SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2958
CALIBRATION DATE: 16-Feb-11

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

```
g =  4.39502149e-003
h =  6.73291801e-004
i =  3.02713221e-005
j =  2.84425418e-006
f0 = 1000.0
```

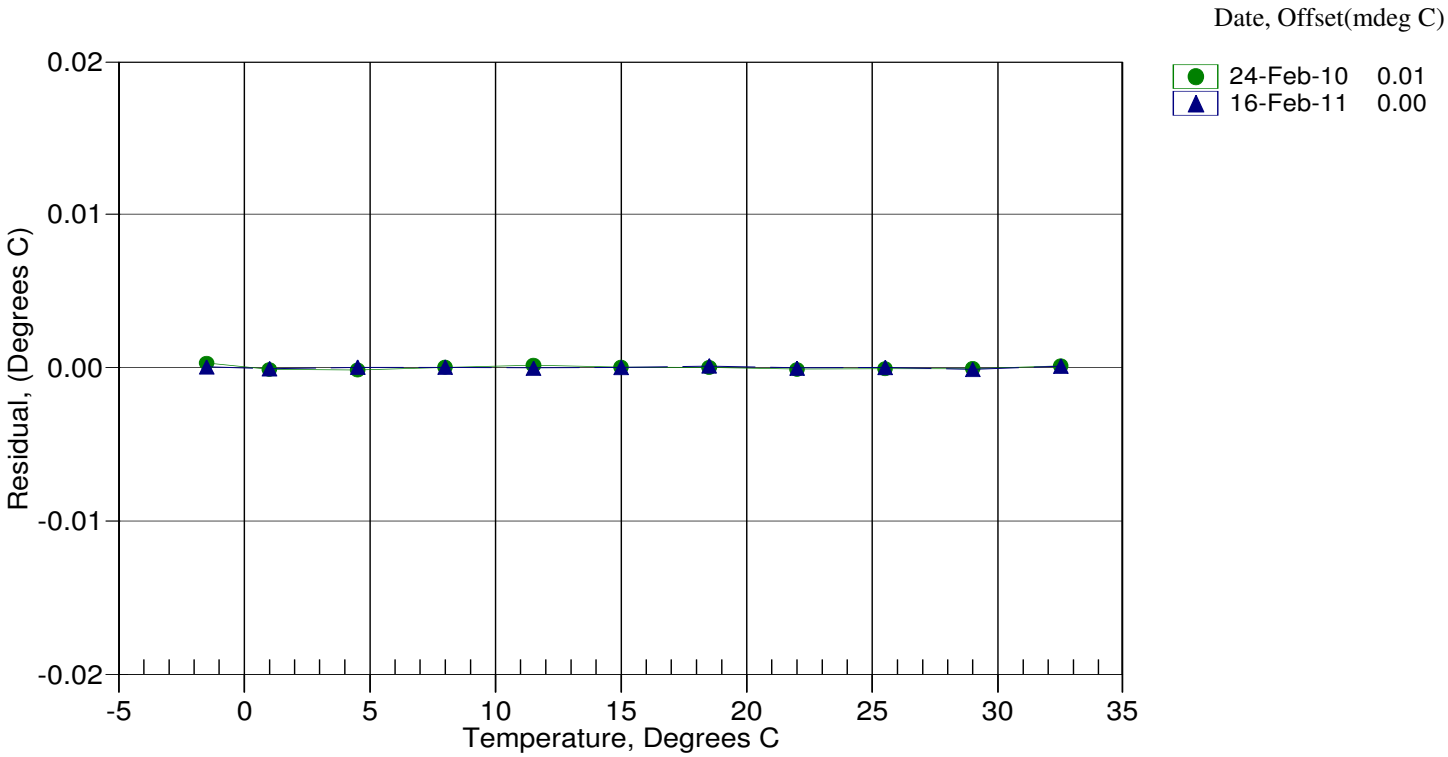
IPTS-68 COEFFICIENTS

```
a =  3.68121022e-003
b =  6.16761079e-004
c =  2.08315944e-005
d =  2.84628594e-006
f0 = 3033.717
```

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4999	3033.717	-1.4998	0.00005
1.0002	3203.772	1.0001	-0.00008
4.5002	3453.398	4.5002	0.00001
8.0002	3716.823	8.0002	0.00001
11.5001	3994.416	11.5001	-0.00002
15.0001	4286.561	15.0001	-0.00000
18.5001	4593.605	18.5002	0.00009
22.0001	4915.861	22.0001	-0.00002
25.5001	5253.690	25.5001	0.00001
29.0001	5607.377	29.0000	-0.00013
32.5001	5977.276	32.5002	0.00008

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