

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4492
CALIBRATION DATE: 04-Apr-06

SBES3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.33903520e-003
h = 6.33259059e-004
i = 2.01874329e-005
j = 1.68075228e-006
f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121334e-003
b = 5.95911197e-004
c = 1.48080486e-005
d = 1.68211671e-006
f0 = 2921.714

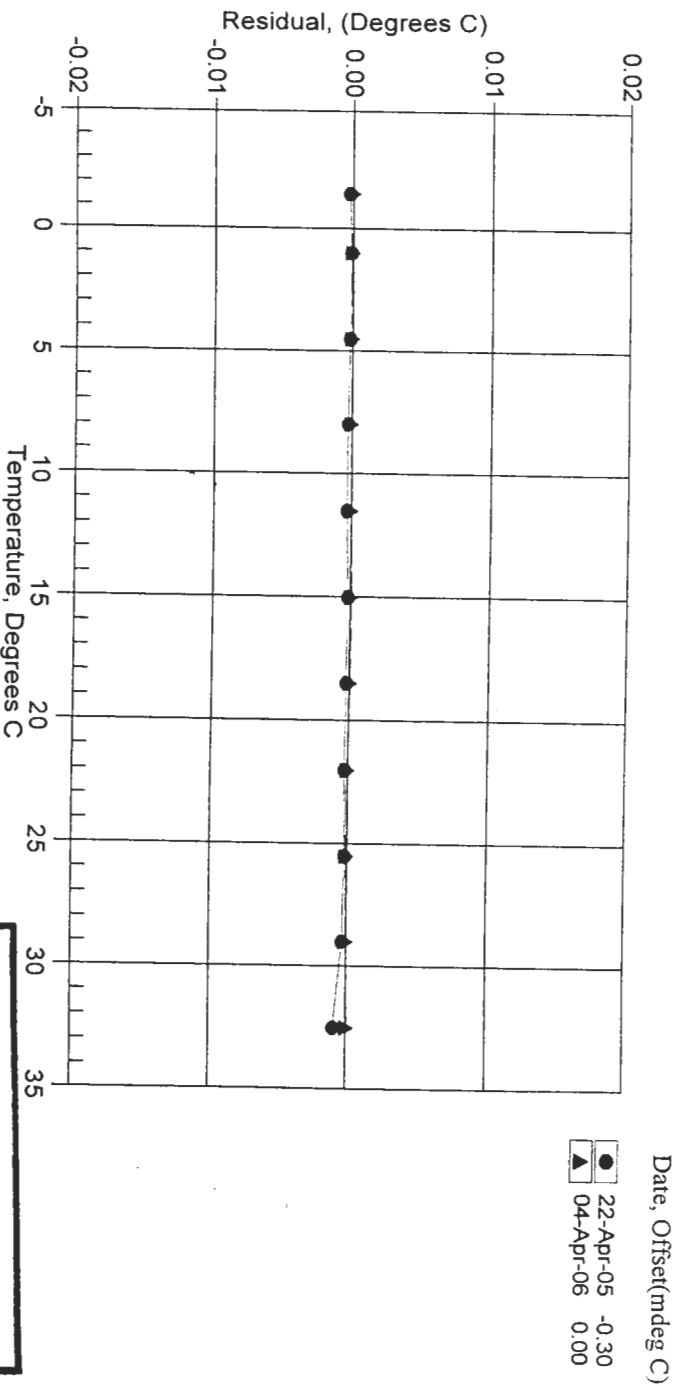
BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	2921.714	-1.5001	0.00002
0.9999	3091.309	0.9999	-0.00001
4.4999	3340.546	4.4999	-0.00003
7.9999	3603.916	7.9999	-0.00003
11.4999	3881.808	11.4999	-0.00002
14.9999	4174.609	15.0000	0.00009
18.4999	4482.672	18.5000	-0.00004
22.0000	4806.367	22.0000	-0.00007
25.5000	5146.040	25.4999	-0.00003
28.9999	5502.026	28.9999	0.00005
32.4999	5874.668	32.5000	

Temperature [ITS-90 = 1/{g + h[ln(f₀/f)] + i[ln²(f₀/f)] + j[ln³(f₀/f)]} - 273.15 (°C)

Temperature [ITS-68 = 1/{a + b[ln(f₀/f)] + c[ln²(f₀/f)] + d[ln³(f₀/f)]} - 273.15 (°C)

Following the recommendation of JPOTS: T₆₈ is assumed to be 1.00024 * T₉₀ (-2 to 35 °C)

Residual = instrument temperature - bath temperature



POST CRUISE
CALIBRATION