

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2896
CALIBRATION DATE: 31-May-06

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

$g = 4.33322325e-003$
 $h = 6.61194300e-004$
 $i = 2.53173108e-005$
 $j = 2.35977752e-006$
 $f_0 = 1000.0$

ITS-68 COEFFICIENTS

$a = 3.64763598e-003$
 $b = 6.15024794e-004$
 $c = 1.77229727e-005$
 $d = 2.36151057e-006$
 $f_0 = 2935.363$

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	2935.363	0.9999	0.00002
4.4999	3163.791	4.4999	-0.00005
7.9999	3404.682	7.9999	-0.00002
11.4999	3658.351	11.4999	0.00004
14.9999	3925.105	15.0000	0.00009
18.5000	4205.233	18.4999	-0.00009
21.9999	4499.037	21.9999	-0.00002
25.4999	4806.799	25.4999	0.00003
28.9999	5128.772	28.9999	0.00001
32.4999	5465.216	32.4999	-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)

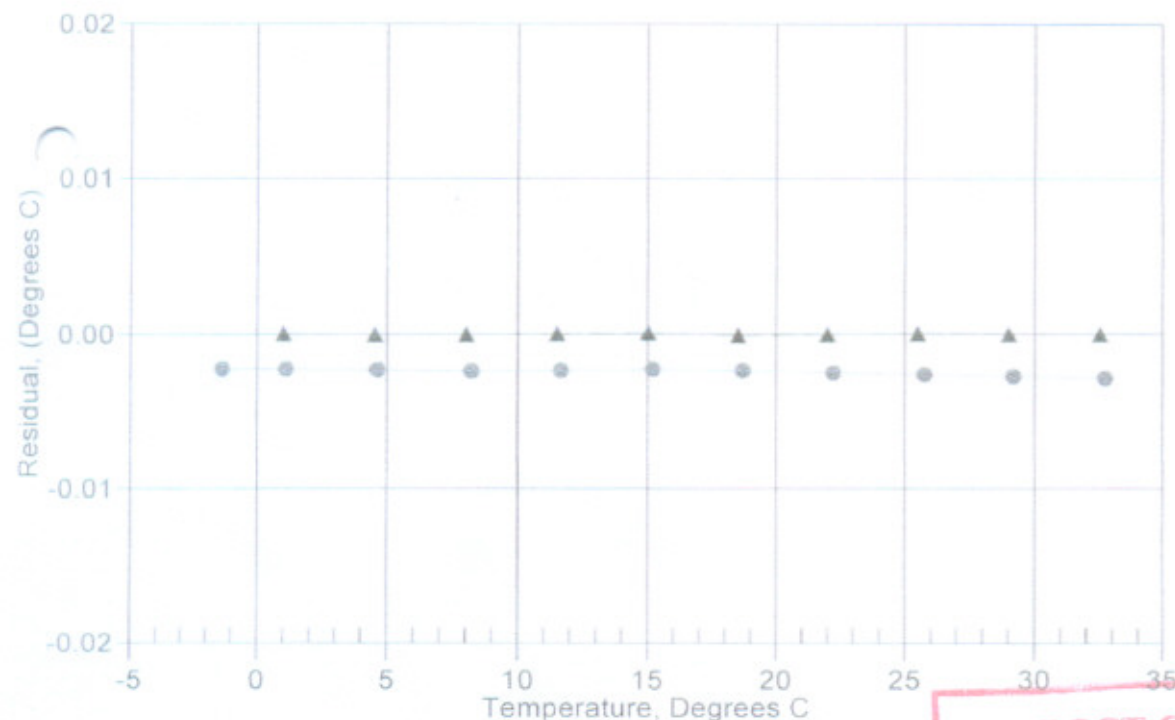
Temperature ITS-68 = $1/\{a + b[\ln(f_0/f)] + c[\ln^2(f_0/f)] + d[\ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be $1.00024 * T_{90}$ (-2 to 35 °C)

Residual = instrument temperature - bath temperature

Date, Offset(mdeg C)

● 13-Sep-01 -2.48
▲ 31-May-06 0.00



**POST CRUISE
CALIBRATION**