

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 4491
 CALIBRATION DATE: 20-Mar-08

SBE3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.42658943e-003
 h = 6.46593913e-004
 i = 2.27195718e-005
 j = 1.97101572e-006
 f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68121492e-003
 b = 6.00791117e-004
 c = 1.56633061e-005
 d = 1.97249343e-006
 f0 = 3313.363

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5002	3313.363	-1.5002	0.00001
0.9999	3504.104	0.9999	-0.00003
4.4999	3784.299	4.4999	0.00003
7.9999	4080.232	7.9999	-0.00000
11.4999	4392.338	11.4999	-0.00002
14.9998	4721.025	14.9998	0.00002
18.4999	5066.709	18.4999	-0.00003
21.9999	5429.766	21.9999	-0.00001
25.4998	5810.567	25.4998	0.00003
28.9999	6209.495	28.9999	-0.00000
32.4999	6626.876	32.4999	-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

