SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1075
CALIBRATION DATE: 18-Mar-05

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPRATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86462512e-003
h = 6.82179595e-004
i = 2.66230827e-005
j = 1.97232124e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121287e-003
b = 6.04070780e-004
c = 1.57041790e-005
d = 1.97380979e-006
f0 = 6359.971

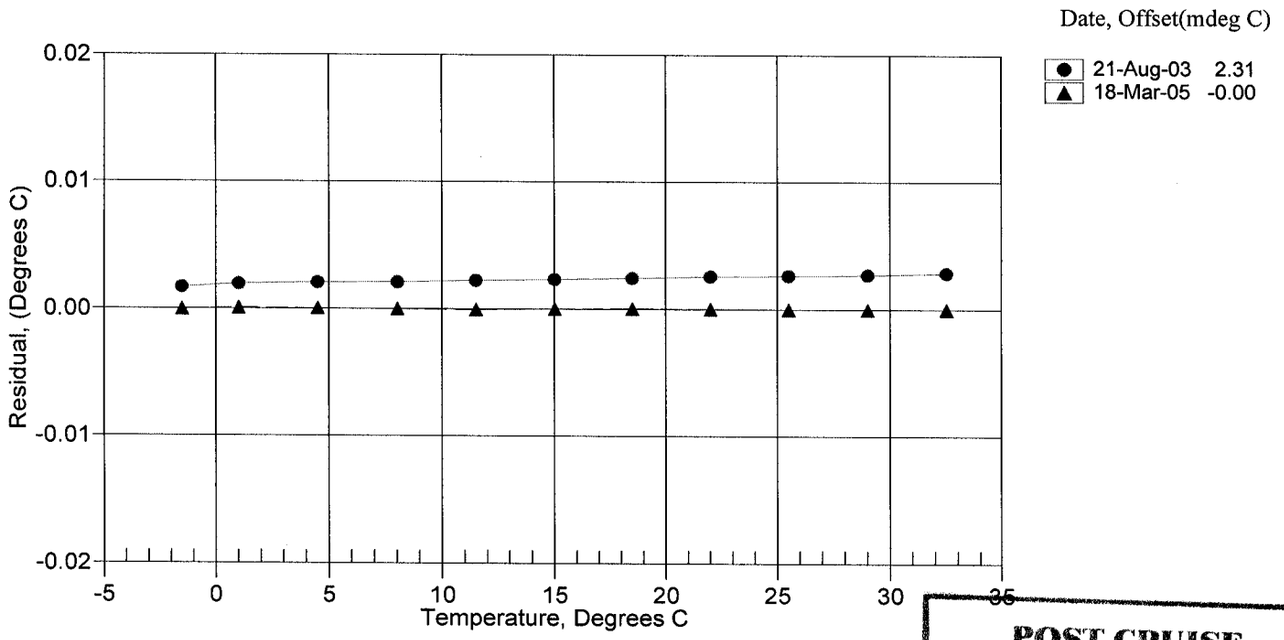
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6359.971	-1.5000	-0.00004
1.0000	6724.053	1.0001	0.00006
4.5000	7258.652	4.5000	0.00003
8.0000	7823.039	8.0000	-0.00002
11.5000	8418.005	11.4999	-0.00007
15.0000	9044.340	15.0000	0.00001
18.5000	9702.756	18.5000	0.00003
22.0000	10393.973	22.0000	0.00000
25.5000	11118.698	25.5000	-0.00000
29.0000	11877.596	29.0000	-0.00000
32.5000	12671.305	32.5000	-0.00000

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