## **SEA-BIRD ELECTRONICS, INC.**

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SENSOR SERIAL NUMBER: 1679 CALIBRATION DATE: 19-Jan-11 SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **ITS-90 COEFFICIENTS**

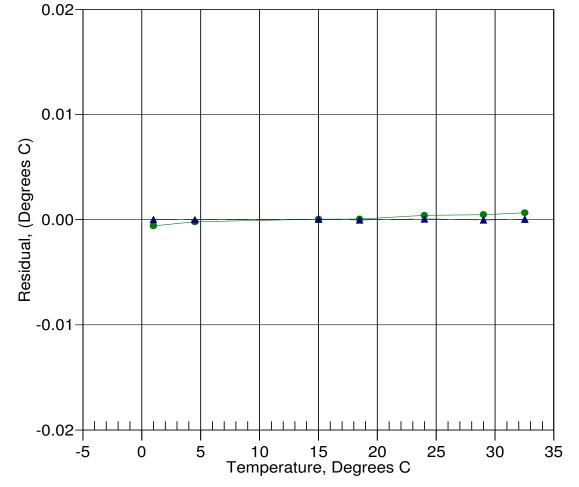
a0 = -4.951728e-005 a1 = 2.859765e-004 a2 = -3.125808e-006 a3 = 1.774750e-007

| BATH TEMP<br>(ITS-90) | INSTRUMENT<br>OUTPUT | INST TEMP<br>(ITS-90) | RESIDUAL<br>(ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000                | 658492.3             | 1.0000                | 0.0000               |
| 4.5000                | 564095.8             | 4.5000                | -0.0000              |
| 15.0000               | 361443.8             | 15.0000               | 0.0000               |
| 18.5000               | 313500.1             | 18.4999               | -0.0001              |
| 23.9999               | 252138.1             | 24.0000               | 0.0001               |
| 29.0000               | 208073.7             | 28.9999               | -0.0001              |
| 32.4999               | 182486.2             | 32.4999               | 0.0000               |

Temperature ITS-90 =  $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$  (°C)

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)



17-Jan-09 0.11 19-Jan-11 0.00