

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5144
CALIBRATION DATE: 04-Nov-11

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.42325684e-003
h = 6.49162572e-004
i = 2.38713039e-005
j = 2.23528407e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121068e-003
b = 6.02012976e-004
c = 1.59234616e-005
d = 2.23681984e-006
f0 = 3284.815

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4999	3284.815	-1.4999	0.00002
1.0001	3473.512	1.0001	-0.00003
4.5001	3750.686	4.5001	-0.00001
8.0001	4043.398	8.0001	-0.00001
11.5001	4352.067	11.5001	0.00003
15.0001	4677.088	15.0001	0.00003
18.5001	5018.846	18.5001	-0.00003
22.0001	5377.730	22.0001	-0.00003
25.5001	5754.097	25.5001	0.00000
29.0001	6148.291	29.0001	0.00003
32.5001	6560.636	32.5001	-0.00001

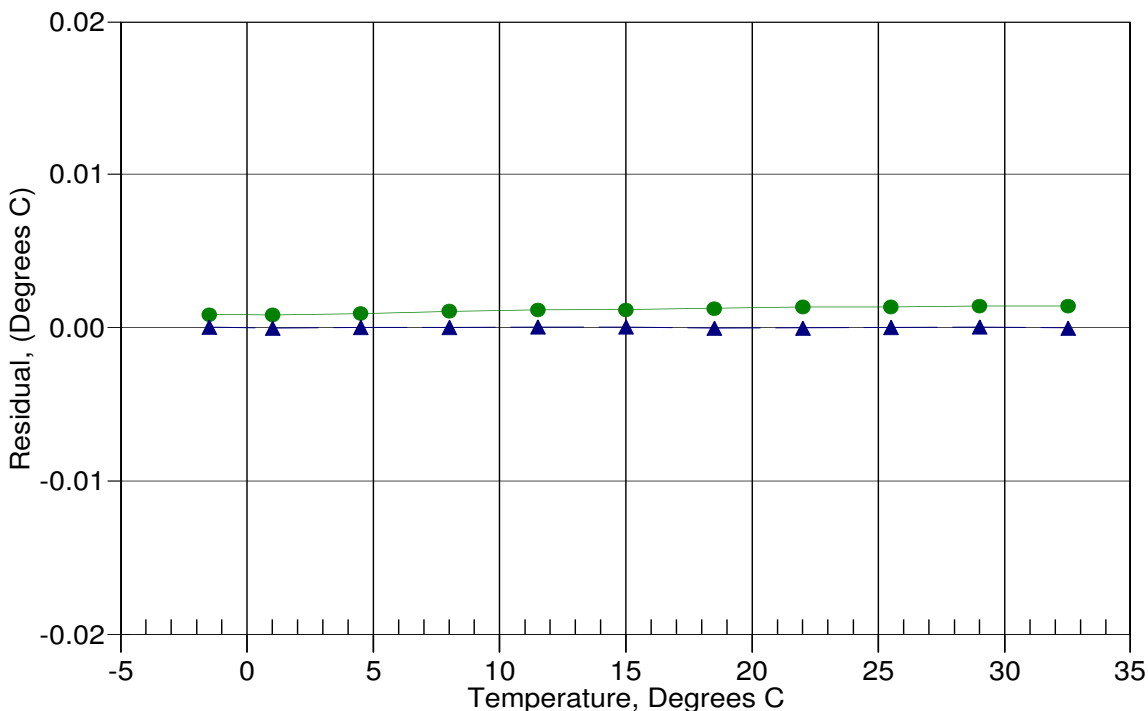
Temperature ITS-90 = $1 / \{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15$ (°C)

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

Date, Offset(mdeg C)



● 10-Aug-10 1.15
▲ 04-Nov-11 0.00