

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2958
 CALIBRATION DATE: 27-Feb-08

SBE3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.39481289e-003
 h = 6.72842106e-004
 i = 2.99627958e-005
 j = 2.77441797e-006
 f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121332e-003
 b = 6.16737948e-004
 c = 2.07555225e-005
 d = 2.77643384e-006
 f0 = 3033.731

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	3033.731	-1.5001	0.00003
0.9999	3203.792	0.9999	-0.00002
4.4999	3453.415	4.4998	-0.00005
7.9999	3716.852	7.9999	0.00005
11.4999	3994.456	11.4999	0.00003
14.9999	4286.591	14.9998	-0.00009
18.4999	4593.643	18.5000	0.00009
21.9999	4915.907	21.9999	0.00004
25.4999	5253.725	25.4998	-0.00008
28.9999	5607.437	28.9999	-0.00003
32.4999	5977.334	32.4999	0.00004

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

