

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1701
CALIBRATION DATE: 31-May-07

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.79081093e-003
h = 6.54310139e-004
i = 1.87197540e-005
j = 1.04900676e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121309e-003
b = 5.97857361e-004
c = 1.31534266e-005
d = 1.05016257e-006
f0 = 5913.273

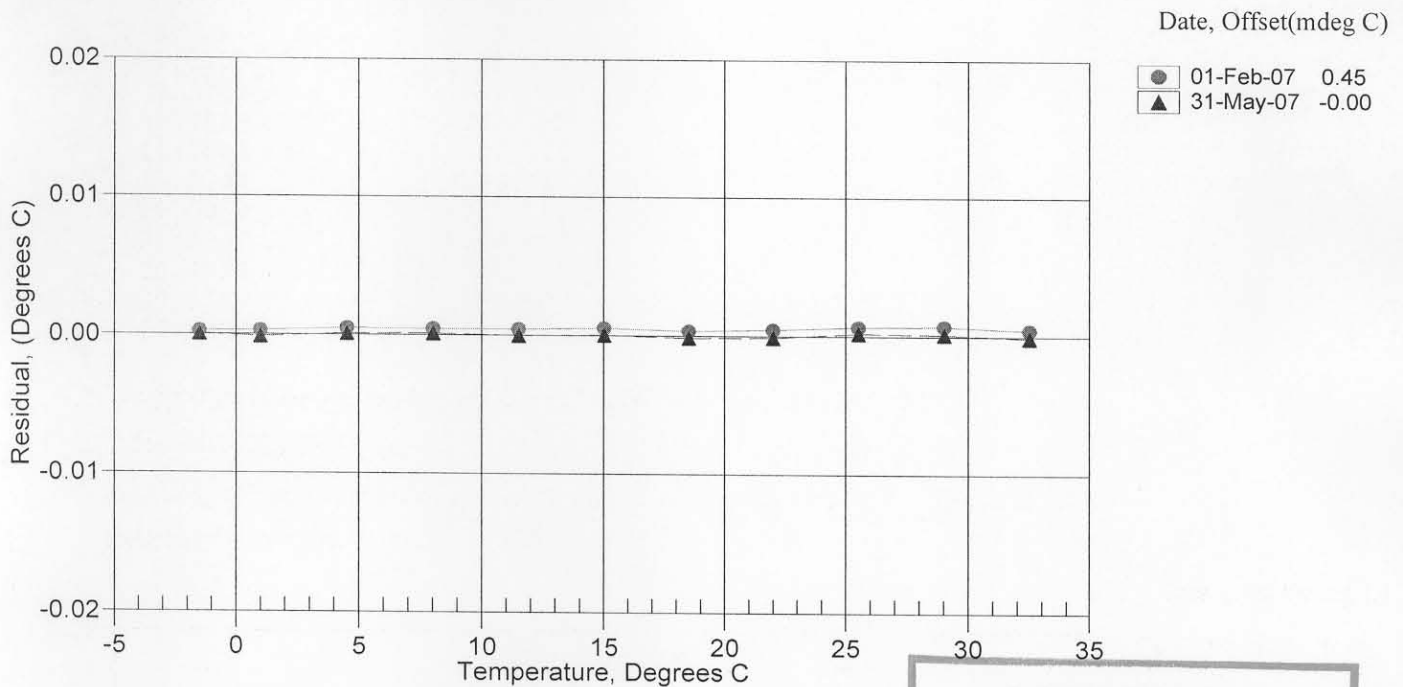
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	5913.273	-1.5001	0.00004
1.0000	6255.304	0.9999	-0.00014
4.5000	6757.694	4.5001	0.00009
7.9999	7288.152	8.0000	0.00010
11.5000	7847.489	11.5000	-0.00003
15.0000	8436.452	15.0000	0.00003
18.5000	9055.702	18.4998	-0.00017
22.0000	9706.028	21.9999	-0.00012
25.4999	10388.104	25.5001	0.00019
29.0000	11102.523	29.0001	0.00013
32.5000	11849.891	32.4999	-0.00012

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



**POST CRUISE
CALIBRATION**