

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2899
CALIBRATION DATE: 14-Apr-10

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.37878440e-003
h = 6.50381935e-004
i = 2.32634757e-005
j = 2.10143222e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121184e-003
b = 6.06574340e-004
c = 1.62786630e-005
d = 2.10298672e-006
f0 = 3041.584

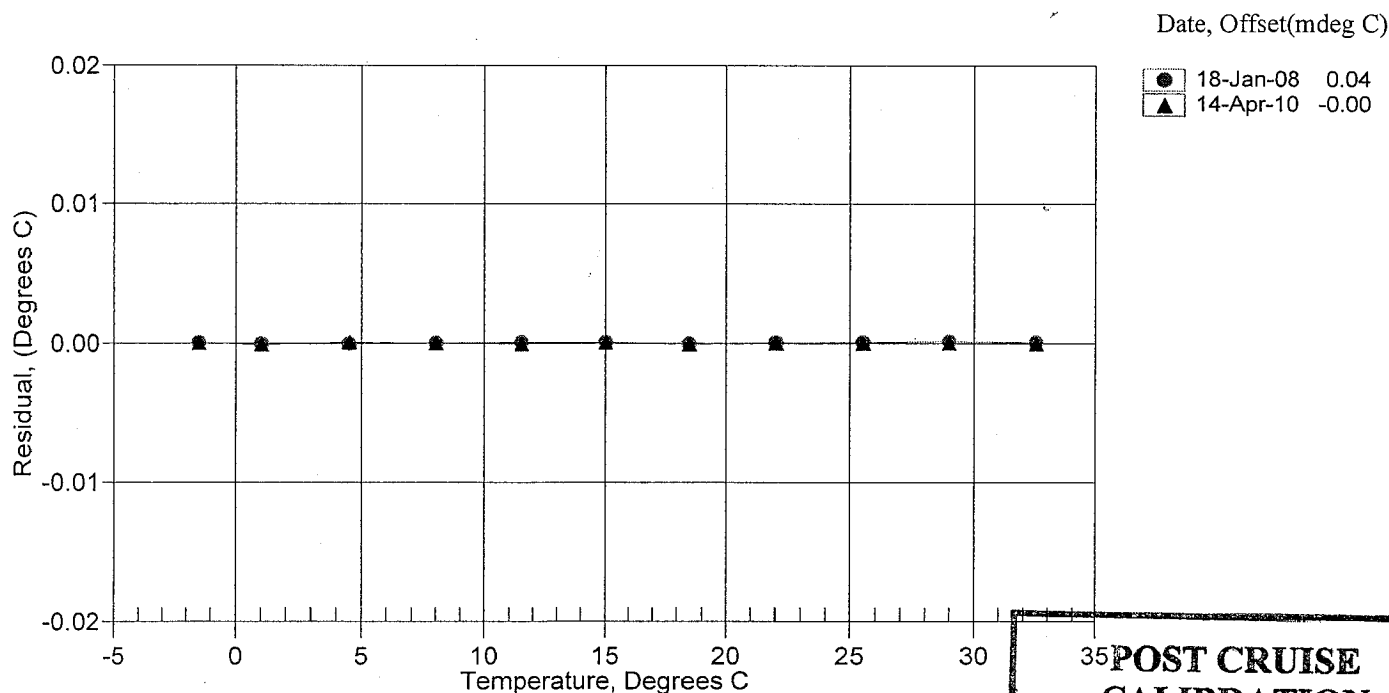
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3041.584	-1.5000	0.00003
1.0000	3214.955	0.9999	-0.00009
4.5000	3469.515	4.5001	0.00007
8.0000	3738.191	8.0000	0.00000
11.5000	4021.372	11.5000	-0.00005
14.9999	4319.423	15.0000	0.00007
18.5000	4632.687	18.4999	-0.00005
22.0000	4961.511	22.0000	0.00000
25.5000	5306.210	25.5000	0.00000
29.0000	5667.104	29.0000	0.00002
32.5000	6044.486	32.5000	-0.00001

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



35 POST CRUISE
CALIBRATION