

SEA-BIRD ELECTRONICS, INC.

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

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

SENSOR SERIAL NUMBER: 1426
CALIBRATION DATE: 17-Dec-10

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 3.123367e-005
a1 = 2.687989e-004
a2 = -1.922740e-006
a3 = 1.427204e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| -1.5000 | 781773.7 | -1.5000 | -0.0000 |
| 0.9999 | 697693.4 | 0.9999 | 0.0000 |
| 4.4999 | 596672.7 | 4.4999 | 0.0000 |
| 8.0000 | 511957.4 | 8.0000 | -0.0000 |
| 11.5000 | 440674.4 | 11.5000 | -0.0000 |
| 15.0000 | 380493.6 | 15.0000 | 0.0000 |
| 18.5000 | 329521.6 | 18.5000 | 0.0000 |
| 22.0000 | 286214.6 | 22.0000 | -0.0000 |
| 25.5000 | 249305.3 | 25.5000 | 0.0000 |
| 29.0000 | 217756.4 | 29.0000 | 0.0000 |
| 32.5000 | 190711.7 | 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

