## Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0013 CALIBRATION DATE: 17-Nov-12 SBE 48 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **ITS-90 COEFFICIENTS**

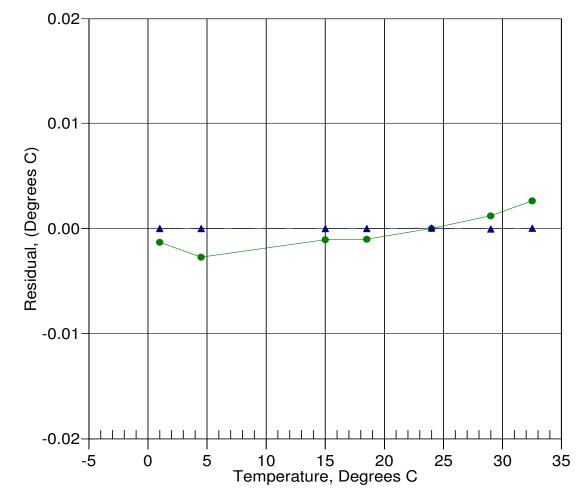
a0 = -2.771682e-005 a1 = 2.801842e-004 a2 = -2.614672e-006 a3 = 1.666984e-007

| BATH TEMP<br>(ITS-90) | INSTRUMENT<br>OUTPUT | INST TEMP<br>(ITS-90) | RESIDUAL<br>(ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| 1.0000                | 636824.4             | 1.0000                | -0.0000              |
| 4.5000                | 546048.0             | 4.5000                | 0.0000               |
| 15.0000               | 350823.9             | 15.0000               | -0.0000              |
| 18.5000               | 304546.8             | 18.5000               | -0.0000              |
| 24.0000               | 245253.5             | 24.0000               | 0.0000               |
| 29.0001               | 202619.7             | 29.0001               | -0.0000              |
| 32.5000               | 177838.1             | 32.5000               | 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)



30-Jan-07 -0.33 17-Nov-12 0.00