Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0207
CALIBRATION DATE: 23-Jan-14

SBE19 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

```
g =  4.13731762e-003
h =  5.82369212e-004
i = -2.13051962e-006
j = -3.31702090e-006
f0 = 1000.0
```

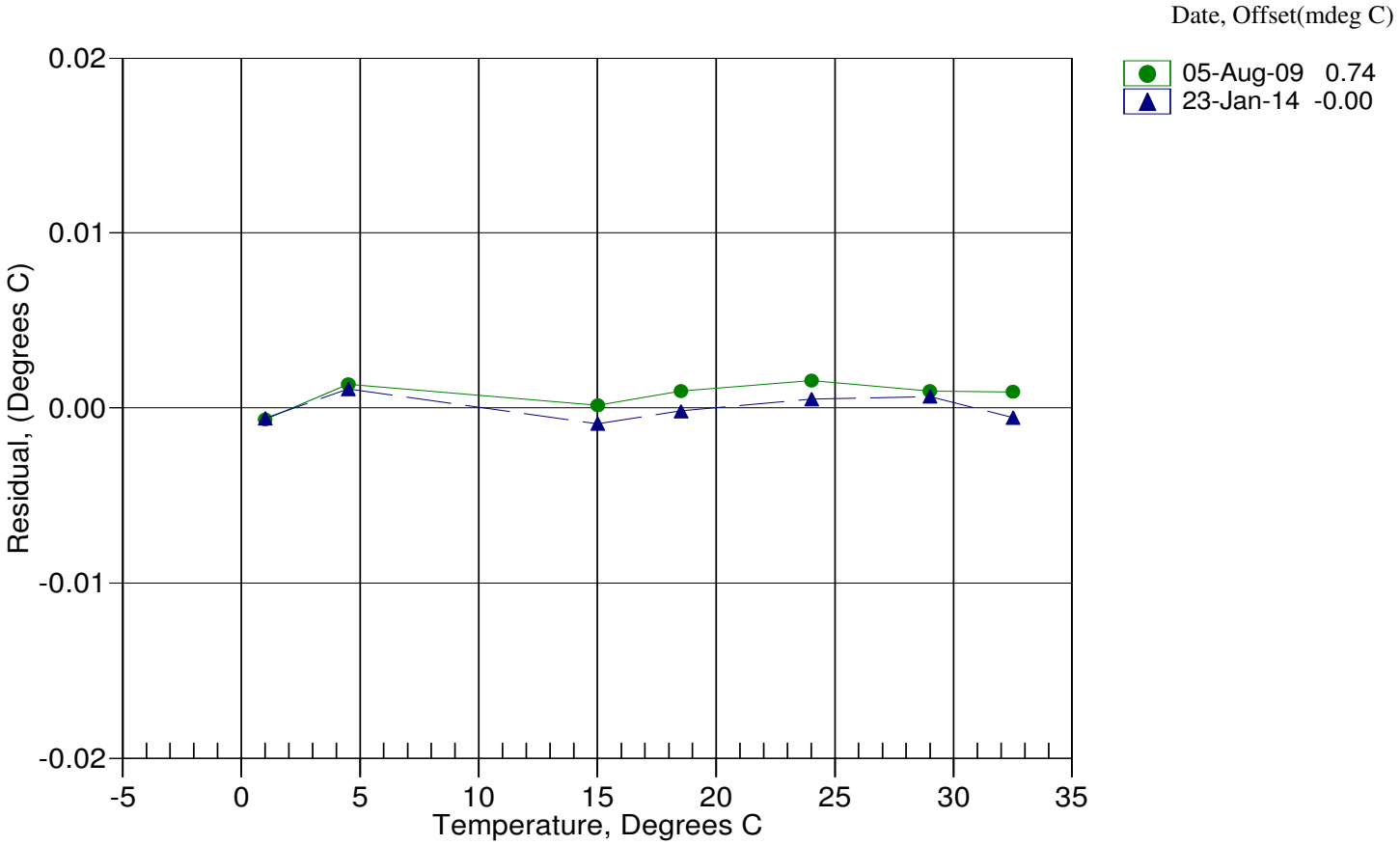
IPTS-68 COEFFICIENTS

```
a =  3.64764280e-003
b =  5.79044609e-004
c =  6.26818043e-006
d = -3.31703020e-006
f0 = 2320.148
```

BATH TEMP (ITS-90)	INSTRUMENT FREO (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2320.148	0.9994	-0.00059
4.4999	2512.217	4.5010	0.00108
14.9999	3154.858	14.9990	-0.00090
18.5000	3392.573	18.4998	-0.00018
24.0000	3791.023	24.0005	0.00050
28.9999	4180.643	29.0006	0.00065
32.4999	4469.378	32.4993	-0.00056

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