

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4195
CALIBRATION DATE: 05-Nov-04

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.37112782e-003
h = 6.43692816e-004
i = 2.22689363e-005
j = 1.82937675e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121199e-003
b = 6.01144288e-004
c = 1.62013620e-005
d = 1.83087583e-006
f0 = 3036.163

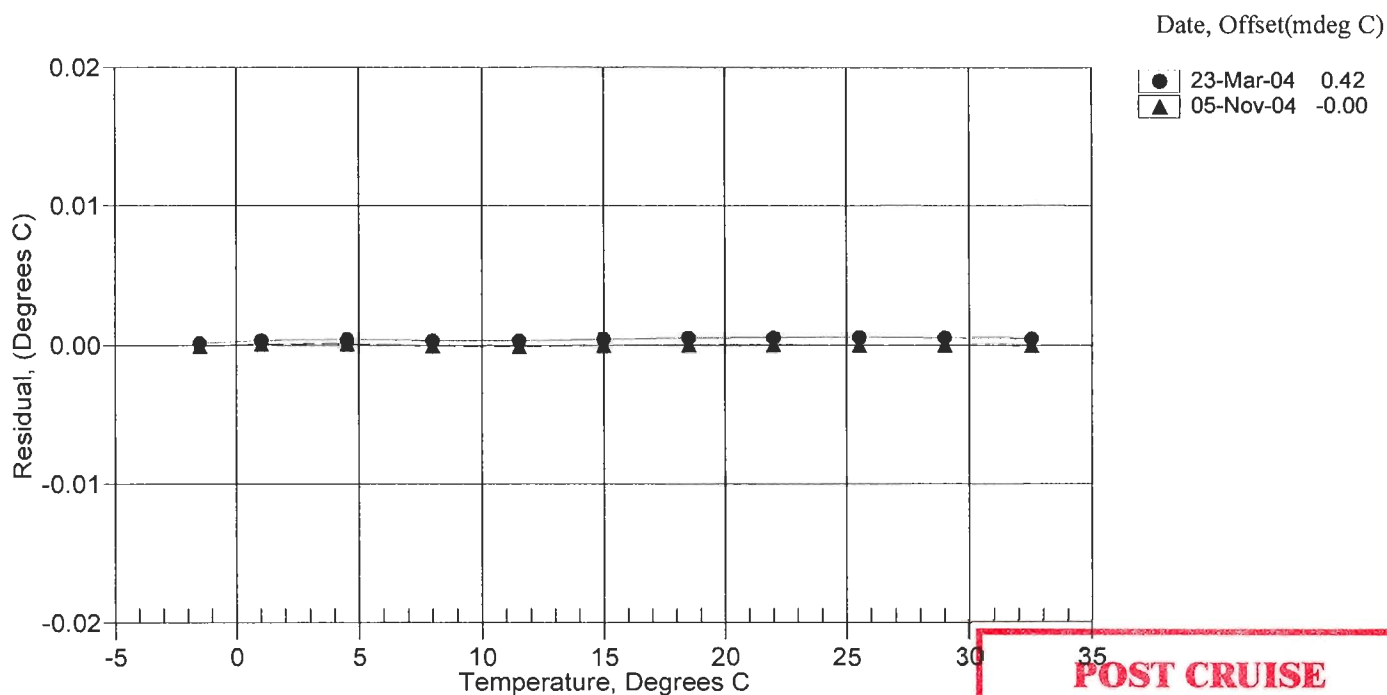
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4999	3036.163	-1.5000	-0.00008
1.0001	3210.856	1.0002	0.00008
4.5001	3467.487	4.5002	0.00009
8.0001	3738.561	8.0001	-0.00005
11.5001	4024.495	11.5000	-0.00010
15.0001	4325.684	15.0001	-0.00001
18.5001	4642.491	18.5001	0.00003
22.0001	4975.283	22.0001	0.00004
25.5001	5324.417	25.5001	0.00001
29.0001	5690.245	29.0001	0.00002
32.5001	6073.089	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 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**