

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1433
CALIBRATION DATE: 28-Jan-11

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 6.176222e-005
a1 = 2.702186e-004
a2 = -2.185764e-006
a3 = 1.442411e-007

| BATH TEMP (ITS-90) | INSTRUMENT OUTPUT | INST TEMP (ITS-90) | RESIDUAL (ITS-90) |
|-----------------------|----------------------|-----------------------|----------------------|
| -1.5000 | 767999.7 | -1.5000 | 0.0000 |
| 1.0000 | 684059.8 | 1.0000 | -0.0000 |
| 4.4999 | 583449.2 | 4.4999 | -0.0000 |
| 8.0000 | 499307.1 | 7.9999 | -0.0001 |
| 11.4999 | 428695.4 | 11.4999 | 0.0000 |
| 14.9999 | 369236.7 | 15.0000 | 0.0001 |
| 18.4999 | 319004.3 | 18.5000 | 0.0001 |
| 21.9999 | 276431.1 | 21.9999 | -0.0000 |
| 25.5000 | 240235.5 | 25.4999 | -0.0001 |
| 28.9999 | 209369.5 | 28.9999 | -0.0000 |
| 32.4999 | 182970.2 | 32.4999 | 0.0000 |

Temperature ITS-90 = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

