

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2535
CALIBRATION DATE: 21-May-98

SBE3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.39256749e-003
h = 6.50121874e-004
i = 2.39544058e-005
j = 2.19169706e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.68016834e-003
b = 6.04243696e-004
c = 1.64958770e-005
d = 2.19327449e-006
f0 = 3122.366

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.4229	3122.366	-1.4230	-0.00001
1.0878	3301.744	1.0878	0.00003
4.5788	3563.373	4.5788	-0.00000
8.1773	3848.318	8.1772	-0.00004
11.6115	4135.101	11.6114	-0.00001
15.1684	4447.806	15.1685	0.00005
18.6725	4771.812	18.6725	0.00003
22.1716	5111.515	22.1715	-0.00002
25.7312	5474.032	25.7311	-0.00002
29.1463	5838.202	29.1463	-0.00002
32.6797	6232.180	32.6797	0.00002

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

