

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2946
 CALIBRATION DATE: 14-Aug-07

SBE3 TEMPERATURE CALIBRATION DATA
 IPTS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.34410276e-003
 h = 6.39303472e-004
 i = 2.14832320e-005
 j = 1.85167271e-006
 f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121219e-003
 b = 5.99774244e-004
 c = 1.55557874e-005
 d = 1.85312395e-006
 f0 = 2921.066

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	2921.066	-1.5000	0.00001
1.0000	3089.510	1.0000	-0.00001
4.5000	3336.981	4.5000	-0.00000
8.0000	3598.390	8.0000	-0.00002
11.5000	3874.123	11.5000	0.00001
15.0000	4164.550	15.0001	0.00007
18.5000	4470.013	18.5000	-0.00003
22.0000	4790.883	21.9999	-0.00005
25.5000	5127.499	25.5000	0.00001
29.0000	5480.174	29.0000	0.00003
32.5000	5849.221	32.5000	-0.00001

Temperature ITS-90 = $1/\{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1/\{a + b[\ln(f_0/f)] + c[\ln^2(f_0/f)] + d[\ln^3(f_0/f)]\} - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be $1.00024 * T_{90}$ (-2 to 35 °C)

Residual = instrument temperature - bath temperature

