

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4195
CALIBRATION DATE: 14-Apr-06

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.37107422e-003
h = 6.43592626e-004
i = 2.21944315e-005
j = 1.81077150e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121434e-003
b = 6.01141338e-004
c = 1.61889438e-005
d = 1.81226724e-006
f0 = 3036.107

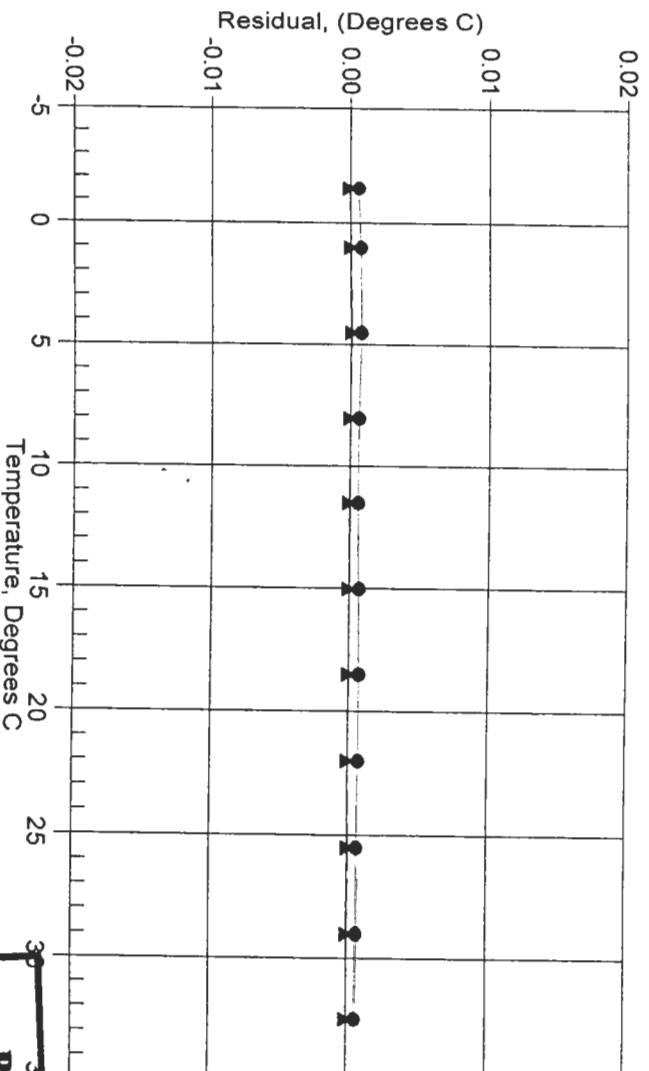
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	3036.107	-1.5001	-0.00005
0.9999	3210.793	0.9999	0.00004
4.4999	3467.421	4.5000	0.00007
7.9999	3738.495	7.9999	-0.00002
11.4999	4024.426	11.4998	-0.00005
14.9999	4325.604	14.9999	-0.00004
18.4999	4642.407	18.4999	0.00002
22.0000	4975.202	22.0000	-0.00002
25.4999	5324.334	25.5000	0.00005
28.9999	5690.159	28.9999	0.00004
32.4999	6073.001	32.4999	-0.00004

Temperature ITS-90 = $1/\{g + h[\ln(f_0/D)] + i[\ln^2(f_0/D)] + j[\ln^3(f_0/D)]\} - 273.15$ (°C)

Temperature ITS-68 = $1/\{a + b[\ln(f_0/D)] + c[\ln^2(f_0/D)] + d[\ln^3(f_0/D)]\} - 273.15$ (°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)

●	05-Nov-04	0.65
▲	14-Apr-06	-0.00

POST CRUISE
CALIBRATION