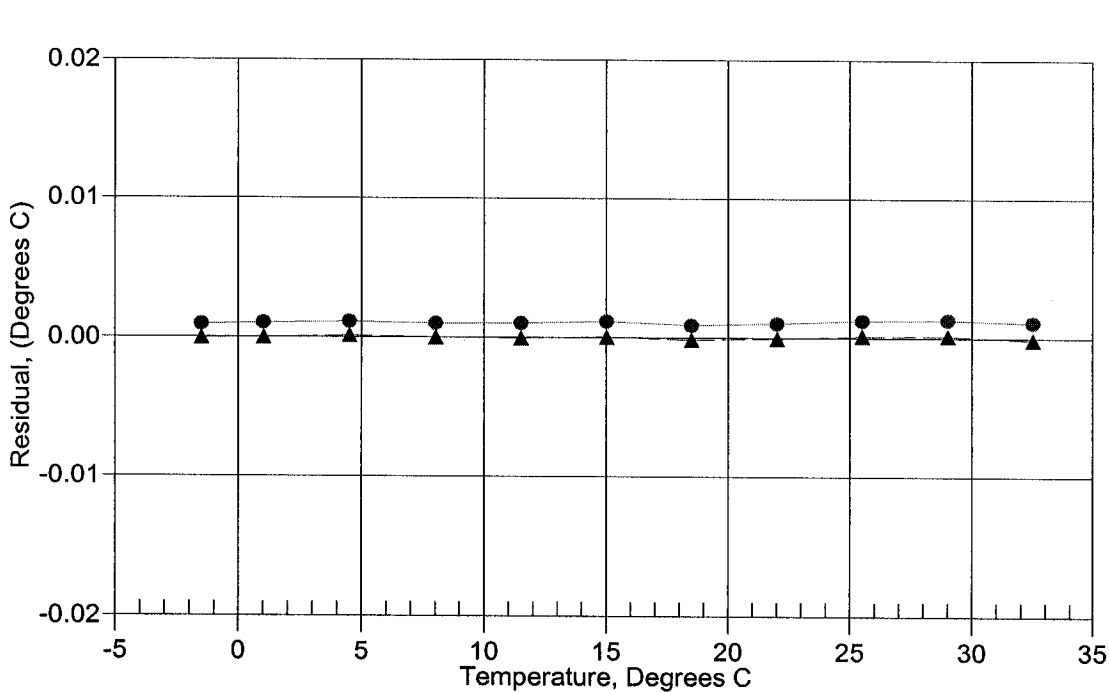
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	5913.662	-1.5000	-0.00003
1.0001	6255.768	1.0001	-0.00002
4.5001	6758.212	4.5002	0.00012
8.0001	7288.728	8.0001	-0.00001
11.5001	7848.127	11.5000	-0.00005
15.0001	8437.161	15.0001	0.00005
18.5001	9056.476	18.4999	-0.00016
22.0001	9706.885	22.0001	-0.00005
25.5001	10389.029	25.5002	0.00012
29.0001	11103.529	29.0003	0.00016
32.5001	11850.982	32.5000	-0.00013

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 ITS-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



Date, Offset(mdeg C)

● 21-Aug-03 1.07
▲ 17-Jun-04 -0.00

POST CRUISE
CALIBRATION