# SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington 98005 USA
Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com


SENSOR SERIAL NUMBER = 1609
CALIBRATION DATE: 14-Nov-00s

TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.86579329e-03
h = 6.79748362e-04
i = 2.61064749e-05
j = 2.00700808e-06
$f_0$ = 1000.000

IPTS-68 COEFFICIENTS

a = 3.68126802e-03
b = 6.03727652e-04
c = 1.49587122e-05
d = 2.00844439e-06
$f_0$ = 6398.257

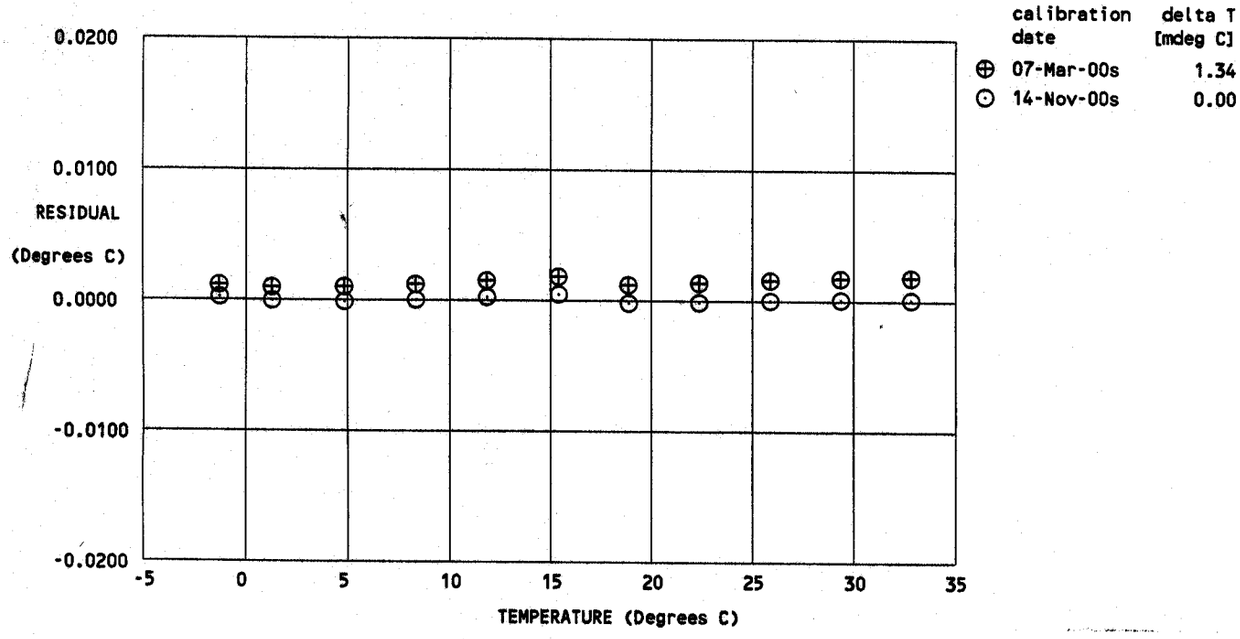
| BATH TEMP (ITS-90 °C) | INSTRUMENT FREQ (Hz) | INST TEMP (ITS-90 °C) | RESIDUAL (ITS-90 °C) |
|---|---|---|---|
| -1.5043 | 6398.257 | -1.5041 | 0.00014 |
| 1.0569 | 6773.832 | 1.0568 | -0.00012 |
| 4.6315 | 7324.164 | 4.6313 | -0.00019 |
| 8.1382 | 7894.408 | 8.1381 | -0.00005 |
| 11.6405 | 8494.712 | 11.6407 | 0.00016 |
| 15.2009 | 9137.249 | 15.2013 | 0.00043 |
| 18.6643 | 9794.053 | 18.6640 | -0.00025 |
| 22.1645 | 10490.684 | 22.1643 | -0.00019 |
| 25.6919 | 11226.700 | 25.6918 | -0.00001 |
| 29.1622 | 11984.687 | 29.1623 | 0.00004 |
| 32.6365 | 12777.800 | 32.6365 | 0.00004 |

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

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




POST CRUISE
CALIBRATION