## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6826 CALIBRATION DATE: 13-Jan-12

SBE16plus TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **ITS-90 COEFFICIENTS**

a0 = 1.305837e - 003a1 = 2.568581e-004a2 = 1.377053e-007a3 = 1.335830e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	618292.500	1.0000	0.0000
4.5000	547281.727	4.4999	-0.0001
14.9999	371933.636	14.9999	0.0000
18.5000	325148.100	18.5000	-0.0000
24.0000	261899.900	24.0001	0.0001
29.0000	214006.800	28.9998	-0.0002
32.5000	185198.000	32.5001	0.0001

MV = (n - 524288) / 1.6e + 007

R = (MV \* 2.900e+009 + 1.024e+008) / (2.048e+004 - MV \* 2.0e+005)

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

Residual = instrument temperature - bath temperature

Date, Delta T (mdeg C)

