

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4799
 CALIBRATION DATE: 14-Aug-07

SBE3 TEMPERATURE CALIBRATION DATA
 IPTS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.36382075e-003
 h = 6.36625968e-004
 i = 2.06198945e-005
 j = 1.69170141e-006
 f0 = 1000.0

ITS-68 COEFFICIENTS

a = 3.68121250e-003
 b = 5.97295400e-004
 c = 1.50215318e-005
 d = 1.69308502e-006
 f0 = 3029.537

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3029.537	-1.5000	-0.00001
1.0000	3204.978	1.0000	0.00001
4.5000	3462.772	4.5000	0.00002
8.0000	3735.143	8.0000	-0.00001
11.5000	4022.495	11.5000	-0.00002
15.0000	4325.225	15.0000	0.00005
18.5000	4643.692	18.4999	-0.00006
22.0000	4978.295	22.0000	-0.00002
25.5000	5329.382	25.5000	0.00004
29.0000	5697.289	29.0000	0.00004
32.5000	6082.348	32.5000	-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

